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**Updated: 2 January 2013**

 **Economics 303Y1**

 **The Economic History of Modern Europe to 1914**

 **Topic no. 7 [no. 13]**

 **Impediments to Industrialization on the Continent:**

 **France in the 18th and 19th Centuries**

**READINGS:**

Within each section, the readings are listed in the chronological order of original publication (when that can be ascertained), except for some collections of essays.

For readings concerning the European economy in general, see section II below (after the readings for France).

**I. FRANCE: 18th to early 20th centuries**

**A. FRANCE: General Studies in Economic History**

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 3. Rondo Cameron, France and the Economic Development of Europe, 1800-1914 (Princeton, 1961).

 4. Jean Marczewski, ‘Some Aspects of the Economic Growth of France, 1660-1958', Economic Development and Cultural Change, 9 (1961).

 5. Jean Marczewski, ‘The Take-Off Hypothesis and French Experience’, in W.W. Rostow, ed., The Economics of Take-Off into Sustained Growth (London, 1963).

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\*\* 10. Roger Price, The Economic Modernization of France (London, 1975). Reissued as An Economic History of Modern France, 1730-1914 (London, 1980).

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17. François Crouzet, De la supériorité de l'Angleterre sur la France: l'économique et l'imaginaire, XVIIe - XXe siècle (Paris, 1985). Reissued in revised form and in English translation as Britain Ascendant: Comparative Studies in British and Franco-British Economic History, Cambridge: Cambridge University Press, 1990.

\* 18. Robert Aldrich, ‘Late-Comer or Early-Starter? New Views on French Economic History’, Journal of European Economic History, 16 (Spring 1987), 89 - 100.

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20. Rick Szostak, The Role of Transportation in the Industrial Revolution: A Comparison of England and France (Montreal: McGill-Queen's University Press, 1991).

21. Raymond A. Jonas, ‘Peasants, Population, and Industry in France’, Journal of Interdisciplinary History, 22 (Autumn 1991), 177-200.

22. Colin Heywood, The Development of the French Economy, 1750 - 1914 (Basingstoke: Macmillan, 1992).

23. Bernard Lepetit, The Pre-Industrial Urban System: France, 1740 - 1840, trans. Godfrey Rogers (Cambridge and New York: Cambridge University Press, 1994).

24. Jean-Marc Morineau, Les fermiers de l’Île de France: L’ascension d’un patronat agricole (XVe-XVIIIe siècles) (Paris: Fayard, 1994).

25. Gérard Béaur, L’immobilier et la Revolution: Marché de la pierre et mutations urbaines, 1770 - 1810, Cahiers des Annales no. 44 (Paris: Armand Colin, 1994).

26. Philippe Fontaine, ‘The French Economists and Politics, 1750 - 1850: the Science and Art of Political Economy’, Canadian Journal of Economics, 29:2 (May 1996), 379-93.

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28. François Crouzet, Britain, France, and International Commerce: Louis XIV to Victoria, Variorum Collected Studies Series: CS542 (London and Brookfield, 1996).

\* 29. Patrick K. O’Brien, ‘Path Dependency: Or Why Britain Became an Industrialized and Urbanized Economy Long Before France’, The Economic History Review, 2nd ser., 49:2 (May 1996), 213-49.

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32. Emma Rothschild, ‘An Alarming Commercial Crisis in Eighteenth-Century Angoulême: Sentiments in Economic History’, The Economic History Review, 2nd ser., 51:2 (May 1998), 268-93.

33. Judith Miller, Mastering the Market: The State and the Grain Trade in Northern France, 1700 - 1860 (Cambridge and New York: Cambridge University Press, 1998).

34. Robert Fox and Anthony Turner, eds., Luxury Trades and Consumerism in Ancien Régime Paris, Variorum Publications (London and Brookfield, 1998).

35. John Harris, Industrial Espionage and Technology Transfer: Britain and France in the Eighteenth Century, Variorum Publications (London and Brookfield, 1998).

36. Michael Kwass, Privilege and the Politics of Taxation in Eighteenth-Century France: Liberté, Egalité, Fiscalité (Cambridge and New York: Cambridge University Press, 2000).

37. Christian Morrisson and Wayne Snyder, ‘The Income Inequality of France in Historical Perspective’, European Review of Economic History, 4:1 (April 2000), 59-84.

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41. Mark Potter, Corps and Clienteles: Public Finance and Political Change in France, 1688 - 1715 (Aldershot: Ashgate, 2003).

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44. Guillaume Daudin, ‘Profitability of Slave and Long-Distance Trading in Context: The Case of Eighteenth-Century France’, Journal of Economic History, 64:1 (March 2004), 144-71.

