Consumer and Corporate Affairs Canada

Consommation et Corporations Canada

A Review of Research on the Canadian Food Industry

Food Policy Group

Report

A REVIEW OF AVAILABLE RESEARCH AND STATISTICAL DOCUMENTATION AND ANALYSIS ON FOOD PROCESSING, DISTRIBUTION AND RETAILING IN CANADA

Broadwith, Hughes and Associates
Ltd., Guelph, Ontario

Food Policy Group
Consumer and Corporate Affairs
Canada

November 1977

Table of Contents

Table of Contents, cont'd

Table of Contents, cont'd

As part of its ongoing program of work, the Food Policy Group of Consumer and Corporate Affairs Canada has arranged for a number of research studies to be undertaken. These studies are designed to provide the indepth analysis required to underpin and support the Group's mandate to provide advice on food policy. In the first instance the research is focussing on a critical review of available research material and statistical information pertaining to various parts of the food system.

This first study deals with available research and statistical documentation and analysis on food processing, distribution and retailing in Canada. More specifically, the terms of reference for the study were as follows:

1 to determine the importance and role of the Processing, Distribution and Retailing sector in the overall food system in Canada;

2 to identify the constituent industry segments that comprise this Processing, Distribution and Retailing sector;

3 to take stock of all statistical information related to the Processing, Distribution and Retailing sector of the food system that presently is generated by both public and private agencies;

4 to take stock of all previous and on-going studies, documentation and analysis related to the composition, operation, and economic performance of the Processing, Distribution and Retailing sector;

5 to assess the potential contribution of this material to the development of food policy;

6 to delineate those areas in which effective food policy formulation is being constrained as a result of inadequate research information;

7 to recommend priorities for research on the Processing, Distribution and Retailing sector which will directly affect food policy formulation.

The study was undertaken for the Department by Broadwith, Hughes and Associates Ltd. of Guelph, Ontario. The research methodology included a series of personal interviews with knowledgeable people in government, food industry and the Universities. On behalf of the Department, I would like to acknowledge the assistance given to the consultants by these people. The views and opinions expressed in the report are those of the consultants alone and do not necessarily reflect the views of Consumer and Corporate Affairs Canada.

The report is being released in an attempt to stimulate comment and discussion on the important issues it raises, particularly in regard to the apparent dearth of statistical data and economic analysis of the structure, conduct and performance of the food processing, distribution and retailing sector in Canada. The Food Policy Group attaches a high priority to improving our knowledge of this component of the food system, which accounts for over 60 per cent of every dollar the consumer spends on food. The Group intends to focus its research activity on the PDR sector and already a study to develop an integrated research strategy for this sector of the Canadian food system is in the planning stage.

The Food Policy Group proposes to release the reports on its research studies to the public as they are completed. This is the first such report. Subsequent reports, to be released later this year, will deal with food packaging and labelling costs and the effects of recent government legislation on costs and competition in the food industry and an assessment of food consumption patterns and trends in nutrition in Canada.

Sylvia Ostry
Deputy Minister

July, 1977

Summary

The only series of statistical data on the processing, distributing and retailing sector of the Canadian food system is available from Statistics Canada. These data are criticized by academic researchers, government personnel and members of the food industry alike because of shortcomings which limit their use for economic analysis, policy prescription and industry planning purposes. The major limitations identified include: the lack of timeliness in publication; the definition of industry groups for purposes of statistical convenience rather than competitive reality; the 'lumping together' of products with dissimilar end-uses and using differing market channels into a single category; the 'lumping together' of business units with quite different types of operation and product mixes; a consistently changing sample frame which confounds inter-temporal comparisons; a lack of information on cost factors in the major food industry sectors; and, in addition, some questioned the quality and reliability of the primary data submitted to Statistics Canada by some firms in the industry.

It should be pointed out that what data is available from other sources, such as Trade Associations, generally is 're-hashed', Statistics Canada information. Some primary statistical data are also collected by the Tariff Board and Competition Bureau of the Federal Department of Consumer and Corporate Affairs. This data is considered confidential and, therefore, is not available for use in analysis by other groups.

In the past, Royal Commissions, Boards of Inquiry and the like have collected some specific primary data from the food industry. Again, this data was usually obtained on a confidential basis and is generally unobtainable, even after the fact.

There has been only very limited economic analysis of the processing, distributing and retailing sector of the Canadian food system. The studies that have been carried out have usually been concerned with description of the prevailing industry structure with scant attention paid to industry conduct and economic performance. Exceptions include: analysis of wholesale and retail margins on the major food commodities, and some analysis of the financial performance of the main food industry groups carried out by the Food Prices Review Board (including the reference paper on retail concentration); a limited industrial organization type of study focussing on the retail sectors in the Prairie Provinces by the Royal Commission on Consumer Problems and Inflation; a study of profitability of sixteen Canadian food companies prepared for the Ontario Ministry of Consumer and Commercial Relations; studies of the beef marketing system and marketing margins by both the Federal Commission of Inquiry into the Marketing of Beef and the Manitoba Beef Inquiry; and, as yet, unpublished reports by the Competition Bureau on performance of the food processing industry, and an economic analysis of the fruit and vegetable processing industries by the Tariff Board.

A number of reports describing the structure of some components of the food industry are available from several sources. These include: a study of the Ontario food processing industry prepared for the Ontario Ministry of Industry and Tourism; a paper identifying ownerships and directorate interlocks in the corporate food industry published by the University of Saskatchewan; a survey of food processing in Canada published by the Maclean-Hunter Research Bureau; and various industry segment reviews prepared by the Agricultural Products Division of the Federal Department of Industry, Trade and Commerce.

Few academic economists have researched the food industry in Canada, although Mallen (Concordia), Devine (Saskatchewan), Hawkins (Alberta) and Tigert (Toronto) have limited publications in this area.

Conclusions

1 There is a dearth of meaningful statistical information for use in policy analysis for the processing, distributing and retailing sectors of the Canadian food system.

Statistics Canada is virtually the sole source of continuous data on the food industry. These data are perceived by users to have major limitations. Trade Associations and independent research organizations usually do not generate original data. Limited information is occasionally available from government-initiated Commissions and Boards of Inquiry.

2 Work which has been published is almost exclusively descriptive and concerned with industry structure rather than addressed to the more pertinent fields of industry conduct and economic performance.

3 There appears to have been a widespread lack of interest in conducting economic research into the food processing, distribution and retailing system by federal and provincial governments, and the academic community, although considerable political rhetoric has been forthcoming in this area.

4 Most government sponsored research has been initiated in response to immediate political considerations (such as rising food prices, or a decline in producer returns for beef, for example) rather than maintaining a longer term facility for monitoring and explaining the economic relationships in, and performance of, the food industry as is the case in the United States.

Recommendations

1 Clearly, the primary concern of future research on the processing, distributing and retailing sector of the food industry must centre on the operational efficiency of the system. The common yardsticks of price levels and reported corporate profits are not an adequate measure of industry efficiency. In particular, the questions of industry cost

structures and industry productivity must be addressed. A prerequisite for such analysis is the collection and organization of basic cost data using a standard income statement format such as the following:

KEY COST ELEMENTS

I. OPERATING COSTS

Production Labour
Fringe Benefits
Energy Costs
Packaging
Transportation
  Internal
  Purchased
TOTAL

II. SALES AND ADMINISTRATION COSTS

Salaries
Advertising

III. CAPITAL COSTS

Depreciation
Interest

IV. OVERHEAD COSTS

Insurance
Rent
Repairs
Bad Debts
Other

V. PROFITS & TAXES

Total Taxes
Apparent Profits

This format could be employed as the basic analytical vehicle for commodity and sectoral studies.

2 A related priority for future research efforts is the development of both the data sources and the operational facility to analyze the likely impact on the processing, distributing and retailing sector of the food industry of changes in factors effecting the industry, such as: legislative food and agricultural policy changes; changes in key cost

components (for example, labour, energy, packaging, transportation and interest costs); changes in product supply; changes in consumer demand for industry output; changes in per capita income. A particular objective should be to develop the ability to anticipate prospective developments in the industry and to analyze the likely consequences of these developments.

The effect of cost changes could be determined using the following simple framework for the organization of industry cost data.

FOOD INDUSTRY COST FACTORS

	PRESENT COST LEVEL	CHANGE IN COST FACTOR	IMPACT OF CHANGE IN COST FACTOR
I. RAW MATERIALS			
Food Processing			
Food Distribution			
Total Food Industry			
II. WAGES AND SALARIES			
Food Processing			
Food Distribution			
Food Retailing			
Total Food Industry			
III. PACKAGING MATERIALS			
Food Processing			
Food Distribution			
Food Retailing			
Total Food Industry			
IV. ADVERTISING			
Food Processing			
Food Distribution			
Food Retailing			
Total Food Industry			
V. TRANSPORTATION			
Food Processing			
Food Distribution			
Food Retailing			
Total Food Industry			
VI. ENERGY COSTS			
Food Processing			
Food Distribution			
Food Retailing			
Total Food Industry			
TOTAL			

3 It is recommended that a procedure for regular comparisons of industry and sector performance with U.S. counterparts be developed. This could also be used to calculate the cost to consumers of maintaining a domestic productive capacity for the major foods.

4 Another area warranting concern is that of industry conduct, particularly at the processor/distributor - retailer interface. In particular, it is recommended that practices such as volume discounting, listing allowances, new product introduction offers, co-operative advertising and promotional incentive schemes be examined for their impact on the efficiency of the overall operation of the system.

5 It is recommended that research be initiated into establishing the nature and extent of both vertical and horizontal integration in the food industry, and to investigate their effects both on the conduct and performance of that industry and on related industries.

6 Given the substantial and growing importance of the 'Away-from-Home' food market, it is recommended that research be undertaken to determine the influence of this segment on the structure, conduct and performance of the processing, distributing and retailing sector of the food system.

PART I

INTRODUCTION

I. Introduction

In this report, a critical review of available research and statistical documentation and analysis on the processing, distributing and retailing sector of the Canadian food system is presented.

In effect, the report is in two parts: first, the 'regular' report. The food processing, distributing and retailing sector is defined, information availability and quality, and available research material on this sector are critically reviewed, pertinent U.S. studies are identified, major issues and concerns in the Canadian industry are reported, and a summary, conclusions and recommendations are presented; second, an annotated bibliography of statistical information and research material on the food processing, distributing and retailing sector is made available to be perused in conjunction with the 'regular' report.

The research methodology was straightforward. A literature and statistical information search was initiated resulting in the preparation of over 1,000 annotated index cards identifying statistical sources and articles on the food processing, distributing and retailing sector which have been published during the last fifteen years. Major sources included publications from federal and provincial governments, trade associations, independent research agencies, academic journals and post-graduate theses, food industry journals, and annual company reports.

In conjunction with the literature search, pertinent trade, government and academic personnel were canvassed to determine their perception of information needs, research priorities and salient issues and concerns they considered were facing the food industry.

The report represents a distillation of information generated via the literature search, of discussions with pertinent industry, government and academic personnel, and of the authors' interpretation of the statistical and research needs and requirements of industry and government participants.

PART II

A DEFINITION OF THE PROCESSING, DISTRIBUTING AND RETAILING SECTOR OF THE CANADIAN FOOD INDUSTRY

II. A Definition of the Processing Distributing and Retailing Sector of the Canadian Food Industry

The main product flow in the Canadian food system runs from producers to processors through food brokers to wholesalers, to retailers and, finally, to consumers. The processing, distribution and retailing sector can be broadly defined as comprising those functions which cause changes in the temporal, spatial or form dimensions of food products between the farm gate and the consumer purchase.

1. Processing

Processing is defined as those manufacturing activities concerned with the addition of 'value' through changing the form of the raw food product. The major activities involved are assembly of the raw product and the processing which includes grading, sorting, packing, cooking, preparing, canning, freezing, drying, freeze-drying, dehydrating, liquifying, refining, crushing, blending, mixing, weighing and aging.

The main processing activities involved for each of the major food categories are as follows:

1 meat packing (including the products of beef, pork, lamb, veal and edible offals)--- may involve dressing, grading, cooling, cutting, trimming, boxing, canning, freezing, grinding, blending, smoking, curing, cooking and packaging.

2 the processing of broiler chickens, roaster chickens, hens, turkeys, ducks and other poultry --- involves dressing, chilling, freezing, smoking, cutting, trimming, canning, cooking, packaging. Also included in this category is the grading, washing, packaging, drying, freezing and liquifying of eggs.

3 fish processing including sea fish, fresh water fish and related aquatic products --- involves cleaning, cutting, deboning, filleting, skimming, freezing, cooking and packaging.

4 the manufacture of dairy products including fluid milk, fresh cream, ice cream, butter, natural processed cheese, yoghurt, and other similar products.

5 the milling of flour and meal, the preparation of flour mixes, macaroni and spaghetti, bread baking, biscuit, cookie, pretzel and breakfast cereal manufacturing, and packaging of such products.

6 the grading, sorting, washing, waxing, canning, freezing, instantizing and dehydration of fruits and vegetables, the preparation of fruit and vegetable juices, pulps and extracts, pickle, sauce and vinegar and cider manufacture, the processing of jams and jellies, the preparation of fruit and vegetable frozen and canned specialties, and nut processing and packaging.

7 the refining and processing of maple, cane and beet sugar, the manufacture of sugar, syrups and confectionery items including chewing gum, chocolate, cocoa products, flavourings and syrups.

8 the manufacture of non-alcholic beverages including coffee, tea, cocoa and soft drinks.

9 the operations of the edible oil industry including cottonseeds, soybeans, farm and vegetable oils such as safflower, sunflower, and rapeseed and the production of shortening, salad and cooking oils, margarine, non-dairy creamers and the manufacture of textured vegetable protein.

10 the manufacture of miscellaneous foods and kindred products including prepared dinners, snacks, packaged desserts, condiments, soups and baby foods.

The manufacture of alcoholic beverages such as beer and ale, wine and distilled liquors is excluded in the definition adopted. Similarly, food processing operations aimed specifically at the hotel, restaurant or institutional trade are also excluded.

2. Food Distribution

Food distribution is here defined to encompass the activities of storage, transportation, warehousing, broking, jobbing and wholesaling. The usual line of product movement is from processor to wholesale warehouse to retail store but there are many variations of this route. Transportation can be by common carrier or by producer, processor, wholesaler or retailer vehicle. The warehouse facilities can be owned by the producer, processor, transport firm, broker, jobber, retailer or specialized wholesaler.

Three types of grocery wholesaler are included:

1 Retailer-owned Co-operative Wholesalers

2 Voluntary Group Wholesalers Sponsoring Retail Groups

3 Independent Wholesalers (whose customers have no affiliation with the retailer).

Purveyors specializing in servicing the hotel, restaurant and institutional trade are not included in the food distribution sector defined above.

3. Food Retailing

In this study, the food retailing sector is considered to involve those activities concerned with the final merchandizing of food products to the consumer. The marketing operations of the national and regional supermarket chains (a chain is defined as the operation of four or more stores under common ownership, while a supermarket is a food store with annual sales of $500,000 or more), specialized food stores such as bakeries, butcheries and fish retailers, specialized food discounters, the food department of a discount department store, a food department of a department store, independent food stores, voluntary cooperative group food stores, convenience stores, and jug milk stores are all considered part of the retailing sector. Those operations which involve vertical integration into production, processing or wholesaling by retailers are not included here.

PART III

THE CANADIAN FOOD PROCESSING, DISTRIBUTING AND RETAILING SECTOR: INFORMATION AVAILABILITY AND QUALITY

'In Canada the gathering, analysis and dissemination of needed information is so heavily concentrated in the hands of government, and the resources outside government for doing this are so small (and mostly governmentfinanced) that it is virtually impossible to overstate the importance of government policies, attitudes and procedures towards assembly and provision of information'.

The above statement, made by David Kirk in a recent article,(1) encapsulates the issues and concerns that relate to data availability and quality in the processing, distributing and retailing sector of the Canadian food system. For all policy formulation intents and analytical purposes, Statistics Canada provides virtually the sole source of relevant statistical material on the food system.

In this section, statistical sources are sub-divided into three categories: the major category, Statistics Canada Information; and the two ancillary categories, 'Other Governmental' and 'Non-Governmental' sources of statistical information.

1. Statistics Canada Information

The 'hard core' Statistics Canada information on the food and beverage industry is subsumed within nine major Standard Industrial Classification (SIC) categories, that is, from SIC Code 101 to 109 inclusive.

SIC Code	Sector
101	Meat and Poultry Products Industries
1011	Slaughtering and Meat Processors
1012	Poultry Processors
102	Fish Products Industry
103	Fruit and Vegetable Processing Industries
1031	Fruit and Vegetable Canners and Preservers
1032	Frozen Fruit and Vegetable Processors
104	Dairy Products Industry
105	Flour and Breakfast Cereal Products Industry
106	Feed Industry

(1) David Kirk, 'The Policy-Making Process', Agrologist, Volume 6, Number 1, 1977.

SIC Code	Sector
107	Bakery Products Industries
1071	Biscuit Manufacturers
1072	Bakeries
108	Miscellaneous Food Industries
1081	Confectionery Manufacturers
1082	Cane and Beet Sugar Processors
1083	Vegetable Oil Mills
1089	Miscellaneous Food Processors, n.e.s.
109	Beverage Industries
1091	Soft Drink Manufacturers
1092	Distilleries
1093	Breweries
1094	Wineries

The sectors are more comprehensively defined in Appendix I.

The relative importance of the food and beverage industrial sector (SIC Code 01) vis-a-vis the industrial sectors can be measured with reference to Statistics Canada aggregate data on all manufacturing activities by industry group (that is, food and beverage industries, leather industries, machinery industries, etc.).

Within each SIC category, basic statistics are available in the following areas: production (or pack) data in quantity and value terms; shipment data; aggregate disappearance data; consumption data (derived from domestic disappearance statistics and import and export figures); statistics on number and types of employees; wage and salary data; statistics on the cost of fuel and electricity; and limited data on purchased imputs.

Statistics on the retailing sectors (including data on independent retail and chain stores) are included within SIC 631.

All relevant Statistics Canada publications relating to the processing, distributing and retailing sector of the food system are catalogued under appropriate headings and are presented in the bibliography of the Canadian Food P.D.R. Sector (Appendix III).

1.1 User Concerns with Statistics Canada Data

Representatives of the food industry, academics and government policymakers alike point to a number of fundamental areas where Statistics Canada data fall short of their requirements.

The most common criticism relates to the lack of timeliness of the data. All Statistics Canada information users surveyed identified this as a major limitation for policy and, particularly, market analysis purposes. Of course, this is a criticism that routinely is directed against government statistical departments in every country. However, Statistics Canada has a particularly unimpressive comparative performance record. For example, U.S. Federal statistical information on the U.S. food system is generally available consistently ahead of equivalent Canadian data. Perhaps this indicates the relatively higher level of priority that the U.S. government attaches to information collection when compared to their Canadian government counterpart.

The second major criticism relates to the SIC method of defining industry groups. Academic researchers and some representatives of the trade point out that the SIC four-digit industry is narrowly defined, and defined for purposes of statistical convenience rather than competitive reality, so that most of the relevant competition is inter-industry. This has particularly pertinent ramifications when investigating levels of concentration in specific industry sub-groups. For example, breakfast cereals compete not only among themselves for a place at the breakfast table, but also with foods from several other SIC four-digit categories such as bacon, eggs, bread, pancakes, etc. In other instances, the SIC category is so broad as to be almost meaningless for assessing relevant concentration ratios, for example the 'catch-all' miscellaneous foods category.

Even within such a defined category as 'Fish Products Industry', for example, the trade criticizes the available information because of insufficient specific product group information. A 50-pound frozen cod block destined for the HRI trade and a packet of fish sticks for the retail counter are products that, whilst in the same SIC food category, are not comparable products and are not considered to compete in the same markets. Further, for processed fish products consumption data is only available on an aggregated basis, that is per capita consumption for <u>all</u> fish products. Thus, trends in consumption within a specific commodity category are effectively masked.

In summary, a generalized criticism of Statistics Canada data is that it is directed towards the production process and not towards the end-user market. In effect, it is production orientated and the trade desires statistics that are market orientated.

A criticism of Statistics Canada information identified by some trade personnel is the lack of homogeneity within specific sub-sector samples. For example, the Slaughtering and Meat Processors sub-sector (SIC Code Number 1011) includes enterprises ranging from specialized beef processors through to specialized meat purveyors, and includes fully-integrated meat packing companies. The argument is made that aggregating data derived from such widely differing enterprises provides a composite result that is not meaningful ('You're comparing apples and oranges' is a typical retort!).

Some information users expressed concern about the temporal consistency of Statistics Canada data. That is, the food and beverage industry is dynamic - its structure is continually changing - yet Statistics Canada's sample frame is not perceived to change as the industry structure changes. Thus, some researchers are reluctant to attach statistical credibility to inter-temporal comparisons within industry sub-sectors because the respective sample frames are not representative of the structure of the sub-sector at a particular point in time.

Two criticisms of the available statistical information which were expressed particularly by academic researchers were: the lack of detail on cost components within the food system; and absence of inter-provincial product movement data. These were seen as seriously limiting information gaps constraining useful analysis for policy prescription purposes.

Finally, some representatives of the food industry questioned the veracity of the data collected by Statistics Canada from some companies within that industry. It was argued that both the defensive (even cynical) attitude of business towards government ('if we give sensitive statistics to government they'll just get leaked!') and the poor information control within some companies were largely reponsible for the perceived low quality of Statistics Canada information. Certainly, the latter point has high face validity, particularly within certain industry sectors. (For example, it is the rule and not the exception for even the largest companies within the meat packing industry to have only very limited information on many of the commercially fundamental facets of their business.)

2. Other Governmental Sources of Statistics

Other sources of continuing data on the food processing, distributing, and retailing sector which emanates from federal and/or provincial governments are few and far between. Such data that exist have a heavy emphasis on primary market prices.

2.1. Agriculture Canada (Markets Information Division)

-'Livestock and Meat Trade Report'

Includes wholesale meat market price reports and statistics on dressed meat imports and exports.

-'Dairy Market Report'

Includes sections on wholesale prices and trade in dairy products.

-'Fruit, Vegetable and Honey Report'

Includes information on regional wholesale prices.

-'Poultry Market Report'

Includes wholesale price information for eggs and poultry.

The above information is published weekly, and summarized monthly and annually.

2.2. Environment Canada (Fisheries and Marine Service)

Annual Statistical Review of Canadian Fisheries.

Includes statistics on landings and values of fish, per capita consumption of fishery products (only three categories are specified - fresh and frozen, cured (smoked, salted and pickled), and canned).

2.3. Anti-Inflation Board

The Anti-Inflation Board publishes a press release on food prices every month. Significant price movements for major food commodities and the rationale for such movements are highlighted. Further, the monthly movements in cost of a 'nutritious basket of retail foodstuffs' (See 'What Price Nutrition' - F.P.R.B. publication) are identified for major centres in Canada.

