Preface

This Portrait of the Canadian Agri-Food System provides a graphical compendium of the Canadian agri-food system. It also compares Canada's macro economic performance indicators with those of its main economic peers and other countries who are important in the world agri-food system, either as producers or consumers of agri-food commodities. The intent of the Portrait is to be an "easy to use" source of information for both senior management and department analysts whose interests vary widely. The Portrait provides a convenient starting point for developing annotated "decks" which have a specific and narrower focus.

This June 1998 version of *A Portrait of the Canadian Agri-Food System* updates the information contained in the December 1996 version, and includes only those graphics where updated information is available. To further reduce the size of this mid-year revision of the Portrait, the provincial agri-food system overviews or provincial level details of the farm and agri-food processing sectors are not included. (This pattern for the mid-year update of the Portrait will be adhered to in the future as well). Please refer to the December 1997 version of the Portrait if you are interested in the provincial detail.

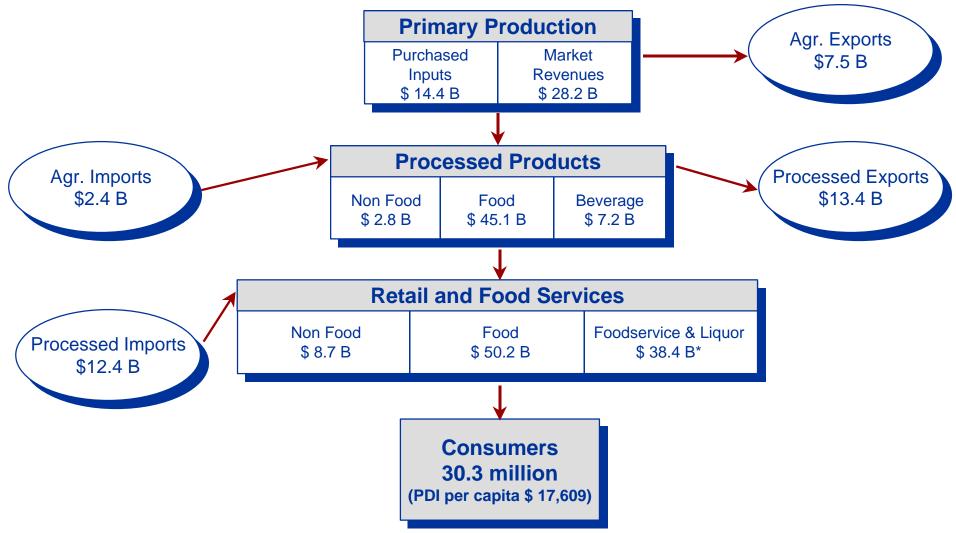
For further information about A Portrait of the Canadian Agri-Food System, please contact Jeff Corman at (613) 759-7415 or e-mail: cormanj@em.agr.ca.

Agri-Food System: Structure, Growth and Employment

Section 1

Canada

Agri-Food System Value of Gross Output, 1997



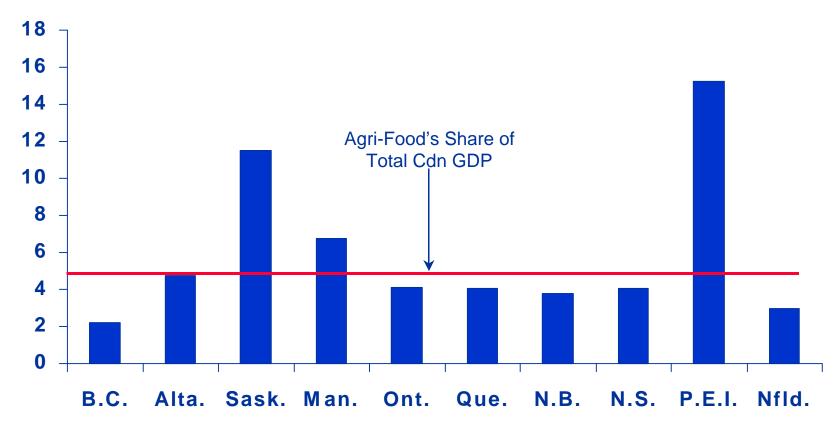
*Note: 1996 data

Sources: Statistics Canada - Cansim, Agriculture Economic Statistics, Family Expenditures in Canada, AAFC - Farm Income, Financial Conditions and Government Assistance Data Book, Trade Database.

Graph 1-1

Agri-Food Share of Provincial GDP, 1997

Percentage



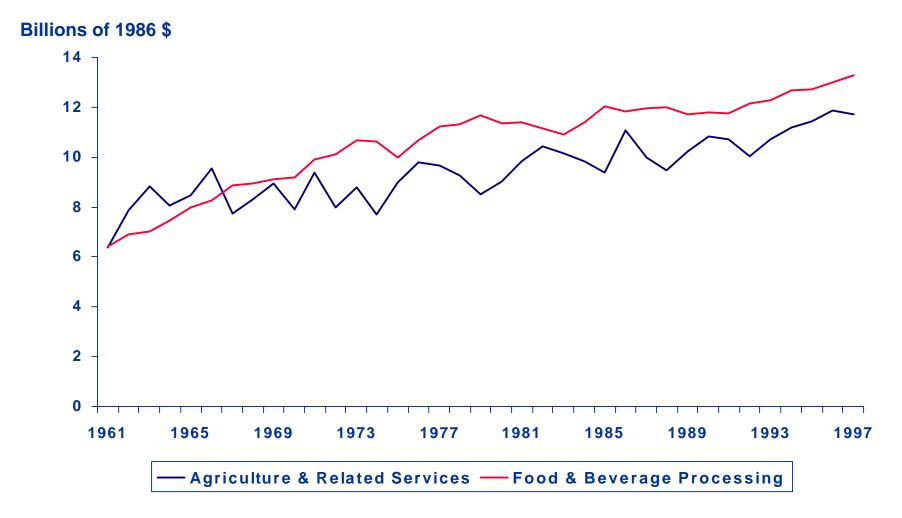
Provincial Shares of Canadian Total GDP and Agri-Food GDP, 1997

Percentage 45 40 35 30 25 20 15 10 5 0 B.C. Alta. Sask. Man. Ont. Que. N.B. N.S. P.E.I. Nfld. ■ % of Total GDP ■ % of Agri-food GDP

Source: Statistics Canada, Cansim.

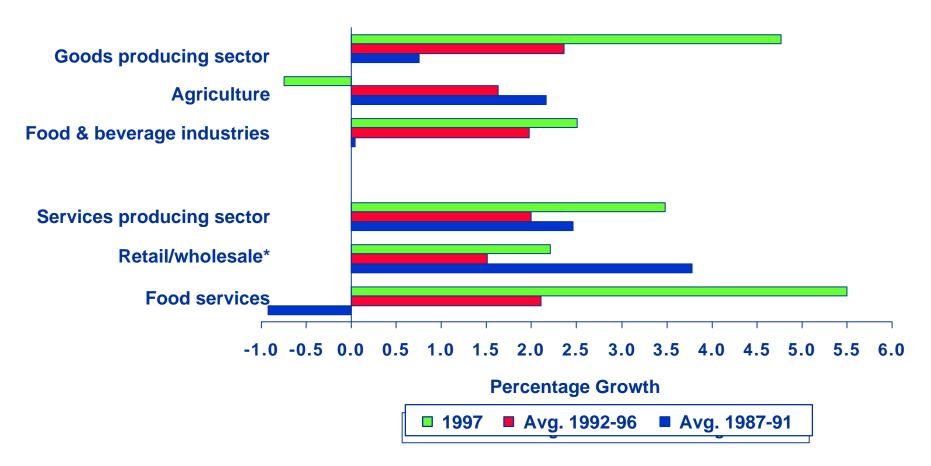
Graph 1-3

Real GDP Growth



Source: AAFC, Farm Income, Financial Conditions and Government Assistance Databook, February 1998.

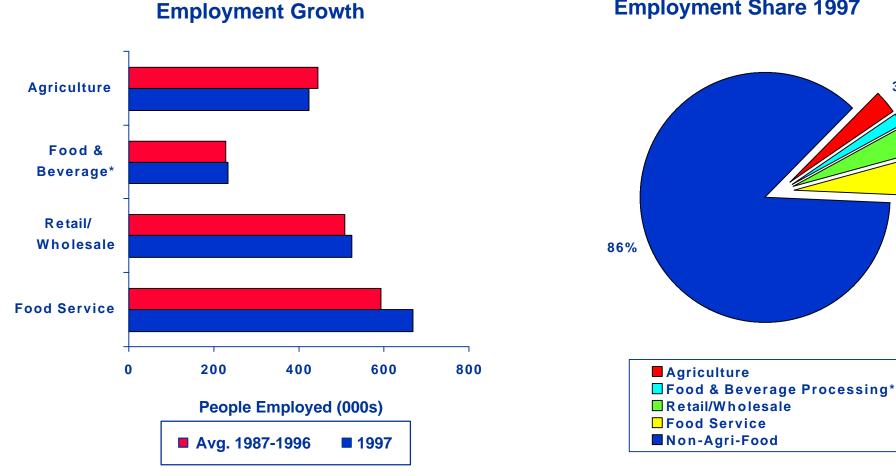
GDP Growth Major Sectors of Agri-Food System Relative to Total Economy



*Note: No available 1997 data for the Retail/Wholesale sector - points shown are for 1996, Ave. 1991-95, and Ave. 1986-91. Source: Statistics Canada, Cansim.