45. Noel D. Johnson, ‘Banking on the King: The Evolution of the Royal Revenue Farms in Old Regime France’, Journal of Economic History, 66:4 (Dec. 2006), 963-991.

46. Wayne Snyder, ‘Occupational Evolution in XVIIIth and XIXth-Century France’, The Journal of European Economic History, 35:3 (Winter 2006), 585-614.

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48. William Beik, ‘The Violence of the French Crowd from Charivari to Revolution’, Past & Present, no. 197 (November 2007), pp. 75-110.

49. Michael Sonenscher, Before the Deluge: Public Debt, Inequality and the Intellectual Origins of the French Revolution (Princeton and Oxford: Princeton University Press, 2007).

50. Amalia D. Kessler, A Revolution in Commerce: the Parisian Merchant Court and the Rise of Commercial Society in Eighteenth-Century France (New Haven and London: Yale University Press, 2007).

51. John Vincent Nye, War, Wine, and Taxes: the Political Economy of Anglo-French Trade, 1689 - 1900 (Princeton and Oxford: Princeton University Press, 2007).

52. Gabriel Galvez-Behar, La République des inventeurs: propriété et organisation de l’innovation en France, 1791- 1922 (Rennes: Presses Universitaires de Rennes, 2008).

52. Michael P. Fitzsimmons, From Artisan to Worker: Guilds, the French State, and the Organization of Labor, 1776 - 1821 (Cambridge and New York: Cambridge University Press, 2010)

53. Guillaume Daudin, ‘Domestic Trade and Market Size in Late-Eighteenth-Century France’, Journal of Economic History, 70:3 (September 2010), 716-43.

**B. France: Demography and Population Studies**

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 7. Charles H. Pouthas, La population française pendant la première moitié du XIXe siècle (Paris, 1956).

 8. J. C. Toutain, ‘La population de la France de 1700 à 1959', Cahiers de l'ISEA, ser AF, no. 3 (Jan. 1963).

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(a) Herbert Moller, ‘Introduction’, pp. 1-7.

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\* 11. D.V. Glass and D.E.C. Eversley, eds., Population in History: Essays in Historical Demography (London, 1965). See the following essays:

**Part I: General**

(a) D.V. Glass, ‘Introduction’, pp. 1-22.

(b) D.E.C. Eversley, ‘Population, Economy, and Society’, pp. 23-69. [Original contribution.]

(c) Louis Chevalier, ‘Towards a History of Population’, pp. 7--78. [Reprinted from Population (1946), 245-56.]

(d) K.F. Helleiner, ‘The Vital Revolution Reconsidered’, pp. 79-86. [Reprinted from The Canadian Journal of Economics and Political Science, 23 (1957), with minor revisions.]

(e) J. Hajnal, ‘European Marriage Patterns in Perspective’, pp. 101-46. [Original contribution.]

**Part III: Europe and the United States**

(a) Louis Henry, ‘The Population of France in the Eighteenth Century’, pp. 434 - 56. [Original contribution, translated by Peter Jimack.]

 (b) Pierre Goubert, ‘Recent Theories and Research in French Population between 1500 and 1700', pp. 457-473. [Original contribution, translated by Margaret Hilton.]

(c) J. Bourgeois-Pichat, ‘The General Development of the Population of France Since the Eighteenth Century’, pp. 474-506. [Reprinted from Population, 6 (1951), 635-62, with statistical appendices from 7 (1952), 319-29.]

(d) J. Meuvret, ‘Demographic Crisis in France from the Sixteenth to the Eighteenth Century’, pp. 507-22. [Original contribution, translated by Margaret Hilton.]

12. M. Reinhard, ‘Demography, the Economy, and the French Revolution’, in E. Acomb and M. Brown, eds., French Society and Culture Since the Old Regime (New York, 1966).

13. Jacques Dupâquier, ‘Sur la population française au XVIIe et au XVIIIe siècle’, Revue historique, 239 (1968), 43-79. Reissued in English translation as ‘French Population in the 17th and 18th Centuries’, in Rondo Cameron, ed., Essays in French Economic History (Homewood, Illinois, 1970), pp. 150-69.

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17. André Armengaud, La population française au XIXe siècle (Paris, 1976).

18. Jean-Louis Flandrin, Familles, parenté, maison, et sexualité dans l'ancienne société (Paris, 1976; new edn. 1984).

19. William H. Newall, Population Change and Agricultural Development in Nineteenth Century France (New York, 1977).

20. Jacques Dupâquier, La population française aux XVIIe et XVIIIe siècles (Paris, 1979);

21. Philippe Ariès, Histoire des populations françaises et de leur attitude devant la vie depuis le XVIIIe siècle (Paris, 1979).

