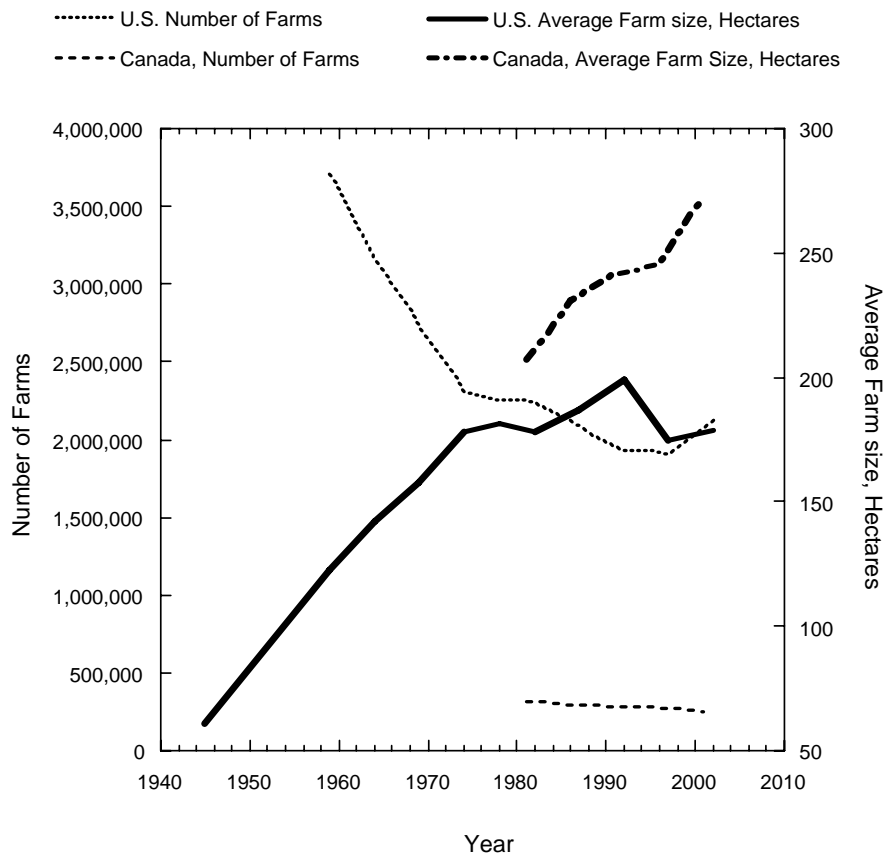


**NAE Chapter 2 Figures**

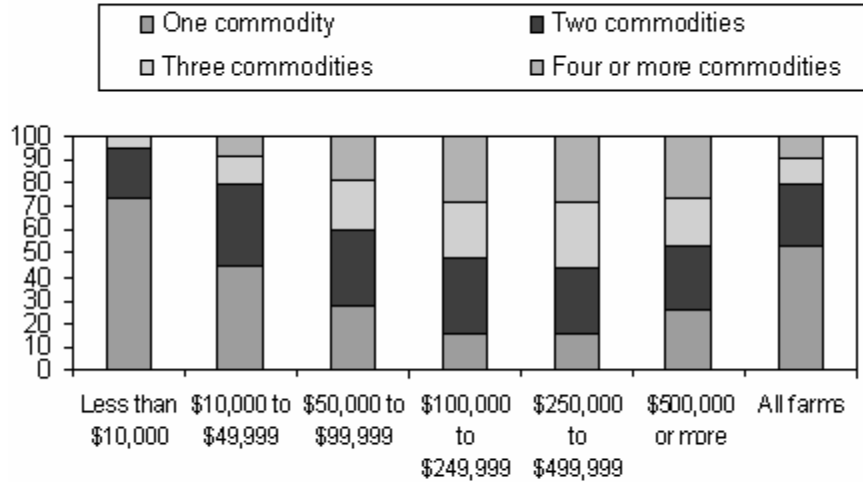
**Figure 2-1.** Change in farm size and number of farms in North America from 1940-2000



**Figure 2-2.** Distribution of commodities by sales class in U.S. Source: USDA, 1999.

**Distribution of by number of commodities produced and sales class, 1999**

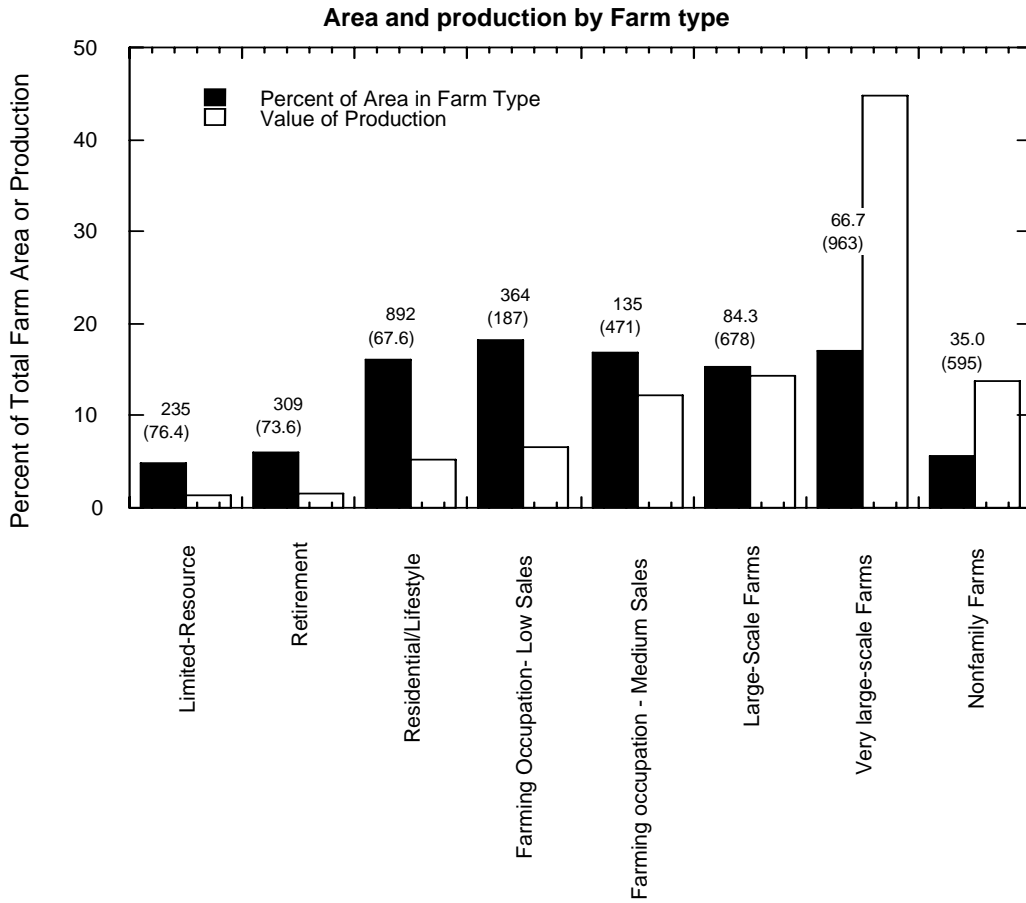
*Few farms produce four or more commodities*



Based on 26 commodities groups: barley, oats, wheat, corn for grain, corn silage, soybeans, sorghum for grain, sorghum for silage, canola, fruit, vegetables, peanuts, nursery products, sugar cane, sugar beets, rice, potatoes, cotton, tobacco, cattle, hogs, dairy, poultry, eggs, other livestock, and other crops.

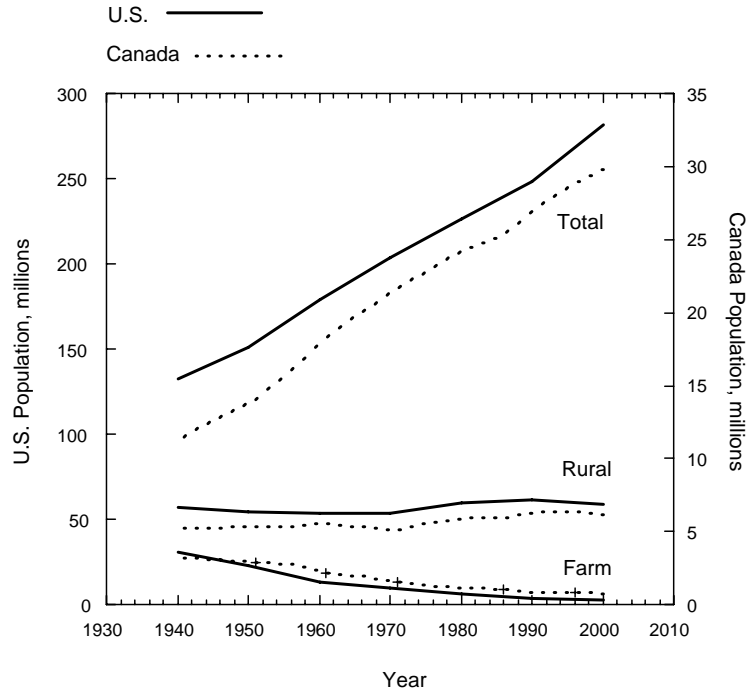
1/Includes the estimate for four or more commodities, when not shown separately.

**Figure 2-3.** US farmland area (%) and total U.S. farm production (%) by type of farm in 2005. Source: Hoppe and Banker, 2006.