The Food Prices Review Board and, subsequently, the Anti-Inflation Board have collected weekly retail prices for a wide selection of food-stuffs since early 1974. Undoubtedly, this 'pool' of price information is, with the exception of Statistics Canada, the most comprehensive available on retail food prices across Canada. Since April 1975, the A.I.B. has been collecting wholesale price information on products that are included in their weekly retail survey. To add an unsolicited comment, it would be a real loss for any individual or organization with an interest in research in the food sector if this source of information was to terminate with the termination of the A.I.B.

Some limited information is available on a continuing basis from some provincial governments (for example, the Alberta Department of Agriculture publishes a weekly grain and livestock report, and the Ontario Food Council reports on prices of a market basket of retail goods on a continuing basis). However, such information typically is restricted entirely to market price reports.

3. Non-Governmental Sources of Statistics

As identified in an earlier section, there is a distinct dearth of regularly available statistical material on the food processing, distributing and retailing sector from non-governmental sources.

Trade Associations representing interest groups within the food system typically do not produce any continuous information. The few that do produce statistical reports rely on Statistics Canada data for their bases (for example, see 'Food Price Facts' published by the Grocery Products Manufacturers Association of Canada), or simply compile directories of association members.

Information sources that do exist include:

3.1. Dun and Bradstreet of Canada Limited

A company specializing in providing credit rating information on individual companies. For example, for specific companies data are available on sales, profitability, number of plants, number of employees, years in business, etc. However, the available data are of limited usefulness for analytical purposes because, often, they are too highly aggregated (information on Canada Packers, for example, is not subdivided into feed-milling, meat packing or vegetable and/or animal oils categories).

3.2. Toronto Globe and Mail

Daily reports on market prices for livestock, fruit and vegetables, grains and oilseeds and various U.S. food commodities.

3.3. Annual Survey of National Advertising Expenditure (MacLean-Hunter Research Bureau)

Focusses on advertising expenditure in the print and broadcast media. Available annually.

3.4. The Corporate Food Industry in Canada: Some Data on Ownership and Directorate Inter-Locks

An occasional paper published by the University of Saskatchewan (Regina Campus) Sample Survey and Data Bank Unit in 1974. Presents a series of charts which describe and delineate the structure of some of the major corporations involved in the Canadian food industry. This is one of the very few data sources that identifies horizontal and/or vertical integration links between food companies.

3.5. Grocery Products Industry and the Canadian Food and Beverage Industry (Grocery Products Manufacturers' Association)

Reports published by the G.P.M.A. in 1973 and 1976 collating Statistics Canada information on the grocery products and beverage industries in Canada.

3.6. Canadian Grocer Figure Exchange (Canadian Federation of Retail Grocers)

Varied aggregate and individual corporate statistics on the retail grocery sector. Not comparable from year to year as the sample changes.

-In addition, there are an assortment of trade directories and allied publications including:

The Canada Food and Food Packaging Directory

The Ontario Food Processing Industry Directory

Directory of Volume Food Service Operators and Distributors in Canada

The Official Buyers and Sellers Guide of the Grocery and Allied Trades

The Blue Book of Food Store Operators and Wholesalers.

Within specific commodity sub-sectors there are limited publications of the 'Directory of Canadian Dairy Processors and Distributors' type.

3.7. Survey of Chains and Groups (Canadian Grocer)

Annual supplement to the monthly magazine 'Canadian Grocer'. Subdivided into two sections: the chains (supermarkets and jug milk/convenience stores); and groups (inter-provincial and provincial). Gives senior management names and locations, sales, store numbers and locations, interest in private labelling, notes on expansion programme and on buying policies.

-statistical and general industry information is available on an ad hoc basis through the trade journals and professional association journals that have an interest in the food industry. Foremost there are:

-Food in Canada, and

-Canadian Grocer

PART IV

RESEARCH INTO THE STRUCTURE, CONDUCT AND PERFORMANCE OF THE PROCESSING, DISTRIBUTING AND RETAILING SECTOR OF THE CANADIAN FOOD INDUSTRY

IV. Research Into the Structure, Conduct and Performance of the Processing, Distributing and Retailing Sector of the Canadian Food Industry

Published research material and, in particular, published economic research material on the structure, conduct and performance of the processing, distributing and retailing sector of the food industry reflect the state of basic information sources on this industrial sector, that is, they are few and far between. This is particularly surprising given the volume of political rhetoric that has been expended on discussions of issues and concerns in the food industry in recent years. The overwhelming impression that is left after undertaking a thorough search of available analytical material on this sector at government, trade, academic and private research agency level is that there exist immense gaps in basic researh knowledge relating to the structure, conduct and performance of the Canadian food industry.

Research work that has been accomplished falls into three categories: research into structure of the industry (or sub-sector of the industry) which has largely been descriptive with only a modicum of analytical input; research into food consumption, expenditure and buying behaviour; and research into the conduct and performance of the industry which, indeed, is a scarce commodity.

1. Research into Industry Structure

A limited number of structural studies are available. Of these, the following may provide a useful basis for further analysis:

-Market Report on the Food and Beverage Processing Industry in Canada, 1973 (Maclean-Hunter Research Bureau)

Essentially, this report compiles Statistics Canada data on the industry and makes projections based on historical trends to 1980.

-A Survey of Food Brokers and their Market, 1976 (Maclean-Hunter Research Bureau)

Compiles information on food brokers in Canada and provides regional statistical split.

-The Food Processing Industry (Ontario Ministry of Commerce and Tourism, 1975)

A descriptive analysis of the Ontario food processing industry. Reviews industry structure and technology trends.

-A Survey of the Bakery Industry in Canada (I.T.&C. Agricultural Products Division), 1970

-A Survey of the Biscuit Industry in Canada (source as above)

To be published in June 1977.

Description of industry structure.

-<u>The Alberta Food Processing Industry, 1975</u>
<u>Acres Consulting Group</u>

As above for Alberta.

-<u>An Inquiry into the Production and Marketing of Vegetables in Alberta</u>
<u>(Alberta Agricultural Products Marketing Council)</u>

A report published in 1973 which identified the structure, problems and potential of the industry.

-<u>The B.C. Food Industry (B.C. Food Council)</u>

Description of structure.

-<u>The Confectionery Industry in B.C., 1971</u>

-<u>New Brunswick Office of the Economic Advisor</u>

Various studies on sectors of the N.B. food industry with emphasis on structural analysis but with some productivity comparisons.

2. Research into Food Consumption, Expenditure and Buying Behaviour

Once again, with the exception of the Statistics Canada surveys on food expenditure and food consumption, relatively little information or research material is available on these fundamental areas.

-<u>Statistics Canada, 1969 Family Food Expenditure Survey and 1974 Family Food Expenditure Survey</u> (to be published shortly).

Some research reports are available which have used the above Statistics Canada information as a research base, and most have a strong econometric emphasis:

-<u>A Preliminary Paper on Family Food Expenditure in Canada - an Analysis of the 1974 Survey</u> (F.P.R.B. Reference Paper No. 7, February, 1976)

-<u>The Consumption of Bread and Fluid Milk in Canada</u> (F.P.R.B. July 1975).

-<u>Consumer Demand for Major Food Commodities in Canada</u> (Z.A. Hassan and S.R. Johnson, C.D.A. 1975)

-<u>Food Consumption Patterns in Canada</u> (Z.A. Hassan and W. F. Lu, C.D.A. 1974)

-<u>Consumer Demand for Meat in Canada</u> (Tryfos and Tryphonopoulos, American Journal of Agricultural Economics, Volume 55, 1973)

-<u>Trends in Per Capita Food Expenditure in Canada</u> (Shute and Yankowsky, C.D.A.)

-Handbook of Food Expenditures, Prices and Consumption 1975 (Z. A. Hassan and D. Champagne, C.D.A.)

Typically, the above research has investigated the influence of family size, income level etc. on food expenditure patterns, and elasticities have been derived for a wide range of food commodities.

Research work that has concentrated on consumer buying behaviour (that is, which products bought, where, how frequently etc?) is not readily available, although such surveys are carried out on a custom and syndicated basis by a number of market research firms specializing in consumer products. Studies that are available include:

-Chatelaine Consumer Food Surveys (Maclean-Hunter Research Bureau)

The M.H.R.B. carry out consumer surveys across Canada with a panel of 1,500 housewives and the results are periodically presented in an abbreviated form in Chatelaine Magazine. The full results are available from M.H.R.B. at a price (for example, Non-Alcholic Beverage study completed in November 1975).

-Food Markets in Canada, 1967 (Reader's Digest Research Department)

Gives brand usage data.

-1967 Canadian Consumer Survey (Canadian Daily Newspaper Publishers Association)

Across Canada survey of consumer purchasing behaviour for grocery products and other items. Results split by brand, and type of outlet where brand purchased.

-Fleischmann's Consumer Panel Report on Consumer Purchases of Bakery Products in Canada, 1972

Purchasing behaviour by type of product, outlet, family size, regional location, etc.

-Why They Shop at Their Supermarket (Marketing: Food and Grocery Industry Report) December 1973

Article on shopping behaviour in the trade magazine 'Marketing.'

Researchers in government, universities and commercial firms alike must look with envy at the detailed information on food consumption and expenditure behaviour for specific food types that is available on an annual basis in, for example, the U.K. government publication 'Household Food Consumption and Expenditure'. In Canada, detailed information on food consumption behaviour is just not available

3. Research into Industry Conduct and Performance

Research into the areas of food industry conduct and economic performance can be divided into two categories, governmental (both federal and provincial) and all other.

3.1. Government Initiated Research

Government initiated research into the conduct and economic performance of the food processing, distributing and retailing sector can be usefully sub-divided into two sub-categories: research emanating from established federal and/or provincial government departments; and research emanating from relatively short-term commissions and/or boards of inquiry. In more recent years, it is fair to say that the latter source has produced the bulk of the research material on the Canadian food system.

3.1.1. Commissions and Boards of Inquiry

(i) The Food Prices Review Board

In the three years that the F.P.R.B. was in existence, it released over fifty publications that addressed pertinent issues in the Canadian food system. Major areas of investigation included: studies of food company profitability; extensive research on price spreads (that is, gross margins) for a wide range of commodities; a study on convenience stores; the impact of advertising costs on food prices; retail food price comparisons; analyses of food prices in Northern Canada and Newfoundland an investigation of labour costs in food processing; a number of policy orientated studies; and quarterly reports that gave an overview of the food price situation and focussed on such issues as energy costs and productivity in the food system.

Whilst the F.P.R.B. reports may be criticized for taking a 'snap-shot' approach to problems in the food industry and for not addressing comprehensively the issues of food industry efficiency, they do represent virtually the sole source of solid analytical material on the food system during the period 1973 to 1975, a period when food prices and input costs were experiencing strong inflationary pressures.

One major constraint to preparing research documentation on food commodity sectors during the term of operation of the F.P.R.B. was the poor quality and lack of availability of basic information on the food system. A review of the published reports continually reveals the 'old war-horse' of a source 'Food Prices Review Board Estimate'. Time and time again researchers were obliged to consult 'industry contacts' to gain basic information. This is a sad reflection on the availability of fundamental information on the Canadian food system. Unfortunately, much of the information that was gathered from industry sources was done on a confidential basis and could only be published in an aggregate form. As a result, such information has been lost to present and future researchers.

(ii) A Preliminary Paper on the Levels, Causes and Effects of Economic Concentration in the Canadian Retail Food Trade: A Study of Supermarket Power.

This paper was released by the F.P.R.B. in February 1976 as Reference Paper No. 6 and was popularly termed 'The Mallen Report'. Whilst not the definitive research paper on issues in Canadian food retailing, it is perhaps deserving of a separate sub-section because it did address many of the issues and concerns surrounding the prevailing discussion on supermarket power, if not actually providing comprehensive analytical back-up to support the conclusions drawn.

Mallen concluded that there were high levels of concentration in the retail food trade and these levels were growing rapidly. Barriers to shopping centre sites and economies of local advertising were basic determinants of such concentration. He identified ten policy options and 'combinations thereof', but he considered that only two did not have serious disadvantages:

1 Disallow further expansion by market leaders in higher concentrated markets.

2 Eliminate shopping centre discrimination.

Subsequent to the release of the above report, Hawkins et al have published a critique of the study with recommendations for future research emphasis.

(iii) Report of the Royal Commission on Consumer Problems and Inflation (Regina 1968).

The Royal Commission was initiated to investigate consumer problems and inflation with particular reference to the Prairie Provinces. A supporting study was prepared by D. C. Dooley entitled 'Retail Oligopoly: An Empirical Study of Structure, Conduct and Performance of the Grocery Trade on the Prairies.' The conclusion of this latter study indicated that excessive retail concentration contributed to the relatively high retail food prices on the Prairies. However, in a subsequent annual report from the Director of Investigation and Research, Consumer Investigation Act, the research conclusions were refuted on the basis of unsound data and questionable initial study assumptions.

(iv) Commission of Inquiry into the Marketing of Beef and Veal (published April 1976).

The Commission was established to investigate the marketing of beef and veal in Canada at a time when beef producers were experiencing very low or even negative net returns for their output. The marketing system for beef was described and its effectiveness assessed. Profitability at the packing-house, distributing and retailing level were investigated and price spreads were analyzed. The three Commissioners particularly emphasized three major recommendations:

-they rejected the principle of regulated domestic production for beef and veal but emphasized the need for substantial changes in the marketing system to protect the position of the livestock producer against inequities.

-retailers should be required to label the grade of beef on the packaged beef cuts sold at their retail counter and clearly state that grade of beef in any form of advertising used.

-the central processing of beef cuts should take place at the point of slaughter and early action should be taken by governments to reverse the current trend to growth in central processing by retailers.

Overall, the final report and background research documentation provide sound information on the structure, conduct and economic performance of the beef industry. However, once again, much of the statistical information was gathered on a confidential basis and is unavailable for use by future researchers.

Other Commission and Inquiry studies include:

(v) Manitoba Beef Inquiry, 1975

(vi) New Brunswick Royal Commission on the Milk Industry 1971

3.1.2. Established Government Departments

(i) Statistics Canada

Occasional publications are available on productivity trends in specific industries, including isolated publications on the brewing industry and the sugar industry. An annual publication '<u>Aggregate Productivity Measures</u>', whilst covering all industries, does provide some comparisons with U.S. data.

(ii) Consumer and Corporate Affairs

In 1971, the Competition Branch of the Federal Department of Consumer and Corporate Affairs published '<u>Concentration in the Manufacturing Industries of Canada.</u>' The study describes concentration measures and provides a provincial split of concentration in segments of the food industry.

Annual reports of the Director of Investigation and Research, Combines Investigation Act, for selected years, provide some information on the levels of concentration in Canadian industries, including the food and beverage industry.

Competition Branch is currently undertaking a study of the impact of certain market variables (for example, advertising levels, degree of concentration, geographic location) on the profitability of food processing firms. The time period being studied is 1965 to 1972. The analytical framework is similar to that undertaken by the U.S. Federal Trade Commission in their study of U.S. food company profitability. A first draft of the study should be available by June 1977. (A less detailed study, 'Marketing of Food from Farm-Gate to the Dinner Table, was prepared in mid-1974 by Competition Branch and should be available from this source.)

The Resources Branch currently is initiating research into the conduct and performance of the poultry market, with particular emphasis on the impact of supply management marketing boards.

(iii) Industry, Trade and Commerce

A rare study on industry conduct by this department was published in 1975 entitled 'Preliminary Survey of Capital Investment Intentions and Outlays for 1973: Selected Analytical Tables by Industry', and includes some statistics on the food and beverage industry.

(iv) Agriculture Canada

Currently, this department has one research economist investigating economic performance in the food industry. A recent publication is available from Agriculture Canada - 'Short-Term Production Functions and Economic Measures of Capacity for U.K. and Canadian Manufacturing Industries' (T. Hazledine 1976).

(v) Economic Council of Canada

In 1969, the Council published an 'Interim Report on Competition Policy'. Statistics on concentration in the food industry and other industries were presented.

(vi) Ontario Ministry of Consumer and Commercial Relations

This Ministry published 'A Study of Profitability for 16 Canadian Food Companies' in April 1974. The study concluded that there was no evidence to suggest food company profiteering during 1973. A tentative recommendation was made that food companies should review 'fixed mark-up' policies.

3.2. Other Research

There are very few published (or, indeed, unpublished) analytical studies of conduct and economic performance in the Canadian food processing, distributing and retailing sectors that have emanated from non-government sources.

Hawkins (see, for example, 'Aggregating Competitive Behaviour in the Food Industry' 1968) and Devine (see, for example, 'An Empirical Study of Metropolitan Market Conduct in Food Retailing') are two researchers with an interest in economic analysis of the food industry representing Western Canadian academic interests. Tigert (see, for example, 'Longtitudinal Analysis of a Supermarket Price War; a New Look at the Price - Quality Relationship') and Mallen (see, for example, 'Efficiency and Size in Canadian Supermarkets') are two of the very few Eastern Canadian academics researching economic aspects of this industry. Two further studies that are of some interest in the area are:

- 'Factors Contributing to the Cost of Food in British Columbia,' (1975). A preliminary study prepared for the B.C. Food Advisory Council which identifies the major cost factors contributing to the final retail price of major food items produced and/or processed in B.C.

- 'Concentration and Competition in Ontario's Fluid Milk Industry' (1965).

PART V

U.S. STUDIES RELATING TO THE PROCESSING, DISTRIBUTION AND RETAILING SECTORS OF THE FOOD INDUSTRY

V. U.S. Studies Related to the Processing Distribution and Retailing Sectors of the Food Industry

In recent years, major U.S. research on food processing, distribution and retailing has been of four forms, all Federal Government initiated. The four categories are: first, Federal Government Commissions, notably the National Commission on Food Marketing and the National Commission on Productivity; secondly, studies by the Federal Trade Commission; thirdly, a number of hearings and studies of Select Committees of the United States Senate; and, finally, ongoing studies by the Economic Research Service of the United States Department of Agriculture.

1. Government Commissions

The National Commission on Food Marketing was established by Public Law 88-354 enacted by the U.S. Congress on recommendation from President Lyndon B. Johnson to study and appraise the structure and performance of the U.S. food industry.

The duties of the Commission were as follows:

1 To study and appraise the recent changes in the various segments of the food industry;

2 To study and appraise the changes in the marketing structure of the food industry likely to materialize if present trends continue.

3 To study and appraise the kind of food industry that would assure efficiency in production, assembly, processing and distribution, provide appropriate services to consumers, and yet maintain acceptable competitive alternatives of procurement and sale in all segments of the industry from producer to consumer;

4 To study and appraise the changes in statutes on public policy, the organization of farming and of food assembly, processing and distribution, and the interrelationships between segments of the food industry which would be appropriate to achieve a desired distribution of power as well as desired levels of efficiency;

5 To study and appraise the effectiveness of the services, including the dissemination of market news and regulatory activities of the Federal Government in terms of present and probable developments in the industry; and

6 To study and appraise the effect of imported food on U.S. producers, processors and consumers.

The Commission published ten technical studies,(1) as follows:

No. 1 Organization and Competition in the Livestock and Meat Industry.

---

(1)These publications are available from the Superintendant of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

No. 2 Organization and Competition in the Poultry and Egg Industries.

No. 3 Organization and Competition in the Dairy Industry.

No. 4 Organization and Competition in the Fruit and Vegetable Industry.

No. 5 Organization and Competition in the Milling and Baking Industries.

No. 6 Studies in Organization and Competition in Grocery Manufacturing.

No. 7 Organization and Competition in Food Retailing.

No. 8 The Structure of Food Manufacturing.

No. 9 Cost Components of Farm-Retail Price Spreads for Foods.

No. 10 Special Studies in Food Marketing

-Private label products in food retailing;

-Retail food prices in low and higher income areas;

-Notes on economic regulation.

The commission did not study the hotel, restaurant and institutional food market, the fishing industry, nor such topics as advertising and transportation rates in the food industry.

The final report of the Commission, titled Food from Farmer to Consumer, was published in June 1966.

In response to a Presidential directive that it gives prompt consideration to ways in which improved productivity could be stimulated in the food sector and develop ways by which measures to increase productivity growth in the food sector could be implemented, the National Commission on Productivity formed a food industry task force, composed of management, farm, labour, government and university officials with extensive knowledge about one or a number of industry segments. The task force focussed on the following aspects for each of the major sectors of the food industry:

1 The key factors responsible for productivity growth;

2 The controllable factors which can influence productivity;

3 Specific opportunities for productivity improvements; and

4 Alternative methods of achieving such productivity improvements.

The areas holding the greatest opportunities for substantive productivity improvement were:

1 The reduction or elimination of impediments to productivity due to federal, state and local government regulations;

2 The improvement of rail transport of food to equal the best service of the past twenty years;

3 The identification and implementation of agricultural production operation changes which have the greatest potential for improving productivity;

4 The clarification of anti-trust regulations to alternate the climate of uncertainty that inhibits certain productivity improvements in the food industry; and

5 The initiation of improved industry-wide comprehensive projects in research and development and market development, perhaps with government assistance.

2. The Federal Trade Commission

The Federal Trade Commission, established under the Federal Trade Commission Act of 1924, periodically publishes reports on particular aspects of the United States food industry, usually in the area of market structure and market behaviour. Reports relevant to food processing, distribution and retailing which have been published recently include:

1 Economic Inquiry into Food Marketing: Concentration and Integration in Retailing, 1960.

2 Economic Report on the Structure and Competitive Behaviour of Food Retailing, Staff Report of the Federal Trade Commission, 1966.

3 Economic Report on the Baking Industry, 1967.

4 Economic Report on the Influence of Market Structure on the Profit Performance of Food Manufacturing Companies, 1969.

5 Economic Report on the Dairy Industry, Staff Report to the Federal Trade Commission, 1973.

6 Economic Report on Food Chain Profits, Staff Report to the Federal Trade Commission, July, 1975.

7 Economic Report on Price and Profit Trends in Four Food Manufacturing Industries, Staff Report to the Federal Trade Commission, July, 1975. (The industries covered are meat packing, fluid milk processing, bread baking and beer brewing).

In addition, the Federal Trade Commission publishes a Quarterly Financial Report for Manufacturing Corporations.

3. Senate and Congressional Hearings

In 1960, the Congressional Select Committee on Small Business established a special subcommittee to hold hearings on Small Business Problems in Food Distribution.[1] Similarly, the establishment of the National Commission on Food Marketing on July 3, 1964, was preceded by a series of senate hearings. Probably the most ambitious legislative study in the U.S. in recent years is that carried out by the Senate Select Committee on Nutrition and Human Needs, under the chairpersonship of Senator George McGovern.[2] This Committee was primarily concerned with the structure, economic organization, pricing and profitability in the beef industry and the baking and milling industry and, in particular, the reliability of available industry data. Some consideration was also given to apples, potatoes, fresh milk and butter.