22. E. Van de Walle, ‘France’, in R. Lee, ed., European Demography and Economic Growth (London, 1979).

\*\* 23. Andrew Appleby, ‘Grain Prices and Subsistence Crises in England and France, 1590-1740', Journal of Economic History, 39 (1979), 865-88.

24. David Grigg, Population Growth and Agrarian Change: An Historical Perspective (Cambridge University Press, 1980), chapter 9, ‘France in the Eighteenth and Nineteenth Centuries’, pp. 190 - 206.

25. Antoinette Fauve-Chamoux, ‘The Importance of Women in an Urban Environment: the Example of the Rheims Household at the Beginning of the Industrial Revolution’, in Richard Wall, ed., Family Forms in Historic Europe, SSRC Cambridge Group for the History of Population and Social Structure (Cambridge and New York: Cambridge University Press, 1983), pp. 475-92.

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28. John Walter and Roger Schofield, eds., Famine, Disease and the Social Order in Early Modern Society, Cambridge Studies in Population no. 10 (Cambridge, 1989):

(a) John Walter and Roger Schofield, ‘Famine, disease and crisis mortality in early modern society’, pp. 1-74.

(b) Jacques Dupâquier, ‘Demographic crises and subsistence crises in France, 1650 - 1725', pp. 189-200.

(c) David Weir, ‘Markets and Mortality in France, 1600 - 1789', pp. 201-34.

(d) Roger Schofield, ‘Family structure, demographic behaviour, and economic growth’, pp. 279-304.

29. Michiel Alexander Van Meerten, ‘Développement économique et stature en France, XIXe - XXe siècles’, Annales: Économies, sociétés, civilisations, 65 (mai-juin 1990), 755 - 78.

30. Wayne Lewchuk, ‘Industrialization and Occupational Mortality in France Prior to 1914', Explorations in Economic History, 28:3 (July 1991), 344 - 66.

31. John Komlos, ‘The Nutritional Status of French Students’, Journal of Interdisciplinary History, 24:3 (Winter 1994), 493-508.

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38. Libby Schweber, Disciplining Statistics: Demography and Vital Statistics in France and England, 1830 - 1885 (Durham: Duke University Press, 2007).

**C. France in the 17th and 18th Centuries: to the French Revolution**

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 3. C. W. Cole, French Mercantilist Doctrines before Colbert (New York, 1931; republished 1969).

 4. C. W. Cole, French Mercantilism, 1683 - 1700 (New York: Columbia University Press, l943; reprinted 1965, 1971).

 5. C.E. Labrousse, La crise de l'économie française à la fin de l'ancien régime et au début de la Revolution (Paris, 1944).

 6. David Landes, ‘The Statistical Study of French Crises’, Journal of Economic History, 10 (1950). A critique of Labrousse (1944).

 7. Elinor Barber, The Bourgeoisie in 18th Century France (Princeton, 1955).

 8. R.W. Greenlaw, ed., Economic Origins of the French Revolution: Poverty or Prosperity? (Boston, 1958).

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( (a) Elinor G. Barber, ‘The Bourgeois Way of Life in 18th Century France’, pp. 61-74. [Reprinted from Elinor Barber, The Bourgeoisie in 18th Century France (Princeton, 1955).]

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(a) R.M. Hartwell, ed., Causes of the Industrial Revolution in England (London, 1967), pp. 139-74.

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Note: this set of historical studies is organized not by the nation state (as is my course), but by general topics and the chief economic sectors of the European economy (including Great Britain). Germany is thus discussed in most of these chapters. The second volume obviously continues for almost a century after World War I, the terminal date for this course; but Part I of Volume II does cover the very relevant period 1870 to 1914 (pp. 1-129.)

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**QUESTIONS:**

 1. What were the major impediments to economic growth and more particularly to industrialization in 18th and 19th century France?

a) For the 18th century, up to the French Revolution, were economic growth rates about comparable; or did the British surpass the French -- before or after the commencement of Britain's Industrial Revolution?

b) What impact did the French Revolution, the subsequent Revolutionary and Napoleonic Wars, and Napoleon's economic policies have upon the French economy and French economic growth rates? Is this the period in which the British economy decisively overtook the French?

c) Compare French and British economic growth rates in the 19th century.

 2. Discuss the various impediments to French economic growth, or to growth in various regions of France, during the 18th and 19th centuries in terms of the following:

a) the institutional heritage of the past: feudalism and manorialism;

b) the structure of agriculture, in both southern and northern France;

c) the location of natural resources in relation to transportation facilities and major ports and markets;

d) demographic trends and population structures in rural and urban areas;

e) political institutions of the Ancien Régime, the Revolutionary and Napoleonic Periods; and in the post 1815 period.

f) government economic policies, before and after 1789: agriculture and land reform; commercial, monetary, and fiscal policies;

g) educational institutions and structures;

h) commercial and financial institutions: business organization and business attitudes; the scale of enterprise;

i) social structures and social attitudes: towards business, commerce and finance, industry, labour, etc.: before and after 1789.