The numbers above each category are the number of farms (thousands) in this category and in brackets is the average size in hectares for the category. The categories are defined as: Limited Resource = small farms with operator household income below poverty level; Retirement = small farms whose operators report they are retired; Residential/Lifestyle = small farms whose operators report a major occupation other than farming; Farming occupation, Low-sales = sales less than \$100,000; Farming occupation, Medium-sales = sales between \$100,000 and \$249,999; Large family farms = Sales between \$250,000 and \$499,999; Very large family farms = sales of \$500,000 or more. Non-family farms = Farms organized as non-family corporations or cooperatives as well as farms operated by hired managers.

**Figure 2-4.** Change in rural and farm populations as percent of total population in North America from 1930-2000.



**Figure 2-5.** Changes in the number of farms in West Germany 1949-2001 These figures represent typical responses for changes in the whole of Western Europe. Source: Germany, 2006.

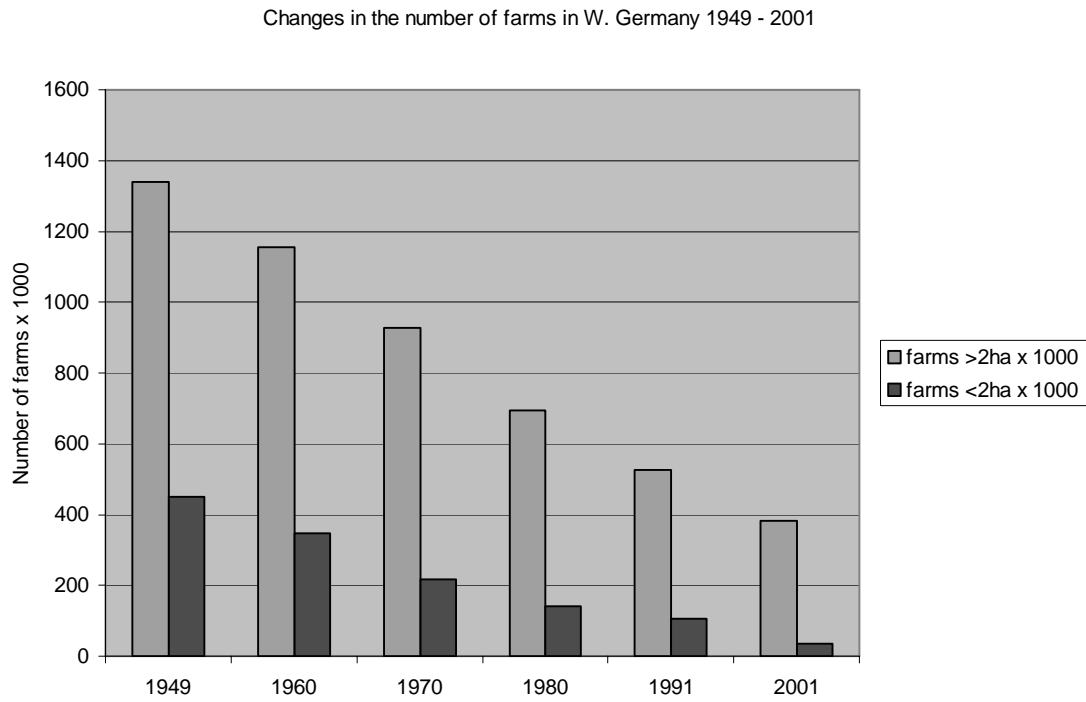
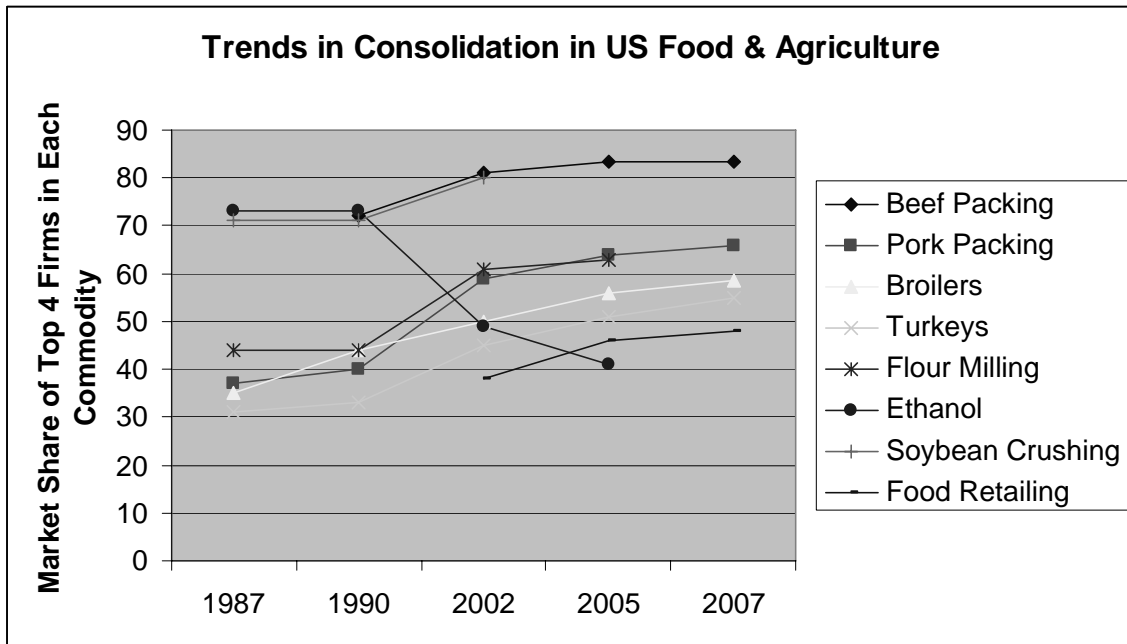
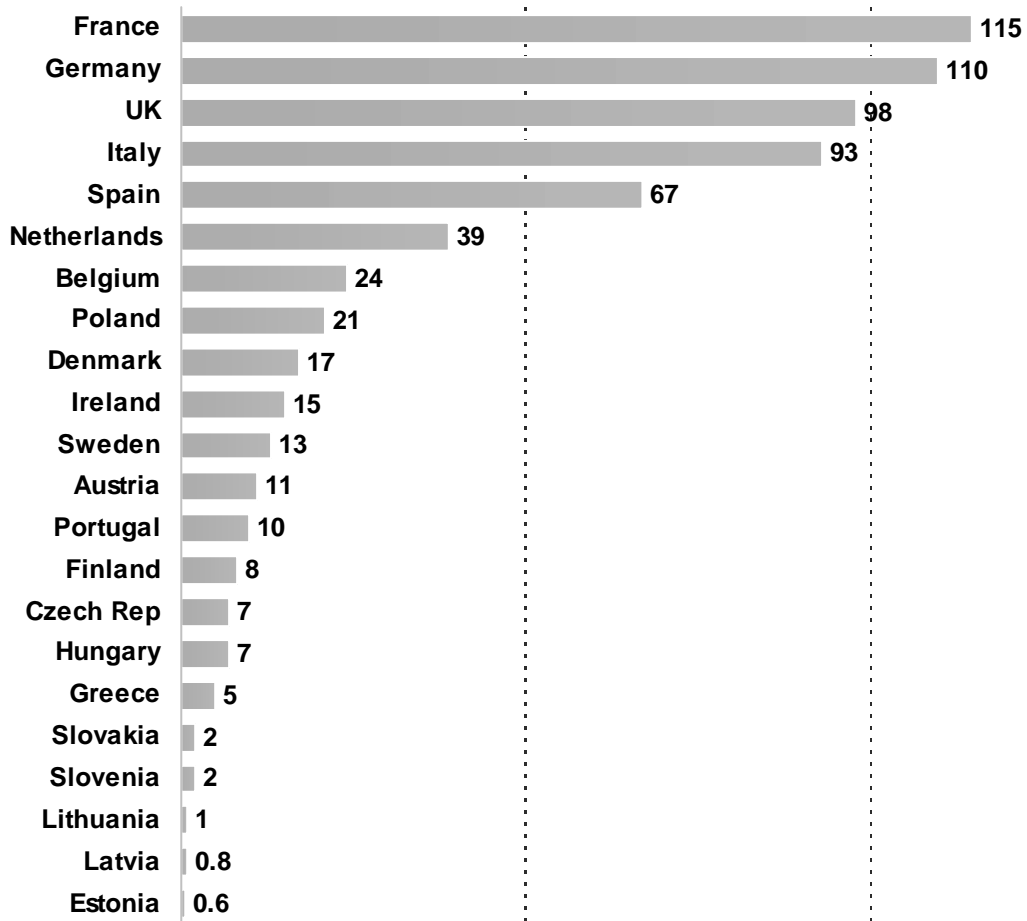
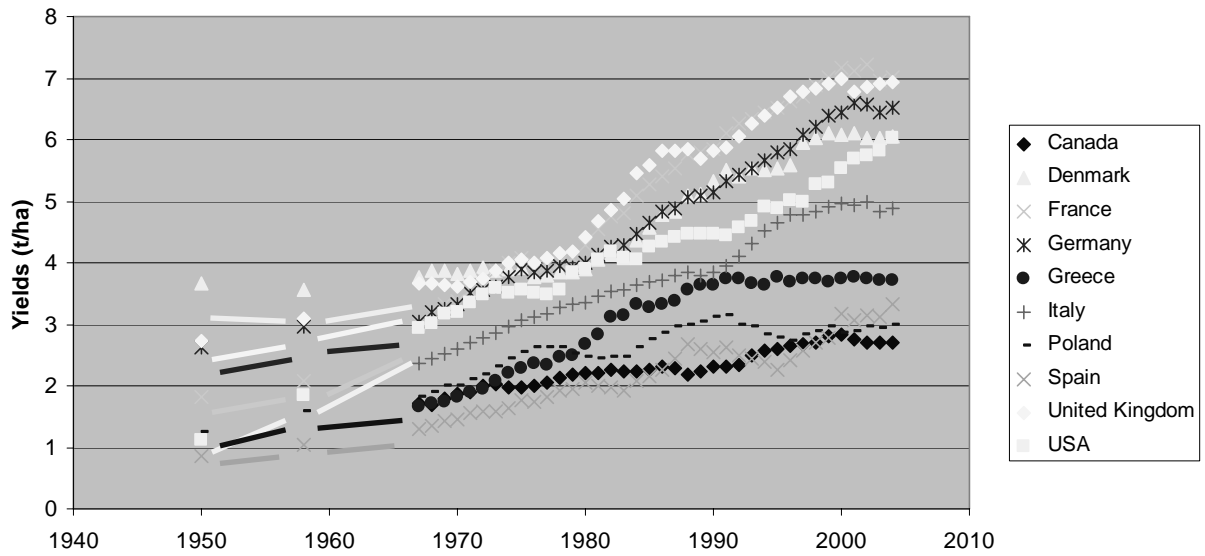


Figure 2.9 Trends in consolidation in the U.S. food industry from 1990 to 2007.