Canada **Agri-Food System Employment**



Employment Share 1997

3%

2% 4%

5%

*Excludes fish processing.

Source: Statistics Canada, Labour Force Survey.

Glossary of Terms

Agri-Food System	Includes the primary agriculture sector, the food & beverage & non-food processing sector, the distribution sector and the food and beverage services sector.
Agri-Food (Provincial & National GDP comparisons)	Includes agriculture and related service industries and food and beverage processing industries.
GDP (Gross Domestic Product)	Total value of final goods and services produced within a nation's border during a year.
PDI (Personal Disposable Income)	Personal income minus personal taxes. Disposable income is either spent on the consumption of goods and services or saved.

Section 1

Canadian Agri-Food Trade

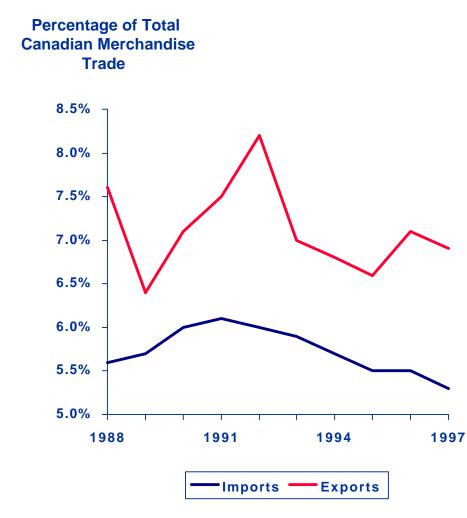
Section 2

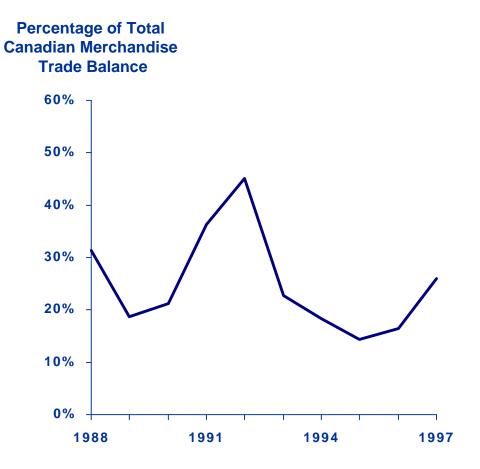
Graph 2-1

Canadian Agri-Food Share of Total Trade

Imports and Exports

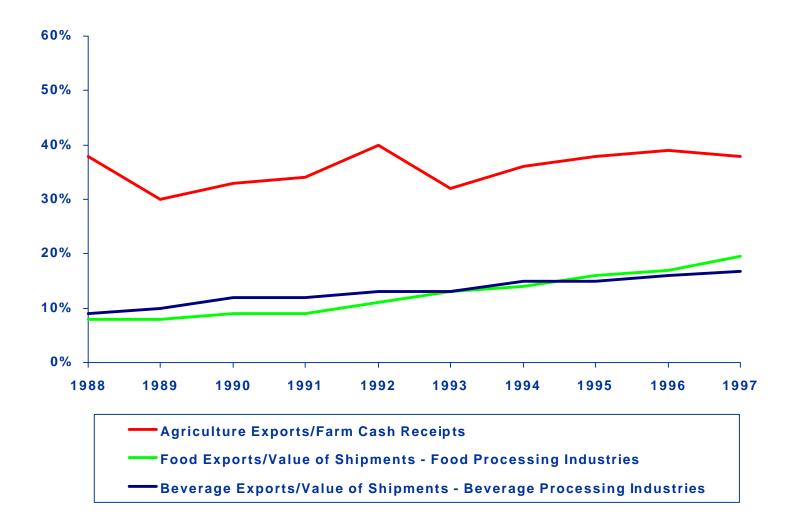
Trade Balance





Source: Statistics Canada, Cansim.

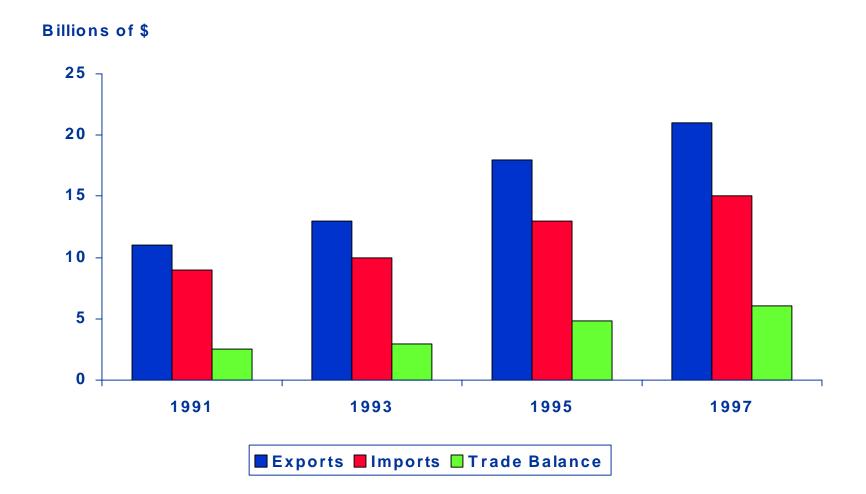
Export Intensity



Source: AAFC Trade Database.

Graph 2-2

Canadian Agri-Food Trade



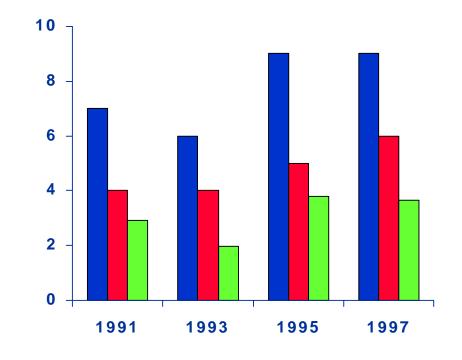
Canadian Agri-Food Trade

Billions of \$

Trade with the US

Trade with the Remainder of the World

Billions of \$

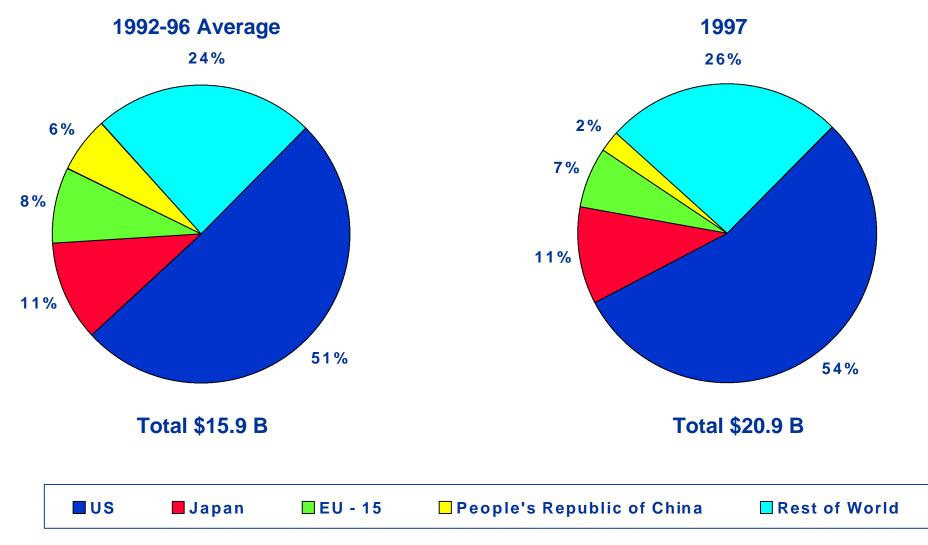


Exports Imports Trade Balance

Source: AAFC Trade Database.

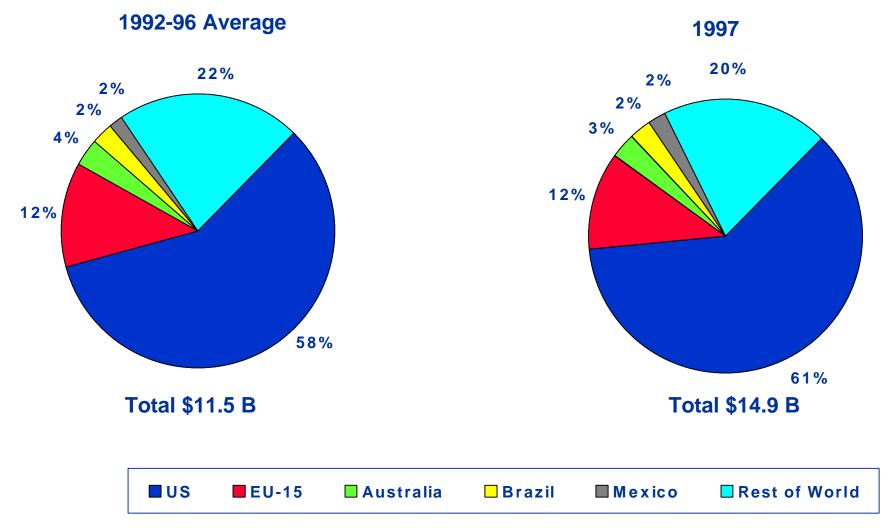
Graph 2-4

Canadian Agri-Food Exports by Destination



Source: AAFC Trade Database.