 3. To what extent were these problems or impediments merely regional and to what extent were they general and ‘national’? What were the most pronounced regional differences in the economic development of France before the French Revolution? Which were the most developed and prosperous regions; and which were the most economically ‘backward’ and poorest regions? How do you explain the regional differences?

 4. Discuss the thesis that the French economy industrialized much more slowly and much less completely than either the British or the German economies in the 19th century (1815 - 1914). Discuss the ‘revisionist’ case for a much more favourable comparison between British and French growth rates in the 19th century.

 5. Discuss the impact of the French Revolutionary Land Reforms upon French agriculture and the French economy more generally in the 19th century.

 6. Discuss and debate some of the current theses about the nature of French economic growth in the later 18th and 19th centuries:

a) Rondo Cameron's thesis about the relationships between/among the Revolutionary Land Reforms, peasant farming after the Revolution, slow population growth, and economic stagnation (rural and urban). What is the evidence for his thesis, particularly for demographic stagnation and labour scarcity?

b) David Landes' thesis that the family -- in agriculture, trade, banking, and industry, both as a social and economic unit -- acted as an impediment to entrepreneurship, industrialization, and economic growth in the 18th and 19th centuries. How important was industrial scale and industrial organization to economic growth in the 19th century? Was France unique? Discuss in particular Claude Fohlen's revision of the Landes thesis.

c) The O'Brien-Keyder thesis comparing the structures of British and French agriculture (especially northern French agriculture) in the 18th and 19th centuries. Discuss the problems of French agriculture, and their impact on French industrialization.

d) The Roehl thesis on French industrialization: in using Gerschenkron's categories of ‘backwardness’ -- in reverse form --to interpret French industrialization in the 19th century.

e) Crouzet's ‘revisionist’ theses on French economic growth in the 19th century.

f) Craft's ‘Review of the Evidence’ in discussing these debates and economic issues concerning the 19th century French economy.

 7. Is it legitimate to consider problems of French economic growth in the 19th century as though France had been a fully integrated and homogenous national economic entity? Is it justifiable to make national economic comparisons between and among France, Great Britain, Germany, and Russia -- particularly in terms of ‘national growth rates?’ Or should we more properly make comparisons in terms of regional economies within all these countries? In the case of France, should we examine the question of industrialization in terms of the different experiences for such regions as North-West France (Lille and the Pas de Calais), Alsace-Lorraine, Normandy, etc.? If we are examining industrialization in terms of iron, coal, and steel, should we make comparisons between the British Midlands, France's Lille region, Alsace-Lorraine, southern Belgium, the Rhineland and Saar regions, and the Donbas region of Russia? [See question 3 above]

 8. Under what other circumstances may national economic comparisons be more valid? What were the particularly ‘national’ features of French economic development between 1789 and 1914?

 9. Discuss the role of the state and government economic policies in French industrialization from 1789 to 1914: positive or negative? Discuss in particular government fiscal, monetary, financial, commercial, military, and industrial policies.

10. What role did warfare, national defence, and foreign policy play in French economic development from 1789 to 1914?

11. What were the costs of the defeat in the Franco-Prussian war of 1870-1 -- its impact on French economic development until 1914?

12. Discuss the role of foreign investments in French economic development: France's role as both an importer and exporter of capital, between 1815 and 1914?

13. What role did foreign trade and overseas colonization play in French economic development during the 19th century?

14. Did any region of France undergo either an agricultural or industrial ‘revolution’ before 1914?

**Table 1 (a). FRENCH AND GERMAN AGRICULTURE IN THE 19th CENTURY**

 **Distribution of Farm Lands**

**A. FRANCE: 1881**

**Category Number Percentage Area in Percentage**

 **of Farms of Total Hectares of Total**

 **by Area Farms (2.47 acres) Area**

Under 5

hectares 1,866,000 53.3% 5,600,000 11.5%

5 - 20

hectares 1,200,000 34.2% 12,300,000 25.3%

20 - 40

hectares 296,000 8.5% 8,400,000 17.3%

Over 40 hectares

(100 acres) 142,000 4.1% 22,300,000 45.9%

**TOTAL 3,504,000 100.0% 48,600,000 100.0%**

**Over 20**

**hectares**  438,000 12.5% 30,700,000 63.2%

**Table 1 (b). FRENCH AND GERMAN AGRICULTURE IN THE 19th CENTURY**

 **Distribution of Farm Lands**

**B. GERMANY: 1907 (In terms of post 1919-frontiers)**

**Category Percentages of the Total Arable Area per Category**

 **of Farms by Area**

 **East Rest of All**

 **Elbia\* Germany Germany**

Under 5 hectares 8.7% 21.0% 16.2%

5 - 20 hectares 21.3% 41.0% 33.4%

20 - 100 hectares 29.5% 29.9% 29.8%

Over 100 hectares 40.5% 8.1% 20.6%

(250 acres)

Over 20 hectares 70.0% 38.0% 50.4%

\* East Elbia: Posen and West Prussia, East Prussia, Pomerania, Brandenburg-Berlin, Silesia, Mecklenburg.

