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**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: 18<sup>th</sup> to early 20<sup>th</sup> centuries**

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

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2. Guy Palmade, Capitalisme et capitalistes français au XIXe siècle (Paris: Armand Colin, 1961); translated by Graeme Holmes and republished as French Capitalism in the Nineteenth Century (Newton Abbot: David and Charles, 1972).
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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).
6. Charles Kindleberger, Economic Growth in France and Britain, 1851-1950 (Cambridge, Mass. 1964).
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- \* 9. Alan Milward and S.B. Saul, Economic Development of Continental Europe, 1780-1870 (London, 1973), chapters 2, 4, 5.
- \*\* 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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- \* 12. Alan Milward and S.B. Saul, Development of the Economics of Continental Europe, 1850-1914 (London, 1977), chapter 2, pp. 71-141.
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16. Jean-Charles Asselain, Histoire économique de la France, 2 vols. (Paris, Editions du Seuil, 1984).
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.
27. Philip Hoffman, Growth in a Traditional Society: The French Countryside, 1450 - 1815 (Princeton: Princeton University Press, 1996).
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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- \* 31. George Grantham, 'The French Cliometric Revolution: A Survey of Cliometric Contributions to French Economic History', European Review of Economic History, 1:3 (December 1997), 353-405.
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).
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42. David Stasavage, Public Debt and the Birth of the Democratic State: France and Great Britain, 1688 - 1789 (Cambridge and New York: Cambridge University Press, 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.
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49. Michael Sonenscher, Before the Deluge: Public Debt, Inequality and the Intellectual Origins of the French Revolution (Princeton and Oxford: Princeton University Press, 2007).
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51. John Vincent Nye, War, Wine, and Taxes: the Political Economy of Anglo-French Trade, 1689 - 1900 (Princeton and Oxford: Princeton University Press, 2007).

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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)
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  - (c) Peter Rassow, 'Some Social and Cultural Consequences of the Surge of Population in the Nineteenth Century', pp. 62-5. [Republished in translation from L.

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#### **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.]
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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.
  14. M. Reinhard, A. Armengaud, and J. Dupâquier, Histoire générale de la population mondiale (Paris, 1968). Not surprisingly, this volume has a considerable focus on France.
  15. André Armengaud and P. Léon, et al., Industrialisation et démographie dans la France au 19e siècle (Paris, 1970).
  16. Michel Morineau, Les faux-semblants d'un démarrage économique: agriculture et démographie en France au XVIIIe siècle, Cahiers des Annales no. 30 (Paris: Armand Colin, 1971).
  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).
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  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.
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  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.
  26. Mary Kilbourne Matossian, 'Mold Poisoning and Population Growth in England and France,

- 1750-1850', Journal of Economic History, 44 (Sept. 1984), 669-86.
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    - (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.
  32. David Weir, 'Family Income, Mortality, and Fertility on the Eve of the Demographic Transition: A Case Study of Rosny-sous-Bois', The Journal of Economic History, 55:1 (March 1995), 1-26.
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  36. John Komlos, 'An Anthropomorphic History of Early-Modern France', European Review of Economic History, 7:2 (August 2003), 159-89.
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**C. France in the 17th and 18th Centuries: to the French Revolution**

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2. Henri Sée, Economic and Social Conditions in France During the Eighteenth Century, English translation (New York, 1927). New French edition: La France économique et sociale au XVIIIe siècle (Paris, 1969). A classic, but largely outdated by later writings.
3. C. W. Cole, French Mercantilist Doctrines before Colbert (New York, 1931; republished 1969).
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  - (a) Elinor G. Barber, 'The Bourgeois Way of Life in 18th Century France', pp. 61-74.

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Vol. I: 1700 - 1870

Vol. II: 1870 to the Present

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.)

## **B. The Smaller Countries of Continental Europe**

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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**

<b>Category</b>	<b>Number of Farms by Area</b>	<b>Percentage of Total Farms</b>	<b>Area in Hectares (2.47 acres)</b>	<b>Percentage of Total Area</b>
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%
<b>TOTAL</b>	<b>3,504,000</b>	<b>100.0%</b>	<b>48,600,000</b>	<b>100.0%</b>
<b>Over 20 hectares</b>	<b>438,000</b>	<b>12.5%</b>	<b>30,700,000</b>	<b>63.2%</b>

**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 Elbia*	Rest of Germany	All 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 (250 acres)	40.5%	8.1%	20.6%
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**

<b>Decade</b>	<b>Great Britain</b>	<b>France</b>	<b>Germany</b>	<b>Russia</b>
<b>1781-90</b>	35.0	85.3		
<b>1800-13</b>	43.0	94.5		268.6
<b>1815-24</b>	49.5	104.0		n.a.
<b>1825-34</b>	n.a.	116.3		n.a.
<b>1835-44</b>	n.a.	131.4		310.1
<b>1845-54</b>	64.0	146.6	122.6	363.3
<b>1855-64</b>	68.0	158.5	153.7	381.2
<b>1865-74</b>	70.0	160.1	204.8	410.1
<b>1875-84</b>	n.a.	161.8	248.4	451.0
<b>1885-94</b>	56.9	160.1	304.6	515.4
<b>1895-1904</b>	52.5	172.1	391.0	479.3
<b>1905-14</b>	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)**