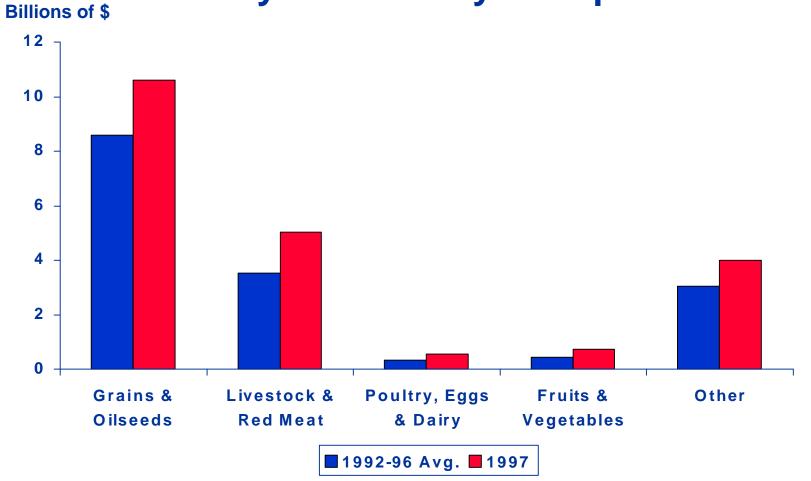
Canadian Agri-Food Imports by Country of Origin



Source: AAFC Trade Database.



Canadian Agri-Food Exports by Commodity Group



Source: AAFC Trade Database.

Canadian Agri-Food Imports by Commodity Group

Billions of \$ 7 6 5 4 3 2 1 0 Grains & Livestock & Poultry, Eggs Fruits & Other Oilseeds **Red Meat** & Dairy Vegetables **1992-96** Avg. **1997**

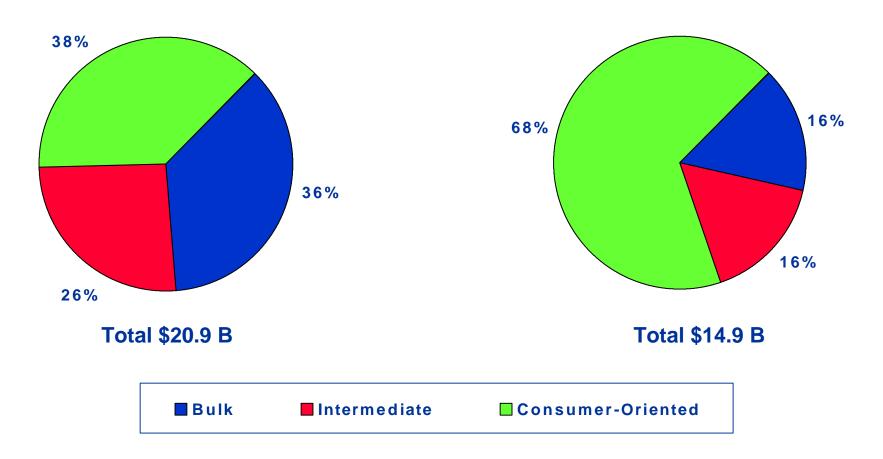
Source: AAFC Trade Database.

Graph 2-8

Canadian Agri-Food Trade by Degree of Processing, 1997

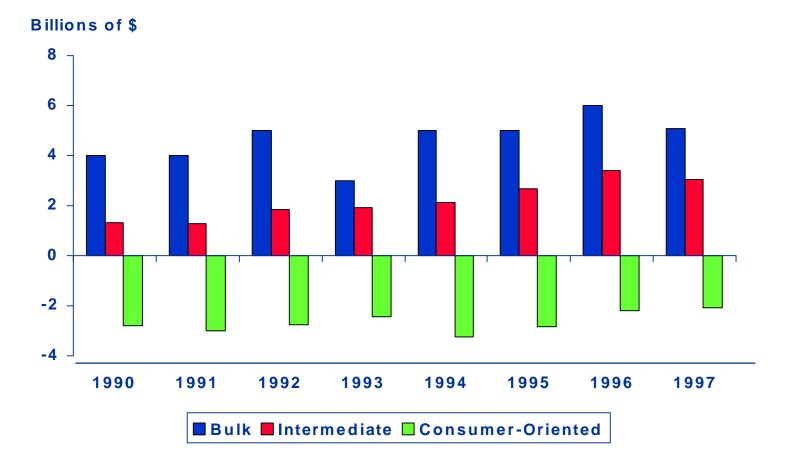


Imports



Source: AAFC Trade Database.

Canadian Agri-Food Trade Balance by Degree of Processing, 1997



Source: AAFC Trade Database.

Graph 2-10

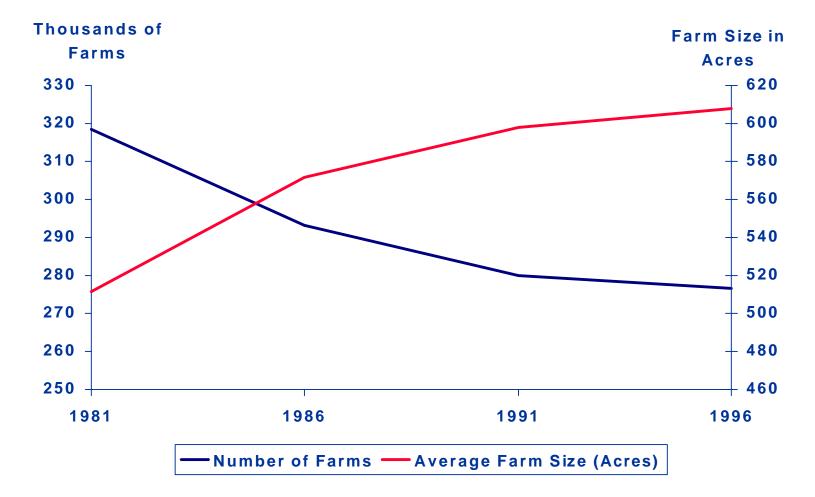
Glossary of Terms

Trade Balance	Exports less imports
Other Commodity Group	Includes potatoes & products, seeds for sowing, maple products, sugar & products, raw tobacco, vegetable fibres, plantation crops, floriculture & nursery products, essential oils, other agri-food products, alcoholic beverages, other beverages excluding juices, manufactured tobacco products, undernatured ethyl alcohol >80% vol.
Export Intensity	The value of agri-food exports as a percentage of total value received from the production of the agri-food products.

Agriculture Sector: Structure and Performance

Section 3

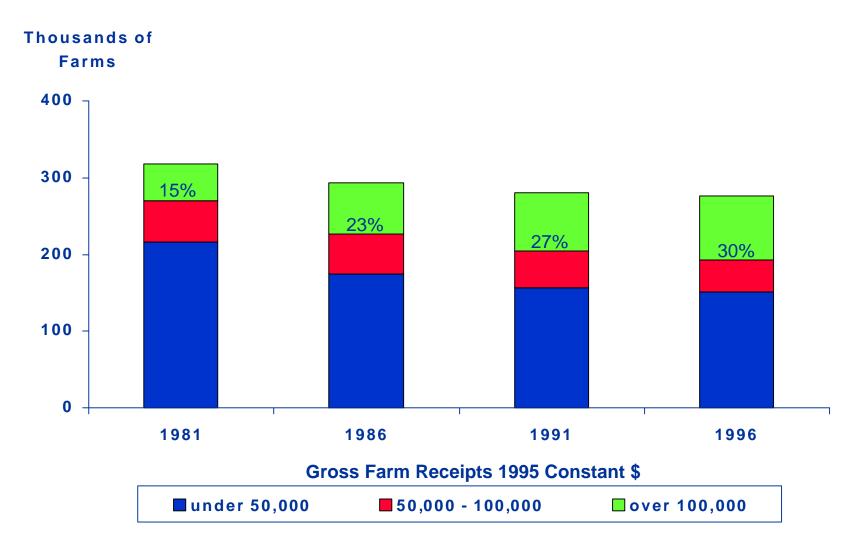
Number and Size of Farms



Source: Statistics Canada, Historical Overview of Canadian Agriculture.

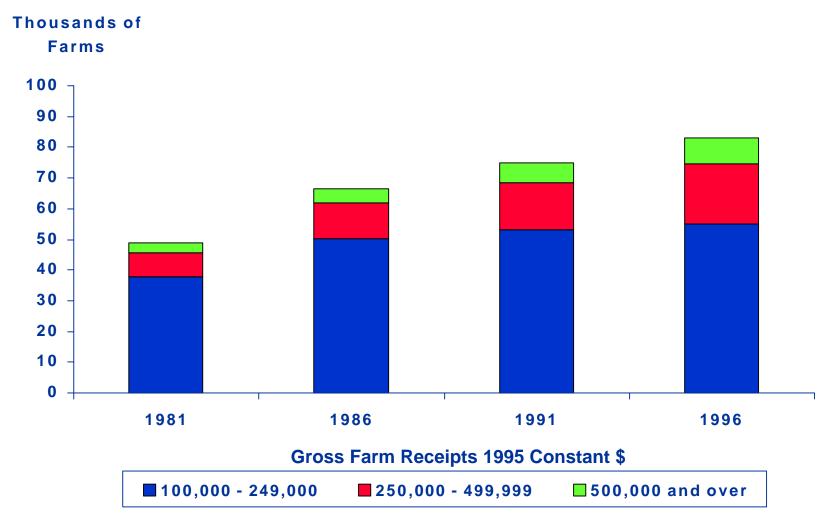
Graph 3-1

Number of Farms by Revenue Class



Source: Statistics Canada, Historical Overview of Canadian Agriculture.