**Figure 2.10** EU-25 Food and drink sector 2001, value of production (EUR bn.). Source: USDA-FAS

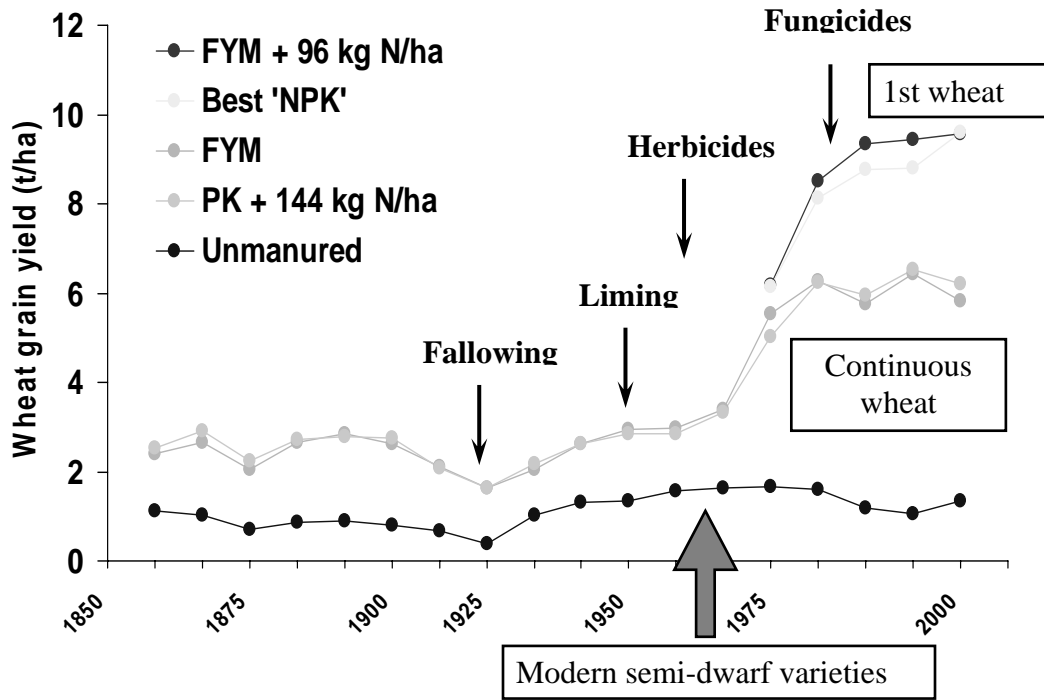
**Figure 2.11** Wheat yields in ten NAE countries since 1950. Source: FAOSTAT, 2006; FAO Yearbooks 1950 and 1958.



Note: Data for 1950 and 1958 are single year values, whereas those for 1967 onwards are rolling 5 year means.



**Figure 2.12** Yield responses on the Broadbalk winter wheat experiment at Rothamsted Research (UK)\* since 1843 in relation to the introduction of novel agronomic practices. Source: FAO statistics.



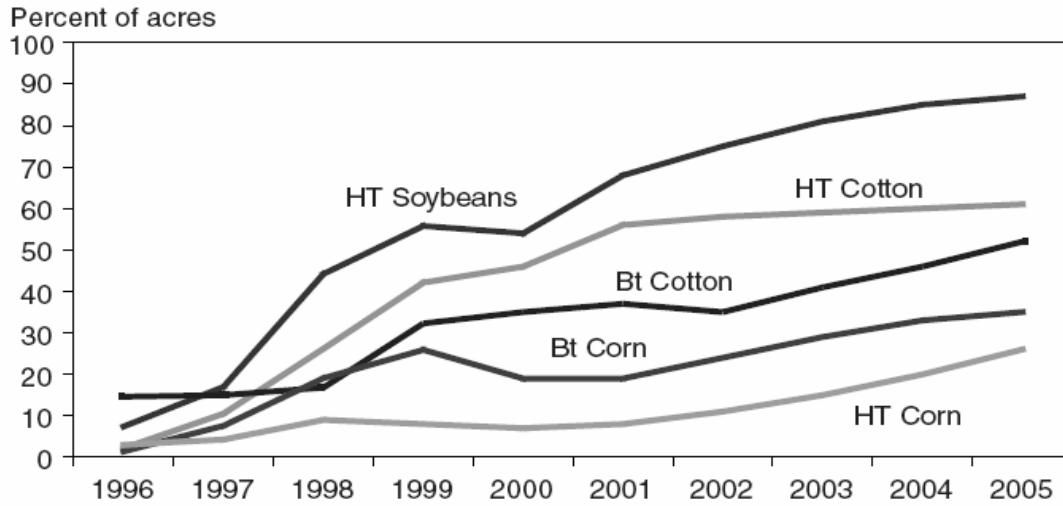
Plots have contrasting levels of organic (FYM) and inorganic nutrients (NPK). Updated from Poulton, 1995) FYM = farmyard manure from cattle, 1<sup>st</sup> wheat = wheat as the first crop in a 4-year rotation.

**\*Rothamsted Research (UK)**

Inorganic and organic fertilizers (NPK) made the earliest contribution to increasing wheat yields. The value of providing a suitable pH was recognized in the 1950s. The first herbicides were developed at this time and improved cultivars started to impact on production. The arrival of the semi-dwarf cultivars in the 1960s enabled farmers to increase fertilizer use still further. The combination of their short stature combined with disease resistance and availability of fungicides and insecticides, further increased yields. Over the period 1950 to 2000 yields had tripled. This example shows how agricultural science and technology had created an environment whereby farmers could continue to increase their crop yields.

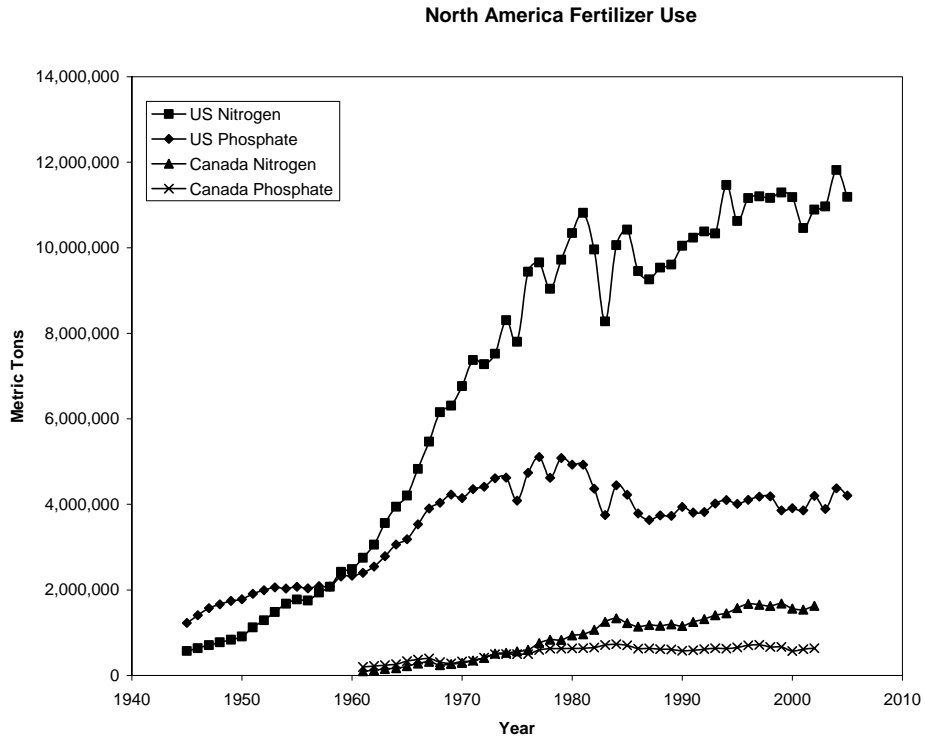
**Figure 2.16** Adoption of genetically engineered crops initially grew steadily and then leveled off in the U.S. after yield increases and cost savings did not live up to expectations. Source: Fernandez-Cornejo, 2005.