**Table 2. OUTPUT OF PRINCIPAL GRAIN CROPS OF SELECTED EUROPEAN COUNTRIES, IN MILLIONS OF QUINTALS, IN DECENNIAL AVERAGES, 1871-90 TO 1905-14**

 **Great**

**Decade Britain France Germany Russia**

**1781-90** 35.0 85.3

**1800-13** 43.0 94.5 268.6

**1815-24** 49.5 104.0 n.a.

**1825-34** n.a. 116.3 n.a.

**1835-44** n.a. 131.4 310.1

**1845-54** 64.0 146.6 122.6 363.3

**1855-64** 68.0 158.5 153.7 381.2

**1865-74** 70.0 160.1 204.8 410.1

**1875-84** n.a. 161.8 248.4 451.0

**1885-94** 56.9 160.1 304.6 515.4

**1895-1904** 52.5 172.1 391.0 479.3

**1905-14** 51.7 171.9 457.9 543.1

1 quintal = 100 kilograms = 0.10 metric ton = 220.46 lb.

**Source:** Carlo Cipolla, ed., *Fontana Economic History of Europe* (London, 1973), Vol. IV:2, pp. 752-53.

**Table 3. CROP YIELDS IN FRANCE, BRITAIN, AND GERMANY, 1906-10**

**Kilograms of Output per Hectare of Land: Five-Yer Means**

 **(1 hectare = 2.47 acres)**

**Crop France Britain Germany**

Wheat 135 221 201

Rye 106 182 170

Barley 130 196 196

Oats 126 189 197

Potatoes 86 138 136

**Source:** J.A. Perkins, ‘The Agricultural Revolution in Germany, 1850-1914', *Journal of European Economic History*, 10 (Spring 1981), p. 115.

**Table 4. WHEAT-TONS PER LABOUR-UNIT IN AGRICULTURE IN SELECTED COUNTRIES: FRANCE, BRITAIN, GERMANY, AND U.S.IN 1880 AND 1930**

**Country 1880 1930**

France 7.4 13.2

Great Britain 16.2 20.1

Germany 7.9 16.0

United States 13.0 22.5

**Table 5. INDICES OF EUROPEAN AND AMERICAN AGRICULTURAL PRODUCTIVITY** **FROM 1810 TO 1910**

 **Annual net output per agricultural worker (male)**

 **measured in million of calories**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **COUNTRY** | **1810** | **1840** | **1860** | **1880** | **1900** | **1910** |
| **Britain** | 14.0 | 17.5 | 20.0 | 23.5 | 22.5 | 23.5 |
| **France** | 7.0 | 11.5 | 14.5 | 14.0 | 15.5 | 17.0 |
| **Germany** |  | 7.5 | 10.5 | 14.5 | 22.0 | 25.0 |
| **Russia** |  | 7.0 | 7.5 | 7.0 | 9.0 | 11.0 |
| **U.S.A.** |  | 21.5 | 22.5 | 29.0 | 31.0 | 42.0 |

**Source:** Paul Bairoch, ‘Niveaux de développement économique de 1810 à 1910', *Annales: Économies, sociétés, civilisations*, 20 (1965), 1096, Table 1.

 **Table 6.**

 **Birth Rates in France, Germany, and Britain in 1900**

|  |  |
| --- | --- |
|  **COUNTRY** | **Birth Rates per 1000****in 1900**  |
| **FRANCE** | 19.7 |
| **GERMANY** | 24.8 |
| **GREAT BRITAIN** | 29.8 |

**Table 7:**

 **Rural and Agricultural Proportions of French Population, from 1870 to 1930**

|  |  |  |
| --- | --- | --- |
| **Year** | **Percentage in****Rural Areas** | **Percentage in****Agriculture** |
| **1870** | 69% | 52% |
| **1900** | 59% | 43% |
| **1930** | 50% | 36% |