Number of Large Farms by Revenue Class

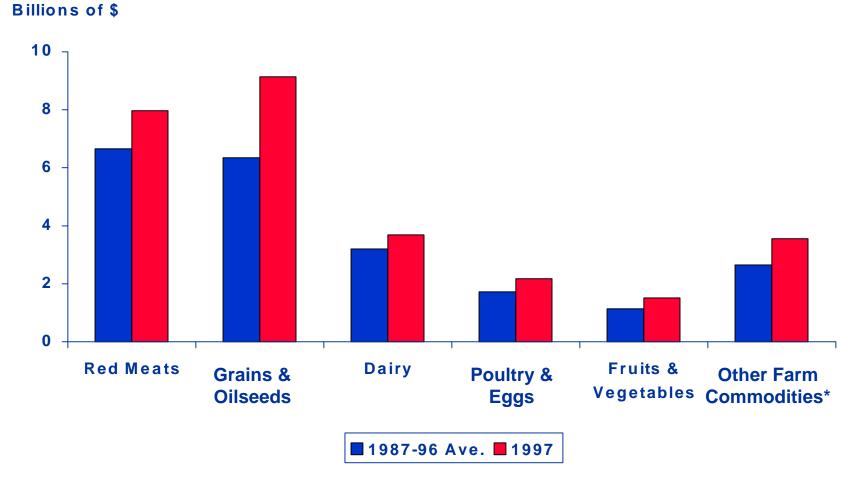


Source: Statistics Canada, Historical Overview of Canadian Agriculture.

Graph 3-3

Canada

Farm Cash Market Receipts by Commodity Group

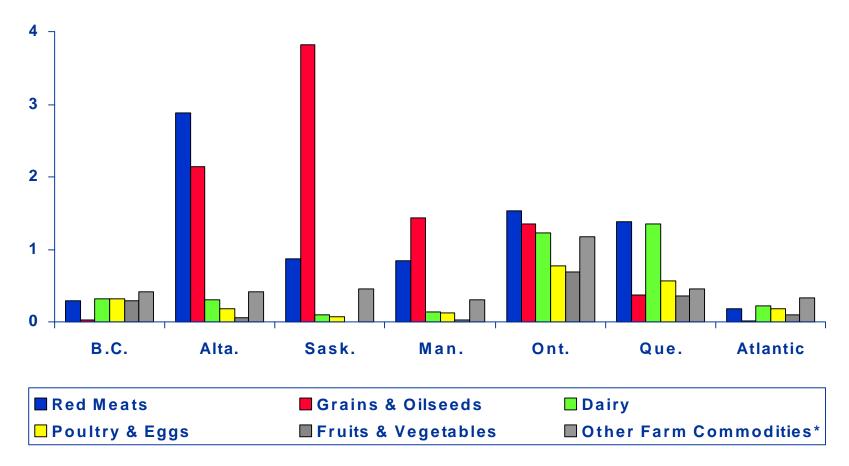


*Includes: Potatoes, Special Crops, Forage, etc.

Source: AAFC Farm Income, Financial Conditions and Government Assistance Databook, February 1998.

Farm Cash Market Receipts by Commodity Group & Province, 1997

Billions of \$

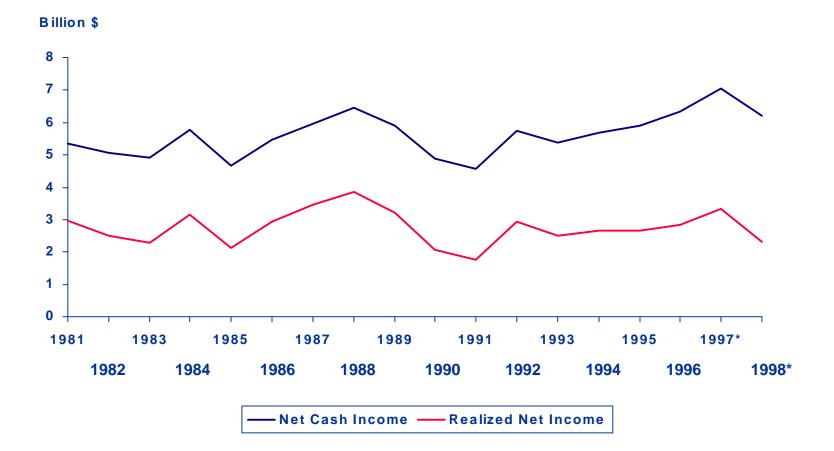


*Includes: Potatotes, Special Crops, Forage, etc.

Source: AAFC Farm Income, Financial Conditions and Government Assistance Databook, February 1998.

Graph 3-5

Canadian Net Farm Income



*Policy Branch, for 1997 and 1998 forecast data.

Source: Agriculture and Agri-Food Canada, Statistics Canada for historical data.

Glossary of Terms

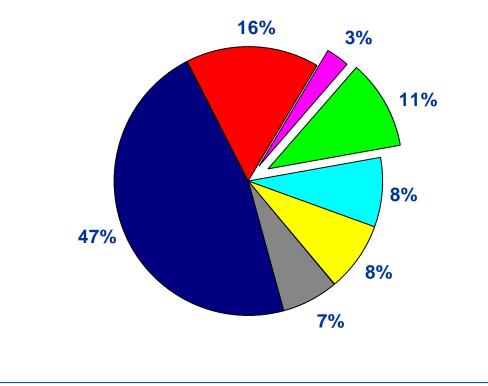
Gross Farm Receipts	Gross farm receipts are compiled from census forms sent to all farms every five years. They include cash income from the sale of agricutural commodities as well as direct program payments to the agriculture sector.
Farm Cash Market Receipts	Farm cash market receipts are compiled from a sample of annual taxfiler data. They include cash income from the sale of agricultural commmodities, but exclude direct program payments.
Land in crops	Includes field crops, vegetables, fruits & nursery crops. Since 1981, it has also included sod.
Other Farm Commodities	Includes sugar beets, potatoes, floriculture & nursery, tobacco, ginseng, mustard seed, sunflower seed, lentils, canary seed, dry beans, dry peas, forage & grass seed, hay & clover, maple products, forest products, misc. crops, wool, honey, fur, misc. livestock.
Farm Type	Commodity which accounts for 51% of the total farm cash receipts.
Farm Income	Net Cash Income: Market Receipts + Government Payments - Operating Expenses Net Realized Income: (Net Cash Income + Income-in-kind) - depreciation.

Section 3

Agri-Food Processing Sector: Structure and Performance

Section 4

Manufacturing Industries GDP Share, 1997

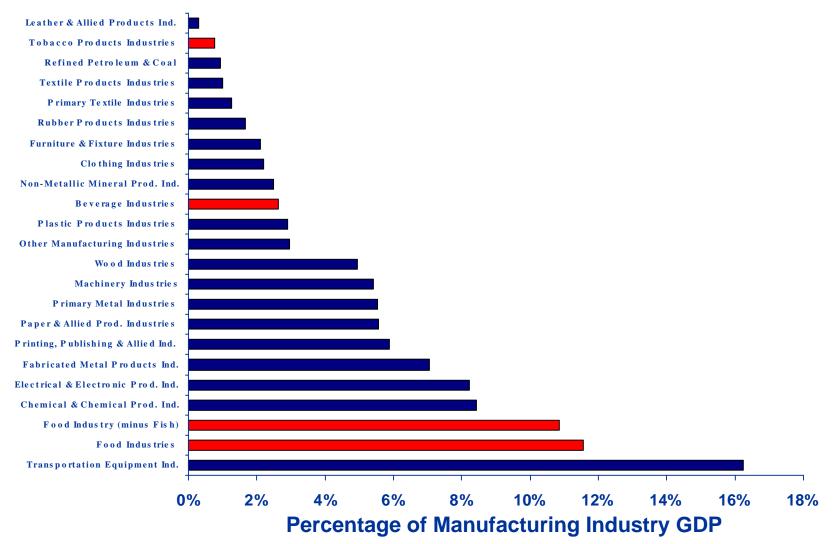




Source: Statistics Canada, Cansim.

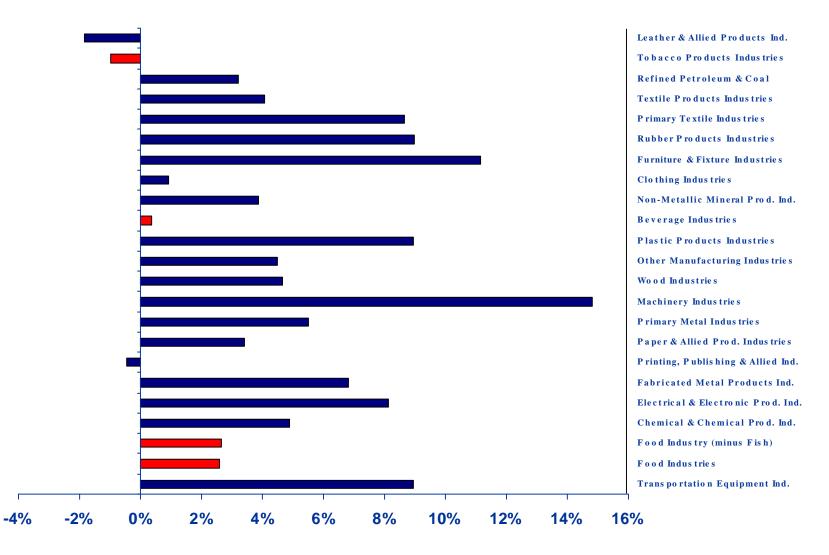
Graph 4-1

Major Industries in Canada, 1997



Source: Statistics Canada, Cansim.