<b>Crop</b>	<b>France</b>	<b>Britain</b>	<b>Germany</b>
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**

<b>Country</b>	<b>1880</b>	<b>1930</b>
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**

<b>COUNTRY</b>	<b>1810</b>	<b>1840</b>	<b>1860</b>	<b>1880</b>	<b>1900</b>	<b>1910</b>
<b>Britain</b>	14.0	17.5	20.0	23.5	22.5	23.5
<b>France</b>	7.0	11.5	14.5	14.0	15.5	17.0
<b>Germany</b>		7.5	10.5	14.5	22.0	25.0
<b>Russia</b>		7.0	7.5	7.0	9.0	11.0
<b>U.S.A.</b>		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**

<b>COUNTRY</b>	<b>Birth Rates per 1000 in 1900</b>
<b>FRANCE</b>	19.7
<b>GERMANY</b>	24.8
<b>GREAT BRITAIN</b>	29.8

**Table 7:**

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

<b>Year</b>	<b>Percentage in Rural Areas</b>	<b>Percentage in Agriculture</b>
<b>1870</b>	69%	52%
<b>1900</b>	59%	43%
<b>1930</b>	50%	36%

**Table 8:**  
**Number of European Cities over 100,000 in 1900**

<b>FRANCE</b>	15
<b>GERMANY</b>	48
<b>BRITAIN</b>	50

**Table 9.**  
**Proportions of Total Populations engaged in Agriculture in England and France**

<b>YEAR</b>	<b>ENGLAND</b>	<b>FRANCE</b>
<b>1500</b>	76%	73%
<b>1600</b>	70%	69%
<b>1700</b>	55%	63%
<b>1750</b>	46%	61%
<b>1800</b>	40%	59%

**Sources:**

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**Table 10.**  
**BANK RESOURCES AS A PERCENTAGE OF NET NATIONAL INCOME**

<b>COUNTRY</b>	<b>YEAR</b>	<b>PERCENTAGE OF NNI</b>
<b>FRANCE</b>	1870	16%
<b>ENGLAND</b>	1844	34%
<b>BELGIUM</b>	1875	42%
<b>PRUSSIA</b>	1865	31%
<b>RUSSIA</b>	1910	61%
<b>U.S.A.</b>	1871	30%

**Table 11.****FOREIGN CAPITAL INVESTMENTS OF THE CHIEF LENDERS**

expressed in millions of current American dollars

<b>COUNTRY</b>	<b>1870</b>	<b>1910</b>	<b>1914</b>	<b>% of 1914</b>
<b>U.K.</b>	4,900	12,000	20,000	44.0%
<b>FRANCE</b>	2,500	5,800	9,050	19.9%
<b>GERMANY</b>		4,800	5,800	12.8%
<b>U.S.</b>	100	500	3,500	7.8%
<b>OTHER</b>	500	1,100	7,100	18.6%
<b>TOTAL</b>			<b>45,450</b>	<b>100.0%</b>

**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**

<b>COUNTRY</b>	<b>1850</b>	<b>1870</b>	<b>1890</b>	<b>1910</b>	<b>Percent- age Total Growth 1850- 1910</b>
<b>BRITAIN</b>	660	904	1,130	1,302	197%
<b>FRANCE</b>	432	567	668	883	204%
<b>GERMANY</b>	418	579	729	958	229%
<b>BELGIUM</b>	534	738	932	1,110	208%
<b>NETHER- LANDS</b>	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\***

<b>Year</b>	<b>Britain</b>	<b>Belgium</b>	<b>FRANCE</b>	<b>Germany</b>	<b>Russia</b>
<b>1840</b>	2,390	335	<b>498</b>	468	27
<b>1850</b>	9,791	903	<b>2,914</b>	5,856	500
<b>1860</b>	14,594	1,730	<b>9,166</b>	11,088	1,625
<b>1870</b>	21,545	2,897	<b>16,464</b>	18,875	10,731
<b>1880</b>	25,045	4,112	<b>23,233<sup>a</sup></b>	33,836 <sup>b</sup>	22,864
<b>1890</b>	27,810	4,525	<b>33,278</b>	42,868	30,594
<b>1900</b>	30,061	4,591	<b>38,107</b>	51,675	53,231
<b>1910</b>	32,163	4,678	<b>40,483</b>	61,205	66,579
<b>1913</b>	32,613	n.a.	<b>40,768</b>	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

Period Germany	United Kingdom	U.K.	France	France	Germany	
	Domestic Ex- ports in Millions	Index 1870-4 = 100	Exports in Millions of Francs	Index 1870-4 = 100	Exports in Millions of Marks	Index 1870-4 = 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



<b>1910-3</b>	474.2	202.0	6,476.0	191.3	8,658.8	371.9
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\* 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**