4. United States Department of Agriculture Studies

In 1972, the Economic Research Service of the United States Department of Agriculture published a study 'Market Structure of the Food Industries' which described and assessed the significance of the major structural changes in the U.S. food marketing industries during the previous two decades.[3] This study covered the processing, wholesaling and retailing functions, as well as the away-from-home eating sector. The particular industries included were livestock and meat, dairy products, poultry and eggs, food grains, fruits and vegetables, fats and oils and sugar and other sweeteners. The analysis looked at the number and type of establishments, the size of plants, plant locations, the type of organization and industry concentration.

---

(1) Reported in: Hearings, Small Business Problems in Food Distribution, U.S. Congress, House Subcommittee No. 5 of the Select Committee on Small Business, 86th Congress, 1st Session 1960, Pursuant to H. Res. 51.

(2) See: Food Industry Studies, Prepared by the Staff of the Select Committee on Nutrition and Human Needs, United States Senate, January 1976; U.S. Government Printing Office, Washington.

(3) United States Department of Agriculture, Market Structure of the Food Industries, Economic Research Service, Marketing Research Report Number 971, Washington, D.C., September, 1972.

The same branch of U.S.D.A. also publishes current farm-retail price spreads, a market basket of domestic farm-originated foods for 46 major food products in Marketing and Transport Situation, a quarterly report. The major purpose of these statistics is to measure changes in farm-retail price spreads (or gross margins) received by marketing firms for assembling, processing, transporting and distributing a basic quantity of food. These quarterly data are supplemented by the periodic publication of longer-term comprehensive farm-retail price spread data.[1]

(1)See, for example: United States Department of Agriculture, Farm-Retail Price Spreads for Food Products, Economic Research Service, Miscellaneous Publication Number 741, Washington, D. C. January 1972.

PART VI

ISSUES AND CONCERNS RELATING TO THE PROCESSING, DISTRIBUTING AND RETAILING SECTOR OF THE CANADIAN FOOD SYSTEM AS IDENTIFIED BY TRADE, GOVERNMENT AND ACADEMIC PERSONNEL

VI. Issues and Concerns Relating to the Processing, Distributing and Retailing Sector of the Canadian Food System as Identified by Trade, Government and Academic Personnel

A focal point for concern, shared by personnel from the food trade, government and academia, was manifested as a general criticism of both the quality and availability of relevant statistical material on the processing, distributing and retailing sector of the Canadian food industry. Specific criticisms have been delineated in an earlier section in relation to Statistics Canada data, this source of statistical information being virtually the sole data series available. However, personnel across all groups identified the H.R.I. trade as being a real growth sector which had particularly poor statistical coverage.

1. Issues and Concerns Expressed by the Trade

Representatives of the food processing sector were most vociferous in expressing industry concerns. They were concerned about the absolute and relative low level of profitability in the food processing industry. They perceived this had arisen because: of increased competition from low-priced imported food products (particularly processed fruits and vegetables); the negative impact of the A.I.B. restraint programme; in recent years, the international economic environment (the argument was posed that, in a booming commodity market situation, it was more difficult to pass costs onto the consumer); and as a result of the increased bargaining power of the chain stores, that is, large-scale retailer merchandising policy encourages rationalization of the number of brands of product sold at the retail counter, thus, small-scale processors are squeezed out of the market. In addition, some representatives of the trade acknowledged that productivity was lower in Canada vis-a-vis the U.S. as a result of inefficiencies in the Canadian food distribution system ('the product is handled too many times'), and generally higher costs of operating a business in Canada (reflecting higher labour costs and more government regulation). The outcome of this low profit situation was that the capital stock of the food processing industry was being rundown.

Food processor representatives were concerned about the lack of trust that existed between the food processing and food retailing sectors. Inevitably, discussions with personnel from this sector would focus on the iniquities of volume discounting practices, listing allowances, new product introduction offers, co-operative advertising and promotional incentive schemes.

2. Issues and Concerns Expressed by Academia

Academics surveyed focussed on two areas of concern, both of which resulted from a lack of basic industry information: firstly, research studies on industry conduct and performance were hampered because of insufficient data on horizontal and/or vertical integration in the food industry; secondly, the dearth of information on cost structures within the food industry constrained research into economic efficiency/ inefficiency within and between industries and industrial segments.

3. Issues and Concerns Expressed by Government

The distinct lack of valid statistical and analytical material on the food industry was most keenly felt by representatives of the Department of Industry, Trade and Commerce. Their concern was that as a result of the absence of any significant informational or analytical base, they were consistently adversely placed to refute 'subjective commentary' of the 'big-business is ripping-off the consumer/agricultural producer' type.

4. Final Comment

After surveying trade, government and academic personnel across Canada who ostensibly or, at least, purportedly have an analytical interest in the food industry, the general impression that was left was that, like information sources on the food industry, personnel with a broad grasp of the major issues and concerns within the industry were very few and very far between. It is perhaps unkind to suggest that inertia is the watchword of many individuals researching on, working in, or working with the food industry, but it is a word that comes readily to mind.

PART VII

FOOD AND BEVERAGE INDUSTRY REVIEW

Since 1961 annual factory dollar sales have climbed from $5 billion to $16.2 billion in 1975. Concurrently, processing plant population declined from 7,715 to 4,950 establishments. In line with the sales growth, the cost of materials and supplies in the industry has more than trebled.

Year	Number of Establishments	Cost of Materials/Supplies	Value of Shipments
1961	7,715	$ 3,268,967,000	$ 5,027,961,000
1971	5,599	5,887,468,000	9,072,524,000
1974	5,015	10,368,000,000	14,732,000,000
1975	4,950	11,415,000,000	16,220,000,000

Basic statistics for the major sectoral components of the food and beverage industry are presented below:

1. Meat Industry

Year	Number of Establishments	Cost of Materials/Supplies	Value of Shipments
1961	344	$ 918,643,000	$1,124,785,000
1971	460	1,710,362,000	2,121,358,000
1974	487	2,919,992,000	3,578,952,000

The number of meat processing and packing establishments has increased steadily since 1961. Historically, some 82 per cent of annual dollar sales have come from the cost of materials and supplies. This trend has continued over the last 13 years. The meat industry accounted for 24.3 per cent of the total food and beverage industry value of shipments in 1974. The six major meat packing companies in Canada are Burns Foods, Canada Packers, Essex Packers, Intercontinental Packers, J. M. Schneider Ltd. and Swift Canada Co. Ltd.

2. Poultry Industry

Year	Number of Establishments	Cost of Materials/Supplies	Value of Shipments
1961	205	$ 114,688,000	$ 137,201,000
1971	104	234,910,000	299,578,000
1974	95	418,285,000	511,228,000

The trend in plant numbers has been downward in this sector to 1974 due to a move to the production of eviscerated frozen poultry and federal inspection of plants. As with the meat industry the cost of materials and supplies have ranged between 80 and 83 per cent of factory sales volume. The poultry industry made up 3.5 per cent of the total value of shipments in the food and beverage industry in 1974.

3. Fishing Industry

Year	Number of Establishments	Cost of Materials/Supplies	Value of Shipments
1961	358	$ 115,468,000	$ 182,636,000
1971	348	234,411,000	383,872,000
1974	348	353,506,000	576,427,000

The number of establishments has remained constant over recent years. Materials and supplies are 61 per cent of factory sales. The major packing companies are British Columbia Packers, The Canadian Fishing Company, Jannock Corporation and National Sea Products Ltd. The fishing industry held 3.9 per cent of shipments in 1974.

4. Dairy Industry

Year	Number of Establishments	Cost of Materials/Supplies	Value of Shipments
1961	1,710	$ 616,743,000	$ 844,980,000
1971	809	1,074,377,000	1,463,218,000
1974	577	1,590,415,000	2,083,009,000

There has been a steady decline in the number of dairy establishments since 1961. Cost of materials and supplies has climbed from 72 per cent to 76 per cent of gross factory sales over the last 13 years. The dairy industry is one of the largest sectors in the Canadian food and beverage processing field with 14.1 per cent of the total share. Becker Milk Co., Carnation Co., Gay Lea Co-op Ltd., Granby Co-op, Kraft Foods, Silverwood Industries Ltd. and Borden's Co. Ltd. are the major Canadian processors in the dairy industry.

5. Fruit and Vegetable Industry

Year	Number of Establishments	Cost of Materials/Supplies	Value of Shipments
1961	335	$ 198,275,000	$ 319,940,000
1971	262	348,649,000	567,686,000
1974	245	549,984,000	865,259,000

In this sector the number of establishments has declined steadily. The cost of materials and supplies represents 62 per cent of factory sales. Campbell Soup Co., Canadian Canners, H. J. Heinz, Libby McNeill, E. D. Smith, Stokely Van Camp, Green Giant of Canada, Nestle Canada, Hunt Wesson Foods and McCain Foods are the major fruit and vegetable processors in Canada. Fruit and vegetable processing was 5.9 per cent of the Canadian food and beverage industry value of shipments in 1974.

6. Sugar Industry

Year	Number of Establishments	Cost of Materials/Supplies	Value of Shipments
1961	11	$ 87,840,000	$ 133,453,000
1971	14	154,350,000	228,216,000
1974	15	616,728,000	650,920,000

The effect of raw sugar prices on the industry is reflected in the cost of materials and supplies which ranged from 65 per cent to 94.7 per cent of factory sales between 1961 and 1974. The British Columbia Sugar Refining Co., Canadian Sugar Factories Ltd., Redpath Industries, St. Lawrence Sugar and Westcan Sugar Ltd. are the major processors in the sugar industry. Factory sales of sugar represented 4.1 per cent of the total food and beverage industry value of shipments in 1974.

7. Vegetable Oil Industry

Year	Number of Establishments	Cost of Materials/Supplies	Value of Shipments
1961	12	$ 53,885,000	$ 62,834,000
1971	10	114,588,000	136,102,000
1974	8	226,693,000	295,628,000

The total number of oilseed processing establishments has declined by one-third since 1961. The value of shipments has climbed by 470 per cent over that period. The vegetable oil industry accounted for 2 per cent of the total food and beverage industry value of shipments in 1974. The major oilseed products industries are: Canada Packers, Kraft Foods, Monarch Fine Foods, Proctor & Gamble Co. of Canada, Standard Brands and Swift Canada.

8. Baking, Biscuit and Confectionery Industry

Year	Number of Establishments	Cost of Materials/Supplies	Value of Shipments
1961	2,842	$ 279,196	$ 592,707
1971	1,997	415,240	894,584
1974	1,821	675,752	1,339,996

The number of establishments in these sectors has declined steadily since 1961. Costs of materials and supplies have been close to 50 per cent of total factory sales over this period. These three industry sectors combined accounted for 9 per cent of the total food and beverage industry value of shipments in 1974. The major companies in this sector are George Weston, Christie Brown and Hershey Foods and also included are: Pillsbury, Maple Leaf, Robin Hood, Canada Starch, Quaker Oats, Kellogg.

9. Brewing, Distilling & Wine Industries

Year	Number of Establishments	Cost of Materials/Supplies	Value of Shipments
1961	92	$ 128,653,000	$ 441,422,000
1971	93	267,931,000	869,073,000
1974	107	437,784,000	1,175,816,000

10. Soft Drink Industry

Year	Number of Establishments	Cost of Materials/Supplies	Value of Shipments
1961	502	$ 52,871,000	$ 172,697,000
1971	385	181,752,000	392,070,000
1974	323	318,706,000	578,508,000

11. Miscellaneous Food Industry

Year	Number of Establishments	Cost of Materials/Supplies	Value of Shipments
1961	268	$ 252,874,000	$ 409,731,000
1971	283	476,378,000	852,770,000
1974	262	598,189,000	1,045,610,000

The category Miscellaneous Food in the food and beverage industry includes cereals, flour and flour preparations, food drink powders, tea, coffee and products such as macaroni, peanut butter, mustard, etc. The major companies producing foods in this sector are Kraft, General Mills, General Foods and Lever Brothers. The miscellaneous food industry would account for 8 per cent of the total food and beverage industry value of shipments based on projections from 1973.

APPENDIX I

DEFINITIONS OF THE FOOD PROCESSING AND BEVERAGE INDUSTRY CLASSIFICATIONS

S.I.C. (1970) 1011	- Slaughtering and Meat Processors - Establishments primarily engaged in abattoir operations and/or meat packing operations. Important products of this industry are fresh, chilled or frozen meats; cured meats, (smoked, pickled or dry salted) fresh or specialty sausages; canned meat preparations; animal oils and fats; tank house products such as bone meal, blood meal, feather meal and dry rendered tankage.
S.I.C. (1970) 1012	- Poultry Processors - includes the establishments primarily engaged in killing, eviscerating, packing or canning poultry.
S.I.C. (1970) 102	- Fish Products Industry - Establishments primarily engaged in canning, filleting, freezing, curing or otherwise processing fish, molluscs, or crustaceans. Establishments primarily engaged in the production of fish meal or oil or marine animal oil, or in the harvesting and drying of marine vegetable products are also included.
S.I.C. (1970) 103	- Fruit and Vegetable Processing Industries - Establishments primarily engaged in processing fruits and vegetables. Important products of this industry are: canned, frozen, or otherwise preserved fruits and vegetables, vegetable and fruit juices, soups, pickles, jams, jellies, marmalades, cider, sauces and vinegars. In 1970 for the first time this industry was split into: 1031 Fruit and Vegetable Canners and Preservers and 1032 Frozen Fruit and Vegetable Processors.
S.I.C. (1970) 104	- Dairy Products Division - Establishments primarily engaged in processing raw milk and cream. Important products of this industry are pasteurized packaged fluid milk and cream; cheese - natural, process, paste, spreads and curds; milk or cream - condensed, evaporated or powdered; creamery butter, butter oil and whey butter; ice cream, ice cream mix and ice cream novelties; frozen deserts such as sherbets and ices. Establishments that

pasteurize and package milk are included in this industry whether or not they sell the milk at retail. Establishments primarily engaged in purchasing packaged milk for resale to consumers are classified in Industry No. 631 - Food Stores. Establishments primarily engaged in buying milk for resale to processors are classified in industry No. 614 - Wholesalers of Food.

S.I.C. (1970) 105 - Flour and Breakfast Cereal Products Industry - Establishments primarily engaged in milling wheat and other cereal grains into flour and meal: in blending flour, or in processing cereal grains into uncooked or cooked preparations for human consumption. By-products of these activities include grain screening and grain offal which in some cases are further processed into crushed products for livestock feed.

S.I.C. (1970) 106 - Feed Industry - Establishments primarily engaged in producing balanced feeds and premixes or feed concentrates for poultry, hogs, cattle, fur bearing animals, dogs and cats. The feeds contain ground or rolled grains, mill feeds, animal and vegetable proteins, minerals, essential vitamins and antibiotics. Local mixing and custom grinding of grains are included in this industry.

S.I.C. (1970) 1071 - Biscuit Manufacturers - Establishments which manufacture, as their principal products, biscuits, crackers, pretzels and similar 'dry' bakery products including ice cream cones.

S.I.C. (1970) 1072 - Bakeries - Establishments primarily engaged in manufacturing bread, cakes, pastries and similar 'perishable' bakery products. Hotels, restaurants and public institutions which bake for their own requirements are classified in the 1970 Standard Industrial Classification as service establishments and as such are not included in this publication. Chain and department stores operating their own bakeries and merchandising the products thereof within their respective establishments are not included.

Some types of establishments primarily engaged in making a single product, such as doughnuts from a purchased mix, and selling for consumption on or off the same premises are deemed to be a restaurant and are not included.

When the chain and department stores maintain separate accounts for their baking operations, the manufacturing is included.

S.I.C. (1970) 1081	- Confectionery Manufacturers - Establishments primarily engaged in manufacturing candies, chocolates, and cocoa products, chewing gum and other confectionery such as salted nuts and popcorn.
S.I.C. (1970) 1082	- Cane and Beet Sugar Processors - Establishments primarily engaged in manufacturing cane sugar, beet sugar, invert sugar, sucrose syrup, molasses and beet pulp.
S.I.C. (1970) 1083	- Vegetable Oil Mills - Establishments primarily engaged in the manufacturing of vegetable oils and their by-products, such as linseed oil, soybean, and rapeseed oilcake and oilseed meal.
S.I.C. (1970) 1089	- Miscellaneous Food Processors - is comprised of establishments which are primarily engaged in the manufacturing of baking powder, flavouring extracts and spaghetti, starch, and its products, jelly powders, yeast, prepared coconut, powdered eggs, frozen eggs, peanut butter, potato chips, roasting coffee, blending tea, grinding and packing spices, also other food specialties not elsewhere specified.
S.I.C. (1970) 1091	- Soft Drink Manufacturers - Establishments primarily engaged in manufacturing non-alcholic beverages and carbonated mineral waters or concentrates and syrups for the manufacture of carbonated beverages.

S.I.C. (1970) 1092	- Distilleries - Establishments primarily engaged in the manufacture of potable spirits such as whisky, brandy, rum and gin; also the establishments engaged in manufacturing ethyl alcohol whether or not the alcohol is ultimately used to make potable spirits. Establishments engaged in manufacturing alcohols such as methyl, butyl, or isopropyl are classified to industry No. 378 - Manufacturers of Industrial Chemicals.
S.I.C. (1970) 1093	- Breweries - Establishments primarily engaged in the manufacture of beer including ale, porter, stout and other malt liquors are classified to this industry.
S.I.C. (1970) 1094	- Wineries - Establishments primarily engaged in producing wines and cider with alcoholic content.

NATIONAL FOOD AND BEVERAGE ASSOCIATIONS

Association of Canadian Biscuit Manufacturers

Association of Canadian Distillers

Atlantic Queen Crab Association

Bakery Council of Canada

Brewers Association of Canada

Canadian Dairy and Food Industry Suppliers Association

Canadian Food Brokers Association

Canadian Food Processors Association

Canadian Frozen Food Industries Association

Canadian Grocery Distributors' Institute

Canadian Honey Council

Canadian Institute of Food Science and Technology

Canadian National Millers Association

Canadian Pasta Manufacturers Association

Canadian Poultry and Egg Processors Council

Canadian Soft Drink Association

Canadian Spice Association

Canadian Sugar Institute

Canadian Vegetable Protein Association

Canadian Wine Institute

Confectionery Manufacturers Association of Canada

Fisheries Council of Canada

Flavour Manufacturers Association of Canada

Grocery Products Manufacturers of Canada

Institute of Edible Oil Foods

Master Brewers' Association of Western Canada

Meat Packers Council of Canada

North Atlantic Seafood Association

Pet Food Manufacturers Association of Canada

Tea and Coffee Association of Canada

Tea Council of Canada

The National Dairy Council of Canada

NOTE: This list excludes associations whose major activity is not related to the food processing and beverage industry.

ANNOTATED BIBLIOGRAPHY OF STATISTICAL INFORMATION AND RESEARCH MATERIAL ON THE FOOD PROCESSING, DISTRIBUTING AND RETAILING SECTOR

Food - Consumption

Canadian Consumer, Consumer Association of Canada, Ottawa, bi-monthly, 1963- (see also Food - Retailing)

...regular articles on various aspects of food processing and marketing related primarily to consumers' nutrition and budgeting

Canadian Daily Newspaper Publishers Association, 1967 Canadian Consumer Survey, 1967

...Grocery buying habits, location, frequency, type of products

Department of Agriculture, Economics Branch, Handbook of Food Expenditures, Prices and Consumption, 1975

...food prices, statistics, cost and standard living.

Fitzhenry, E., Consumerism in the 1970's, Canadian Journal of Agricultural Economics, November, 1970

Food Prices Review Board, 1974 Family Food Expenditure, Reference Paper: February 1976

Food Prices Review Board, What Price Nutrition?, February 1975

Holmes, R., The Estimation of Demand Elasticities for Substitute Food Products, Agricultural Economics Research Council, 1966

...prices, mathematical models.

Hassan, Z. and Champagne, D., Handbook of Food Expenditure, Prices and Consumption, Ottawa, Agriculture Canada, 1975

Hassan, Z., Consumer Demand for Major Foods in Canada, Department of Agriculture, 1976

Hassan, Z., Johnson, S., Finley, R., An Intertemporal Comparison of Price and Income Elasticities for Food, Canadian Journal of Agricultural Economics, November, 1975

Hassan, Z.A. and Lu, W.F., Food Consumption Patterns in Canada, Ottawa, Agriculture Canada, 1974

...on demand for meats, poultry, fish oils, eggs, bakery, cereals, frozen foods, fruits and vegetables.

Karamchandani, D., Changes in Food Expenditure Patterns, 1969-1974, Canadian Farm Economics, October, 1976

Karamchandani, D., Trends in Food Consumption, Prices and Expenditures, 1961-1973, Canadian Farm Economics, February, 1976

Kepner, K., Logan, G., Anderson, A., The Validity of Experimental Methods for Analysing Consumer Behaviour, Canadian Journal of Agricultural Economics, December, 1967

Maclean Hunter Research Division, Chatelaine Food Survey (1972) from the Chatelaine Consumer Council of 1,500 French and English Chatelaine subscribers. Included is a product breakdown of baking, cheese, spreads, desserts and items used for entertaining, frozen foods, fruit and fruit juices, fish and seafood, food wrapping, take-out foods, miscellaneous products. (See also Food - Retailing)

McIntosh, C., Canadian Food Expenditures in 1980, Canadian Journal of Agricultural Economics, November, 1974

Nova Scotia Department of Public Health, Cost of Feeding Families in Nova Scotia, 1974

Olley, R., The Consumer Price Index; Some Thoughts on Advertising Consumer Protection for Homemakers, University of Saskatchewan, 1966

Purcell, J., Raunekar, R., Quantity-Income Elasticities for Foods by Level of Income, Canadian Journal of Agricultural Economics, December, 1967

Shute, D., The Nutritive Value of Food Consumption in Canada, Canadian Farm Economics, December, 1973

Shute, D., Yankowsky, Z., Trends in Per Capita Food Consumption in Canada, Canadian Farm Economics, April, 1973

Spencer, B.G., A Preliminary Paper on Family Food Expenditure in Canada - An Analysis of the 1974 Survey, FPRB, 1976

Statistics Canada, Family Food Expenditure in Canada, 1969, Volume 1, 62-531

...detailed information on family food purchases recorded by a sample of 10,022 Canadian families and individuals in 1969

Statistics Canada, Family Expenditure in Canada, Volume I All Canada: Urban and Rural, 1969, 62-535

Statistics Canada, Family Expenditure in Canada, Volume II Regional, 1969

Statistics Canada, Family Food Expenditure in Canada, 1969, Volume 2, 62-532

...summary tables of family food expenditure showing expenditure per family by main food categories for Canada and five regions, ten provinces and selected urban centres, with cross-classification by family income, family type, etc.