Major Industries in Canada, 1992-97

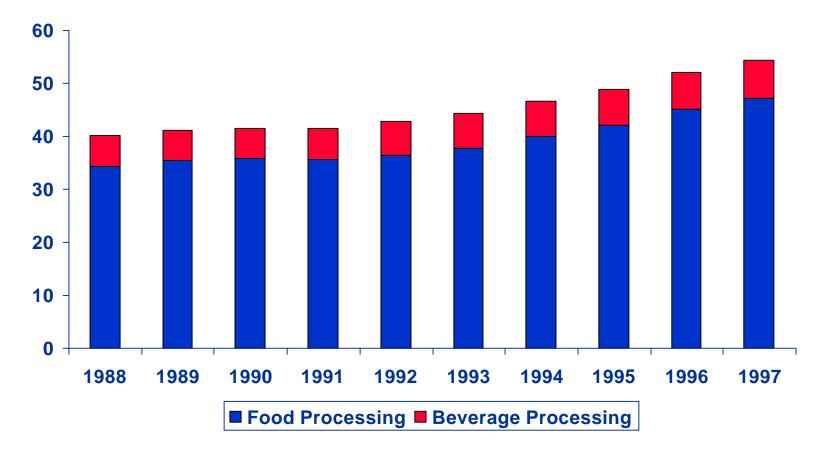


Annual Average GDP Growth Rate

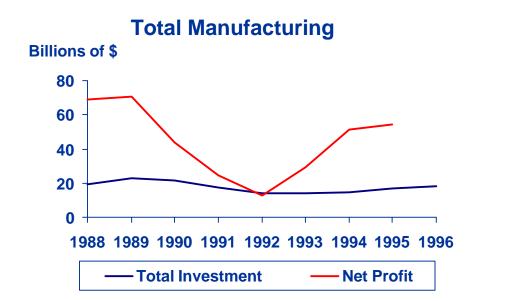
Source: Statistics Canada, Cansim.

Canada Value of Shipments

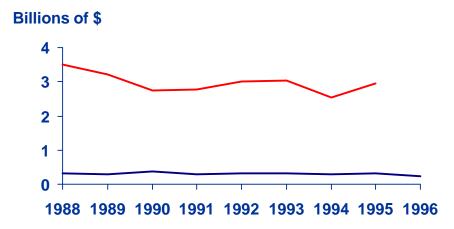
Billions of 1986 \$



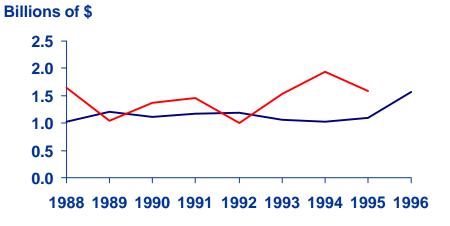
Investment and Net Profit



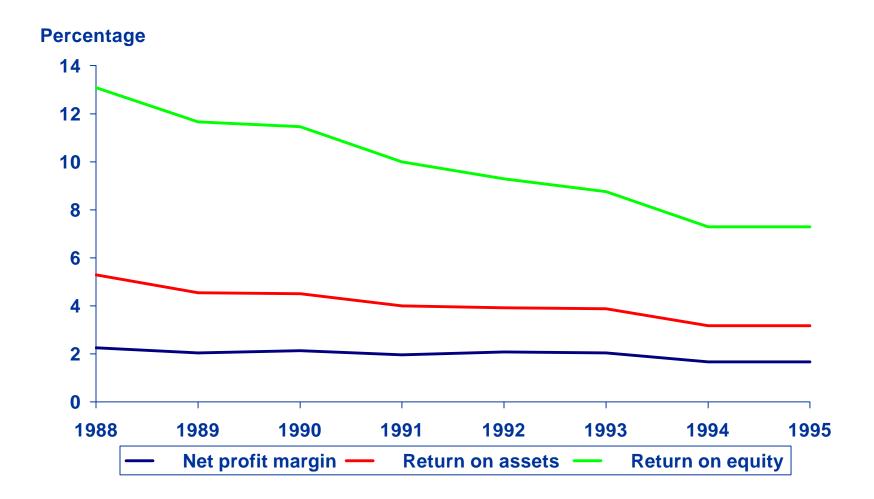
Beverage Processing





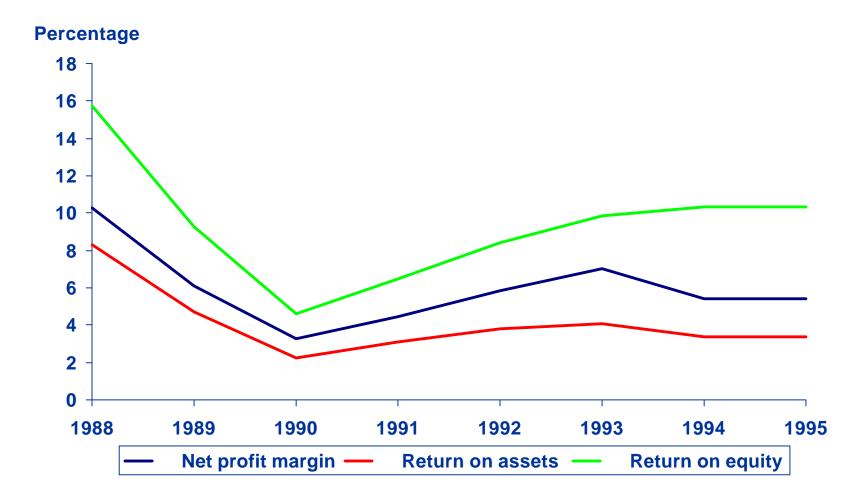


Canadian Food Processing Sector Profitability Measures



Source: Special Tabulations obtained from Statistics Canada, Business Finance and Taxation.

Canadian Beverage Processing Sector Profitability Measures



Source: Special Tabulations obtained from Statistics Canada, Business Finance and Taxation.

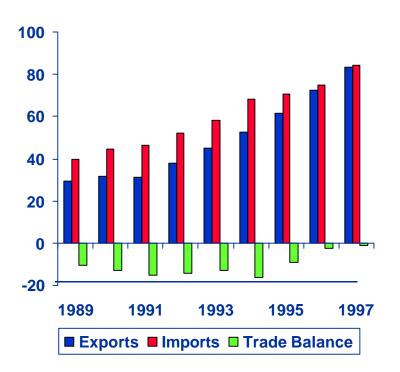
Graph 4-7

Value of Trade

Food Processing Sector

Billions \$

Beverage Processing Sector



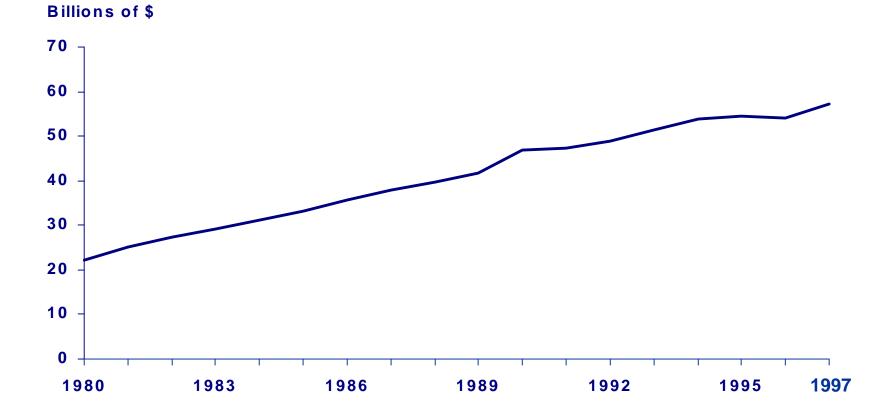
Billions \$



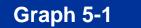
Sources: Statistics Canada, BID; Industry Canada, Canadian Industry Statistics.

Retail and Food Service Sector: Structure and Performance

Canadian Retail Food Sales



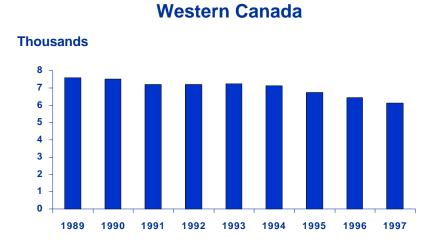
Source: Canadian Grocer, February 1991 and February 1998.