**Adoption of genetically engineered crops grows steadily in the U.S.\***



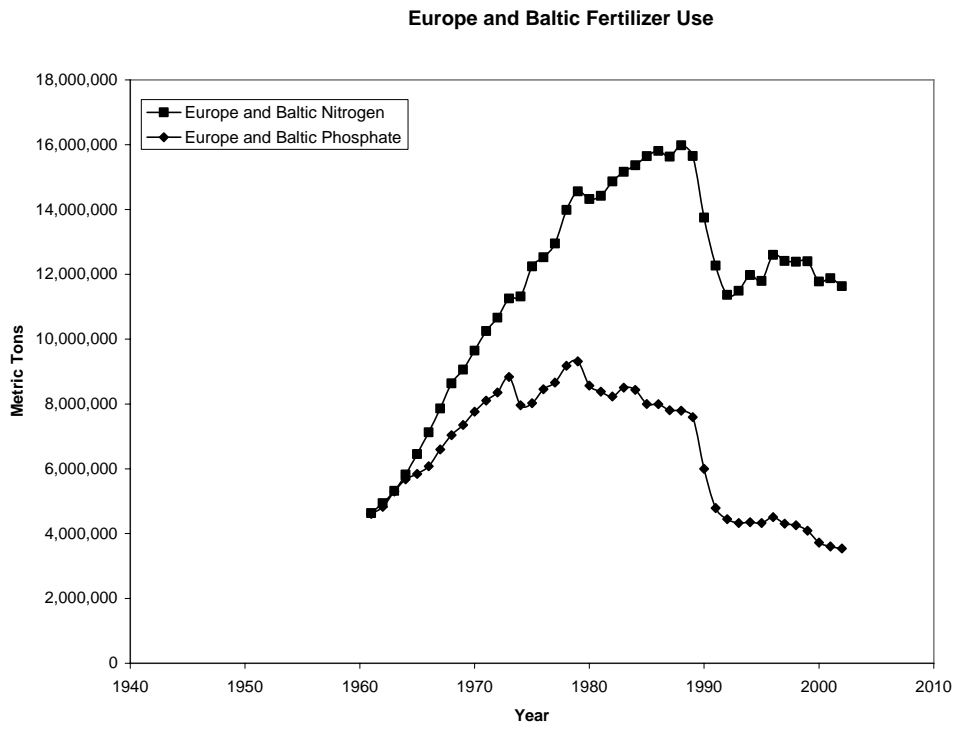
\*Data for each crop category include varieties with both HT and Bt (stacked) traits.

**Figure 2.17** Fertilizer use in North America. Nitrogen is reported as applied elemental nitrogen. Phosphate contains on an elemental basis 43.66% Phosphorus. Sources: U.S. data -U.S. Department of Agriculture, Economic Research Service. Canada -FAO statistics.

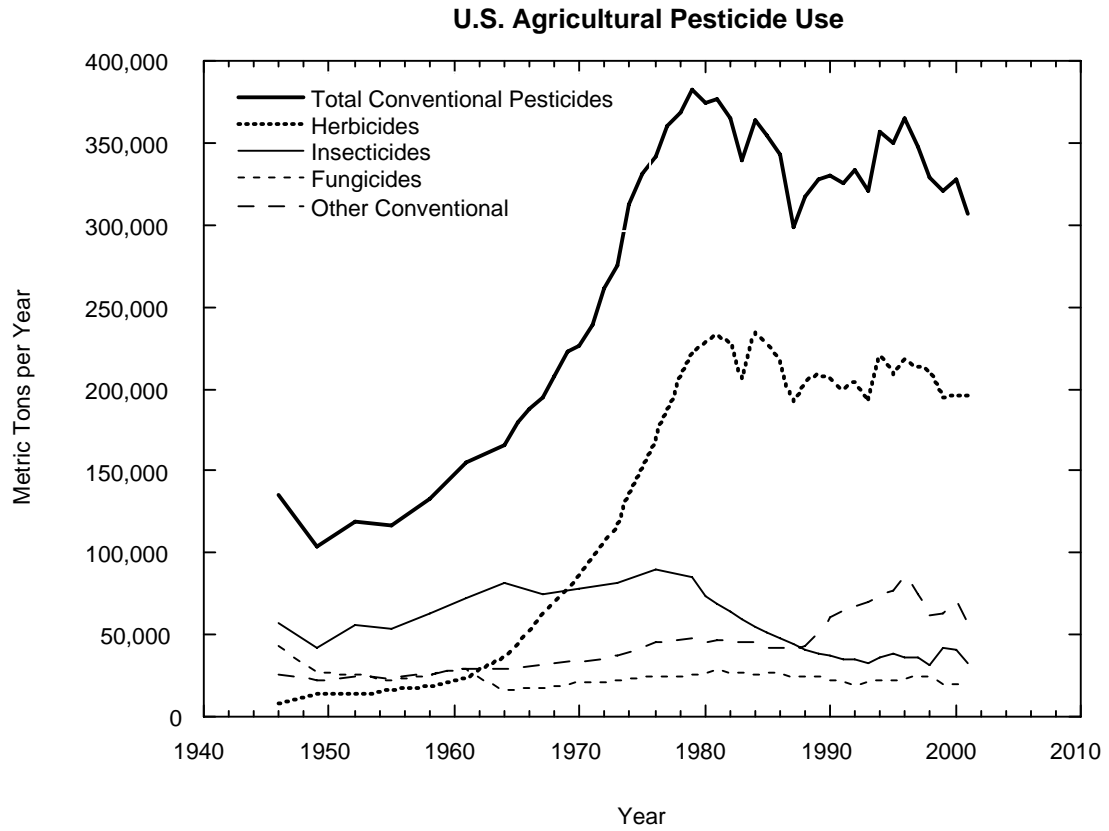


Note: there is a one year offset in data provided by ERS and that reported by FAO with the ERS data being one year earlier.

**Figure 2.18** Nitrogen and phosphorus fertilizer use in Europe and the Baltic States. Nitrogen is reported as applied elemental nitrogen. Phosphate contains on an elemental basis 43.66% Phosphorus. Source: FAO statistics.

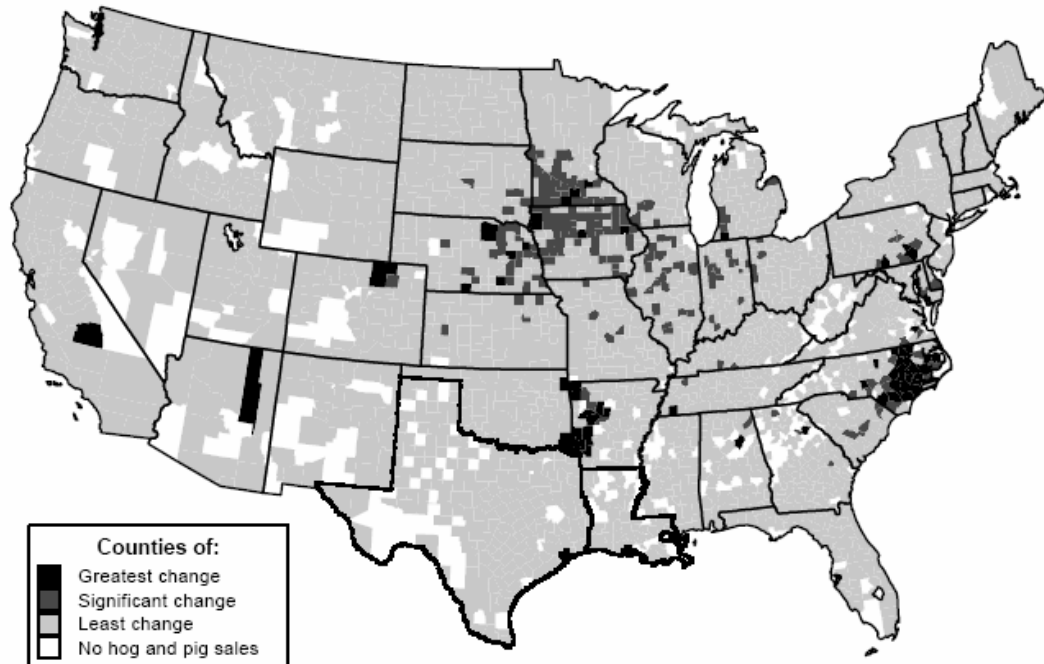


**Fig. 2.19** Trends in US pesticide use. Values are for tons of active ingredients. Other conventional pesticides include nematicides and fumigants, (primarily) and also includes rodenticides, molluscicides, fish and bird pesticides. Source: Kiely et al., 2004; Aspelin, 1997, 2003.



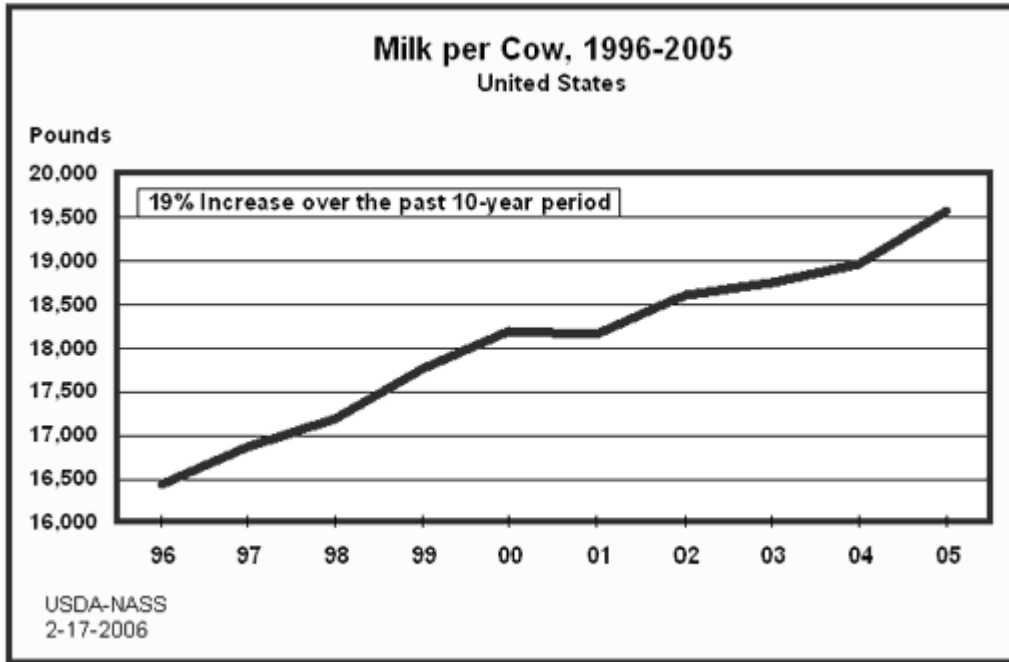
**Figure 2-21. Geographic changes in hog and pig production in the U.S.** Animal production in North America has become more geographically concentrated with pork production moving from the Midwestern U.S. to the South and Southeast. Dairy production has intensified and moved from the Northeast to the West Coast. Similar trends have been noted in Canada where animal production has moved westward. Source: McBride, 1997 – arrows added