**Table 8:**

**Number of European Cities over 100,000 in 1900**

|  |  |
| --- | --- |
| **FRANCE** | 15 |
| **GERMANY** | 48 |
| **BRITAIN** | 50 |

**Table 9.**

**Proportions of Total Populations engaged in Agriculture in England and France**

|  |  |  |
| --- | --- | --- |
| **YEAR** | **ENGLAND** | **FRANCE** |
| **1500** | 76% | 73% |
| **1600** | 70% | 69% |
| **1700** | 55% | 63% |
| **1750** | 46% | 61% |
| **1800** | 40% | 59% |

**Sources:**

E. Anthony Wrigley, ‘Urban Growth and Agricultural Change: England and the Continent in the Early Modern Period’, *Journal of Interdisciplinary History*, 15:4 (Spring 1985), 683-728. Special issue with the title *Population and Economy: From the Traditional to the Modern World.*

Robert Allen, ‘The Growth of Labour Productivity in Early-Modern English Agriculture’, *Explorations in Economic History*, 215:2 (April 1988), 117-46.

 **Table 10.**

 **BANK RESOURCES AS A PERCENTAGE OF NET NATIONAL INCOME**

**COUNTRY YEAR PERCENTAGE OF NNI**

**FRANCE** 1870 16%

**ENGLAND** 1844 34%

**BELGIUM** 1875 42%

**PRUSSIA** 1865 31%

**RUSSIA** 1910 61%

**U.S.A.** 1871 30%

 **Table 11.**

 **FOREIGN CAPITAL INVESTMENTS OF THE CHIEF LENDERS**

 **expressed in millions of current American dollars**

**COUNTRY 1870 1910 1914 % of 1914**

**U.K.** 4,900 12,000 20,000 44.0%

**FRANCE** 2,500 5,800 9,050 19.9%

**GERMANY** 4,800 5,800 12.8%

**U.S.** 100 500 3,500 7.8%

**OTHER** 500 1,100 7,100 18.6%

**TOTAL 45,450 100.0%**

**Source:** Sidney Pollard, ‘Capital Exports, 1870 - 1914', *Economic History Review*, 2nd ser., 38 (November 1985).

**Table 12. PER CAPITA PRODUCT IN SELECTED**

 **EUROPEAN COUNTRIES, 1850 - 1910:**

 **Measured in Constant 1970 U.S. Dollars**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **COUNTRY** | **1850** | **1870** | **1890** | **1910** | **Percent-****age Total** **Growth****1850-1910** |
| **BRITAIN** | 660 | 904 | 1,130 | 1,302 | 197% |
| **FRANCE** | 432 | 567 | 668 | 883 | 204% |
| **GERMANY** | 418 | 579 | 729 | 958 | 229% |
| **BELGIUM** | 534 | 738 | 932 | 1,110 | 208% |
| **NETHER-LANDS** | 481 | 591 | 768 | 952 | 198% |

**Source:** Nicholas Crafts, ‘Gross National Product in Europe, 1870 - 1910: Some New Estimates’, *Explorations in Economic History*, 20 (October 1983), 387-401.

**Table 13:** **Railway Tracks Open at Decennial Intervals, 1840 - 1914 in kilometres:**

 **Britain, Belgium, France, Germany, and Russia**\*

**Year Britain Belgium FRANCE Germany Russia**

**1840**  2,390 335  **498** 468 27

**1850**  9,791 903 **2,914** 5,856 500

**1860** 14,594 1,730 **9,166** 11,088 1,625

**1870** 21,545 2,897 **16,464** 18,875 10,731

**1880** 25,045 4,112 **23,233a** 33,836b 22,864

**1890** 27,810 4,525 **33,278** 42,868 30,594

**1900** 30,061 4,591 **38,107** 51,675 53,231

**1910** 32,163 4,678 **40,483** 61,205 66,579

**1913** 32,613 n.a. **40,768** 63,375 70,153

\* 1 km. = 0.6214 miles.

a. Excluding Alsace-Lorraine: ceded to Germany in 1871

b. Including Alsace-Lorraine: acquired from France in 1871

**Sources:**

B.R. Mitchell and Phyllis Deane, *Abstract of British Historical Statistics* (Cambridge, 1962), pp. 225-26; Carlo Cipolla, ed., *Fontana Economic History of Europe*, Vol. IV:2, *The Emergence of Industrial Societies* (London, 1973), pp. 790, 794.