Number of Retail Food Outlets

1989

1990



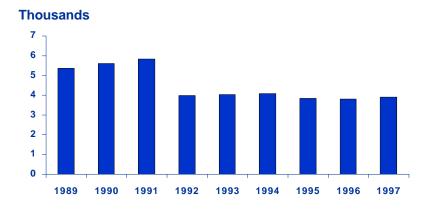
Thousands

1992

1991

Central Canada

Atlantic Canada



Canada

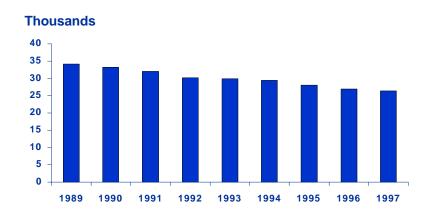
1993

1994

1995

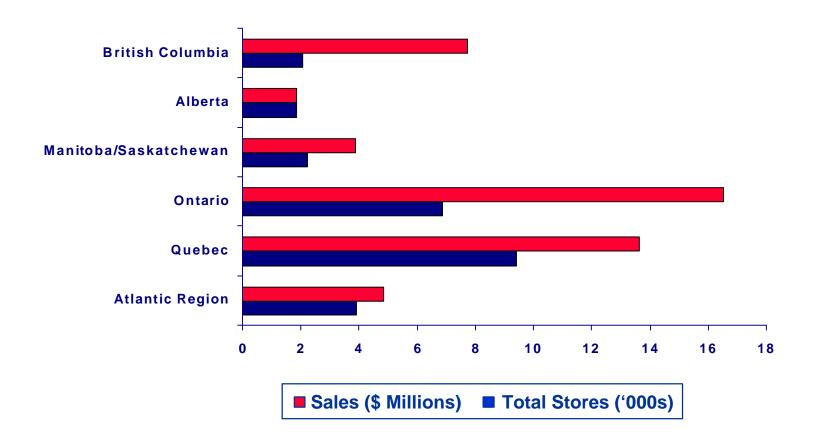
1997

1996

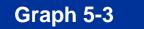


Source: Canadian Grocer, February 1998.

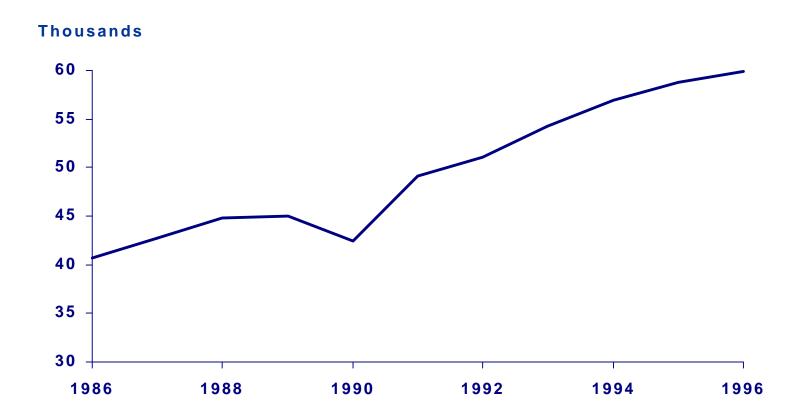
Canadian Food Store Sales, 1997



Source: Canadian Grocer, February 1998.



Number of Commercial Food Service* Establishments

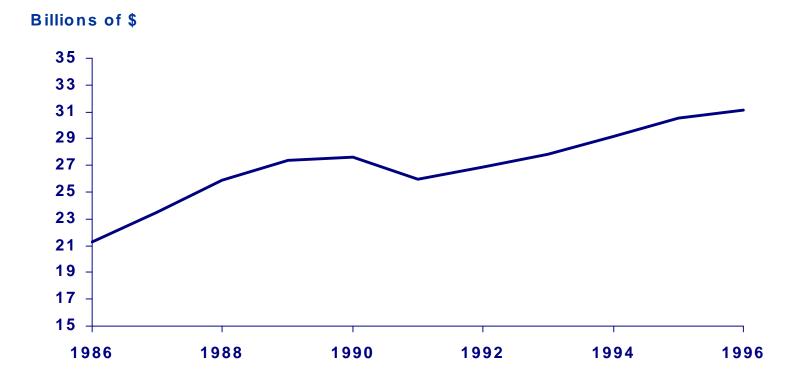


Note:

*Restaurants (licensed and unlicensed), Take-out & Delivery, Social/Contract Catering and Pubs/Taverns/Lounges
1995 and 1996 data are estimates only.

Sources: CFRA's InfoStats and Statistics Canada.

Commercial and Institutional Food Services* Sales



Notes:

1) *Includes Restaurants, Pubs/Taverns, Vending, Hotel/Motel, Take-out & Delivery, Leisure Industry, Department Stores (but not Drug Stores), Social/Contract Caterers, Institutions.

2) 1995 and 1996 data are estimates only.

Sources: CFRA's InfoStats and Statistics Canada.

Graph 5-5

Glossary of Terms

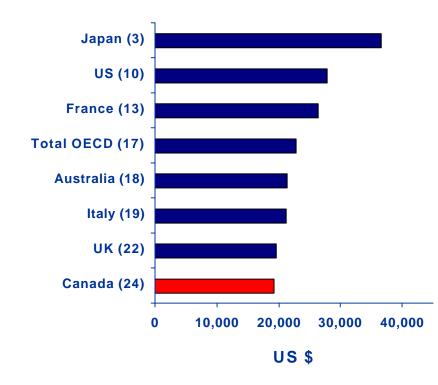
Commercial & Institutional Food Sales	Includes sales from restaurants, pubs & taverns, vending, hotel/motel, take-out & delivery, leisure industry, department stores, social/contract caterers, institutional foodservices
Food Service Establishments	Includes restaurants (licensed and unlicensed), take-out and delivery, social/contract caterers, and pubs/taverns/lounges
Food Store Sales	Includes chain stores, independents, but does not include food sales through department stores or specialty stores (i.e., bakeries, butchers, etc.)
Retail Food Sales	Includes chains, independents, department stores, all other food stores (specialty food stores, butchers, warehouse clubs, bakeries, etc.) but does not include food sold through drug stores (estimated at 2.4% of retail food sales)
CFRA	Canadian Foodservice and Restaurant Association

Performance Indicators: International Comparisons

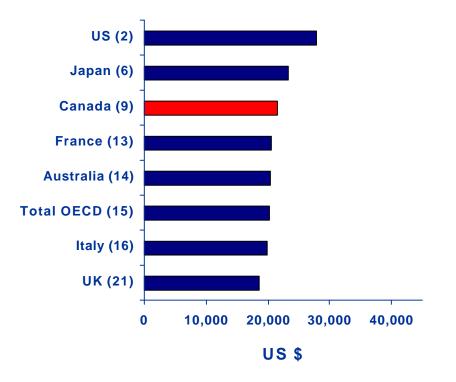
Section 6

GDP - 1996

GDP Per Capita Exchange Rate Basis



GDP Per Capita Purchasing Power Parities Basis



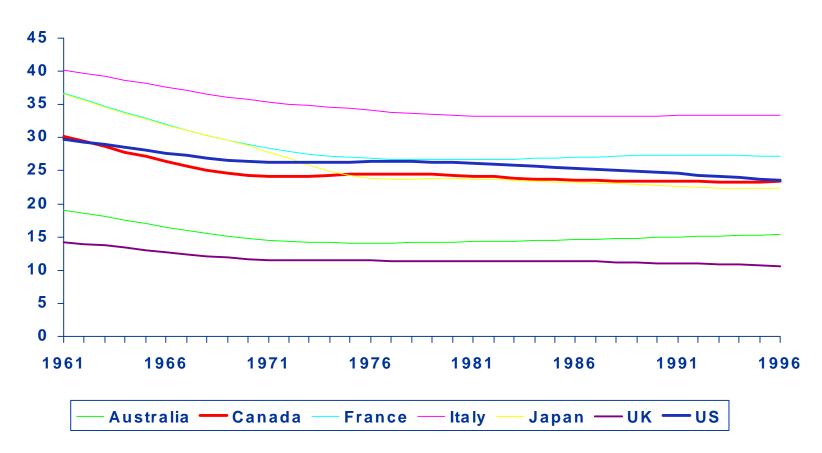
Note: Numbers in brackets represent OECD ranking.

Source: OECD National Accounts.

Graph 6-1

Rural Population as a Percentage of Total Population

Percentage

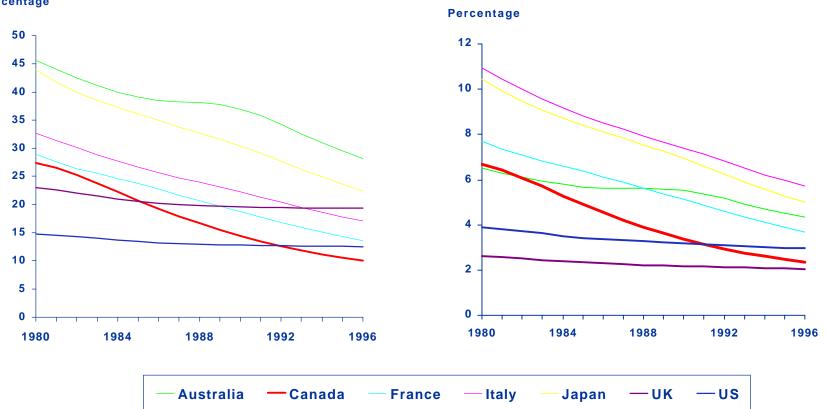


Source: FAOStat.