Figure 2-21  
**Structural change in hog and pig sales, 1969-92**



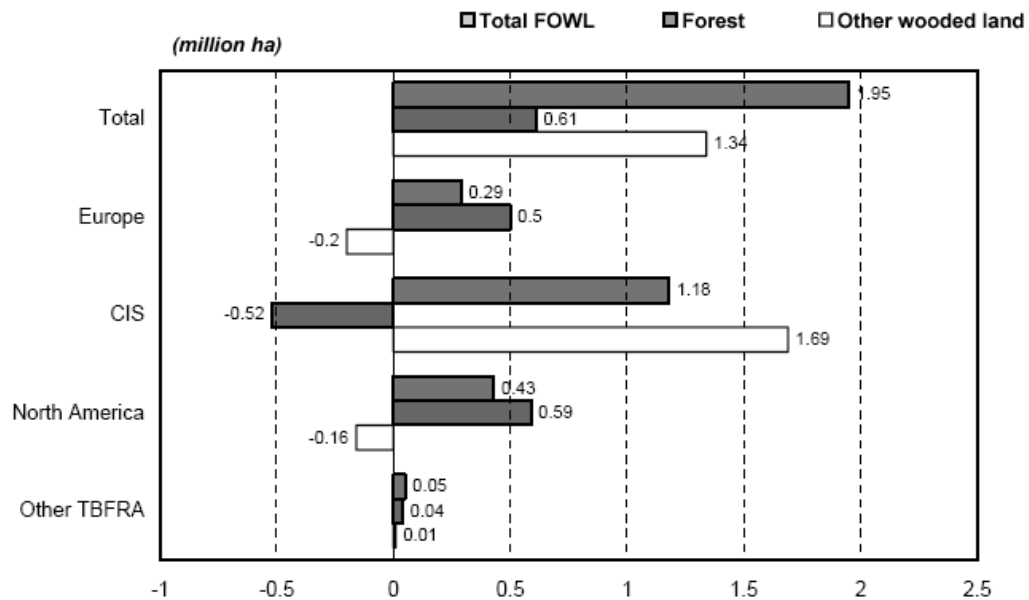
Source: Compiled by ERS using census of agriculture data.

**Figure 2.24** Trends in productivity per cow in U.S. from 1996-2005. Source: USDA-NASS, 2006 Available at [http://www.nass.usda.gov/Charts\\_and\\_Maps/Milk\\_Production\\_and\\_Milk\\_Cows/.](http://www.nass.usda.gov/Charts_and_Maps/Milk_Production_and_Milk_Cows/))



**Figure 2.27** Changes in NAE forest areas (natural and plantation) 1993 to 2004. Source: TBFRA-2000: Executive Summary. <http://www.unece.org/trade/timber/fra/screen/summary.pdf>

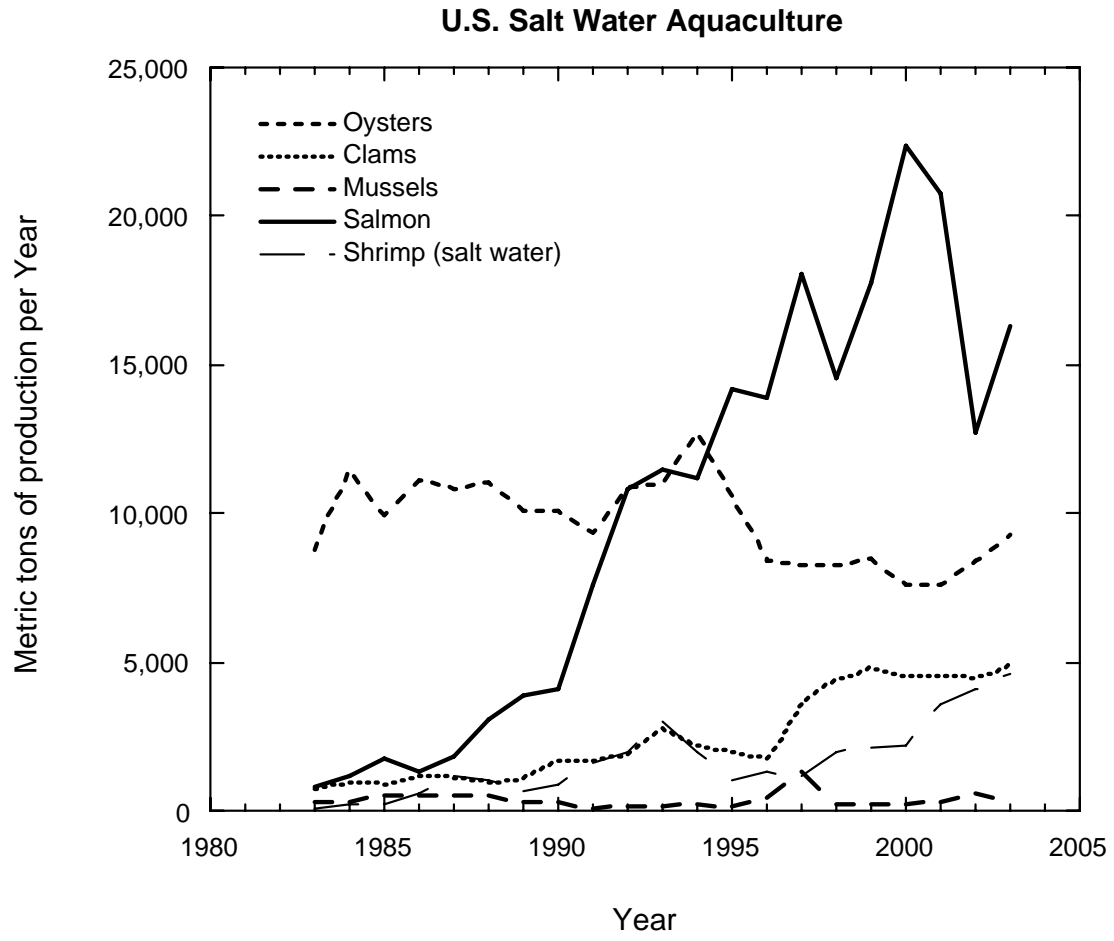
**Estimated average annual changes in area of forest and other wooded land (FOWL) in TBFRA area**



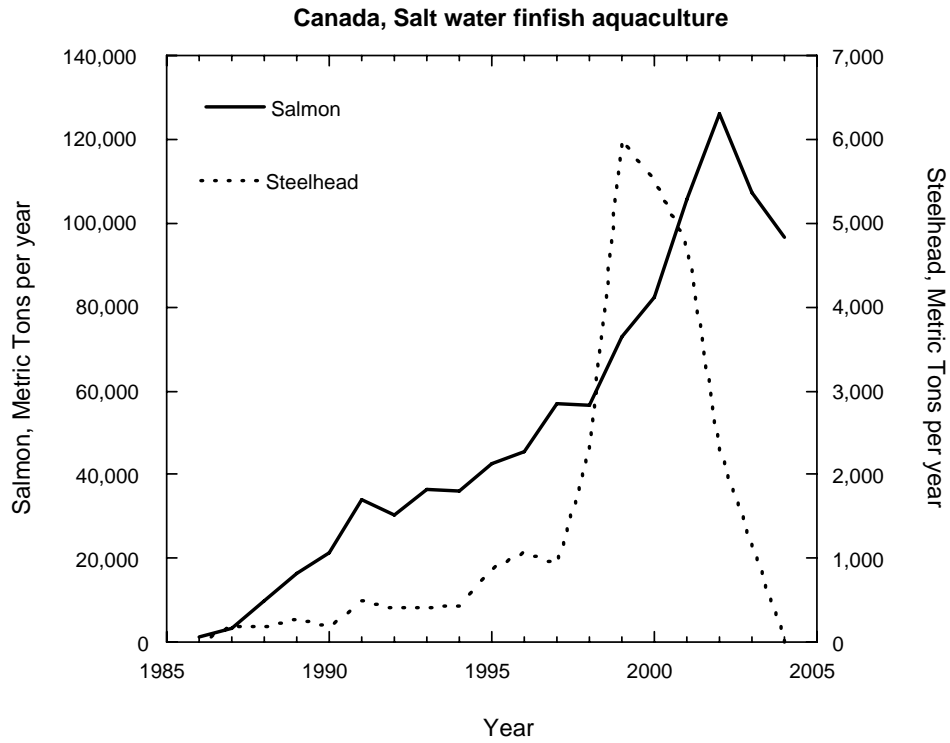
**Figure 2.30** Production of major aquaculture species in the U.S. Note different scale for catfish.