Statistics Canada, Apparent Per Capita Domestic Disappearance of Food in Canada, 32-226, annual

Williams, F.L., A Ready Reckoning of Protein Costs, Journal of Home Economics, March 1975

Winter, G., Consumer Risk in Weights of Food Purchases, Canadian Journal of Agricultural Economics, October, 1968

Food - Distribution

Abbott, J.C., Agricultural Marketing Boards: Their Establishment and Operation, 1966

Agriculture Canada, Canada's Trade in Agricultural Products, annual, 1972-1973

Agriculture Canada, List of Producer Marketing Boards in Canada, 1969

Alberta Department of Agriculture, Food for Export, 1973

Canadian Food Broker, Don Mills, Ontario, Food Brokers Association of Canada, 1966-

Canadian Transport Commission, Commodity Flow Analysis: 1968-1972 Canadian Carload All-Rail Traffic, 1974

Lane, D.H., Ontario Ministry of Agriculture, Multiple Pricing as a Market Strategy, April 1973

Maclean Hunter Research Division, Food and Beverage Processing Industry in Canada (September 1973) a report covering all facets of Canada's Food Industry including Production, Imports and Exports. A Major Section of the Report contains Estimates of Future Production of Specific Items. (See also Food - General, Processing)

Maclean Hunter Research Division, 1976 Survey of Food Brokers and Their Markets (February 1976), contains directory of food brokers and broker-sold brands; 1975 food store sales by provinces, broken down by chains and independents. Also contains national, provincial and city market statistics. February issue of Canadian Grocer.

Maclean Hunter Research Division, 1971-1972 Directory of Volume Food Service Operations and Distributors in Canada, the Canadian Food Service Market: an overview, lists restaurants, hotels, food service management firms, institutions, hospitals school and distributors, wholesale grocers and meat purveyors.

Ontario Food Council, R.E. Ellis Basic Report, The Food Service Industry, 1973

Royal Commission Inquiry into Northern Transportation Report, 1969

Royal Commission on Transportation, Report, 1961, 1966

Short, R., The Wholesale Function of Winnipeg, M.A. Thesis, Manitoba, 1967

Statistics Canada, Destination of Shipments of Manufacturers, 31-504, occasional, last publ. 1967

...dollar value and destination of total shipments of goods by industry group, and by province

Statistics Canada, Direct Selling in Canada, 63-218, annual (See also Food - Retailing)

...sales of various commodities by method of distribution - door to door, mail order, etc. (includes bakery, dairy, frozen foods)

Statistics Canada, Products Shipped by Canadian Manufacturers, 31-211, annual

...value and quantity of total shipments of products by industrial classification and province

Statistics Canada, Vending Machine Operators, 63-213, annual (See also Food - Retailing)

...sales through vending machines by type of merchandise, by type of machine, by location, by province

Statistics Canada, Voluntary Group Stores (Grocery and Combination Trade), 63-215, annual, last publ. 1975 (See also Food - Retailing)

...sales, number of stores, information on purchasing behaviour, etc.

Statistics Canada, Wholesale Trade, 63-008, monthly

Williams, G., An Analysis of Locational Factors of Wholesaling Functions in Windsor, Ontario with Emphasis on Grocery Wholesalers, M.A. Thesis, Windsor, 1974

Distribution

Atlantic Provinces Economic Council, Aspects of Transportation in Atlantic Canada, Halifax, 1975

...transportation problems, food prices in Newfoundland.

Canadian Grocer, "Food Brokers - A Market Survey", February Issue, Annual

Directory of Volume Foodservice Operations and Distributors in Canada, Prepared by TRA Information Services, 1971-1972, annually

...a food service directory, concerns grocery trade.

Gifford, M., Trade Patterns as They Affect Food Production and Distribution, Agrologist, Volume 3, No. 3, May-June, 1974, pp. 40-43

Grocery Products Manufacturers of Canada, New Dimensions for the Grocery Industry; Condensations of the Major Addresses Given at the GPMC Annual Meeting, March, 1973

...contains material on marketing opportunities.

Grocery Products Manufacturers of Canada, Summaries of Panel Discussions and Addresses to the GPMC's Annual Meeting, 1973*

*New Dimensions for the Grocery Industry; Condensations of the Major Addresses Given at the GPMC Annual Meeting, March, 1973

Industry, Trade and Commerce, Trade News, Food and Agriculture, May, 1974, Monthly

Maclean-Hunter, Special Report, Food and Grocery Marketing, 1972

Rayner, L., The Distribution of Perishable Foods in Metropolitan Toronto Canadian Farm Economics, October, 1966

Ulrich, M., Price Differentials Between Selected Channels of Marketing, Canadian Journal of Agricultural Economics, Volume 12, 1964, No. 2

Virthe, G., Marketing et Distribution Alimentaire, Montreal Pub. Les Affaires, 1972

Warrock, A., A Conceptual Framework for Analysis of Marketing Efficiency, Canadian Journal of Agricultural Economics, November 1972

Food - General

Agricultural Economics Research Council, The Important Place of the Agricultural and Food System in the Canadian Economy, Ottawa, 197?

Agriculture and Food Potentials in Newfoundland, 1971

Agriculture Canada, Canadian and U.S. Tariffs on Selected Agricultural Products

Agriculture Canada, Marketing Board Statistics, Latest Edition, 1974-1975, annually

Agricultural Economic Research Council, Potentials of the Organic Food Market and Implications to Gaspe Farmers, Ottawa, 1972

Anderson, M.S., Price and Revenue Stability for Primary Products: Some Institutional Options,(presented to Canadian Pork Council Workshop)

Appleton, P.L., The Canadian Agriculture and Food System, 1973

Arcus, P.L. and Kunin, R., The Cost of Food, Vancouver, Department of Agricultural Economics, UBC, 1973

Becket, (W.A.) Associates Limited, Food Price Facts, 1967-1973, (prepared for Grocery Products Manufacturers of Canada, Toronto, 1973)

Block, H., Prices, Cost and Profits in Canadian Manufacturing: The Influence of Tariffs and Concentration, Canadian Journal of Economics, Volume 7, November 1974, pp. 594-610

Brandow, G., The Food Industry and the Public Interest, University of Guelph, 1968

British Columbia Food Council, Annual Reports

Burns Foods Limited, Report (Annual 1928) Calgary

Canada Commerce, Department of Industry, Trade and Commerce, Ottawa, monthly

...contains periodic reports on the domestic food processing and distribution industries including surveys of potential foreign markets for Canadian foodstuffs

Canadian Business Periodicals Index, Information Access, Toronto 1975-

...a comprehensive index to all major Canadian business periodicals with numerous references to articles published on the domestic food industry. These are found under any one of several subject headings including: fish, fish processing, fisheries, food, food brokers, food industry, food packaging, beef and beef industry, canned fruit, nutrition, frozen food, vegetables, dairy industry, etc. Within each of these major categories articles are classified under various sub-headings such as advertising, marketing, law and regulations, statistics and so on.

Canadian Farm Economics, c.f. Annual Outlook Reports,

Canadian Farm Economics, Trends in the Procurement and Merchandising of Food Products and their Implications for Producers and Consumers, February, 1968

Canadian Food Industries, National Business Publications, monthly to 1971, then superceded by Food in Canada

...'in-house' journal of the Canadian food industry dealing with a wide spectrum of management concerns including technological changes, international developments, markets, business acquistions and sales, industry and company profiles, appointments, forecasts, etc., Possibly the single most informative journal dealing directly with the Canadian food industry.

Canadian Grocer, published by Maclean-Hunter, monthly, for supermarket management/news/trends/ideas, articles on processing distribution and retailing in the Canadian food sector

Canadian Home Economics Journal, Canadian Home Economics Association, Ottawa, published quarterly 1950-

...articles relating to broad spectrum of food and non-food topics of interest to home economists. Useful section containing abstracts of books and other private and public publications dealing with food processing, distribution, retailing and consumption including information on how this material can be obtained. Reports on developments in food technology and marketing of interest to consumers, including governmental appointments, legislative changes, conferences, courses, etc.

Canadian Institute of Food Science and Technology Journal, published quarterly from Ottawa, 1968

...articles largely on food processing but contains book and literature reviews of the Canadian food industry in general, news of conferences, meetings, government enquiries, etc. including abstracts of speeches and papers delivered in Canada and abroad related to all aspects of the food service industry

Canadian Packaging, Maclean Hunter Limited, monthly

Cann, K., Rayner, L., Marketing Costs of Food in Canada, 1959-1964, Canadian Farm Economics, October, 1966

Child, A.J.E., Some Thoughts on the Canadian Food Industry, 1970

Consumer Research Council, A Report on Consumer Interest in Marketing Products, No. 1, September 1974 (The Forbes Report)

...impact of marketing board power on the consumer interest. Working papers on hogs, dairy, tobacco, poultry, wheat, and fruits and vegetables

Department of Agriculture, Economics Branch, Food Outlook, 1961, Monthly

Department of Consumer and Corporate Affairs, Concentration in the Manufacturing Industries of Canada, 1971

...concentration measures, provincial split of concentration in segments of the food industry

Department of Health and Welfare, Food and Drug Directorate, The Consumer Speaks up...about Food...Protection...Packaging...Labelling ...Additives, Ottawa, 1972

Department of Industry, Trade and Commerce (Capital Expenditures Division), Preliminary Survey of Capital Investment Intentions and Outlays for 1973: Selected Analytical Tables by Industry: Food and Beverages, 1975

Dun and Bradstreet of Canada Limited, Annual, Commercial firm providing credit rating information on Canadian companies. For example: company sales, profitability, company starting date, number of employees, plant locations. Limited use for large corporations as information is on an aggregated basis and not split by commodity line. Can provide company information to S.I.C. specifications

Economic Council of Canada, Interim Report on Competition Policy, Queen's Printer, Ottawa, 1969

...concentration in the food processing industry

Economic Planning, Journal for Agriculture and Related Industries, Montreal, Academic Publication, Bimonthly

First/Second Report, The House of Commons Special Committee on Trends in Food Prices, second report published July 1973

Food Advisory Services, Agriculture Canada, The Food Basket, 1971, Bimonthly

...generally consumer oriented, with recipes, etc. but does have articles on various commodities.

Food Brokers Association of Canada, The Canadian Food Broker, 1966

...food industry, supermarket methods.

Food Prices Review Board, Advertising Expenditures and Food Prices, February 1976

Food Prices Review Board, Final Report "Telling It Like It Is", February 1976

Food Prices Review Board, Food Company Profits and Food Prices, July 1974

Food Prices Review Board, Food Company Profits and Food Prices II, October 1975

Food Prices Review Board, Food Industry Dispute, British Columbia, October 1975

Food Prices Review Board, Food Policy Aspects of Nutrition and Health, Reference Paper: February 1976

Food Prices Review Board, Food Price Trends in Canada and the United States, September 1974

Food Prices Review Board, Information

...periodic reports on activities FPRB from Aug. 1973

Food Prices Review Board, Quarterly Reports, 1973-75

...commodity analysis, economic indicators and the food industry.

Food Prices Review Board, Report on Food Prices in Newfoundland, November 1974

Food Prices Review Board, World Food Situation, Reference Paper: February 1976

Gilson, C., A National Food and Farm Price Policy, University of Manitoba, Winnipeg, 1967

...farm production plus effect on food costs.

Grocery Products Manufacturers of Canada, Food Price Facts, 1971-1975, August 1976, Statistics Canada data

Grocery Products Manufacturers of Canada, The Canadian Food and Beverage Industry, December 1976

...statistical review largely based on Statistics Canada data

Herald, H., Foreign Ownership in the Canadian Food Industry, Agrologist, Volume 2, No. 6, November - December, 1972, pp. 14-16

Hill, C., Canadian Co-operatives: Their Growth and Finance, Canadian Farm Economics, August, 1976

Hawkins, M., Aggregating Competitive Behaviour in the Food Industry, Canadian Journal of Agricultural Economics, June, 1968

Increased Capital Spending Predicted for Food Industry, Canadian Grocer, Volume 82, p. 34, October, 1968

Industrial Canada, Canadian Manufacturers' Association, Toronto (9 times a year)

...aimed primarily at industry management this journal contains short articles on individual firms, news of new technology, reports on legislative changes, new appointments, etc. which occasionally relate directly to the food processing and distribution sectors.

The Institutional Structure of the Canadian Agriculture and Food System, 1974, (English), 1970 (French)

Jarvis, W., Marketing, Nutrition, Pollution: Primary Problems of the Food Industry, AIC Review, Volume 26, No. 4, July-August, 1971, pp. 27-29

Keys, J. Robertson, D., Weston's: A Canadian Corporate Empire, Montreal Gazette, August 30, 1975 pp. 6-7 and September 2, 1975, p. 9. See also Business Week, Bringing Order to a Billion-Dollar Empire, September 8, 1975, pp. 50-56

David King, Geno, B., Geno, L., Study on Population, Technology and Resources - Perceptions 3, Food Production in the Canadian Environment, Science Council, December, 1976

Kohls, R.L., Major issues in Food Marketing in the Years Ahead, University of Guelph, 1966

Kroeker, W., Canadian Food Industry Needs Fairer Share of our Own Market, Agrologist, Volume 1, No. 5, September-October, 1972, pp. 23-24

Langman, A., Farm Food Marketing Costs, Canadian Farm Economics, October, 1975

Loyns, R.M.A., The Case for a Canadian Food Policy, Paper given at O.A.C. Agriculture Conference, University of Guelph, January 1977

Loyns, R.M.A., Economic Considerations in Pricing and Quotas Under Regulated Marketing, University of Manitoba, Winnipeg, 1972

Lutsky, I., Food Industry Seeks Better Consumer Links, Globe and Mail, December 13, 1973

Maclean Hunter Research Division, Annual Summary of National Advertising Expenditures Print and Broadcast Media (Elliott Research Corporation Limited, Toronto), 1975, this report included the National Advertising Expenditures of all companies and their product advertising in most media

Maclean-Hunter, Food in Canada 1972-1976, Toronto, Monthly

...covers all aspects of food industry.

Maclean Hunter Research Division, Food and Beverage Processing Industry in Canada (September 1973), a report covering all facets of Canada's food industry including production, imports and exports. A major section of the report contains estimates of future production of specific items. (See also Food - Processing, Distribution)

Major Productivity Crises Facing Food Industry, Canadian Grocer, January, 1972, p.30

McCain Foods Limited, The McCain Story, New Brunswick, 1969

McFetridge, D.G., Market Structure and Price - Cost Margins; An Analysis of the Canadian Manufacturing Sector, Canadian Journal of Economics, University of Guelph (1973), pp. 344-355

Mitchell, D., The Politics of Food, Toronto, J. Lorimer & Company, 1975

Moore, P., Farm-Food Marketing Costs, Canadian Farm Economics, August, 1973

Net Up 35% As Sales, Margins Post Gains, Canadian Grocer, October, 1974, p. 11

National Economic Conference, Food and Beverage Committee, Outlook 1973

Ontario Food Council, Food Facts, 1964-70, Bimonthly

Ontario, Ministry of Consumer and Corporate Relations, 'Statement of the Hon. John T. Clement, Minister of CCR to the Ontario Legislature regarding Tabling of a Study on Food Company Profitability', April, 1974

...on food prices, the food industry, a study of 16 Canadian companies.

Ontario, Ministry of Consumer and Corporate Relations, A Study of Profitability for 16 Canadian Food Companies, Toronto, 1974

Pellicer, H., Canada's Agriculture and Food System, Department of Agriculture and Economics, MacDonald College, 1976

Prairie Provinces Cost Study Commission, Report of the Royal Commission on Consumer Problems and Inflation, Queen's Printer, Ottawa, 1968

Pringle, M.E., Component Cost Factors Related to Food Production, Report to the Honourable Eugene Whelan, Minister of Agriculture, Undated

Reader's Digest, Research Department, Food Markets In Canada, brand usage data, regional patterns, demographic characteristics, media coverage, Toronto, 1967

Report of the Federal Task Force on Agriculture, Canadian Agriculture in the Seventies, December 1969, Information Canada, Ottawa

...section on processing for most food commodities

Rizvi, S., Dimensions and Performance of Some Important Sectors of the Canadian Agribusiness System, Ottawa, Unpublished Paper, 1971

Robertson, W., Seller's Market for Foods and Related Products, Canada Commerce, Volume 138, No. 8, August 1974, p. 17-18

Quantz, L. Hawkins, M., Future Trading; A Review, Canadian Journal of Agricultural Economics, July, 1974

Quebec, Bureau de la Statistique, Repertoire des Etablissements Manufacturiers, 1970

Saskatchewan Department of Consumers' Affairs, Rising Food Prices and the Food Industry, 1973

Smith, R., Factors Contributing to the Cost of Food in British Columbia, A Study Prepared for the British Columbia Food Advisory Council, Vancouver, 1975

...preliminary study to determine the individual major cost factors contributing to the final retail price of the major food items produced or processed in British Columbia.

Statistics Canada, Apparent Per Capita Domestic Disappearance of Food in Canada, 32-226, annual

...supply, disposition, nutritional values, food prices indices

Statistics Canada, Consumption of Containers and Other Packaging Supplies by the Manufacturing Industries, 31-212

...breakdown by industry group

Statistics Canada, Corporation Financial Statistics, 61-207, annual

...financial data by 182 industries

Statistics Canada, General Review of the Manufacturing Industries of Canada, Volume I: Industries by Province, 31-203, annual

...principal statistics for Canada and by province for industries and industry groups. 31-204 to 31-208 gives provincial and regional data similar to above

Statistics Canada, General Review of the Manufacturing Industries of Canada, Volume II: Supplementary Data and Analyses, 31-201, annual

Statistics Canada, Growth Patterns in Manufacturing Employment by Counties and Census Divisions, 1961-1970, occasional

...changes in employment by industry

Statistics Canada, Indices of Real Domestic Product by Industry, 61-005

...trends in growth of domestic product by industry group

Statistics Canada, Industrial Corporations Financial Statistics, 61-003, quarterly

...financial data by industry

Statistics Canada, Industrial Organization and Concentration in the Manufacturing, Mining and Logging Industries, 1968, 31-514, occasional

...measures of industrial concentration for individual industries for 1968 and 1965 (including shares of industry shipments accounted for by establishments belonging to largest 4, 8, 12, 20 and 50 enterprises and Herfindahl indexes).

Statistics Canada, Industrial Research and Development Expenditures in Canada, 13-203, annual

...expenditures and manpower devoted to scientific research and development - food and beverage industry

Statistics Canada, Inventories, Shipments and Orders in Manufacturing Industries, 31-001, monthly

...values of shipments, month-end inventories in all manufacturing industries and in selected individual industries

Statistics Canada, Manufacturing Industries of Canada: Type of Organization and Size of Establishment, 31-210

...all industry data for Canada and provinces by individual industry

Statistics Canada, New Manufacturing Establishments in Canada, 31-002, semi-annual

...names, addresses and principal products of new manufacturing plants. Temporarily discontinued; last issue, December 1973

Statistics Canada, Products Shipped by Canadian Manufacturers, 31-211, annual

...quantities and values of manufactured products by industry group

Statistics Canada, Restaurant Statistics, 63-011, monthly

...monthly estimates of the receipts of chain and independent restaurants, Canada and provinces

Stewart, W., Hard to Swallow. Why Food Prices Keep Rising and What Can Be Done About It, Toronto, MacMillan, 1974

Stykolt, S. and Eastman, H.C., The Tariff and Competition in Canada, MacMillan of Canada, 1967

Tarsen, H.K., Nova Scotia Voluntary Planning Board, Demand and Production Analysis of Agricultural Products in Nova Scotia, 1974

Tigert, D.J., Longitudinal Analysis of a Supermarket Price War; a New Look at the Price-Quality Relationship, Toronto, 1971

University of Saskatchewan, Regina Campus, The Corporate Food Industry in Canada; Some Data on Ownership and Directorate Interlocks, Occasional Paper No. 1., Sample Survey and Data Bank Unit, 1974

Warrack, A., A Conceptual Framework for Analysis of Market Efficiency, Canadian Journal of Economics, Volume 20, No. 3, 1972

Werts, (F. Rex) Limited, The British Columbia Food Industry, A study authorized for the British Columbia Food Council, Vancouver, B.C., 1973

Winter, G.R., Conduct in Canadian Food Marketing, Ottawa, AERC, 1969

Winter, G., Food Marketing - Why the Dearth of Controversy?, Canadian Journal of Agricultural Economics, Volume XV, 1967, No. 1

Wood, A.W., Technological Changes in Processing, Marketing and Distribution and Their Impact on Canadian Agriculture, C.J.A.E. X (1): 54-63

Food - Processing

British Columbia Food Council, The British Columbia Food Industry, 1973

Canadian Food Processors Association, Recommendations on Processed Food Regarding the G.A.T.T. Regulations, (Tokyo Round), 1976

Ford, H., A Study of Uniform Pricing and Its Possible Effects on the Canadian Grocery Products Manufacturing Industry, M.B.A. Thesis, Alberta 1973

Food Prices Review Board, Direct Labour Costs in the Food Processing Industries in Canada, March 1975

Grocery Products Manufacturers, Grocery Products Industry in Canada at the Manufacturing and Processing Level, in Grocery Products Industry, 1970

Grocery Products Manufacturers of Canada, Grocery Products Industry - Profile 1973, December 1973

...features capital and repair expenditure

Hazledine, T., The Demand for Labour in Canadian Food Processing Industries, Agriculture Canada Working Paper, November 1976

...sophisticated econometric analysis

Hazledine, T., Short-term Production Functions and Economic Measures of Capacity for U.K. and Canadian Manufacturing Industries, Agriculture Canada Working Paper, October 1976, Food processing industry results by S.I.C. category

Jones, J., Laudadio, L., Percy, M., Market Structure and Profitability in the Canadian Manufacturing Industry: Some Cross-Sectional Results, Canadian Journal of Agricultural Economics, Volume III No. 3, August 1973

...concentration related study.

Maclean Hunter Research Division, Food and Beverage Processing Industry in Canada (September 1973), a report covering all facets of Canada's food industry including production, imports and exports. A major section of the report contains estimates of future production of specific items. (See also Food - General, Distribution)

Maclean Hunter Research Division, Food Industry Forecast (July 1976), reports forecasts for 1980 and 1985 for many of the industries comprising Canada's food and beverage processing industry. Production and per capita consumption of specific food products. July issue of Food in Canada (1976).

The Pointer, annual periodical on food processing, published by New Products Intelligence, 1973-

The Province of Prince Edward Island, P.E.I. Food Processors, 1974

Uhm, I.H., Agriculture Canada, A Survey of the Literature on Food Processing Industries in Canada, January 1975

...scanty (even superficial) bibliography

West, E.C., Canada-U.S. Price and Productivity Differences in Manufacturing Industries, 1963, Economic Council of Canada, Staff Study No. 32, 1971

Statistics Canada, Aggregate Productivity measures, 14-201, annual

...indices of output per person, output per man-hour, indices of unit labour cost for commercial industries, industry groupings, agriculture and manufacturing
...also comparison to U.S. data where possible

Statistics Canada, Air Conditioning and Refrigeration Equipment, 43-006, quarterly last publ. 4th quarter 73

...quantity and value of refrigeration equipment.