Agricultural Population

As Percentage of Rural Population

As Percentage of Total Population



Percentage

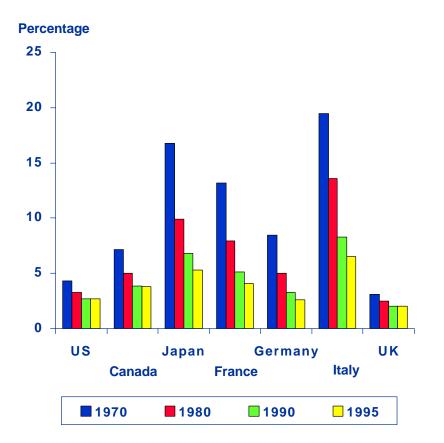
Source: FAOStat.

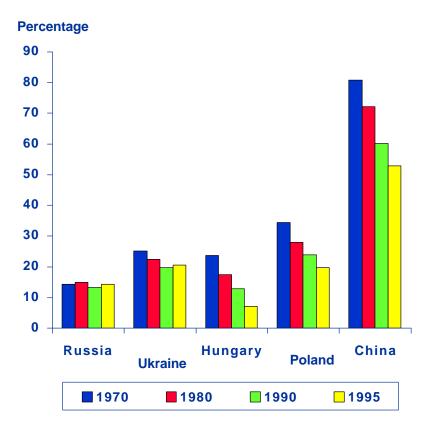
Graph 6-3

Agricultural Labour Force Share of Total Labour Force

Developed Economies

Transition Economies



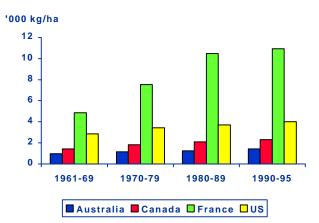


Source: CIA Handbook.

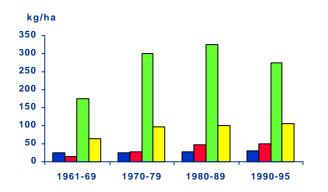
Note: 1995 data is not available for Germany, U.K., Hungary and Poland. Poland, Germany and UK contain 1994 data. Hungary contains 1993 data.



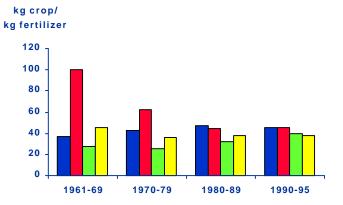
Average Primary Crop Production



Average Fertilizer Usage



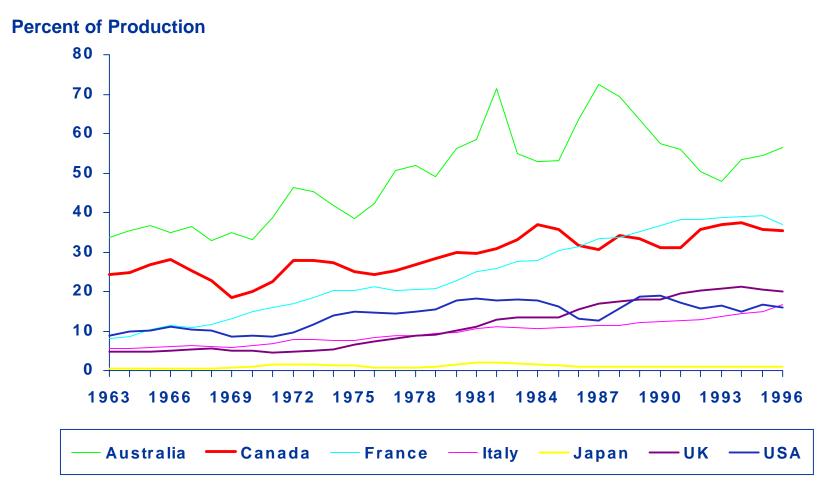
Fertilizer Response -Yield to Fertilizer Use Ratio



Source: FAOStat.

Graph 6-5

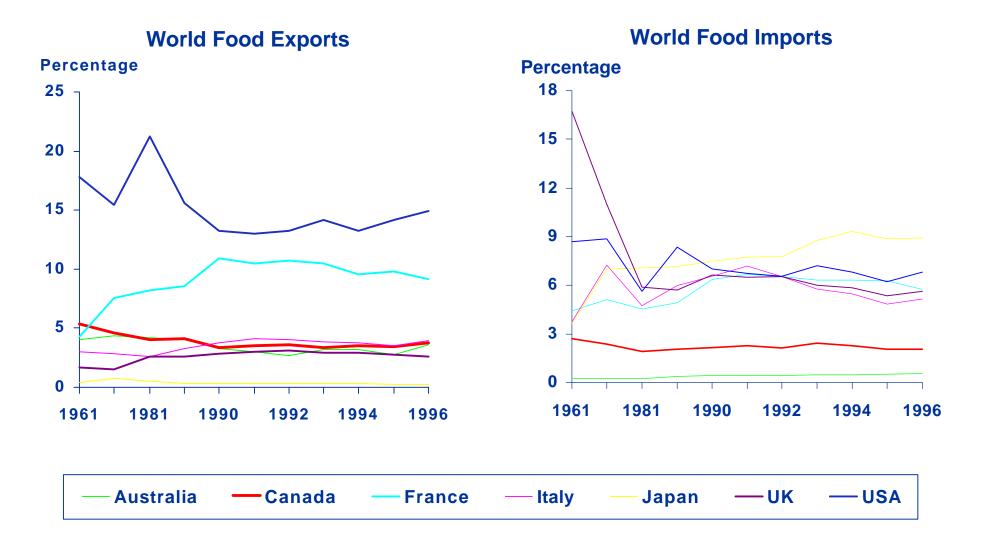
Export Propensity* - Agri-Food Trade



*Based on 3 year moving average ratio of exports to production (quantities).

Source: FAOStat.

Share of World Food Exports and Imports



Source: FAOStat.

Section 6-7

Glossary of Terms

Export Propensity	Export values as a percentage of the value of production.
Foreign Direct Investment (FDI)	Investment involving a long-term relationship and reflecting a lasting interest and control of a resident entity in one economy by an enterprise resident in another country's economy.

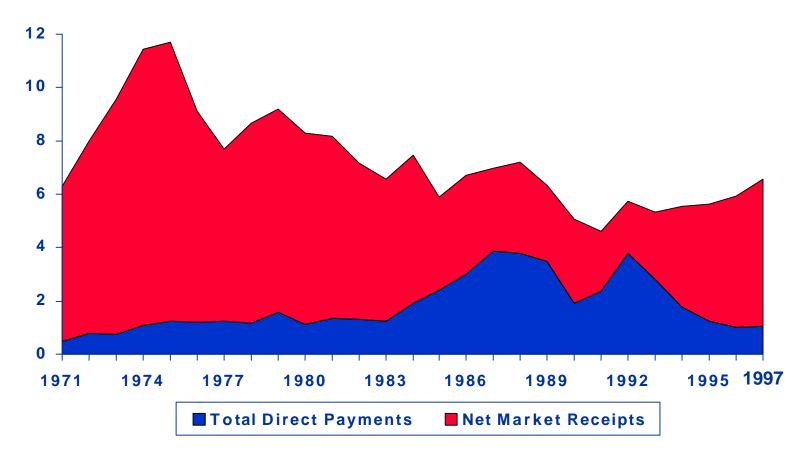
Section 6

Government Support of Agri-Food System

Section 7

Farm Market Income and Direct Government Payments - Canada



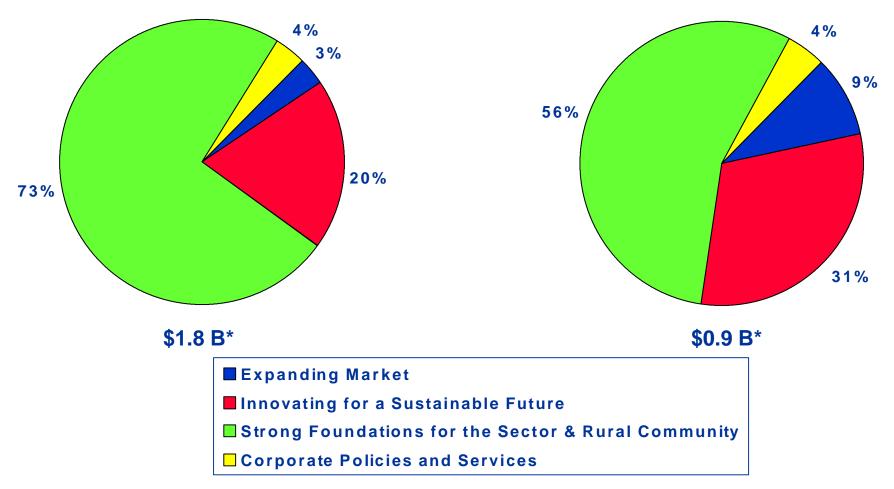




AAFC Expenditures by Business Lines

1996-97 Estimate

2000-01 Planned



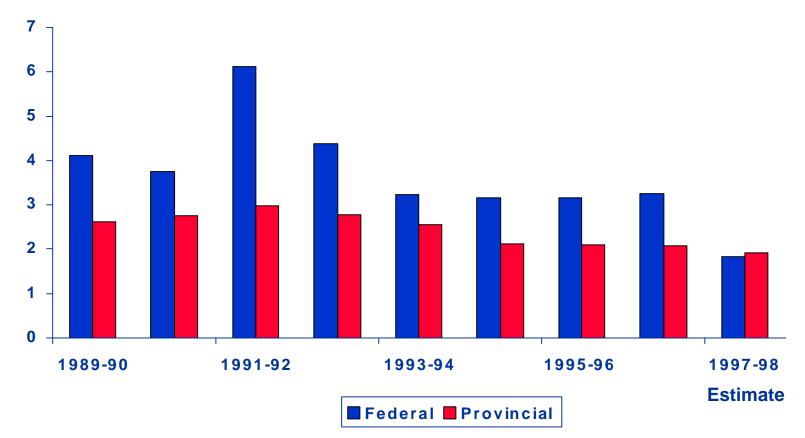
*Does not include Canadian Food Inspection Agency.