**Figure 2.31** Production of major salt water aquaculture species in the U.S.



**Figure 2.32** Canadian saltwater finfish aquaculture production. (Also see note in Figure [Hinga3]). Source: Fisheries and Oceans Canada, Statistical Services 1986 to 2004 ([http://www.dfo-mpo.gc.ca/communic/statistics/aqua/index\\_e.htm](http://www.dfo-mpo.gc.ca/communic/statistics/aqua/index_e.htm))



**Figure 2.33** Canadian shellfish aquaculture. Source Fisheries and Oceans Canada, Statistical Services 1986 to 2004 ([http://www.dfo-mpo.gc.ca/communic/statistics/aqua/index\\_e.htm](http://www.dfo-mpo.gc.ca/communic/statistics/aqua/index_e.htm))

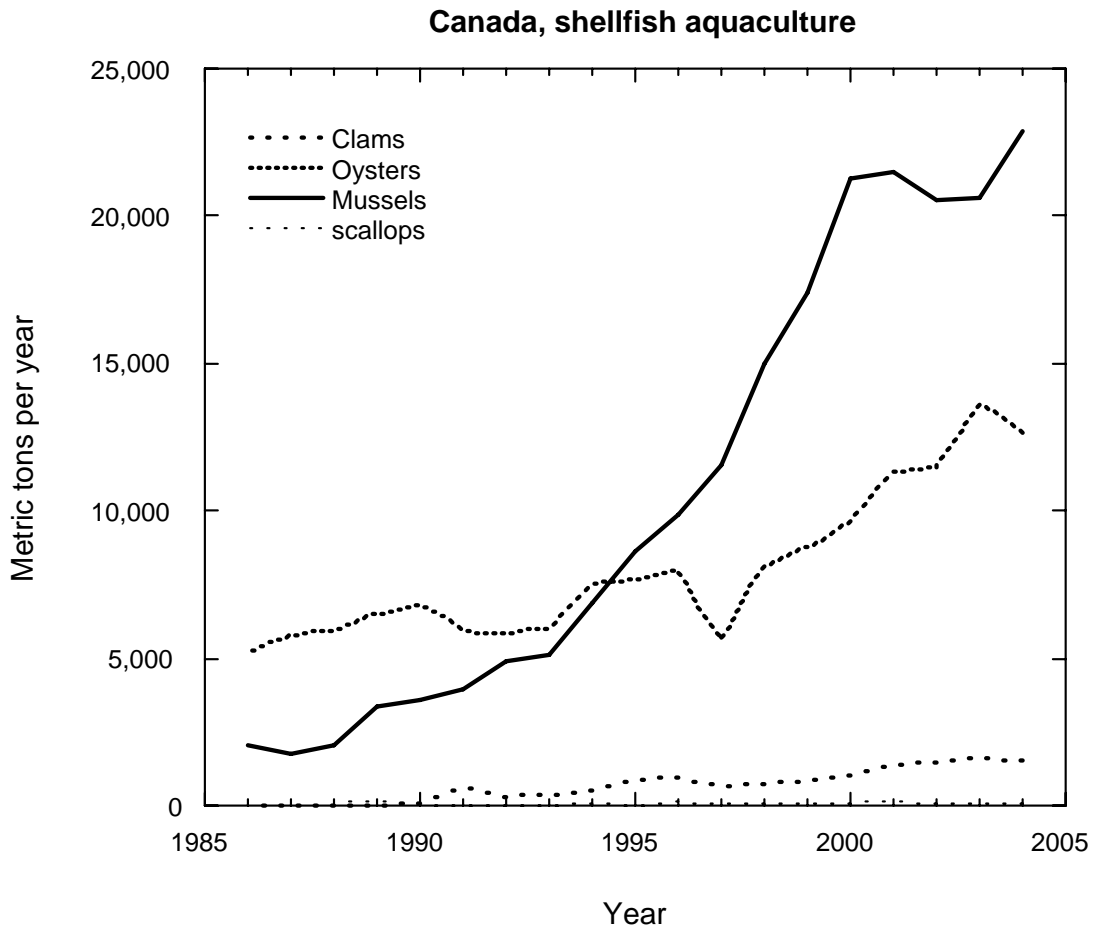


Figure 2.35 Large supermarket penetration vs GDP per capita

**Figure 2. Large Supermarket penetration vs. GDP per Capita**

Source: Booz-Allen Hamilton, 2003

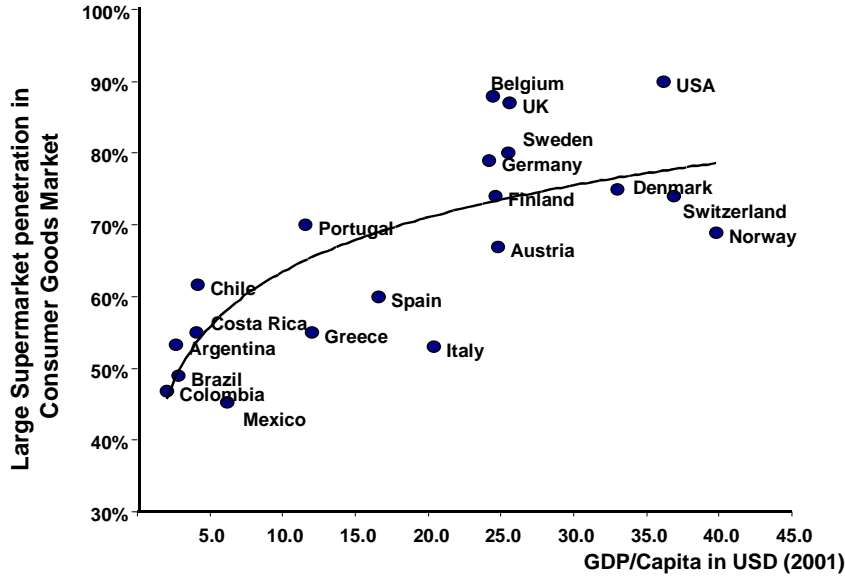
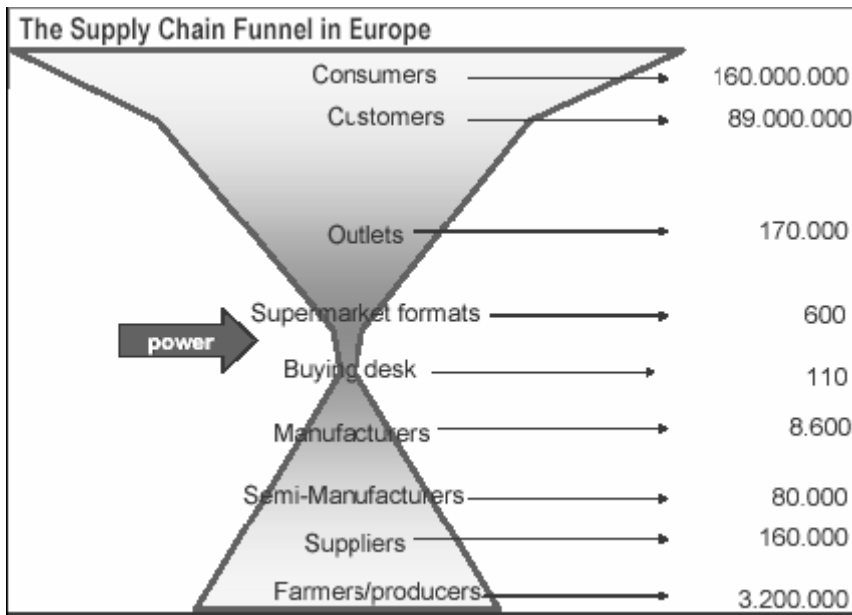


Figure 2.37 The supply chain funnel in Europe. Source: J-PGrievink, Cap Gemini, OECD 2003



**Table 2.1** 100 years of structural change in U.S. agriculture. Source: Dimitri and Effland, 2005.

|  | 1945      | 1970    | 2000/02 |
|--|-----------|---------|---------|
| <b>Number of farms (millions)</b>          | 5.9       | 2.9     | 2.1     |
| <b>Average farm size (acres)</b>           | 195       | 376     | 441     |
| <b>Average number of commodities</b>       |           |         |         |
| <b>Produced per farm</b>                   | 4.6       | 2.7     | 1.3     |
| <b>Farm share of population (percent)</b>  | 17        | 5       | 1       |
| <b>Rural share of population (percent)</b> | 36 (1950) | 26      | 21      |
|  |           | percent |         |
| <b>Off-farm labor*</b>                     | 27        | 54      | 93      |

\*1945, percent of farmers working off-farm; 1970 and 2000/02, percent of households with off-farm income.