Statistics Canada, Commercial Refrigeration and Air Conditioning Equipment Manufacturers, 42-215, annual, last publ. 1960

...refrigeration display cases

Statistics Canada, Consumption of Containers and Other Packaging Supplies by the Manufacturing Industries, 31-212, annual

...detailed break down of consumption data

Statistics Canada, Folding Carton and Set-up Box Manufacturers, 36-214, annual

...egg cartons, display advertisements

Statistics Canada, Metal Stamping, Pressing and Coating Industry, 41-227 annual

...cans, and canning industry, bottle caps

Statistics Canada, Miscellaneous Machinery and Equipment Manufacturers, 42-214, annual

...non-farm dairy equipment, flour mill machinery, industrial bakers' ovens, canning machinery, milk plant machinery

Statistics Canada, Miscellaneous Paper Converters, 36-206, annual

...egg cartons, aluminum foil packages

Statistics Canada, Paper and Plastic Bag Manufacturers, 36-207, annual

Statistics Canada, Productivity Trends in Industry: Sugar Refineries (Indices of Output per Person Employed and per Man-Hour), 14-506, occasional

...output per person, output per man-hour, indices of unit labour cost for commercial industries, industry groupings agriculture and manufacturing, trends and fluctuations in productivity and labour costs measures, comparison of productivity with U.S. industry, general description of industry, growth rates of gross and net capital stock

Statistics Canada, Wooden Box Factories, 35-209, annual

...apple, fish, butter, egg crates and boxes

Processing

Acres Consulting Services Limited, The Alberta Food Processing Industry Study, Summary Report, 1972

Agricultural Canada Food Research Institute, International Symposium on the Impact of Food Processing on Nutrition, Montebello, P.Q., 1969

Auer, L., Affluence Shifts Economic Role of Agriculture, Food Processing and Marketing, AIC Review, May-June, 1971, pp.8-12

The Canada Food and Food Packaging Directory, Montreal, Wallace Publication

Canadian Grocer, Food Firm Profits Up 38.6% in Latest Fiscal Year, July, 1972, p.1

Canadian Grocer, Processors Facing Labour Shortage, January, 1973, p.23

Canadian Hotel and Restaurant Association, Frozen Foods/Canada, Maclean - Hunter, Annual

Canadian Packaging, Maclean-Hunter, 1971, Monthly

Deman, J., Melnychyn, P., Symposium on Phosphates in Food Processing, University of Guelph, 1970

Department of Agriculture, Research Station, Alberta, Food Processing Report, 1967

Department of National Health and Welfare, Food and Drug Directorate, "The Consumer Speaks up...about Food...Protection...Packaging... Labelling...Additives," Ottawa, Queen's Printer, 1972

Financial Post, Food Processor's Biggest Problems are Labels, Labour, in Volume 68, December 14, 1974, p.3

Financial Times, Food Firms Absolved in Profiteering Last Year, July 8, 1974, p. 12

Financial Times, Food Makers Try a New Code, May 21, 1973, p. 16

Fleet, G., How Does Your Company Efficiency Compare? Manufacturing Productivity...Below U.S. Levels, in Financial Post, Volume 62, April 27, 1968, p. 15

Food Symposium, Calgary, Proceedings, 1966

...on processing, packaging, promotion of foods.

Goldenburg, S., Fancy Foods for Fatties Expansion in the Works, in Financial Post, May 18, 1974, p. E7

Gribowski, Y., The Food Processing Industry, Toronto, Ministry of Industry, Tourism, 1975

Grocery Products Manufacturers of Canada, Grocery Products Industry, 1973

Grocery Products Manufacturers of Canada, Canadian Grocery Products, Code Guidelines, Ottawa, 1974

...includes food packaging

Grocery Products Manufactures of Canada, Canada Grocery Products Code, Symbol Specification, Ottawa, 1974

...includes food packaging

Grocery Products Manufacturers of Canada, Summaries of Panel Discussions and Addresses to G.P.M.C.'s Annual Meeting, 1970

Head, D., An Assessment of Ontario's Frozen Food System, Ontario, Ministry of Agriculture and Food, Toronto, 1972

How Manufacturers are Doing, Canadian Grocer, Regular Feature

Kitson, J., Application of Government Research and Development by Canadian Food Processors, B.C., 1971

Kitson, J., E.V.O.P. for Processors...Process Evolution not Revolution, B.C., 1966

Lloyd's Canadian Food and Packaging Directory, Lloyds Publication, 1962

Maclean-Hunter, Food in Canada, c.f. particularly June issues 1972-1976, September issues 1974-1975, and November Issue 1976

Matthews, C., The Food Processing Industry in Canada: A Selected Bibliography, with particular Emphasis on Ontario Food Processing, Toronto, Ministry of Labour, 1975

Mitchell, D., The Politics of Food, Toronto, J. Lorimer, 1975

...on bread, dairy, egg production, supply management

Ontario Food Processor's Association, Ontario Food Processing Industry Directory, Toronto, 1974, annually

Robinson, P., Report on Processing, Canadian Grocer, Volume 85, No. 2, February 1971, p. 27

Rusk, J., Food Industry Reaction Mixed, Globe and Mail, February 21, 1973; Food Processors Propose to Involve MP.s in Decisions About Packaging, Globe and Mail, May 17, 1973; Libby Chief Sees Growth Potential in Satisfying Prepared Meal Taste, Globe and Mail, March 15, 1974

Smith, D.A., Direct Labour Costs in the Food Processing Industries in Canada, FPRB, 1975

Snack Food Manufacturers in Accord - Industry Heading for its Biggest Year, Canadian Grocer, Volume 82, April, 1968, p. 12

Tape, N.W., Food Processing - A Nutritional Problem?, Ottawa, 1969

Timbers, G., Food Engineering in the Canadian Department of Agriculture; A Review, Ottawa, 1972

Food - Retailing

Adelman, M.A., A & P: A Study in Price-Cost Behaviour and Public Policy, 1966

Agriculture Canada, Report for the Special Committee on Trends in Food Prices, February 1973

Automated Supermarkets May Revolutionize Retail Concept, Montreal Gazette, January 17, 1975, page 31

Burns Bros. and Denton Limited (Investment Research Agency), Progress Report: Dominion Stores Limited, authored by Tigert D., Toronto, June 7, 1974

...comparative pricing research between Toronto, Calgary and Edmonton

Canadian Consumer, Consumer Association of Canada, Ottawa, bi-monthly, 1963- (see also Food - Consumption)

...regular articles on various aspects of food processing and marketing related primarily to consumers' nutrition and budgeting

Canadian Federation of Retail Grocers and Canadian Grocer Figure Exchange, annual study, 1975 operating results of 44 participating independent and local chain supermarkets. Results from year to year are not comparable as the sample changes somewhat from year to year. The Figure Exchange is the only source of information generally available on supermarket operations in Canada.

Convenience Store Industry Report, Convenience Store News, 1972-1974

Cook, P., Szabo, C., Forecasting Food Prices, Canadian Economic Services Limited, Ottawa, 1975

...paper prepared for Food Prices Review Board

Data Media Corporation, The Canadian Green Book of Major Market Retail Food Advertisements, August 1972

Devine, D., An Empirical Study of Metropolitan Market Conduct in Food Retailing, M.Sc. Thesis, Alberta, 1970

Devine, D.G., Implications of Improved Information on Market Performance Unpublished Thesis, Dept. of Business Administration and Commerce, University of Alberta, Edmonton, 1970

...impact of improved retail price information on retail market pricing behaviour

Food and Grocery Industry Report, Why They Shop at Their Present Supermarket, December 1973

Food Prices Review Board, Convenience Food Stores Survey, November 1975

Food Prices Review Board, Food Price Comparisons, April 1975

Food Prices Review Board, Food Prices in Northern Canada, December 1975

Green, L., Consumer Concerns and Need for Information in Foods and Nutrition, M.Sc. Thesis, Alberta, 1975

Gruneau Research Limited, A Study of the Merchandising Habits of Canadian Retailer Food Stores, Toronto, 1964

Hawkins, M., Warrack, A., Pattison, W., Intracity Retail Price behaviour and the Impact of Price Enquiries, Canadian Journal of Economics, Volume 16 No. 3, 1968

...retail food price behaviour and food price enquiries

Imasco Limited, annual report, 1976, S & W Fine Foods, Incl, Progresso Food corp., Unico Foods Limited, Grisool Foods, Imesco Foods Limited

Kelly, Douglas and Company Limited, wholesale and retail distribution of food and drug products, food manufacturing dairy operations, etc., operating mainly in Western Canada, 1975 - annual report.

Labour Review, 'Advertising Increases the Price of Food', March/April 1976, p. 7.

Lew, M., Consumer Patronage Behaviour, An Analysis of An Urban Grocery System, M.B.A. Thesis, U.B.C., 1970

Loblaws Company Limited, Submission to the House of Commons Special Committee on Trends in Food Prices, 1973

Maclean Hunter Research Division, Chatelaine Food Survey (1972) from the Chatelaine Consumer Council of 1,500 French and English Chatelaine subscribers. Included is a product breakdown of baking, cheese, spreads, desserts and items used for entertaining, frozen foods, fruit and fruit juices, fish and seafood, food wrapping, take-out foods, miscellaneous products. (See also Food - Consumption)

Maclean Hunter Research Division, Chatelaine Supermarket Survey, issued April 1973, supermarket shopping, product likes and dislikes, store likes and dislikes, etc.

Maclean Hunter Research Division, 1976 Survey of Grocery Chains and Groups (August 1976), complete details about each supermarket and convenience chain, and each group-sponsoring wholesalers in Canada, store numbers, management personnel, corporate affiliations, sales expansion programs, etc. August issue of Canadian Grocer.

Mallen, B., and Haberman, M., Economies of Scale: A Determinant of 'Over Storing and Super Storing', Conference Proceedings of the Canadian Association of Administrative Sciences, Edmonton, 1975

McCormick, R., Consumer Perceptions of Nutritional Labelling, M.Sc. Thesis, Alberta, 1974

Moyer, M.S., Shopping Centres in Canada: Their Impact, Anatomy and Evaluation, Business Quarterly, Summer 1973

Moyer, M.S. and Snyder, G., Trends in Canadian Marketing, Queen's Printer, Ottawa, 1967

...concentration in retail food markets

The National Association of Tobacco and Confectionary Distributors, Predatory Pricing as a Factor in the Decline of Small Businesses in Canada: A Brief in Support of Amendments to Section 34 of the Combines Investigation Act Presented to the Minister of Consumer and Corporate Affairs, April 1974

Ontario Ministry of Agriculture and Food, Farm Roadside Marketing in Ontario, 1975

The Oshawa Group Limited, annual reports, 1973-1976, consolidated statements, year in review

Parlby G., Samure O., Saminow M., and Hawkins M.H. A Critical Review of the Mallen Report, C. J. A. E., Volume 24, No. 3, November 1976

Reinhandt, P., A Theory of Household Grocery Inventory Holdings, Ph. D. Thesis, Western, 1972

Report of the Director of Investigation and Research, Combines Investigation Act, Queen's Printer, Ottawa, 1971

...includes information on retail food shares, market shares

Report of the Royal Commission on Consumer Problems and Inflation, Regina, Queen's Printer, 1968, i.e. The Batton Report

...concentration in the food indstry

Rock, R., Imageries of Supermarkets in Saskatoon, M.B.A. Thesis, Saskatchewan, 1970

Roytenburg, M.M., Trends in the Procurement and Merchandising of Food Products and their Implications for Producers and Consumers, Canadian Farm Economics, February 1968

Rush, G.B., The Supermarket Story Book, Simon Fraser University, 1972

...growth of supermarket power

Savitt, R., Economies of Scale in Canadian Supermarkets: The issue of Over-Capacity, London, Ontario, Associates Workshop in Business Research, School of Business Administration, University of Western Ontario, Unpublished Working Paper No. 2, Summer 1974

Space-Age Supermarket Saves Time, Montreal Star, August 20, 1975, page B-1

...automated check-out article

Statistics Canada, Chain Store Sales and Stocks, 63-001

...total sales and inventory for 18 trades and total all trades. Number of stores operated by reporting firms. Discountinued, last issue, December 1973

Statistics Canada, The Consumer Price Index, 62-001, monthly

...retail price movements, price index movements for seven major components and underlying factors

Statistics Canada, Consumer Prices and Price Indices, 62-010, quarterly

...current price index movements, local consumer prices information, reference material for seasonal adjustment, place to place retail price comparisons, price movements for last twelve months

Statistics Canada, Direct Selling in Canada, 63-218, (see also Food - Distribution)

...sales of various commodities by method of distribution - door to door, mail order, etc. (includes baked goods, dairy products, frozen foods)

Statistics Canada, Index Numbers of Farm Prices of Agricultural Products, 63-003, monthly

...farm gate prices indices by province

Statistics Canada, Industry Price Indices, 62-011 monthly and annual, last publ. 1971-75

...indices of industry selling prices for manufacturing industries by commodity group
...indices wholesale prices with component details
...indices farm product prices at terminal markets

Statistics Canada, Price and Price Indices, 62-002, monthly

...retail indices for Canada and major cities, indices of industry selling prices, wholesale prices with component details, farm product prices at terminal markets

Statistics Canada, Retail Chain Stores, 63-210, annual

...number of stores, sales, salaries paid of chain outlets selling bakery products, candies, dairy products, delicatessen meats

Statistics Canada, Retail Trade, 63-005, monthly

...total retail sales by provinces and kinds of business, for chain and independent stores; seasonally adjusted sales

Statistics Canada, Shopping Centres in Canada, 1972, 63-214

Statistics Canada, Vending Machine Operators, 63-213, annual (see also Food - Distribution)

...sales through vending machines by type of merchandise, type of machine, location and province

Stewart, W., How Safeway Won the West, Macleans, April 1974

Vickers & Benson Limited, Canadian Food Store Data, Montreal, 1964

Statistics Canada, Voluntary Group Stores (Grocery and Combination Trade), 63-215 (see also Food - Distribution)

...sales, number of stores, information on purchasing behaviour

Steinberg's Limited, annual reports, 1974-1976, financial and operating review, consolidated statement of earnings, the 1976 report contains a 10 year summary of sales, net earnings after taxes, distribution of earnings etc.

Weiss. G., Shopping Centres, The Financial Post, November 22, 1975, p. D-9

Retailing

Alberta, Department of Agriculture, Check Your Food Costs, 1972

Beck, R., Private Labelling: Non-Price Competition in Reverse, Canadian Journal of Agricultural Economics, December, 1967

Blue Book of Foodstore Operators and Wholesalers, 1965, Winnipeg, Sanford Evans

Burns Bros. and Denton Limited, Investment Research Department, 'Retail Grocery Chains - Pricing Policy and Competitive Position,' Institutional Notes, December, 1970

Canada Safeway Limited (Vancouver), Introduction of Unit Pricing, May, 1972

Canadian Grocer, Survey of Chains and Groups, Maclean-Hunter, August issue, Monthly

Candler, W., Kennedy G., Food Cost Stabilization Using Food Coupons, Canadian Journal of Agricultural Economics, November, 1975

Chapman, E and Van Hoof, H., Les Supermarches, Ottawa, 1969

Chisolm, R.F., The Darlings; the Mystique of the Supermarket, Toronto, McClelland and Stewart, 1970

Consumer and Corporate Affairs; Consumer Research Branch, Automated Check-Out Systems

...includes labelling.

Savitt, R., Efficiency and Size in Canadian Supermarkets, Conference Proceedings of the Canadian Association of Administrative Sciences, Edmonton 1975

Consumer and Corporate Affairs, Submission to the Special Commission on Trends in Food Prices made by the Honourable Herb Gray, Minister of Consumer and Corporate Affairs, February, 1973

Department of Agriculture, Buy by Grade; Consumer Guide to Food Grades, Ottawa, 1970

Department of Agriculture, Food Grading in Canada, 1975

Department of Agriculture, Guide to Food Grades, 1975

Department of Agriculture, Value for Food Dollars, Ottawa, 1968

Devine, D., Hawkins, M., An Empirical Study of Metropolitan Market Conduct in Food Retailing, Canadian Journal of Agricultural Economics July, 1970

Dooley, P.C., Retail Oligopoly; An Empirical Study of Structure, Conduct and Performance of the Grocery Trade on the Prairies, Supporting Study No. 3, Royal Commission on Consumer Problems and Inflation, Undated (Around 1968), Regina, 1968

Finlay, J., Structure and Dynamic Change in Grocery Retailing in Canada, Ph.D. Thesis, Queens, 1974

Firestone, O.J., 'Canada in 1970: How to Keep the Economy Growing', Address to the 5th Annual Meeting of the Grocery Products Manufacturers of Canada, Toronto, 1964

Firestone, O. J., The Canadian Grocery Industry in 1970

Food Prices Review Board, The Levels, Causes and Effects of Economic Concentration in the Canadian Retail Food Trade, Reference Paper: February 1976

Food Prices Review Board, Retail Food Stores Survey, November 1973

Grocery Products Manufacturers of Canada, New Dimensions for the Grocery Industry; Condensations of the Major Addresses Given at the GPMC Annual Meeting, March, 1973

...on automated check-outs, food retailing.

Hawkins, M., Warrack, A., Pattison, W., Intracity Retail Food Price Behaviour and the Impact of Price Enquiries, Canadian Journal of Agricultural Economics, October, 1968

Lerner, A., Patil, T., Changes in the Market Structure of Grocery Retailing, Canadian Journal of Agricultural Economics, Volume 13, 1965, No. 1

Maley, D., Retail Grocery Price Variation in Saskatchewan, Canadian Farm Economics, August, 1976

Maley, D., Spatial Variation in Food Prices for Selected Saskatchewan Centres, Saskatoon 1975

Mallen, B., A Preliminary Paper on the Levels, Causes and Effects of Economic Concentration in the Canadian Retail Food Trade: A Study of Supermarket Power, FPRB, 1976

National Farmers' Union, Submission to the House of Commons Committee on the Subject of Trends in Food Prices, Ottawa, 1973

Ontario, Department of Agriculture and Food, Your Food Costs, Toronto, 1966

Ontario Food Council, Retail Food Price Study for Metro Toronto Area, Toronto, Ministry of Agriculture and Food, 1970

Ontario Food Council, A Review of Toronto Food Costs, Toronto, Ministry of Agriculture and Food, 1972

Ontario, Ministry of Consumer and Corporate Relations, A Study of Profitability for 16 Canadian Food Companies, 1974

Orr, D., The Determinants of Entry: A Study of the Canadian Manufacturing Industries, The Review of Economics and Statistics, Volume 56, February 1974, p. 65

...barriers to entry, touches on Canadian food system

Parlby, A., Famure, O., Faminow, M. and Hawkins, M., A Critical Review of the Mallen Report, Canadian Journal of Agricultural Economics, Volume 24, No. 3, November 1976

Quebec, Min. de l'Agriculture et de la Colonisaton, Verifiez le Coût de vos Aliments, P.Q., 1972

Queen's Printer, Annual Report of the Director of Investigation and Research for the Year Ended March 31, 1968, Ottawa, 1968

...concludes that findings of Royal Commission on Consumer Problems and Inflation invalid because of unwarranted assumptions and improper data

Queen's Printer, Study on Alleged Discriminatory Pricing Practices by Supermarket Chains in Vancouver, Report of the Director of Investigation and Research, Combines Investigation Act, Ottawa, 1973

Rubin, K., Food Cooperatives; Different People, Different Methods and Co-operative Goals, Ottawa, 1971

Rush, G.B., The Grocery Store Story Book, Vancouver, Self-Counsel Press, 1972

Rush, G.B., The Supermarket Storybook; the Food Chain Exposé, Vancouver 1972

Saskatchewan, Department of Consumer Affairs, Rising Food Prices and the Food Industry; a Preliminary Study

Statistics Canada, Retail Trade, 1961-1966, 63-517, occassional

...general statistics on retail trade

Supermarket Methods, Supermarket Methods Presents the LOEB-IGA Study; A Profile of Product Performances, Toronto, 1965

Thomas Grocery Register: The Official Buyers and Sellers Guide of the Grocery and Allied Trades, United States and Canada, New York, Thomas Publications, Annual

Tigert, D., The Supermarket Price War in Toronto; One Year Later, Toronto, University of Toronto, 1971

Ward, B., Food for Thought; a Study of Skyrocketing Food Prices, Ontario, Federation of Labour, Don Mills, 1973

Legislation

Arcus, P., The Farm Products Marketing Agencies Act of 1972, Canadian Journal of Agricultural Economics, July, 1972

Hiscocks, G., Bennett, T., Marketing Boards and Pricing in Canada, Canadian Farm Economics, June, 1974

Hiscocks, G., Market Regulation in Canada, Canadian Farm Economics, June, 1972

Hiscocks, G., Kidd, J., National Farm Products Marketing Legislation and Organization, Canadian Farm Economics, October, 1968

Canada Agricultural Products Standards Acts, Re Processed Fruit and Vegetable Regulations Established by P.C. 1961-1966

New Consumer Unit Gets Some Food-Drug Authority in Canada, International Commerce, Volume 75, October 27, 1969, p. 29

Walker, H., Marketing Boards and Quota Policies for Canadian Farm Products: An Appraisal of Performance, Canadian Journal of Agricultural Economics, June, 1968

Wood, A., The Marketing Board Approach to Collective Bargaining, Canadian Journal of Agricultural Economics, December, 1967

Miscellanous Products

Abbott, J.C., Rice Marketing, 1972

New Brunswick Office of the Economic Advisor, Miscellaneous Food Industry, 1974

...profile includes types, growth, productivity, size, labour, costs, transportation, markets

Lewington, J., Processing Protein Could be our Next Big Industry, Financial Post, March 31, 1973

Statistics Canada, Biscuits and Confectionery, 32-016, quarterly (see also Cereals and Cereal Products - Processing)

...production of confectionery, disappearance of cocoa beans through grinding, chocolate bars

Statistics Canada, Confectionery Manufacturers, 32-213, annual (see also Cereals and Cereal Products - Processing)

Statistics Canada, Miscellaneous Food Processors, 32-224, annual (see also Beverages - Processing)

Statistics Canada, Salt, 26-009, monthly

...production, shipments, stocks

Beverages

Song, S., An Economic Analysis of the Production and Consumption of Canadian Wines, 1951-1965, M.A. Thesis, Dalhousie, 1970

Marx, C., Locating Warehouse Facilities for Saskatchewan Beer Distribution, M.B.A. Thesis, Alberta, 1970

Restrictive Trade Practices Commission, Draught Beer, Metro Toronto; Report in the Matter of an Inquiry Relating to the Sale, Distribution and Supply of Beer in Ontario, Ottawa, 1972

Alcoholic Beverage Study Committee, Beer, Wine and Spirits: Beverages Differences and Public Policy in Canada, May 1973

Arak, M., Estimation of Assymetric Long-run Supply Functions: the case of Coffee, Canadian Journal of Agricultural Economics, February, 1969

Brewers Association of Canada, Brewing in Canada, Ottawa, 1965

Canadian Beverage News, Directory of Beverage Alcohol Products Available in Canada, Toronto, Annually

...on brewing, wine and wine making.