**Table 14.** **FOREIGN TRADE**

**CURRENT VALUES AND INDICES OF THE DOMESTIC EXPORTS OF THE UNITED KINGDOM, FRANCE, AND GERMANY: QUINQUENNIAL MEANS, 1860-4 TO 1910-13**

 **Mean of 1870 - 4 = 100**

**Period United Kingdom U.K. France France Germany Germany**

 **Domestic Ex- Index Exports in Index Exports in Index**

 **ports in 1870-4 Millions of 1870-4 Millions of 1870-4**

 **Millions = 100 Francs = 100 Marks = 100**

**1860-4** 138.4 58.9 2,402.6 71.0

**1865-9** 181.1 77.1 2,992.0 88.4

**1870-4** 234.8 100.0 3,385.0 100.0 2,328.4\* 100.0

**1875-9** 201.5 85.8 3,459.2 102.2 2,696.1\* 115.8

**1880-4** 234.3 99.8 3,457.4 102.1 3,125.0 134.2

**1885-9** 226.2 96.3 3,306.8 97.7 3,067.4 131.7

**1890-4** 234.4 99.8 3,419.6 101.0 3,102.0 133.2

**1895-9** 239.7 102.1 3,607.4 106.6 3,688.4 158.4

**1900-4** 289.2 123.2 4,215.4 124.5 4,791.6 205.8

**1905-9** 377.3 160.7 5,191.4 153.4 6,386.0 274.3

**1910-3** 474.2 202.0 6,476.0 191.3 8,658.8 371.9

\* estimated

**Source:**  B.R. Mitchell, ‘Statistical Appendix’, in Carlo Cipolla, ed., *Fontana Economic History of Europe*, Vol. IV:2, *Emergence of Industrial Societies* (1973), pp. 798-800.

**Table 15. THE POPULATIONS OF SELECTED EUROPEAN COUNTRIES IN MILLIONS, IN DECENNIAL INTERVALS, 1800-1910**

 **Great**

**Year Britain Belgium France Germany Russia**

**1800** 10.7 3.1 27.3 n.a. 35.5

**1810** 12.0 n.a. n.a. n.a. n.a.

**1820** 14.1 n.a. 30.5 25.0 48.6

**1830** 16.3 4.1 32.6 28.2 56.1

**1840** 18.5 4.1 34.2 31.4 62.4

**1850** 20.8 4.3 35.8 34.0 68.5

**1860** 23.2 4.5 37.4 36.2 74.1

**1870** 26.0 4.8 36.1a 40.8b 84.5

**1880** 29.7 5.3 37.7 45.2 97.7

**1890** 33.0 6.1 38.3 49.4 117.8

**1900** 37.0 6.6 39.0 56.4 132.9

**1910** 40.9 7.4 39.6 64.9 160.7

a Excluding Alsace-Lorraine.

b Including Alsace-Lorraine.

**Sources:**  B.R. Mitchell and P. Deane, *Abstract of British Historical Statistics* (Cambridge, 1962), pp. 8-10.

 Carlo Cipolla, ed., *Fontana Economic History of Europe* (London, 1973), Vol. IV:2, pp. 747-48.

**Table 16. OUTPUT OF COAL IN MILLIONS OF METRIC TONS:**

 **FOR SELECTED EUROPEAN COUNTRIES, DECENNIAL MEANS: 1820/9 - 1910/3**

**Decade Great Belgium France Germany Russia**

 **Britain**

**1820-9** 20.00 n.a. 1.30 1.40 n.a.

**1830-9** 25.45 2.75 2.45 2.45 n.a.

**1840-9** 40.40 4.60 3.95 5.25 n.a

**1850-9** 59.00 7.70 6.45 11.95 n.a

**1860-9** 95.50 11.35 11.35 25.90 0.45

**1870-9** 129.45 14.70 16.20 45.65a 1.60

**1880-9** 163.40 17.95 20.85 71.90b 4.35

**1890-9** 194.15 20.70 28.45 107.05c 9.05

**1900-9** 245.30 24.05 34.70 179.25d 20.50

**1910-3** 275.40 24.80 39.90 247.50e 30.20

**Germany:** proportion of total coal output accounted for by lignite:

a. in 1871 22.4%

b. in 1880 20.5%

c. in 1890 21.4%

d. in 1900 27.0%

e. in 1910 31.3%

1 metric tonne = 1000 kilograms = 2,204.6 lb.