**Table 2.2** Agricultural output by product and enterprise in Russia. Source: *Rossia v tsifrah 2004* (Moscow: Goskomstat, 2004), 207; *Rossia v tsifrah 2005* (Moscow: FSGS, 2005), 210. As quoted in (O'Brien and Patsiorkovsky, 2006)

| Type of agricultural product       | Structure of agricultural output by type of product and type of enterprise in Russia 1990-2004(%) |      |      |                |      |      |           |      |      |
|------------------------------------|---|------|------|----------------|------|------|-----------|------|------|
|                                    | Type of enterprise  |      |      |                |      |      |           |      |      |
|                                    | Large enterprise  |      |      | Private farmer |      |      | Household |      |      |
|                                    | 1990  | 1995 | 2004 | 1990           | 1995 | 2004 | 1990      | 1995 | 2004 |
| Grain                              | 99.7  | 94.4 | 81.2 | 0.01           | 4.7  | 17.4 | 0.3       | 0.9  | 1.4  |
| Sugar Beets                        | 99.9  | 95.9 | 88.6 | 0.01           | 3.5  | 10.3 | 0.0       | 0.6  | 1.1  |
| Sunflower                          | 98.6  | 86.3 | 74.4 | 0.0            | 12.3 | 24.5 | 1.4       | 1.4  | 1.1  |
| Potatoes                           | 33.9  | 9.2  | 6.2  | 0.0            | 0.9  | 2.0  | 66.1      | 89.9 | 91.8 |
| Vegetables                         | 69.9  | 25.3 | 14.9 | 0.0            | 1.3  | 4.9  | 30.1      | 70.4 | 80.2 |
| Meat                               | 75.2  | 49.9 | 45.1 | 0.0            | 1.5  | 2.4  | 24.8      | 48.6 | 52.5 |
| Milk                               | 76.2  | 57.1 | 45.0 | 0.0            | 1.5  | 2.8  | 23.8      | 41.4 | 52.2 |
| Eggs                               | 78.4  | 69.4 | 72.8 | 0.0            | 0.4  | 0.5  | 21.6      | 30.2 | 26.7 |
| Share of total agricultural output |   |      | 43.1 |                |      | 5.9  |           |      | 51.0 |

**Table 2.5** Poverty rates per household group as a percentage of national poverty rates (poverty line: 50 percent of national average equivalent expenditure), EU 12

| Socio-economic classifications | BE  | DK  | GE  | GR  | FR  | IR  | IT | NL  | PO  | SP  | UK  |
|--------------------------------|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|
| <b>Headship</b>                |     |     |     |     |     |     |    |     |     |     |     |
| Male head                      | 95  | 98  | 92  | 98  | 88  | 90  |    | 101 | 94  | 94  | 82  |
| Female head                    | 131 | 104 | 122 | 113 | 143 | 151 |    | 96  | 123 | 135 | 163 |
| <b>Economic activity head</b>  |     |     |     |     |     |     |    |     |     |     |     |
| Agriculture                    | -   | 277 | -   | 156 |     | 110 | -  | 142 | 141 | -   | 144 |
| Manufacturing                  | -   | 51  | -   | 71  |     | 64  | -  | 138 | 65  | -   | 63  |
| Construction                   | -   | 57  | -   | 113 |     | 124 | -  | 119 | 101 | -   | 105 |
| Gov't. Services                | -   | 35  | -   | -   |     | 48  | -  | 28  | 57  | -   | 55  |
| Other services                 | -   | 36  | -   | 53  |     | 55  | -  | 72  | 49  | -   | 63  |
| None                           | -   | 193 | -   | 131 |     | 174 | -  | 116 | 134 | -   | 168 |

Source: Eurostat (1990) Poverty in Figures. Europe in the Early 1980s. Table 5.2, p. 42-43. Luxembourg: Office for Official Publications of the European Communities in Howard-Borjas & S. de Rooij "Rural women and food security: Current situation and perspectives" FAO 1998.

**Table 2.6** Concentration in the U.S. and Canadian food industry. Source: Hendrickson and Heffernan, 2006, 2007.

| Commodity Market and Top Firms  | 2007 Concentration Ratio* | Historical CR4 |
|---|---------------------------|----------------|
| Beef packing (Tyson, Cargill Excel, Swift & Co, National Beef)                                | CR4=83.5%                 | CR4=72% (1990) |
| Pork packing (Smithfield, Tyson, Swift & Co, Hormel)  | CR4=66%                   | CR4=37% (1987) |
| Broilers (Pilgrims' Pride, Tyson, Perdue, Sanderson Farms)                                    | CR4=58.5%                 | CR4=35% (1986) |
| Turkeys (Smithfield/Maxwell Foods, Hormel, Cargill, Sara Lee)                                 | CR4=55%                   | CR4=31% (1988) |
| Flour milling (Cargill/CHS,ADM, ConAgra)  | CR3=55%                   | CR4=40% (1982) |
| Soybean crushing (ADM, Bunge, Cargill)  | CR3=71%                   | CR4=54% (1977) |
| Food retailing (Wal-Mart, Kroger, Albertson's, Safeway, Ahold USA)                            | CR5=48%                   | CR5=24% (1997) |
| <b>Selected information about concentration in the Canadian agriculture and food industry</b> |                           |                |
| Commodity market and top firms  | Concentration Ratio 2006  |                |
| Beef packing (Cargill, Lakeside Packers [owned by Tyson], XL Foods)                           | CR3=75%                   |                |
| Durum milling (ADM, Robin Hood Foods [owned by J.M. Smucker Co])                              | CR2=57%                   |                |
| Flour milling (ADM, Robin Hood Foods [owned by J.M. Smucker Co])                              | CR2=66%                   |                |

\* Concentration Ratio refers to the market share that the top four firms (or three as in the case of soybean crushing, and five in the case of food retailing) control. Concentration Ratios are calculated using statistics reported in trade journals.

**Table 2.7** Global seed sales by NAE based companies. Source: UNCTAD, 2006

| Company                            | 2004 Seed Sales (million US \$) | Market Share (in per cent) |
|------------------------------------|---------------------------------|----------------------------|
| DuPont/Pioneer                     | 2,624                           | 10                         |
| Monsanto                           | 2,277                           | 9                          |
| Syngenta                           | 1,239                           | 5                          |
| Limagrain                          | *1,239                          | 5                          |
| Others (both NAE based and others) | 17,821                          | 71                         |
| World**                            | 25,200                          | 100                        |

**Table 2.8** Top European food manufacturers, ranked by turnover in 2002. Source: CIAA

| Manufacturer      | Country     | Sales (EUR bn) |   |
|-------------------|-------------|----------------|---|
| Nestlé            | Switzerland | 52.6           | Cereal, dairy, beverages, Confectionery                     |
| Unilever          | NL/UK       | 32.1           | Dairy, beverages, dressings, frozen foods, cooking products |
| Diageo            | UK          | 19.0           | Alcoholic beverages, dough products                         |
| Danone            | France      | 14.5           | Dairy, beverages, biscuits and cereals                      |
| Cadbury Schweppes | UK          | 8.9            | Beverages, confectionary                                    |
| Heineken          | NL          | 8.1            | Alcoholic beverages   |
| Parmalat          | Italy       | 7.8            | Dairy, gourmet, biscuits, beverages                         |
| Interbrew         | Belgium     | 7.3            | Alcoholic beverages   |
| ABF               | UK          | 7.1            | Sugar, starches, baking products, meat, dairy               |
| Tate & Lyle       | UK          | 6.4            | Sweeteners, starches  |
| Lactalis          | France      | 5.5            | Dairy   |
| Arla Foods        | Denmark     | 5.0            | Dairy   |
| Sudzucker         | Germany     | 4.8            | Sugar   |

**Table 2.11** Changes in livestock farming operations. Source: Farm Foundation, 2004

| Animal Production on Farms, U.S. and Canada |                 |                            |               |              |              |
|---|-----------------|----------------------------|---------------|--------------|--------------|
| Year  | Number of Farms | Percent of Farms Producing |               |              |              |
|   |                 | Beef                       | Dairy         | Swine        | Chicken      |
| <b>United States</b>                        |                 |                            |               |              |              |
| 2002  | 2,128,982       | 37.4%                      | 4.3%          | 3.7%         | 1.5%         |
| 1974  | 2,314,013       | <b>44.3%</b>               | 17.4%         | 20.3%        | 1.5%         |
| 1920  | 6,118,956       | 29.7%                      | <b>74.60%</b> | <b>79.3%</b> |              |
| <b>Canada</b>                               |                 |                            |               |              |              |
| 2001  | 230,540         | 52.9%                      | 9.5%          | 6.7%         | 11.5%        |
| 1971  | 258,716         | <b>96.1%</b>               | 56.2%         | 47.3%        | 46.2%        |
| 1921  | 711,090         | 84.2%                      |               | <b>63.4%</b> | <b>82.4%</b> |

Farms with beef operations reached their peak in the 1970s while dairy and swine production are concentrated on less than 5 percent of US farms and less than 10 percent of Canadian farms.

**Table 2.15** Market structure of retail in Western Europe, based on market shares of top 5 retailers, based on 1999 data. Source: Dobson et al., 2001

|                 |                      |
|-----------------|----------------------|
| Country         | Market structure     |
| Austria         | Asymmetric oligopoly |
| Belgium/Lux     | Asymmetric oligopoly |
| Denmark         | Duopoly              |
| Finland         | Duopoly              |
| France          | Asymmetric oligopoly |
| Germany         | Symmetric oligopoly  |
| Ireland         | Asymmetric oligopoly |
| Italy           | Unconcentrated       |
| The Netherlands | Dominant firm        |
| Portugal        | Duopoly              |
| Spain           | Asymmetric oligopoly |
| Sweden          | Dominant firm        |
| UK              | Asymmetric oligopoly |

**Table 2.16** Top retailers across Europe—summary. Source: M+M PlanetRetail, AC Nielsen, USDA-FAS.

| Country         | CR3  | CR4         | Top 3-4 firms                                   |
|-----------------|------|-------------|---|
| Austria         |      |             |   |
| Belgium/Lux     |      |             | Carrefour, Delhaize Group, Colruyt, Aldi        |
| Czech rep       | 30.1 |             | Metro, Ahold, Schwartz                          |
| Denmark         | 78   |             | FDB, Dansk Supermarkt, Supergros                |
| Finland         | 79   |             | Kesko, S Group                                  |
| France          | 50.8 | 63.2        | Carrefour, Intermarché, Leclerc, Casino         |
| Germany         | 44.3 | 56.1 - 66.7 | Metro, Rewe, Edeka/AVA, Aldi                    |
| Hungary         | 48.2 | 51          | CBA, Tesco, Co-op Hungary, Metro, Reál Hungária |
| Ireland         | 54.7 |             | Tesco, Dunnes Stores, Superquinn,               |
| Italy           | 29.1 | 36.0        | Coop Italia, Auchan, Carrefour, Conad           |
| The Netherlands | 62.6 | 82.6        | Ahold, Casino, Sperwer, Makro                   |
| Norway          | 83   |             | Norgesgruppen, Coop, Hakon                      |
| Poland          | 17.3 |             | Metro, Jerónimo Martins, Tesco, Auchan          |
| Portugal        |      |             |   |
| Romania         |      | 27.0        | Metro, Rewe, Carrefour, Delhaize                |
| Slovakia        | 24.4 |             | Tesco, Metro, Rewe                              |
| Spain           | 53.8 | 62.5        | El Corte Inglés, Carrefour, Marcadona Eroski,   |
| Sweden          | 95   |             | ICA/Ahold, Coop, Axfood                         |
| UK              | 42.3 | 49.3 - 76.5 | Tesco, Asda-Wal-Mart, Sainsbury's, Morrisons    |