Canadian Beverage Review, Buyer's Guide, Beaconsfield, P.Q., Bimonthly

Canadian Wine Institute, Statistical Tables and Wine Information Materials, Toronto, 1976

International Trade Centre, The Market for Soluble Coffee in Canada and Japan, Geneva, 1971

Jones, C.J.H., Mergers and Competition: The Brewing Case, C.J.E.P.S., November 1967, p. 551-568

Maclean Hunter Research Division, Chatelaine Beverage (non-alcholic) Study, November 1975, Consumer council report on soft drinks, fruit and vegetable juices and drinks.

Ontario, Solid Waste Task Force, Report of the S.W.T.F. to the Minister of the Environment, Toronto, 1974

...on environmental study of packaging beverages.

Prices and Incomes Commission, Beverage Prices in Federal Government Eating Facilities, Ottawa, 1970

Statistics Canada, Breweries, 32-019, monthly

...shipments of brewed products, Canada and region or origin, monthly and cumulative

Canadian Beverage Review, Kenroy Publishers Limited, Ste. Anne de Bellevue, Quebec, bi-monthly. Industry bulletin serving the vending, brewing, soft drink, distilling and wine-making sectors

...emphasis on processing developments, new products, changes in legislation affecting the beverage industry, management news, conferences, company profiles, etc.

Statistics Canada, Miscellaneous Food Preparations, 32-018, quarterly

...production of tea, coffee

Statistics Canada, Miscellaneous Food Processors, 32-224, annual (see also Miscellaneous Products - Processing)

Statistics Canada, Monthly Production of Soft Drinks, 32-001, monthly

...monthly production date, cumulative data, comparisons with previous periods

Statistics Canada, Productivity Trends in Industry: Report No. 1 - Synthetic Textile Mills, Breweries, Pulp and Paper Mills, 1947-1971, 14-502, occasional.

...analysis of trends and comparisons with U.S.

Statistics Canada, Soft Drink Manufacturers, 32-208, annual

Monteiro, J., Price Spreads in the Tea Trade, M.A. Thesis, Queens, 1971

Cereals and Cereal Products - Consumption

Feaver, C.H., Spencer, B.G., The Consumption of Bread and Fluid Milk in Canada, Food Prices Review Board, 1975

P.Q. Commerce Bureau, Inquiry into the Trade and Commerce of Bakery Products in Quebec, Montreal 1972

Canadian Grain Commission, Exports of Canadian Grain and Wheat Flour

Association des Meuniers de Quebec, Cereales de Provende, Montreal, 1973

...on cereal foods.

Kenroy, Beaconsfield, Bakers Journal Publication, February, 1972 (Volume 32-1) to April, 1976 (Volume 36-2), bi-monthly

...emphasis on processing, wiht some material on distribution and retailing

Canadian Consumer Council, The Canadian Wheat Board and the Consumer Interest, 1974

Canadian Grains Council, Canadian Grains Industry Statistical Handbook, 1974

Canadian International Grains Institute, Grains and Oilseeds Handling, Marketing, and Processing, second edition May 1975, (pub. by the Institute)

...institutional and technological emphasis

Canadian Livestock Feed Board and Quebec Department of Agriculture, Feed Protein Conference, 1974

Canadian National Millers Association, A Submission to the Canadian Grain Marketing Review Commission, Ottawa, 1970

...flour

Canadian Wheat Board, Food Protein Study Group, Food Protein from Grains and Oilseeds, 1972

...cereals as food, food research.

The Corn Industry In Ontario, 1969

Department of Agriculture, Cereals Anytime, 1975

Department of Industry, Trade and Commerce, Agriculture, Fisheries and Food Products Branch, A Survey of the Bakery Industry in Canada, Ottawa, 1970

...study recently updated (March 1977). Also biscuits study to be released mid-1977.

Feed and Farm Supply Dealer, Sanford Evans Publishing Limited, Winnipeg (formerly Canadian Milling and Feed), monthly

...articles relating to the processing and marketing of animal feeds including reports on feed consumption, company profiles, appointments, conferences, etc.

Statistics Canada, Coarse Grains Review, 22-001, quarterly (see also Cereals and Cereal Products - Processing)

...marketings, supply, shipments, prices

Statistics Canada, Grain Trade of Canada, 22-201, annual (see also Cereals and Cereal Products - Processing)

...marketings, inspections, receipts, shipments, exports, flour-milling statistics

Statistics Canada, The Wheat Review, 22-005, monthly (see also Cereals and Cereal Products - Processing)

...marketings, supply, shipments, prices

Study Group appointed by Minister Responsible for the Canadian Wheat Board, Food Protein from Grains and Oilseeds - A development study Projected to 1980, September 1972

Bakery Council of Canada, Facts on Bread, Toronto

...discusses milling process, adding nutrients, additives, packaging, nutritional qualities.

Department of Industry, Trade and Commerce, Second Industries Division, Feed Mill Grain and Oilseed Processing Machinery and Consulting Services from Canada

Hedley, H., An analysis of the Spatial Organization of the Ontario Feed Manufacturing Industry, M.Sc. Thesis, Guelph, 1974

Hedley, H., Martin, L., An Analysis of Structural Change in the Ontario Feed Milling Sector, University of Guelph, 1975

Jenkins, S., Bakery Technology, Toronto, Lester and Orphen, 1975

Leung, D., The Concept of Effective Subsidy and Its Application to the Flour Milling Industry, M.Sc. Thesis, Manitoba, 1973

Leung, D., The Concept of Effective Subsidy and its Application to the Canadian Flour Milling Industry, Canadian Journal of Agricultural Economics, February, 1973

New Brunswick Office of the Economic Advisor, Bakeries: Profile includes growth, productivity, size, labour costs, transportation, markets, 1974

Tenderenda, R., The Canadian Bakery Industry 1951-1969, M.A. Thesis, Dalhousie, 1972

Statistics Canada, Biscuits and Confectionery, 32-016, quarterly, (see also Miscellaneous Products - Processing)

...production of confectionery, disappearance of cocoa beans through grinding, chocolate bars

Statistics Canada, Bakeries, 32-203, annual reports

Statistics Canada, Bread and Other Bakery Products, 32-015, quarterly

...shipments, total value wholesale and retail

Statistics Canada, Coarse Grains Review, 22-001, quarterly (see also Cereals and Cereal Products - General)

...marketings, supply, shipments, prices

Statistics Canada, Feed Industry, 32-214, annual

Statistics Canada, Flour and Breakfast Cereal Products Industry, 32-228, annual

Statistics Canada, Flour Mills and Feed Mills in Canada, 32-401, biennial, last publ. 1972

Statistics Canada, Grain Milling Statistics, 32-003, monthly

...quantities ground, stocks in mill, wheat flour exports

Statistics Canada, Confectionery Manufacturers, 32-213, annual (see also Miscellaneous Products - Processing)

Statistics Canada, Grain Trade of Canada, 22-201, annual (see also Cereals and Cereal products - General)

...marketings, inspections, receipts, shipments, exports, flour-milling statistics

Statistics Canada, The Wheat Review, 22-005, monthly (see also Cereals and Cereal Products - General)

...marketings, supply, shipments, prices

Food Prices Review Board, Report on Bread Prices, February 1974

Prices and Incomes Commission, Prices of Bread in Ontario, Ottawa, 1970

Rothman H., Selling the Staff of Life, New Scientist, August 1974

Standard Brands Limited, Fleischmann's Consumer Panel Report on Consumer Purchases of Bakery Products in Canada, October 1972

Dairy Products

Barfoot, L.W., The Impact of Edible Oil Products on the Dairy Industry, by L.W. Barfoot, A.D. MacDonald, W.R. Redelmeier, Department of Agriculture and Food, 1967

Beckett, W. A. Associates, The Demand for Fluid Milk in Canada; an Economic Analysis of the Factors Influencing Long Term Trends in Fluid Milk Consumption, Prepared for Canadian Dairy Food Services Bureau, Toronto, 1969

Food Prices Review Board, Consumption of Bread and Fluid Milk in Canada

Gibson, D.C., Study of the Potential Consumer Market for Ontario Aged Cheddar Cheese, Made for Milk Marketing Board, Toronto, 1973

Lu, W., Marshall, R., Demand Analysis for Manufactured Dairy Products in Canada in 1969, Canadian Journal of Agricultural Economics, July 1974

Marshall, R., Lu, W., A Demand Analysis for Fluid Milk in Ontario, University of Guelph, 1973

McCormick, V., Consumption of Milk, Dairy Products and Margarine, Canadian Farm Economics, February, 1972

Pando, J., The Trend Pattern of Butter Consumption in Canada, Canadian Farm Economics, December, 1970

Gossling, W., The Ontario Short Run Milk Supply Curve, Canadian Journal of Agricultural Economics, Volume XII, 1964, No. 1

Johnson, S., Collective Bargaining in Milk Marketing, Canadian Journal of Agricultural Economics, December, 1967

Kates, Peat, Marwick and Company, Marketing of Industrial Milk in Ontario, Toronto, 1972

Lane, S., Marketing Can Milk in Ontario, University of Guelph, 1973

MacDonald, A., The Feasibility and Consequences of Expanding Fluid Milk Distribution Areas in Ontario, Ontario Department of Agriculture and Food, 1967

Mestern, H., The Evolution of Supply Management in the Canadian Dairy Industry, Canadian Farm Economics, December, 1972

Modern Dairy, Maccan Publishing Company, Gardenvale, Quebec, monthly (prior to 1969 Canadian Dairy and Ice Cream Journal) (see also Dairy Products - Retailing, Processing)

...reviews technological developments in dairy processing, market analyses, legislative changes, various approaches to dairy distribution and retailing, industry and company profiles, conferences, literature reviews, advertisers' index, management appointments, etc.

Modern Dairy, Directory of Canadian Dairy Processors and Distributors, annually

Nelson, G., The Efficiency of Fluid Milk Flows in Central and Western Ontario, University of Guelph, 1967

Ontario Milk Marketing Board - Annual Reports

Perkins, B., Canadian Dairy Policies; a Research Report to the Federal Task Force on Agriculture, Ottawa, 1969

Restrictive Trade Practices Commission, Report of an Alleged Combine in the Matter of the Sale and Distribution of Milk in the Ottawa, Ontario Area: Combines Investigation Act, Ottawa, 1964

Statistics Canada, Dairy Statistics, 23-201, annual (see also Dairy Products - Processing and Retailing)

...total milk utilization, factory production, sales, domestic disappearance

Statistics Canada, Handbook of Agricultural Statistics Part VII Dairy Statistics, 21-513 and 21-515, occasional, last publ. 1920-73 (see also Dairy Products - Processing)

...production at farm manufacturing levels, distribution, supply disposition

Agriculture Canada, Dairy Produce Market Report, Weekly

Agriculture Canada, Economics Branch, Selected Statistics on the Canadian Dairy Industry to 1968, Ottawa, 1970

Alberta, Department of Agriculture, Better Cream Means Better Butter: Quality From Cow to Consumer, Edmonton, 1965

Allan, D., Concentration and Competition in Ontario's Fluid Milk Industry, Ontario Economic Review, November 1965

Batik, J., Export, Production and Marketing of Canadian Cheddar Cheese, M.A. Thesis, Queens, 1964

Canada, Department of Agriculture Economics Branch, The Dairy Industry in British Columbia, 1966

Canadian Agricultural Economics Society, Problems of the Dairy Industry in Canada, Ottawa, 1962

...on processing, marketing, pricing.

Department of Agriculture: Cheese, 1969

Department of Agriculture, Economics Branch, The Dairy Industry in British Columbia; A Study Prepared at the Request of the B.C. Minister of Agriculture, 1966

Department of Industry, Trade and Commerce; Agriculture, Fisheries, Food Products Branch, The Canadian Dairy Industry, Ottawa, 1971

Department of Industry, Trade and Commerce; Food Products, Substitute Dairy Products and their Effect on the Canadian Dairy Industry, Ottawa, 1968

Food in Canada, c.f. March Issue, 1972-1976 Inclusive, April Issue, 1972, May Issue, 1972, July Issue, 1972, August Issue, 1974, November Issue, 1974

Grubel, H.G., and Schwindt, R.W., The Real Cost of the B.C. Milk Board, Fraser Institute, Vancouver B.C., 1977

Handy, J., The Dairy Industry in Saskatchewan, M.Sc. Thesis, Saskatchewan, 1971

Lohoar, J., The Dimensions of the Dairy Problem, Canadian Farm Economics, December, 1967

MacEachern, G., What Can Happen to Meat, Egg and Milk Prices? An Analysis of the Impact of a Changing Grain Market on Costs of Producing Animal and Poultry Products, Agricultural Economics Research Council, 1974

MacFarlane, D. and Fischer, L., Canadian Dairy Industry: Short Term Perspectives, Food Prices Review Board, 1974

Mackenzie, W., Ministere des Forets et du Developpement Rurale, L'industrie Laitiere au Canada, Ottawa, 1967

MacKay, R., An Analysis of the Production & Marketing of Solids - Non-Fat & Butterfat, Canadian Farm Economics, August, 1970

McCormick, V., A Comparison of the Dairy Industries in Canada & the U.S., Canadian Farm Economics, December, 1974

McCormick, V., Dairy Price Support in Canada, 1962-1972., Canadian Farm Economics, October, 1972

McCormick, V., 100 Years in the Dairy Industry, Dairy Farmers of Canada Publication, 1968

...on production, marketing, pricing

Mestern, H., Changes in the Cream & Manufacturing Milk Industry, 1966-67 to 1970-71., Canadian Farm Economics, October, 1971

Mestern, H., McCormick, V., A Comparison of the Dairy Support Programs in the U.S. & Canada, Canadian Farm Economics, December, 1967

Mestern, H., McCormick, V., Trends in Production & Utilization of Milk Solids - Non-Fat & Butterfat, Canadian Farm Economics, October, 1968

Modern Dairy, Buyers Guide and Directory of Canadian Dairy Trade Associations, annually

Nash, J., Teeter, N., Building Models: An Example from the Canadian Dairy Industry, Canadian Farm Economics, April, 1975

New Brunswick Office of Economic Advisor, Dairy Products Industry, 1974

New Brunswick Royal Commission on the Milk Industry Report, Fredericton, N.B., Department of Agriculture and Rural Development, 1971

Nova Scotia, Milk Industry Inquiry Report, 1966-67

Ontario, Department of Agriculture, Butter, Toronto, 1965

Ontario Milk Marketing Board, Brief to the Public Meeting on the Dairy Industry, 1974

Ontario Milk Industry Inquiry Commission, Report, Toronto, 1965

P.Q. Commission Royale D'enquete sur L'Agriculture au Quebec, L'industrie Laitiere au Quebec, Rapport, 1967

Pariseault, P., The Dairy Industry Today to 1974-75-76, in National Economic Conference support papers, 1973

Prince Edward Island Department of Agriculture and Forestry, Prince Edward Island Dairy Statistics Review, annual

Ryle, G., The Dairy Industry in Prince Edward Island, 1973

Rogers, W., Baker, H., An Economic Analysis of the Alberta Butter Industry, Canadian Journal of Agricultural Economics, February, 1968

Sahi, R., Structure of the Canadian Manufacturing Milk & Cream Industry, Canadian Farm Economics, April, 1973

Trant, G., Recent Canadian Dairy Price Policies, Canadian Journal of Agricultural Economics, Volume XI, 1963, No. 1

Wright, N., Co-operative Becomes Capitalist Style Giant - New Big Name Comes to Dairying, article in Montreal Star, April 30, 1974

Yang, W., Changes in the Manufacturing Milk & Cream Industry under the Canadian Dairy Commission in 1969-1970., Canadian Farm Economics, December, 1970

Alberta, Department of Agriculture, Report of the Dairy Branch and a Report of the Board of Public Utility Commissioners Concerning Milk Control, 19..-1969

Baker, H., The Alberta Butter Industry: An Analysis of Location and Efficiency, M.Sc. Thesis, Alberta, 1967

Canadian Dairy Commission, 1971 Dairy Survey

...on physical, financial resources, management practices.

Cartwright, D., Cheese Production in South-Western Ontario, M.A. Thesis, Western, 1965

Clark, J., Canadian Dairy Policies, a Research Report to the Federal Task Force on Agriculture, Ottawa, 1969

Cloutier, R., Some Structural Relationships of the Ontario Dairy Industry With Special Reference to the Industrial Sector, M.Sc. Thesis, Guelph, 1968

Department of Agriculture, Dairy Products Division, List of Cheese Factories and Creameries in Canada and Registered Numbers, Ottawa, 1937

Department of Industry, Trade and Commerce, Agriculture, Fish and Food Products, Processing of Cheese Whey in Canada, 1969

Department of Industry, Trade and Commerce, Economies of Scale in Canadian Butter and Skim Milk Powder Production; In-plant Processing Costs, Halifax, 1966

Keoy, J., Variety Cheese in Canada; Production and Imports, Ottawa, Dept. Industry, Trade and Commerce

...agriculture, fish, food products branch, 1970.

MacKay, R., Analysis of the Production and Marketing of Solids - Non-Fat and Butterfat, Canadian Farm Economics, April 1970

Mackenzie, W., The Canadian Dairy Industry, Department of Forestry and Rural Development, Ottawa, 1967

...production and distribution.

Modern Dairy, Maccan Publishing Company, Gardenvale, Quebec, monthly (prior to 1969 Canadian Dairy and Ice Cream Journal) (see also Dairy Products - Distribution, Retailing)

...reviews technological developments in dairy processing, market analyses, legislative changes, various approaches to dairy distribution and retailing, industry and company profiles, conferences, literature reviews, advertisers' index, management appointments, etc.

Modern Dairy, Directory of Canadian Dairy Processors and Distributors, Annually

Murchie, W., Stewart, M., Report to the Milk Commission of Ontario on the Industrial Milk Processing Industry, National Post, October, 1969

...mimeo.

Ontario Cheese Producers Marketing Board, Annual Reports, 1962-1966 - proceedings, balance sheets, outlook, processing growth, charges

Ontario, Cheese Industry Study Commission, Report, Toronto, 1968

Ontario, Department of Agriculture, Cheddar Cheese Factories in Ontario, 1965

Perkins, B., Clark, J., Marshall, R., Canadian Dairy Policies; a Research Report to the Federal Task Force on Agriculture, Ottawa, 1969

Sahi, R., Structural and Technological Change in Canadian Manufacturing Milk and Cream Produciton 1966-1967, Department of Agriculture, 1973

Statistics Canada, Dairy Factory Production, 32-002, monthly

...production of dairy products by province

Statistics Canada, Dairy Products Industry, 32-209, annual

Statistics Canada, The Dairy Review, 23-001, monthly

...milk production, utilization

Statistics Canada, Dairy Statistics, 23-201, annual (see also Dairy Products - Distribution and Retailing)

...total milk utilization, factory production, sales, domestic disappearance

Statistics Canada, Fluid Milk Sales, 23-002, monthly, last publ. December 1974

Statistics Canada, Handbook of Agricultural Statistics Part VII Dairy Statistics, 21-513 and 21-515, occasional, last publ. 1920-73 (see also Dairy Products - Distribution)

...production at farm and manufacturing levels, distribution, supply disposition

Statistics Canada, Selected Dairy By-Products, 32-024, monthly

...production and inventory

Statistics Canada, Stocks of Dairy and Frozen Poultry Products, 32-009, monthly (see also Poultry and Eggs - Distribution)

Statistics Canada, Stocks of Food Commodities in Cold Storage and Other Warehouses, 32-217, annual

...summary tables of stocks by month by province

Sundstrom, M., Recent Regional Adjustments in the Fluid Milk Industry of Southern Ontario, Ph.D. Thesis, MacMaster, 1972

Wagner, R., An Integer Linear Programming Model Applied to Storage Facilities with Special Reference to a Multi-Product Milk Plant, M.Sc. Thesis, Guelph, 1966

Modern Dairy, Maccan Publishing Company, Gardenvale, Quebec, monthly (prior to 1969 Canadian Dairy and Ice Cream Journal) (see also Dairy Products - Processing, Distribution)

...reviews technological developments in dairy processing, market analyses, legislative changes, various approaches to dairy distribution and retailing, industry and company profiles, conferences, literature reviews, advertisers' index, management appointments, etc.

Quebec, L'association des Consommateurs du Canada, Commentaire de l'Association des Consommateurs du Canada (Quebec) sur le Prix du Lait Presentes â la Regie des Marches Agricoles du Quebec, Montreal, 1973

...on milk prices in Quebec.

Quebec, L'association des Consommateurs du Canada, Memoire Presented à la Regie des Marches Agricoles du Quebec sur le Prix du Lait, Montreal, 1973

Statistics Canada, Dairy Statistics, 23-201, annual (see also Dairy Products - Distribution and Processing)

...total milk utilization, factory production, sales, domestic disappearance

Veeman, M.M., The Impact of Federal Dairy Policies and Provincial Milk Boards on Canadian Consumer, 1974

Fish

Gates, J., Demand Price, Fish Size and the Price of Fish, Canadian Journal of Agricultural Economics, November, 1974

Commission of Inquiry into Freshwater Fish Marketing Report, Ottawa, 1966

Freshwater Fish Marketing Corporation, Winnipeg, Annual Report, 1969, 1970

John, J., Background Paper on Canadian Seafood Marketing, 1972

...summary of paper also available

Johnson, R.S., A Demand Analysis for Canned Red (Sockeye) Salmon at Wholesale: A Progress Report

Stacey, D., The Changing Organization of the Salmon Industry with Special Reference to the Transport of Raw Fish, M.A. Thesis, U.B.C., 1971

Statistics Canada, Fish and Fish Products, 24-003, periodically (see also Fish - Processing)

...fish freezings and stocks by province

Statistics Canada, Monthly Review of Canadian Fisheries Statistics, 24-002, monthly (see also Fish - Processing)

...landings, disposition, cold storage, imports and exports

Brewer, K., The Canadian East Coast Ground-fish Industry, Ph.D. Thesis, McGill, 1972

Canadian Fisherman and Ocean Science, Muir Publishing Company, Gardenvale, Quebec, bi-monthly

...regular review of the commercial fishing, fish processing and fish farming industries in Canada covering markets, prices, consumption, technological developments, company profiles, legislative charges, conferences, appointments, etc.