Source: AAFC - 1996-97 Performance Report.



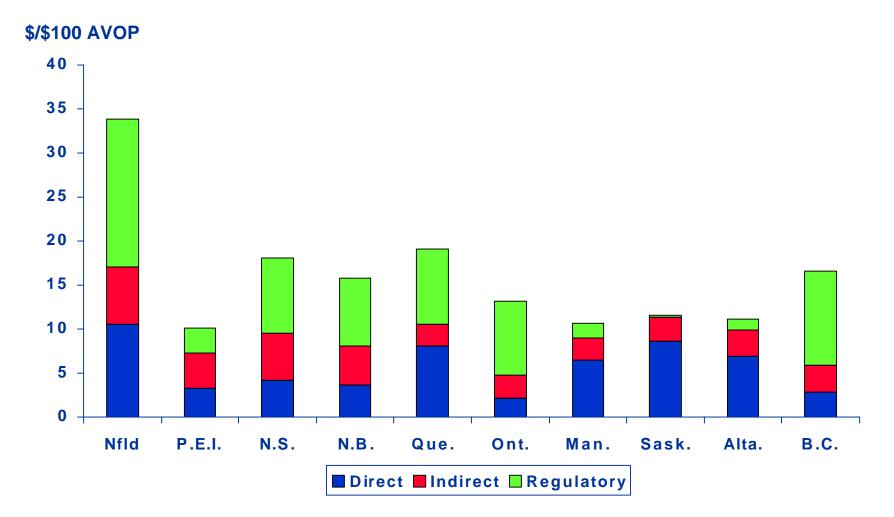
Government Expenditures in Support of Agri-Food System

Millions of \$



Source: AAFC - Farm Income, Financial Conditions and Government Assistance Data Book, February 1998.

Government Transfers by Type of Transfer, 1996-97



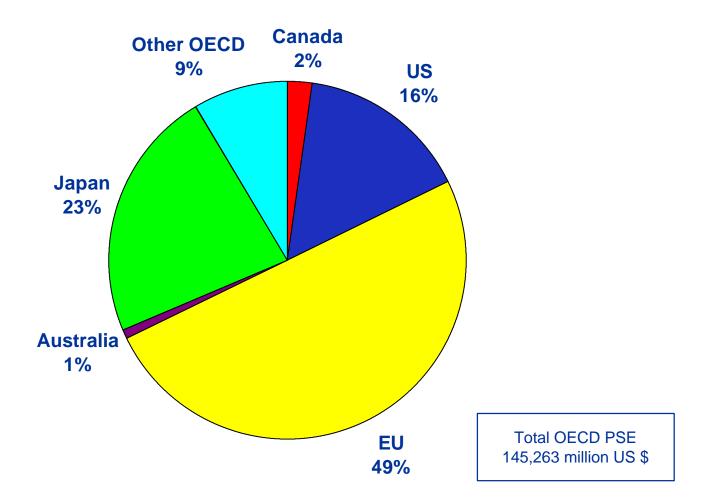
AVOP - Adjusted Value of Production

Source: AAFC - Farm Income, Financial Conditions and Government Assistance Data Book, February 1998.

Graph 7-4

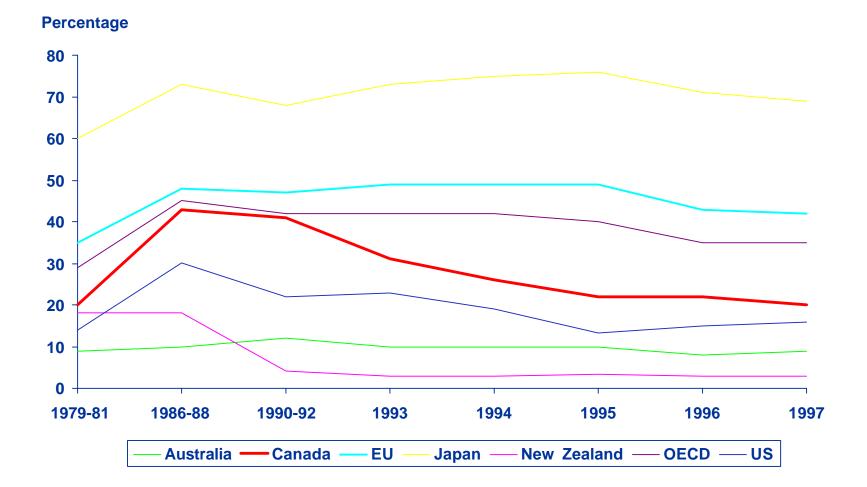
Graph 7-5

Distribution of Total OECD PSE by Country 1997



Source: Agricultural Policies in OECD Countries - Measurement of Support and Background Information, 1998 (draft).

Percentage PSE, Selected Countries



Sources: OECD PSE Database (diskettes) 1997.

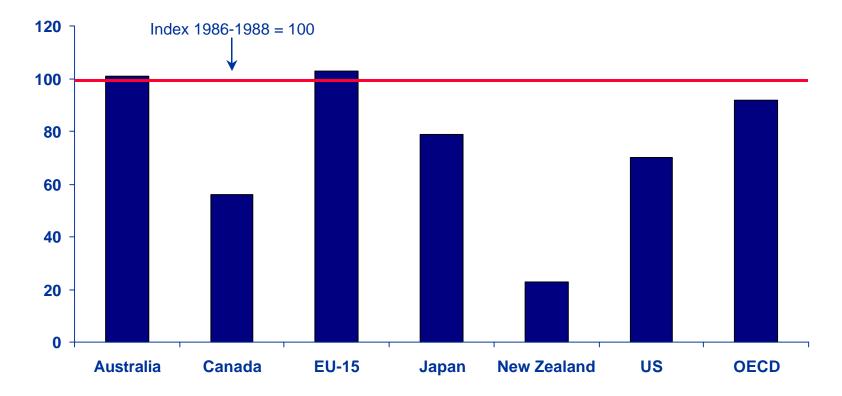
Agricultural Policies in OECD Countries - Measurement of Support and Background Information, 1998 (draft).

Graph 7-6



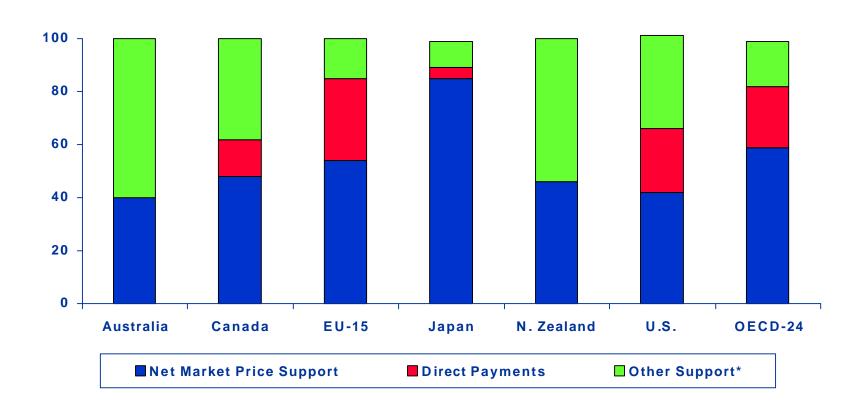
Index of Total PSE - 1997

Local Currency



Source: Agricultural Policies in OECD Countries - Measurement of Support and Background Information, 1998 (draft).

Composition of Support in Selected Countries, 1997



*includes input cost reduction and other services provided by government to the agri-food sector.

Percentage

Source: Agricultural Policies in OECD Countries - Measurement of Support and Background Information, 1998 (draft).

Graph 7-8

Glossary of Terms

PSE (Producer Subsidy Equivalent)	An indicator of the value of the monetary transfers to agriculture resulting from agricultural policies in a given year (developed by the OECD, Paris).
Net Market Receipts	Total market receipts less total cash operating expenses
Total direct payments	Include gross payments paid directly to producers under federal, provincial and municipal programmes
AVOP (Adjusted Value of Production)	Sum of three year moving average value of production plus current year's total direct transfers
Government Expenditures	Government spending (at all levels) on agriculture and the food and beverage processing industries in a year, both indirect and direct, to individuals, agencies or associations
Government Transfers	To agriculture only, including direct expenditures plus the effect of government regulations or policies on producers' market returns
Net Market Price Support	Transfers to agriculture resulting from measures (i.e., tariffs, administered prices) that raise prices to consumers of farm commodities, net levies and feed adjustments
Other support	Includes explicit and implicit subsidies on purchased farm inputs, farm credit, and government transfers to agriculture research and development, extension services, training and agricultural infrastructure

Section 7