**Source:** Carlo Cipolla, ed., *Fontana Economic History of Europe* (London, 1973), Vol. IV:2, p. 770.

**Table 17. DECENNIAL AVERAGES OF THE OUTPUT OF PIG IRON AND**

 **STEEL IN FRANCE, GERMANY, RUSSIA, AND THE UNITED**

 **KINGDOM, IN MILLIONS OF METRIC TONS,**

**1830-9 TO 1910-3 (IRON) AND 1870-9 TO 1910-3 (STEEL)**

 **Average of 1880-9 = 100. 1 metric ton = 1000 kg. = 2,204.6 lb.**

 **United**

**Decade France Index Germany Index Russia Index Kingdom Index**

**IRON**

**1830-9** 0.286 16 0.129 4 0.172 31 0.921 11

**1840-9** 0.442 25 0.172 5 0.192 35 1.625 20

**1850-9** 0.731 25 0.334 5 0.243 44 3.150 39

**1860-9** 1.164 66 0.813 25 0.304 56 4.602 57

**1870-9** 1.337 75 1.678 52 0.400 73 6.648 81

**1880-9** 1.772 100 3.217 100 0.547 100 8.040 100

**1890-9** 2.192 124 5.155 160 1.539 281 8.090 101

**1900-9** 3.028 171 9.296 289 2.786 509 9.317 116

**1910-13** 4.664 263 14.836 461 3.870 707 9.792 122

**STEEL**

**1870-9** 0.260\* 52 0.080\* 33 0.695 30

**1880-9** 0.500 100 1.320 100 0.240 100 2.340 100

**1890-9** 1.015 203 3.985 302 0.930 388 3.760 161

**1900-9** 2.175 435 9.505 720 2.490 1038 5.565 238

**1910-13** 4.090 818 16.240 1230 4.200 1750 6.930 296

\*1875-9 only.

**Table 18. AGGREGATE AND PER CAPITA INDICES OF INDUSTRIAL**

 **PRODUCTION (UNITED KINGDOM IN 1900 = 100), AND PERCENTAGE**

 **SHARES OF WORLD INDUSTRIAL PRODUCTION, FOR VARIOUS**

 **COUNTRIES: IN 1860 AND 1913**

**Country Total Per Capita Percentage Shares of**

 **Industrial Industrial World Industrial**

 **Output Output Production**

**With 1913 1860 1913 1860 1913 1860 1913**

**Frontiers Index Index Index Index % %**

United

Kingdom\* 45 127 64 115 20% 14%

Germany 11 138 15 85 5% 15%

France 18 57 20 59 8% 6%

Russia 16 77 8 20 7% 8%

**ALL EUROPE 120 528 17 45 53% 57%**

United

States 16 298 21 126 7% 32%

Canada 1 9 7 46 -- 1%

**Source:** Paul Bairoch, ‘International Industrialization Levels from 1760 to 1980', *Journal of European Economic History*, 11 (Fall 1982), 269-333, tables 4 - 13.

\* The United Kingdom of Great Britain and Ireland: the values for its aggregate and per capita industrial outputs for 1900 are taken as the base 100 for all the indices in columns 1 to 4. Note that columns 5 and 6 are percentages of total world industrial output.

**Table 19. INDICES OF INDUSTRIAL OUTPUT\*: IN THE UNITED KINGDOM, FRANCE, GERMANY, AND THE UNITED STATES IN QUINQUENNIAL MEANS, 1860-4 TO 1910-13 MEAN OF 1870-4 = 100**

**Period United France Germany United**

 **Kingdom States**

**1860-64** 72.6

**1865-69** 82.8 95.8 72.6 75.5

**1870-74** 100.0 100.0 100.0 100.0

**1875-79** 105.5 109.5 120.8 111.4

**1880-84** 123.4 126.6 160.6 170.4

**1885-89** 129.5 130.3 194.9 214.9

**1890-94** 144.2 151.5 240.6 266.4

**1895-99** 167.4 167.8 306.4 314.2

**1900-04** 181.1 176.1 354.3 445.7

**1905-09** 201.1 206.2 437.4 570.0

**1910-13** 219.5 250.2 539.5 674.9

\* Excluding construction, but including building materials.

**Source:**  W. Arthur Lewis, *Growth and Fluctuations, 1870 - 1913* (London, 1978), pp. 248-50, 269, 271, 273.

**Table 20. Demographic and National Income Data for France and Britain, 1800 - 1910**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Category** | **1830** | **1840** | **1850** | **1870** | **1890** | **1910** |
| **Income Level****in 1970 $US**FranceBritain**Birth** **Rate\***FranceBritain**Death Rate**\*FranceBritain**Labour Force****in Agriculture+**FranceBritain**Agri Income****as % GNP+**FranceBritain**Manuf Income****as % of GNP**FranceBritain**Gr Dom Inv****as % GNP** FranceBritain | $34329.925.0n.a.38.535.9n.a. | $56735.922.225.024.931.510.5 | $43226.821.451.833.039.312.4 | $567$90425.935.228.422.949.320.033.518.836.033.512.5 8.5 |  $668$1,13021.830.222.819.545.916.328.013.436.833.614.0 7.3 |  $883$1,30219.625.117.813.541.015.128.710.338.631.813.6 7.0 |

\* Birth and Death Rates: crude rates measured per thousand

+ Agriculture includes extractive industries as well

n.a. = data are not available

**Source:** Nicholas Crafts, ‘Economic Growth in France and Britain, 1830 - 1910: A Review of the Evidence’, *The Journal of Economic History*, 44:1 (March 1984), Tables 2-3, pp. 53-54.