Dunne, E., Biological and Economic Aspects of the Newfoundland Cod Fisheries, M.A. Thesis, Memorial, 1970

Environment Canada, Annual Statistical Review of Canadian Fisheries, annual, latest edition 1975

Environment Canada, Data on the Lake and Round Whitefish, Lake Cisco, Northern Pike and Arctic Grayling from Great Bear Lake N.W.T., 1974

Environment Canada, The Great Lake Commercial Fishery, 1973

Environment Canada, Summary of Canadian Fisheries Statistics, 1974-1975 (formerly Annual Statistical Review of Canadian Fisheries 1957-1973)

Fisheries Council of Canada, Brief to the C.T.T.C., November 1974

Food Prices Review Board, Fish and Fish Products, June 1975

Lambert, L., Ontario's Lake Erie Commercial Fishery: A Social and Economic Profile, 1975

Maclean-Hunter, Food in Canada, c.f. March Issue, 1972; June, 1972, 1975, 1976; December, 1972; January, 1973; November 1973-1976; May, 1974; August, 1974, 1975; September, 1974; July, 1975

Manitoba Department of Mines, Resources and Environmental Management, The Fishing Bulletin, (periodical)

Mitchell, C., MacEachern, D.B., Developments in the Atlantic Coast Herring Fishery and Fish Meal Industry, Department of Fisheries and Forestry, 1970

Nova Scotia Department of Development, Fisheries Industry Profile and Impact Study, 1973

Ridgley, J.I., Ontario Commercial Fish Industry: Statistics on Landings, 1975

Scott, W.B. and Crossman, E.J., Fisheries Research Board, Fresh Water Fishes of Canada, 1973

Stevenson & Kellogg, Marketing Fish in Canada; a Report for the Fisheries Council of Canada, Ottawa, 1970

Tugwell, S., Production and Efficiency in the Maritime Lobster Fishery, Ph.D. Thesis, Queens, 1974

Statistics Canada, Federal Government Activities in Natural Sciences, annual

...results of survey indclude data on public servants in scientific activities related to fisheries research and information on public expenditures on such research

Western Fisheries, Vancouver, monthly

...reviews the Western Canadian fish processing industries and deals with various aspects of fish marketing and consumption, industry and company profiles, conferences, management appointments, technological developments, etc.

Bilinski, E., Quality and Quantity of Roe Obtained from Pacific Coast Herring under Industrial Processing Conditions, Ottawa, Environment Canada, Fisheries and Marine Service, 1975

Chopra, D., Case Studies of Two Fish Processing Plants and Their Economic Impact, M.A. Thesis, Dalhousie, 1975

Department of Environment, Freezing Fish and Shell-fish, Ottawa, 1972

Department of Fisheries and Forestry, British Columbia, The Need for Public Facilities Related to the Fishing Industry at Stevenston, 1970

DeWolf, A., The Economic Effects of Regulations in the Maritime Provinces Lobster Fishery, M.A. Thesis, Dalhousie, 1970

Dunne, E., Biological and Economic Aspects of the Newfoundland Cod Fisheries, M.A. Thesis, Memorial University, 1970

Environment Canada, Commercial Fishery at Sandy Point, District of Keewatin N.W.T., 1972

Gonzales, F., Fish Handling and Processing in Canada, M.Sc. Thesis, Guelph, 1967

Hillman, M., Fish Protein Concentrate; a Bibliography, 1970-1974, 1975

Lewis, J.N., Salt Fish Corporation, Production and Trade Estimates, 1970 - 1979, Ottawa, 1970

New Brunswick Office of the Economic Advisor, Fish Processing Industry, 1974

...profile includes growth, size, productivity, costs, transportation markets, labour

Prince Edward Island Department of Fisheries, A Study of the Fish Processing Industry of Prince Edward Island with Reference to the Inshore Sector, 1971

Riddle, M., Shikaze, K., Characterization and Treatment of Fish Processing Plant Effluents in Canada, Ottawa, WPCD, 1973

Roberts, R., A Commercial Fisheries' Production Function: The Skeena River Sockeye Salmon Gillnet Fishery, M.A. Thesis, U.B.C., 1971

Shakewich, K., Acceptability Studies on Factors Involved in the Choice and Treatment of Whitefish for Canning, M.Sc. Thesis, Manitoba, 1971

Southey, C., Studies in Fisheries Economics, Ph.D. Thesis, U.B.C., 1969

Statistics Canada, Fish and Fish Products, 24-003, periodically (see also Fish - Distribution)

...fish freezings and stocks by province

Statistics Canada, Fisheries Statistics of British Columbia, Yukon, 24-208, annual

Statistics Canada, Fisheries Statistics of Canada, 24-201, annual

...landings, landed value, value of products and by products, equipment employed

Statistics Canada, Fisheries Statistics of Ontario, Manitoba, Saskatchewan, Alberta, North West Territority, 24-207, annual

Statistics Canada, Fisheries Statistics of New Brunswick, 24-204, annual

Statistics Canada, Fisheries Statistics of Newfoundland, 24-202, annual

Statistics Canada, Fisheries Statistics of Nova Scotia, 24-205, annual

Statistics Canada, Fisheries Statistics of Quebec, 24-206, annual

Statistics Canada, Fisheries Statistics of Prince Edward Island, 24-203, annual

Statistics Canada, Fish Freezings and Stock, 24-001, monthly

Statistics Canada, Monthly Review of Canadian Fisheries Statistics, 24-002, monthly (see also Fish - Distribution)

...landings, disposition, cold storage, imports and exports

Williamson, A.H., The Store - Based Fishery on the Labrador Coast: Constraints in Its Development and Future Prospects, Ph.D. Thesis, McGill, 1971

Fruits and Vegetables

Bruce, B., Drayton, L., Consumer Acceptance of Turnip Flakes, Canadian Farm Economics, April, 1966

Department of Agriculture, Fresh Fruit and Vegetables: What's Available and When, 1971

Kulshreshtha, S., Demand for Major Fruits and Vegetables in Canada, Canadian Journal of Agricultural Economics, July, 1970

Agriculture Canada, A Study of the Marketing of Canadian Apples in Relation to the Feasibility of a National Marketing Board, 1969

Al-Hashimi, M., Trends in the Production and Marketing of Apples in Canada; with Special Reference to Ontario, Ontario, Ministry of Agriculture and Food, 1969

Arcus, P., The Consumer Interest and Marketing Boards for Fruit and Vegetables in Canada; a Report Prepared for the Canadian Consumer Council, Ottawa, 1974

Bennett, T., Direct Marketing of Fresh Fruit and Vegetables - a Look at Farmers' Markets in Canada, Canadian Farm Economics, October, 1974

Blun, H., Marketing of Ontario's Greenhouse Vegetable Products in Competition with Exports from Mexico, Ont. Ministry of Agriculture and Food, 1969

Cairns, J.P., Some Aspects of the Distribution of Ontario Fresh Fruits and Vegetables, Department of Agricultural Economics, University of Guelph

Canadian Horticultural Council, A Brief on the Transportation of Fresh Fruits and Vegetables Presented to a Meeting on Perishable Transportation, Ottawa, 1974

Canadian Horticultural Council, Evaluating the Distribution System, 1974

Canadian Horticultural Council, Minutes of the Marketing and Promotion Committee Meeting, Ottawa, 1976

Clarke, D., The Economic Feasability of Air Shipment of Perishable Fruits and Vegetables Into Canada, M.sc. Thesis, Manitoba, 1970

Department of Agriculture, Farm Management, Working Paper on Production and Marketing of Carrots in the Province of Quebec; a Federal Employment Stimulation Project, Montreal, 1973

Department of Agriculture, Markets Information, Crop and Seasonal Price Summaries; Fresh and Processed Fruits and Vegetables; Maple Products and Honey, annually

Department of Agriculture, Markets Information, Fruit, Vegetable and Honey Market Report, weekly

Department of Agriculture, Production and Marketing Branch, Annual Unload Report, Fresh Fruits and Vegetables on 12 Canadian Markets

Eastern Canadian Producers Conference on Potato Marketing, Report, Ottawa, 1975

Federal Task Force on Agriculture; Papers prepared for the Canadian Agricultural Congress, Ottawa, 1969

Financial Post, Fruit Gets the Squeeze in Niagara, Volume 63, October 11, 1969, p. 15

Hiscocks, G., Marketing Fruit and Vegetables in the 1970's, Canadian Farm Economics, April, 1971

Kidd, J., The Market Outlook for Maritime Potatoes, Canadian Farm Economics, April, 1971

Maclean-Hunter, Food in Canada, c.f. January issue, 1972-1976; February, 1972; March, 1972, 1973, 1975; November, 1975; December, 1975

Manitoba, Vegetable Marketing Inquiry Commission, Report, Winnipeg, 1967

Marzauk, M., An Econometric Analysis of the Supply and Marketing of Apples in Nova Scotia, Canadian Journal of Agricultural Economics, November, 1972

Ontario Food Council, An Inquiry into Matters Relating to the Sale and Distribution of Fruits and Vegetables in the Province of Ontario, Toronto, 1969

Quebec, Commission Royale d'enquete sur l'agriculture au Quebec: La mise en Marche des Fruits et Legumes au Quebec, Rapport, 1967

Rayner, L., Kidd, S., Weijs, H., A Study of the Marketing of Fresh Fruits and Vegetables in Metro Toronto, Dept. Agriculture, Economics Division, Toronto, 1964

Retson, G., Local Markets for Nova Scotia Apples, Canadian Farm Economics, December, 1971

Statistics Canada, Pack, Shipment and Stocks of Selected Canned Fruits and Vegetables and Honey, 32-011, monthly (see also Fruits and Vegetables - Processing)

Statistics Canada, Stocks of Fruits and Vegetables, 32-010, monthly (see also Fruits and Vegetables - Processing)

...stocks in cold and common storage

Statistics Canada, Stocks of Food Commodities in Cold Storage and Other Warehouses, 32-217, annual

...summary tables of stocks by month, by province

Tariff Board, Report...Relative to the Investigation Ordered by the Minister of Finance respecting Greehouse Vegetables, Ottawa, 1969

...on tariff on vegetables, vegetable trade.

Alberta Agriculture, An Inquiry into the Production and Marketing of Vegetables in Alberta, Alberta Agricultural Products Marketing Council, 1973

Alberta, Department of Agriculture, Porter, K.D., A Feasability Study to Determine the Requirements for the Expansion of the Fresh Vegetable Industry in Alberta, 1968

Anderson, R., Michigan's Purple Plums Affect Canadian Market, Canadian Farm Economics, August, 1972

Anderson, R., The Tender Fruit Industry in Canada, Canadian Farm Economics, August, 1973

Burns, J., The Canadian Apple Industry, Canadian Farm Economics, December, 1969

Burns, J., The Mushroom Industry in Canada, Canadian Farm Economics, February, 1971

Burns, J., Some Observations on the Long Term Prospects of the Canadian Peach Industry, Canadian Farm Economics, December, 1968

The Canadian Fruit and Vegetable Industry; A Special Report Prepared for the Federal Task Force on Agriculture, Ottawa, 1969

Canadian Horticultural Council, Fifty Years of Integrity, Leadership, and Liason, Ottawa, 1972

...material on tariffs, markets, trade, development of grades for fruit and vegetables.

Canadian Horticultural Council, Submission on Tariff Reference 152, Fresh and Processed Fruit and Vegetables, 1973

Chudleigh, E.L., Alternatives for the Ontario Tender Fruit Industry, Ontario Food Council, 1972

Department of Agriculture, Apples, Ottawa, 1967

Department of Agriculture, Potatoes, Ottawa, 1971

Duff, J., A Study of the New Brunswick Potato Industry, Its Potential and Limitations, M.Comm. Thesis, Moncton, 1969

Ells, A., The Nova Scotia Fruit Industry, M.A. Thesis, Acadia, 1965

Girrard, G., The Tender Tree Fruit Industry in Canada with Particular Reference to Ontario: An Analysis of Supply and Demand, M.A. Thesis, Ottawa, 1964

Hudson, S., An Economic Study of The Tree Fruit Industry in British Columbia; a Report to the Minister of Agriculture, 1973

Kitson, J., Utilizing and Expanding Western Apple Crops, British Columbia, 1968

Mainprize, L., The Production, Storage and Marketing of Potatoes in Ontario, 1968, M.Sc. Thesis, Guelph, 1971

Marritt, E.F., A Study of the Ontario Onion Industry with Special Reference to Marketing, Ontario Food Council, 1970

Mukibi, J., The Lettuce Industry in Ontario, M.Sc. Thesis, Guelph, 1969

Mulder, N.G., Nova Scotia Voluntary Planning Board, An Analysis of the Nova Scotia Apple Industry 1930-1970, 1964

Niagara Regional Development Association, Order In the Market Place: A Report on Niagara's Fruit and Vegetables, Grimsby, Ontario, 1963

Ontario Food Council, An Inquiry into Matters Relating to the Sale and Distribution of Fruits and Vegetables in the Province of Ontario, Toronto, Ontario Department of Agriculture and Food, 1969

Ontario Potato Conference, Proceedings, Ontario Ministry of Agriculture and Food, 1971

Ontario Special Committee on Farm Income, Research Report No. 13, Marketing of Fresh and Processed Fruits and Vegetables in Ontario, Ontario Department of Agriculture and Food, 1969

Ouellette, G.D., New Brunswick Department of Agriculture, The New Brunswick Potato Industry: An Analysis, 1971

Prince Edward Island Department of Agriculture and Forestry, Prince Edward Island Potato Statistics, annual

...production, price, disposition, marketing, transportation statistics

Quebec, Bureau de la Statistique, Division des Produits Vegetaux, Legumes, Vegetables, Annually

Quebec; Ministry of Agriculture, Betterave Sucriere: Recommendations, 1970

Riverin, A., Study on Fruits and Vegetables, Sherbrooke,1968

Siddiqui, R., Pear Production in Canada, Canadian Farm Economics, December, 1968

Siddiqui, R., Prospects for Strawberry Production, Canada, in Canadian Farm Economics, April, 1969

Statistics Canada, Greenhouse Industry, 22-202, annual

Abraham, F., Green Peas, Sweet Corn and Green and Wax Beans for Processing; Production Costs and Returns to Risk and Management, Ontario Ministry of Agriculture and Food, 1975

Canadian Food Processors Association, Brief to the Canadian Government on the Peach, Pear and Apricot Processing Industry, 1967

Canadian Horticultural Council, Submission on Tariff Reference 152; Fresh and Processed Fruit and Vegetables, 1973

Department of Industry, Trade and Commerce, Food Products, Canadian Tomato Paste Program, 1966

...production, processing, marketing.

International Symposium on Utilization and Disposal of Potato Wastes, Fredericton, New Brunswick; Proceedings, 1966

Mohr, W., Adair, R., Processing Qualitites of Apple Variations and Selections, Ottawa, 1970

Ontario Ministry of Agriculture and Food, Peas for Processing, Toronto, 1970

Pando, J., Factors Affecting the Production of Tomatoes for Processing, Canadian Farm Economics, June, 1969

Pearson, G., The Economics of Ethyl Alcohol Production with Particular Reference to Potatoes as a Raw Material, Canadian Farm Economics, February, 1969

Rayner, L.C., Financial Analysis of Certain Independent Fruit Processors in the Niagara Peninsula in Ontario, 1961-1962, Ottawa, 1963

Statistics Canada, Canned and Frozen Processed Foods, 32-212, annual

...annual pack and disappearance of canned and frozen fruit and vegetables and other processed foods.

Statistics Canada, Field Crop Reporting Series, 22-002, periodically, seasonally

...production, value, stocks

Statistics Canada, Fruit and Vegetable Crop Reports, 22-003, periodically

Statistics Canada, Fruit and Vegetable Preparations, 32-017, quarterly

...productions and stocks of jams, baked beans, soups, vinegar, etc.

Statistics Canada, Fruit and Vegetable Preservation Service Bulletin, 32-023, monthly

...annual pack of canned and frozen fruit and vegetables by region, container, size and grade

Statistics Canada, Fruit and Vegetable Processing Industries, 32-218, annual

Statistics Canada, Handbook of Agricultural Statistics Part I Field Crops, 21-507 and 21-516, occasional

...production, supply disposition, value

Statistics Canada, Miscellaneous Food Preparation, 32-018, quarterly (see also Miscellaneous Products - Processing)

...production of mustard, peanut butter, salad dressing, sandwich spreads

Statistics Canada, Pack, Shipment and Stocks of Selected Canned Fruits and Vegetables and Honey, 32-011, monthly (see also Fruits and Vegetables-Distribution)

Statistics Canada, Stocks of Fruits and Vegetables, 32-010, monthly (see Fruits and Vegetables - Distribution)

...stocks in cold and common storage

Barry, M., An Analysis of the Potential Institutional Demand In Processed Desserts for British Columbia Tree Fruits, M.B.A. Thesis, U.B.C., 1970

Bucknall, J., A Spatial Equilibrium Model of Potatoes Marketed in Eastern Ontario, M.Sc. (Agr.) Guelph, 1965

Canadian Food Processors Association, Statement Regarding Processed Fruit and Vegetables Trade and Tariff, July 1976

Canadian Food Processors Association, Whole Peeled Canned Tomato Brief to Department of Finance, January 1977

Ewanyk, L., Potatoes and Potato Products: Consumer Opinions and Retail Practices, M.Sc. Thesis, Alberta, 1972

Hiscocks, G.A., Marketing Fruit and Vegetables in the 1970's, Canadian Farm Economics, April 1971

McCains Enters American Market with Institutional Frozen Potatoes, Quick Frozen Foods, Volume 32, October, 1969, pp. 313-314

New Brunswick Department of Agriculture, Plant Industry Branch Selected Potato Statistics, annual

New Products: Canada's Quick-Drying Surprise (Vegetables), In Sales Management, Volume 107, September 20, 1971, p. 44

Ontario Ministry of Agriculture and Food, Farm Roadside Marketing in Ontario, 1975

Ooraikul, B., Processing of Potato Granules With the Aid of Freeze-Thaw Technique, Ph.D. Thesis, Alberta, 1973

Rudder, W., The Market Potential for Greenhouse Tomatoes in Manitoba, M.Sc. Thesis, Manitoba, 1972

Silva, W., Some Aspects of the Development of the Fruit and Vegetable Canning Industry in Southern Ontario, M.A. Thesis, Toronto, 1962

Stone, G., Costs of Production and Fresh Market Preparation of Manitoba Potatoes, 1969, M.Sc. Thesis, Manitoba, 1970

Williams, J., Changes in the Production and Processing of Tomatoes in Ontario, 1941-1963, M.S.A. (Agr.) Thesis, Guelph, 1966

Meat (Red)

Hassan, Z., Katz, L., The Demand for Meat in Canada, Canadian Journal of Agricultural Economics, February, 1975

Sulzenko, B., Consumer Demand for Beef in Canada, Ottawa, 1973

Statistics Canada, Estimates of Production and Disappearance of Meats, 32-220, annual

...annual and five-year averages of production, imports, exports and apparent domestic disappearance by kinds of meat

Boswell, A., The Changing Economic Profile of Canada's Beef and Veal Trade, Canadian Farm Economics, October, 1973

Canadian Transport Commission, Transportation Factors and the Canadian Livestock and Meat Industries, Research Branch Report, E.S.A.B. 75-19, November, 1975

Carlson, G., Transportation Costs as a Factor in the Competitive Position of Livestock Slaughter Plants in the Prairie Regions of Canada, M.Sc. (Agr.) Thesis, Saskatchewan, 1964

Commission of Inquiry into the Marketing of Beef and Veal Special Report 1975

Fast, H., Transportation of Livestock and Livestock Products in Canada: A Descriptive Analysis, M.Sc. Thesis, Manitoba, 1969

Gainer, W., Drugge, S., Knowles, R., Economic Analysis of the Effect of Transport Rates on Products of the Industrial Chemical and Meat Packing Industry with Special Rference to Edmonton, Report for the Canadian Transport Communications, Department of Economics, University of Alberta, 1973

Jacobs, P., Supply Area Optimization in the Western Canadian Hog Market, M.Sc. Thesis, Manitoba, 1970

Lowe, J., The Japanese Hog-Pork Sector: Some Implications for Canadian Pork Exports, Canadian Farm Economics, August, 1974

Manitoba Select Committee Appointed to Enquire into All Phases of the Livestock Marketing System in Manitoba, Report on Livestock Marketing in Manitoba, 164

Marshall, R.G., A National Research Program for the Marketing of Canadian Cattle and Beef, 1970

Martin, L., Commodity Futures Markets - Hedging Opportunities for Ontario Pork Producers, University of Guelph, 1976

McLean, W., Market Segmentation for the Beef Industry, M.B.A. Thesis, Alberta, 1973

Morris, J.L., Funk, T.F., Courtenay, H.V., Consumer Attitudes to Meat and Meat Products, University of Guelph Working Paper, March 1974

Norby, R., An Evaluation of Retail Pork Promotion by Producers, M.Sc. Thesis, Alberta, 1974 (see also Meat (Red) - Retailing)

Ontario, Special Committee on Farm Income, Marketing of Beef and Pork in Ontario, Toronto, 1969

Statistics Canada, Estimates of Production and Disappearance of Meats, 32-220, annual (see also Meat (Red) - Processing)

...production, imports, exports, domestic disappearance

Statistics Canada, Selected Meat and Meat Preparations, 32-020, monthly

...value of shipments to domestic markets and export markets

Statistics Canada, Stocks of Food Commodities in Cold Storage and Other Warehouses, 32-217, annual

...summary tables of stocks by month and by province

Statistics Canada, Stocks of Frozen Meat Products, 32-012, monthly

Ultrich, M., Price Differentials Between Selected Livestock Marketing Channels, M.Sc. (Agr.) Thesis, Manitoba, 1964

Wood, A., Consumer Interest in Hog Marketing Boards; A Report Prepared for the Canadian Consumer Council, Ottawa, 1974

Agricultural Economics Research Council, Canada's Livestock-meat System, 1973

Agricultural Economics Research Council, The Economics of Beef, 1974

...updated report to be released April 1977.

Agricultural Economics Research Council, An Economic Model of the Canadian Red-Meat System, 1974

Canada Packers Limited, Annual Reports

Canada's Beef Industry; Proceedings of the 1970 Workshop of the Canadian Agricultural Economics Society Held at Banff, Alberta, June, 1970, Canadian Journal of Agricultural Economics, 1970

Canadian Pork Council, Pork, 1975

Clayton, C., The Canadian Hog Industry, National Economic Conference Support Papers, 1973

Commission of Inquiry into the Marketing of Beef and veal Report, April 1976

Cox, C.B., Vertical Co-ordination from the Meat Industry's Point of View 1972, University of Guelph

Department of Agriculture, Pork, 1975

Department of Industry, Trade and Commerce, Food Products, Meat Research Survey at Universities, Colleges and Government Research Facilities in Canada, Ottawa, 1966

Federal Beef Enquiry, Research Papers, Farm to Retail Price Spreads for Beef in Canada, D. Ricard, April 1976

Federal Beef Enquiry, Research Papers, Organization and Method of Operation of the Canadian Cattle and Beef Marketing System, H.B. Huff and D.J. Clarke, April 1976

Food Prices Review Board, Bacon Report, August 1975

Food Prices Review Board, Beef and Pork in Canada, June 1974

...demand, supply and trade

Food Prices Review Board, Market for Heifer Beef in Canada, January 1975

Food Prices Review Board, A Review of the Canadian Beef Market, November 1974

Gerrity, M., Canada's Meat and Livestock Industry, U.S. Department of Agriculture, 1966

Hawkins, M., North American Hog/Pork Study, Department of Agriculture, 1972

MacEachern, G., Beef Industry Directions - Think Global, 1972

MacEachern, G., The Demand and Competitive Position of Canadian Pork, Agricultural Economics Research Council, 1969

MacEachern, G., What Can Happen to Meat, Egg and Milk Prices? ; An Analysis of the Impact of a Changing Grain Market on Costs of Producing Animal and Poultry Products, Agricultural Economics Research Council, Prepared for Canadian Feed Manufacturers Association, 1974

Marshall, R., Beef and Pork in Canada: Demand, Supply and Trade, Food Prices Review Board, 1974

Marshall, R., An Assessment of Demand, Supply and Trade Relationships Affecting Cattle, Beef, Hogs and Pork Prices in Canada; a Working Paper for the Food Prices Review Board, 1974

McLean, W., Submission to the Royal Commission on Canada's Economic Prospects, Toronto

...on the meat industry, trade, packing houses, etc.