**Table 2.17** Outlook for private label in Europe (% sales). Source: M+M PlanetRetail--based partly on AC Nielsen.

|                          | 2000 | 2005 | 2010 |
|--------------------------|------|------|------|
| Western Europe           | 20   | 26   | 30   |
| of which                 |      |      |      |
| Northern                 | 25   | 29   | 32   |
| Southern                 | 12   | 18   | 25   |
| Nordic                   | 15   | 20   | 25   |
| Central & Eastern Europe | 1    | 4    | 7    |
| World                    | 15   | 19   | 23   |

**Table 2.18** Food retailing in USA. Source: Progressive Grocer's Super 50 (5/1/04).

| <b>Food retailing in USA CR5 = 46%*</b>  |                      |
|--|----------------------|
| <b>Supermarket</b>   | <b>Grocery Sales</b> |
| 1. Wal-Mart Stores   | \$66.5 Billion       |
| 2. Kroger Co.  | 46.3 Billion         |
| 3. Albertsons, Inc.  | 32.0 Billion         |
| 4. Safeway, Inc.   | 30.0 Billion         |
| 5. Ahold USA, Inc.   | 25.1 Billion         |
| <b>Historical CR5</b>  |                      |
| 1997   | 2001                 |
| 24%  | 38%                  |
| Progressive Grocer reports only grocery sales from supermarkets, and does not report general merchandise, drug or convenience sales. In the 4/15/04 issue, it reported that total 2003 supermarket sales were \$432.8 billion in the US. |                      |

**Table 2.20** Top European food manufacturers, ranked by turnover in 2002 Source: CIAA

| Manufacturer      | Country | Sales (EUR billion) |   |
|-------------------|---------|---------------------|---|
| Nestlé            | Switz   | 52.6                | Cereal, dairy, beverages, Confectionery                     |
| Unilever          | NL/UK   | 32.1                | Dairy, beverages, dressings, frozen foods, cooking products |
| Diageo            | UK      | 19.0                | Alcoholic beverages, dough products                         |
| Danone            | France  | 14.5                | Dairy, beverages, biscuits and cereals                      |
| Cadbury Schweppes | UK      | 8.9                 | Beverages, confectionary                                    |
| Heineken          | NL      | 8.1                 | Alcoholic beverages   |
| Parlatat          | Italy   | 7.8                 | Dairy, gourmet, biscuits, beverages                         |
| Interbrew         | Belgium | 7.3                 | Alcoholic beverages   |
| ABF               | UK      | 7.1                 | Sugar, starches, baking products, meat, dairy               |
| Tate & Lyle       | UK      | 6.4                 | Sweeteners, starches  |
| Lactilis          | France  | 5.5                 | Dairy   |
| Arla Foods        | Denmark | 5.0                 | Dairy   |
| Sudzucher         | Germany | 4.8                 | Sugar   |

**Table 2.23** Top ten countries for ISO 14001 certificates. Source: ISO, 2003.

|                |        |
|----------------|--------|
| Japan          | 13,416 |
| UK             | 5,460  |
| China          | 5,064  |
| Spain          | 4,860  |
| Germany        | 4,144  |
| USA            | 3,553  |
| Sweden         | 3,404  |
| Italy          | 3,006  |
| France         | 2,344  |
| Korea, Rep. of | 1,495  |

**Table 2. 26** EU market countries clustered by stage of organic market development, 2001. Source: OMIaRD, 2004 in CBI, 2005

| <b>Mature market Countries</b>               | <b>Growth market countries</b>   | <b>Emerging market countries</b>  |
|--|--|---|
| Austria<br>Denmark<br>Germany<br>Switzerland | Finland<br>Italy<br>The Netherlands<br>Sweden<br>France<br>Belgium<br>United Kingdom | Czech Republic<br>Greece<br>Germany<br>Ireland<br>Slovenia<br>Spain<br>Norway<br>Portugal |

**Table 2.28** Fair trade in Europe – data 2003-2004. Source: FINE, 2006.

|  |                |
|--|----------------|
| <b>Importing Organizations (n.)</b>                                  | <b>200</b>     |
| <b>Sales Outlets (n.)</b>  |                |
| World shops  | 2,845          |
| Supermarkets   | 56,700         |
| Others   | 19,300         |
| <b>Total Sales Outlets</b>   | <b>78,900</b>  |
| <b>Paid Staff (n.)</b>   |                |
| Importing organizations  | 851            |
| World shop associations  | 107            |
| Labeling organizations   | 113            |
| <b>Total Paid Staff</b>  | <b>1,071</b>   |
| <b>Turnover (in 000 €)</b>   |                |
| Importing organizations  | 243,300        |
| World shops, net retail value  | 103,100        |
| Labeling organizations, net retail value                             | 597,000        |
| <b>Education/PR/Marketing (in 000 €)</b>                             |                |
| Importing Organizations  | 11,400         |
| World shops associations   | 1,700          |
| Labeling organization  | 5,100          |
| <b>All World shops, net retail value, estimate (in 000 €)</b>        | <b>120,000</b> |
| <b>All Fair Trade products net retail value, estimate (in 000 €)</b> | <b>660,000</b> |

**Table 2.31** Total gross sales in North America (US and Mexico) 2001- 2003. Source: The Fair Trade Foundation, 2005

| Year | Total gross sales Fair Trade million US\$ |
|------|---|
| 2001 | 125.2                                     |
| 2002 | 180                                       |
| 2003 | 276.1                                     |

**Table 2.38** Household consumption expenditure in the EU-25 in 2003. Source: Eurostat, 2005

| Expenditures   | %    |
|--|------|
| Food and non-alcoholic beverages                                     | 13.1 |
| Alcoholic beverages, tobacco and narcotics                           | 3.8  |
| Clothing and footwear  | 6.1  |
| Housing, water, electricity, gas and other fuels                     | 21.5 |
| Furnishing, household equipment and routine maintenance of the house | 6.6  |
| Health   | 3.5  |
| Transport  | 13.5 |
| Communications   | 2.8  |
| Recreation and culture   | 9.4  |
| Education  | 1    |
| Restaurants and hotels   | 9    |
| Miscellaneous goods and services                                     | 9.9  |

**Table 2.40** Proportions of expenditures in real values (average of 1995 and 1999). Source: Schenkel et al., 2005

|                        | <b>Housing</b> | <b>Food</b> | <b>Furnishings</b> | <b>Education and leisure</b> | <b>Transport and communications</b> | <b>Clothing</b> | <b>Health</b> |
|------------------------|----------------|-------------|--------------------|------------------------------|-------------------------------------|-----------------|---------------|
| Western EU             | 19.24          | 18.45       | 6.81               | 12.03                        | 12.73                               | 5.45            | 8.54          |
| Central and Eastern EU | 24.66          | 22.06       | 3.43               | 17.42                        | 8.61                                | 3.46            | 10.89         |
| Total                  | 21.02          | 19.66       | 5.69               | 13.83                        | 11.36                               | 4.79            | 9.32          |

**Table 2.41** Index of relative price (GDP index for each country, 100). Source: Schenkel et al., 2005

|                        | <b>Food</b> | <b>Clothing</b> | <b>Housing</b> | <b>Furnishings</b> | <b>Transport and communications</b> | <b>Education and leisure</b> | <b>Health</b> |
|------------------------|-------------|-----------------|----------------|--------------------|-------------------------------------|------------------------------|---------------|
| Western EU             | 86.94       | 107.9           | 97.5           | 93.06              | 109.6                               | 107.6                        | 99.28         |
| Central and Eastern EU | 139.6       | 183.2           | 75.38          | 157.1              | 175.5                               | 51.85                        | 66.62         |

**Table 2.42** NAE food supply: energy, protein and fats per capita per day. Source: FAOSTAT data 2006 and ERS-USDA, Food consumption data system 2005

|      | <b>Western Europe</b> |                |             | <b>Eastern Europe</b> |                |             | <b>USA</b> |                |          |
|------|-----------------------|----------------|-------------|-----------------------|----------------|-------------|------------|----------------|----------|
|      | Calories              | Protein<br>(g) | Fats<br>(g) | Calories              | Protein<br>(g) | Fats<br>(g) | Calories   | Protein<br>(g) | Fats (g) |
| 1961 | 3001                  | 87             | 106         | 3118                  | 91             | 79          | 3100       | 92             | 138      |
| 2003 | 3535                  | 109            | 149         | 3227                  | 95             | 109         | 3900       | 112            | 178      |

**Table 2.44** NAE food supply: % of energy, protein and fats from animal vs plant origin. Source: FAOSTAT data 2006

|                             | <b>Western Europe</b> |         |      | <b>Eastern Europe</b> |         |      |
|-----------------------------|-----------------------|---------|------|-----------------------|---------|------|
|                             | Calories              | Protein | Fats | Calories              | Protein | Fats |
| Percent from animal sources |                       |         |      |                       |         |      |
| 1961                        | 29                    | 51      | 64   | 23                    | 36      | 73   |
| 2003                        | 31                    | 60      | 55   | 26                    | 50      | 59   |