Meat Packers Council of Canada, Bibliography of Material Available from M.P.C. Library, July 1975

...mainly technological articles

Meat Packers Council of Canada, Meat - Canada's Largest Food Industry, 1976-1977 edition

...collection of Statistics Canada and trade information.

Meat Packer's Council of Canada, Canada's Meat Industry, Islington, Ontario, 1971

Meat Packer's Council of Canada, Proceedings of the Annual Meeting, annually

Montigaud, J., La Determination du Prix du Porc au Quebec, Min. d'Agriculture, 1969

Notes: Federal Beef Inquiry, Canadian Farm Economics, October, 1976

Pitfield, MacKay, Ross & Co. Ltd., The Canadian Meat Industry, Toronto, 1973

Statistics Canada, Handbook of Agricultural Statistics Part VI Livestock and Animal Products, 21-514, occasional (see also Meat (Red) - Processing)

...value, output, disposal, production, disappearance, slaughter, marketings, price

Statistics Canada, Livestock and Animal Products Statistics, 23-203, annual (see also Meat (Red) - Processing)

...statistical coverage of livestock population, marketings, animal products

Tape, N.W., Agriculture Canada, Survey of Canadian Meat Research, Resources and Activities, 1972

Topel, D. (Ed.), Yorgason, V., The Pork Industry, Problems and Progress, Canadian Journal of Agricultural Economics, November, 1969

Tryfos, P., The Determinants of Prices and Employment in the Canadian Meat Industry, Canadian Journal of Agricultural Economics, July, 1973

Tryfos, P., An Economic Model of the Canadian Red Meat System for Policy Analysis, 1974

Van Deurzen, A., An Analysis of Alberta's Beef Cattle Industry Problems, M.Sc. Thesis, Alberta 1973

West, D., Smith, H., Instability in the Hog-Pork Industry, Canadian Farm Economics, April, 1973

Yankowsky, Z., The Intermediate and Long-Term Market Outlook for Beef, Canadian Farm Economics, August, 1970

Yorgason, V.W., Canada's Livestock Meat System, 1973

Bronson, H., Canadian Meat Packaging and Farmer Organization, University of Saskatchewan, Department of Economics and Political Science, October, 1967

Bronson, H.E., Saskatchewan Meat Packing Industry: Some Historical Highlights, Sask. Hist., Volume 26, pages 24-37, Winter 1973

Bullen, A.J.M., An Examination of Economic Factors Affecting the Location and Operation of the Beef Packing Industry in Canada with Particular Reference to Alberta, 1972

Dawson, J., A Location Analysis for Hogs Assembly Centres in Alberta, M.Sc. Thesis, Alberta, 1971

Department of Agriculture, Beef and Veal Grading in Canada, Ottawa, 1969

Financial Post, Packers Shift Plants Closer to Cattle, Volume 61, April 8, 1967, p. 24

Green, R., Hassan, Z., Johnson, S., An Alternative Method for Pricing Pork Carcasses, Canadian Journal of Agricultural Economics, November, 1973

Marketplace, T.V. Program, Hamburger Report, October 20, 1974 in Photocopy. Summary and Comments Dealing with the Results of the Survey of the Bacteriological Quality of Fresh Ground Beef, Undertaken during the Months of July, August, September, 1974

MacIntosh, N., Tsurumi, H. and Y., An Econometric Model of Canada Packer's Limited, Information, Volume 10, No. 3, 1972

MacIntosh, N., Tsurumi, H. and Y., Econometrics for Strategic Planning, Journal of Business Policy, 1973

...on Canada Packers

McLean-Bullen, Anne J., Beef Packing and the Cattlemen: Situation and Prospects in Alberta, Department of Agricultural Economics and Rural Soc., University of Alberta

Montague, J., Trade Unionism in the Canadian Meat Packing Industry, Ph.D. Thesis, Toronto, 1974

Morris, J., Iler, D., Meat Processing Capacity, Food Prices Review Board, Ottawa, 1975

New Brunswick Office of the Economic Advisor, Slaughtering and Meat Processors, 1974

...growth, productivity, size, labour, costs, transportation, markets

Quebec, Enquete Sur le Crime Organise, L'introduction Fraduleuse de Viande Impropre Sur le Marche de la Consommation Humaine et la Fraude en Rapport avec la Viande Chevaline

...on meat inspection, meat-hygenic aspects.

Rose, F., Why the Meat Packers Don't Make a Killing, Financial Post, Volume 67, September 1, 1973, pp. 12-13

Statistics Canada, Estimates of Production and Disappearance of Meats, 32-220, annual (see also Meat (Red) - Distribution)

...production, imports, exports, domestic appearance

Statistics Canada, Handbook of Agricultural Statistics Part VI Livestock and Animal Products, 21-514, occasional (see also Meat (Red) - General)

...value, output, disposal, production, disappearance, slaughter, marketings, price

Statistics Canada, Livestock and Animal Products Statistics, 23-203, annual (see also Meat (Red) - General)

...statistical coverage of livestock population, marketings, animal products

Statistics Canada, Slaughterings and Meat Processors, 32-221, annual

Wiggan, M., A Spatial Equilibrium Model of Swine Marketed Under the Ontario Hog Producers Marketing Scheme, M.S.A. (Agr.) Thesis, Guelph, 1963

Faryna, P., The Consumer Acceptance of Prepackaged Frozen Cuts of Pork in Metro Winnipeg, M.Sc. Thesis, Manitoba, 1972

Food Prices Review Board, Beef Pricing, June 1974

Food Prices Review Board, Beef Pricing II, November 1974

Food Prices Review Board, Beef Pricing III, November 1975

Food Prices Review Board, Pork Pricing, August 1974

Food Prices Review Board, Report on Ground Beef, June 1974

Food Prices Review Board, Retail Beef Prices and Price Spreads, November 1974

Forbes, S., The Relationships Between Consumer Criteria for Choosing Beef and Beef Quality, M.Sc. Thesis, Manitoba, 1973

Lerner, A. and Patil, T.S., Changes in the Meat Market Structure of Grocery Retailing, C. J. Ag. Econ., Volume XIII, No. 1, 1965

MacEarchern, G., Getting Your Money's Worth, British Columbia, 1973

...on beef retailing.

MacFadyen, S., Consumer Attitudes Towards Beef, M.Sc. Thesis, Alberta, 1972

McFadyen, A., Stiles, M., Hawkins, M., A Study of Retailer Awareness in the Marketing of Beef in Alberta, Canadian Journal of Agricultural Economics, July, 1972

McIntosh, C., The Demand for Meat and Dairy Products in Canada with Projection for 1980, Ph.D. Thesis, Alberta, 1972 (see also Dairy Products - Retailing)

McLandress, C., Consumer Acceptance and Sensory Panel Evaluation of the Eating Quality of Beef As Affected by Crossbred and Sex, M.Sc. Thesis, Manitoba, 1972

Norby, R., An Evaluation of Retail Pork Promotion by Producers, M.Sc. Thesis, Alberta, 1974 (see also Meat (Red) - Distribution)

Ontario Food Council, Retail Beef Price Markups in 1974, Trend in Retail Beef Markups, 1974

Ontario Food Council, What Determines the Price of Beef, 1973

Quebec, Commission Royale d'enquete Sur l'Agriculture au Quebec, La Mise en Marche de la Viande et de la Volaille au Quebec; Rapport, 1967

Smith, L., Market Penetration of Alberta and Saskatchewan Pork Products Into the Pacific Regions of the United States, M.Sc. Thesis, Alberta, 1974

Stiles, M., Euanyk, L., McFadyen, S., Hawkins, M., An Evaluation of the Alberta Pork Promotion 1970-71, Canadian Journal of Agricultural Economics, February, 1974

Poultry and Eggs

Statistics Canada, Production of Poultry and Eggs, 23-202, annual (see also Poultry and Eggs - Processing)

...production and consumption of poultry and eggs

Lee, B., An Economic Analysis of Factors Influencing Demand and Prices in the Canadian Poultry Meat Industry, M.Sc. Thesis, Manitoba, 1973

Loyns, R., Lu, W., Characteristics of Demand for Eggs in Canada; An Analysis of Cross-Section and Time-Series Data, Univeristy of Manitoba, 1972

Loyns, R., Lu, W., A Cross-Section and Time-Series Analysis of Canadian Egg Demand, Canadian Journal of Agricultural Economics, July, 1973

Canadian Broiler Council, Proposal for a National Chicken Marketing Plan for Canada, April 1974

Canadian Poultry Review, Donovan Limited Publications, Toronto, monthly (see also Poultry and Eggs - Processing)

...review of poultry and egg production, processing and distribution. Market analyses, international developments, provincial and regional surveys, etc. Overall the emphasis is on poultry and egg production.

Copeland, V., A Study of Broiler Marketing in Alberta, M.Sc. Thesis, ALberta, 1974

Dixon, Wendy Holm, An Analysis of the Effect of Market Regulations in the Broiler Industry in British Columbia and Washington, 1974

Garresh, A.R., Report of the Independent Egg Marketing Survey, British Columbia, 1972

Haymi, Y., Heady, E., Egg Supply Functions in Relation to Technical Change, Canadian Journal of Agricultural Economics, Volume XI, 1963, No. 1

Kidd, J., The Changing Pattern of Turkey Marketings in Canada, Canadian Farm Economics, August, 1969

Kidd, J., Egg Wholesaling in Canada, Canadian Farm Economics, April, 1968

Longmuir, N., Market Regulation of Agricultural Products in Canada: The Case of Poultry Meats, M.Sc. Thesis, Manitoba, 1972

Moncrieff, P., Rizvi, S., Agricultural Economics Research Council, The Broiler Marketing Question, 1974

Ontario Broiler Chicken Producers Marketing Board, 1966-1974 Annual Reports, Balance sheets, production distribution by district and county, planned marketing, etc.

Restrictive Trade Practices Commission, Specials in Eggs (Kingston area, Ont.); included in the Matter of the Inquiry Relating to the Supply and Sale of Eggs in Kingston and Collin's Bay, Ontario, Ottawa, 1967

Statistics Canada, Estimates of Production and Disappearance of Meats, 32-220, annual (see also Poultry and Eggs - Processing)

...production, exports and imports, domestic disappearance

Statistics Canada, Production of Eggs and Poultry, 23-003, monthly (see also Poultry and Eggs - Processing)

...production, disposition, meat supply and disposition

Statistics Canada, Stocks of Dairy and Frozen Poultry Products, 32-009, monthly

...stocks of eggs, poultry meat

Statistics Canada, Selected Meat and Meat Preparations, 32-020, monthly

...shipments to domestic and export markets of canned, fresh, frozen meat

Statistics Canada, Slaughtering and Meat Processors, 32-221, annual

Statistics Canada, Stocks of Food Commodities in Cold Storage and Other Warehouses, 32-217, annual

...summary tables of stocks by province, by month

Statistics Canada, Stocks of Frozen Meat Products, 32-012, monthly

...stocks in cold storage

University of Guelph, Interregional Trade and Market Analysis of Fowl and Chicken in Canada, 1965

Woods, S.W., Some Aspects of the Marketing and Pricing of Broilers in Ontario, Volume VII, No. 7, Canadian Journal of Agricultural Economics, 1963

Alberta, Department of Agriculture, Birds of a Feather, 1970, irregular

Alberta, Poultry Industry Conference, Proceedings, 1965, annually

Canada Poultryman, Farm Papers Limited, New Westminister, British Columbia, monthly (see also Poultry and Eggs - Consumption)

...official organ of the Canadian Egg Producers Council, Canadian Broiler Council and Canadian Turkey Marketing Agency. Generally concerned with poultry and egg production but occasional articles relating to retailing and consumption.

Canada's Who's Who of the Poultry Industry, Farm Papers Limited, New Westminister, British Columbia, annual

...business directory of the Canadian poultry industry

Canadian Egg Marketing Agency, Annual Report, 1972/73

Canadian Egg Producers Council, Proposal for a National Egg Marketing Plan for Canada, Adopted by C.E.P.C., 1972

Canadian Poultry Review, Donovan Limited Publications, Toronto, monthly (see also Poultry and Eggs - Distribution)

...review of poultry and egg production, processing and distribution. Market analyses, international developments, provincial and regional surveys, etc. Overall the emphasis is on poultry and egg production.

Department of Agriculture, Poultry Market Review, weekly; 1965, annually and 1967, quarterly

Dixon, W., An Analysis of the Effect of Market Regulation in the Broiler Industry in British Columbia and Washington, M.Sc. Thesis, U.B.C., 1974

Emmery, M., The Outlook for Poultry Meat in Canada to 1980; a Study of Factors Affecting Supply and Demand, Department of Agriculture, 1967

Food Prices Review Board, Broiler Chicken Prices II, October 1975

Food Prices Review Board, Notes for Panel Discussion; Annual Meeting of the Canadian Hatchery Foundation, Quebec City, August, 1974

Hill, J., Structure and Concentration in the Canadian Poultry Meat Industry, Canadian Farm Economics 1(2): 5-13, June, 1966

Hill, J., Vertical Integration and the Poultry Meat Industy, Canadian Farm Economics 1(3): 8-13, August, 1966

Hurnanen, R.R., Vertical Intergration and Concentration in the Alberta Broiler Industry, Edmonton, Distribution by Department of Extension, University of Alberta, 1970

Kates, Peat Marwick and Company, Egg Marketing In Alberta, Report to Agricultural Products Marketing Council, Alberta Department of Agriculture, Edmonton, 1974

Longmuir, N., Market Regulation of Agricultural Products; the Case of Poultry Meats, Ottawa, National Library Thesis Division, 1972

Loyns, R., Poultry Marketing Boards and Canadian Consumers; a Review of Consumer Interest in Market Regulation of the Canadian Poultry Industry, For Canadian Consumer Council, Ottawa, 1974

MacEachern, G., Bullen, A., A Case of Eggs; Report of a Study of the Newfoundland Egg Industry Conducted in Connection with the Enquiry into the Newfoundland Egg Industry, Agricultural Economics Research Council, Ottawa, 1974

Maclean-Hunter, Food in Canada, c.f. December, 1974; March, 1975

National Farm Products Marketing Council, Report of Study into Concerns Raised in Food Prices Review Board's Study on Eggs, 1974

National Farmers Union, Submission to National Farm Products Marketing Council on Proposals for a National Egg Marketing Plan for Canada, Calgary, 1972

National Farm Products Marketing Council, Proceedings of Hearings into the C.E.M.A. Pricing Formula, Ottawa, 1976

National Farm Products Marketing Council, Proceedings of the Public Hearings: Proposal for a National Egg Marketing Plan, Ottawa, 1973

Ontario Commodity Council, Submission of the Ontario Commodity Council to the National Farm Products Marketing Council on the Proposal for a National Chicken Marketing Plan, May 1974

Ontario Royal Commission to Inquire into the Egg Industry, Inquiry into Egg Marketing, B. Prouse Reporting Services, 1971-1972

Ontario Special Committee of Farm Income Research Report No. 12, Marketing of Poultry and Eggs in Ontario, Ontario Department of Agriculture and Food, 1969

Poultry in Canada, Hensall, Ontario, 1974, Annually

Poultry Products Institute of Canada, Minutes of the Annual Meeting, 1951-1970

Quebec, Bureau de la Statistique, Statistiques Avicoles, Poultry Statistics, Monthly

Rizvi, S., Marketing Boards in Canada: An Evaluation of their Quota Policies with Special Reference to the Broiler Chicken Industry, Ph. D. Thesis, Alberta, 1974

Ross, J.F., Royal Commission Appointed to Inquire into the Egg Industry in Ontario, 1972

Snyder, S., Orr, H., Ontario, Department of Agriculture, Poultry Meat; Processing, Quality Factors Yield, Toronto, 1964

Statistics Canada, Estimates of Production and Disappearance of Meats, 32-220, annual (see also Poultry and Eggs - Distribution)

...production, exports and imports, domestic appearance

Statistics Canada, Miscellaneous Food Preparations, 32-018, quarterly

...production of dried and powdered eggs

Statistics Canada, Poultry Processors, 32-227, annual

Statistics Canada, Production of Poultry and Eggs, annual (see also Poultry and Eggs - Consumption)

...production and consumption of poultry and eggs

Statistics Canada, Production of Eggs and Poultry, 23-003, monthly (see also Poultry and Eggs - Distriubtion)

...production, dispostion, meat supply

Wind, F., Locational Flow Analysis of the Ontario Broiler Chicken Industry, M.A. Thesis, Waterloo Lutheran, 1969

Agricultural Economics Research Council, Egg Prices, 1974

Agricultural Economics Research Council, Turkey Prices, 1974

Food Prices Review Board, Broiler Chicken Prices, January 1975

Food Prices Review Board, Report on Egg Prices, January 1974

Food Prices Review Board, Report on Egg Prices II, August, 1974

Gowa, G., The Behaviour and Marketing Margins of Grade A Large Eggs in Toronto, 1951-1965, M.Sc. (Agr) Thesis, Guelph, 1966

Loh, M., The Price Structure of the Shell-Egg Market in Ontario, Ontario Ministry of Agriculture and Food, 1973

Sugar

British Columbia, Bureau of Economics and Statistics, The Confectionery Industry in British Columbia, Victoria, 1971

Burns, J., Honey, Canadian Farm Economics, October, 1971

Canadian Commission on Sugar Analysis, Minutes of a Meeting of the Executive and of the Annual Meeting, annually

Canadian Sugar Institute, The Story of Sugar, Toronto

Department of Agriculture, Honey, 1969

Food Prices Review Board, Sugar Prices and Policy, July 1974

Canadian Sugar Institute, The Story of Sugar; and Sugar - A Fact Sheet

Manitoba, Department of Agriculture, The Story of Honey, Winnipeg, 1977

Ontario, Department of Agriculture, Honey and How to Use it, Toronto, 1963

Ontario, Department of Agriculture, Ontario Honey, Toronto, 1966

Quebec, Division des Produits Vegetaux, Miel, 1973, annually

Robertson, H., The Manitoba Sugar Beet Industry in Story and Pictures, The Manitoba Beet Growers Association, 1968

Statistics Canada, Honey Production, 23-007, semi-annual

...honey production and value

Statistics Canada, Production and Value of Maple Products, 22-204, annual

Statistics Canada, The Sugar Situation, 32-013, (see also Sugar - Processing)

...stocks, landings, sales

Tariff Board, Report...Relative to the Investigation Ordered by the Minister of Finance Respecting Sugar, Ottawa, 1971

Financial Post, Waste Sugar Refinery Shows How to Solve Problem (Manitoba Sugar Company), January 28, 1969

Food Prices Review Board, Sugar Prices II: The Canadian Sugar Refining Industry, August 1975

McTachlin, S., Sugar Refiners Get Set for a Showdown, in Financial Times, October 16, 1973

Statistics Canada, Cane and Sugar Beet Processors, 32-222, annual

Statistics Canada, Production and Value Estimate of Honey, 23-209, semi-annual

Statistics Canada, Production and Value of Maple Products, 22-204, annual

Statistics Canada, Productivity Trends in Industry, Indices of Output Per Person Employed and Per Man-Hour: Sugar Refineries, 14-506, last publ. 1959-69

...general description of industry, net capital stock, salaries/unit of output

Statistics Canada, The Sugar Situation, 32-013 (see also Sugar - General)

...stocks, landings, sales

Sievant, L., A Study of Colour Measurements of Liquid Honey and of Consumer Colour Preferences, M.Sc. Thesis, Guelph, 1974

Vegetable Oils

Al-Zand, O., Canada's Oilseed Sector - An Overview of Marketing and Trade, Canadian Farm Economics, April, 1974

Canadian International Grains Institute, Grains and Oilseeds Handling, Marketing, and Processing, second edition May 1975, (pub. by the Institute)

...institutional and technological emphasis

Canadian Livestock Feed Board and Quebec Department of Agriculture, Feed Protein Conference, 1974

Clarke, D., Loyns, R.M.A., Review of Feed Grains and Protein Meal Prices and their Impact on Livestock Production Costs, Food Prices Review Board, 1974

Department of Industry, Trade and Commerce, Edible Oils Section, Fats and Oils in Canada; Annual Review, Ottawa, 1967

...on oilseeds, soybeans, rapeseed, linseed, fishmeal.

Food Prices Review Board, Canadian Edible Oils, Reference Paper: February 1976

Houck, J., Ryan, M., Subotnik, A., Soybeans and their Products: Markets, Prices and Policy, Canadian Journal of Agricultural Economics, November, 1973

Department of Industry, Trade and Commerce, Food Products, Symposium on Margarine and New Edible Oil Products, Banff, 1968, Proceedings, 1968

Hudson, S., The Feed Protein Market; a Background Study, Ottawa, Office of Minister Responsible for Canadian Wheat Board, 1972

...feed marketing and food protein study group.

Ontario Ministry of Agriculture and Food, The Soybean Industry in Ontario, 1972

Paddock, B., Protein in Meal Markets - Past Performance and Future Prospects, Canadian Farm Economics, August, 1974

...on world, including Canada.

Pattle, C., The Sunflower Industry in Manitoba, M.A. Thesis, Manitoba, 1967

Pattle, C., A Geographic Analysis of the Sunflower Industry in Manitoba, M.A. Thesis, Manitoba, 1972

Rigaux, L., A Preliminary Paper on the Canadian Edible Oils Industry, Food Prices Review Board, February, 1976

...oil oilseeds, soybean, margarine.

Statistics Canada, Oilseeds Review, 22-006, quarterly (see also Vegetable Oils - Processing)

...marketings, stocks, shipments, prices, crushings

Statistics Canada, Oils and Fats, 32-006, monthly (see also Vegetable Oils - Processing, Distribution, Consumption)

...production, stocks, crushings, consumption

Tariff Board, Report...Relative to the Investigation Ordered by the Minister of Finance respecting Oil-seeds, Vegetable Oils Related Products, Ottawa, 1963

Statistics Canada, Margarine, 32-005, monthly, last publ. April, 1966

...monthly and cumulative production data, stocks

Statistics Canada, Oils and Fats, 32-006, monthly (see also Vegetable Oils - General, Distribution, Consumption)

...production, stocks, crushings, consumption

Statistics Canada, Oilseeds Review, 22-006, quarterly (see also Vegetable Oils - General)

...marketings, stocks, shipments, prices, crushings

Statistics Canada, Vegetable Oil Mills, 32-223, annual