<b>Year</b>	<b>Great Britain</b>	<b>Belgium</b>	<b>France</b>	<b>Germany</b>	<b>Russia</b>
<b>1800</b>	10.7	3.1	27.3	n.a.	35.5
<b>1810</b>	12.0	n.a.	n.a.	n.a.	n.a.
<b>1820</b>	14.1	n.a.	30.5	25.0	48.6
<b>1830</b>	16.3	4.1	32.6	28.2	56.1
<b>1840</b>	18.5	4.1	34.2	31.4	62.4
<b>1850</b>	20.8	4.3	35.8	34.0	68.5
<b>1860</b>	23.2	4.5	37.4	36.2	74.1
<b>1870</b>	26.0	4.8	36.1 <sup>a</sup>	40.8 <sup>b</sup>	84.5
<b>1880</b>	29.7	5.3	37.7	45.2	97.7
<b>1890</b>	33.0	6.1	38.3	49.4	117.8
<b>1900</b>	37.0	6.6	39.0	56.4	132.9
<b>1910</b>	40.9	7.4	39.6	64.9	160.7

<sup>a</sup> Excluding Alsace-Lorraine.

<sup>b</sup> 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**

<b>Decade</b>	<b>Great Britain</b>	<b>Belgium</b>	<b>France</b>	<b>Germany</b>	<b>Russia</b>
<b>1820-9</b>	20.00	n.a.	1.30	1.40	n.a.
<b>1830-9</b>	25.45	2.75	2.45	2.45	n.a.
<b>1840-9</b>	40.40	4.60	3.95	5.25	n.a.
<b>1850-9</b>	59.00	7.70	6.45	11.95	n.a.
<b>1860-9</b>	95.50	11.35	11.35	25.90	0.45
<b>1870-9</b>	129.45	14.70	16.20	45.65 <sup>a</sup>	1.60
<b>1880-9</b>	163.40	17.95	20.85	71.90 <sup>b</sup>	4.35
<b>1890-9</b>	194.15	20.70	28.45	107.05 <sup>c</sup>	9.05
<b>1900-9</b>	245.30	24.05	34.70	179.25 <sup>d</sup>	20.50
<b>1910-3</b>	275.40	24.80	39.90	247.50 <sup>e</sup>	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.**

<b>Decade</b>	<b>France</b>	<b>Index</b>	<b>Germany</b>	<b>Index</b>	<b>Russia</b>	<b>Index</b>	<b>United Kingdom</b>	<b>Index</b>
<b>IRON</b>								
<b>1830-9</b>	0.286	16	0.129	4	0.172	31	0.921	11
<b>1840-9</b>	0.442	25	0.172	5	0.192	35	1.625	20
<b>1850-9</b>	0.731	25	0.334	5	0.243	44	3.150	39
<b>1860-9</b>	1.164	66	0.813	25	0.304	56	4.602	57
<b>1870-9</b>	1.337	75	1.678	52	0.400	73	6.648	81
<b>1880-9</b>	1.772	100	3.217	100	0.547	100	8.040	100
<b>1890-9</b>	2.192	124	5.155	160	1.539	281	8.090	101
<b>1900-9</b>	3.028	171	9.296	289	2.786	509	9.317	116
<b>1910-13</b>	4.664	263	14.836	461	3.870	707	9.792	122
<b>STEEL</b>								
<b>1870-9</b>	0.260*	52			0.080*	33	0.695	30
<b>1880-9</b>	0.500	100	1.320	100	0.240	100	2.340	100
<b>1890-9</b>	1.015	203	3.985	302	0.930	388	3.760	161
<b>1900-9</b>	2.175	435	9.505	720	2.490	1038	5.565	238
<b>1910-13</b>	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 Industrial Output		Per Capita Industrial Output		Percentage Shares of World Industrial Production	
	1860 Index	1913 Index	1860 Index	1913 Index	1860 %	1913 %
<b>With 1913 Frontiers</b>						
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%
<b>ALL EUROPE</b>	<b>120</b>	<b>528</b>	<b>17</b>	<b>45</b>	<b>53%</b>	<b>57%</b>
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**

<b>Period</b>	<b>United Kingdom</b>	<b>France</b>	<b>Germany</b>	<b>United States</b>
<b>1860-64</b>	72.6			
<b>1865-69</b>	82.8	95.8	72.6	75.5
<b>1870-74</b>	100.0	100.0	100.0	100.0
<b>1875-79</b>	105.5	109.5	120.8	111.4
<b>1880-84</b>	123.4	126.6	160.6	170.4
<b>1885-89</b>	129.5	130.3	194.9	214.9
<b>1890-94</b>	144.2	151.5	240.6	266.4
<b>1895-99</b>	167.4	167.8	306.4	314.2
<b>1900-04</b>	181.1	176.1	354.3	445.7
<b>1905-09</b>	201.1	206.2	437.4	570.0
<b>1910-13</b>	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
<b>Income Level in 1970 \$US</b>						
France	\$343		\$432	\$567	\$668	
Britain		\$567		\$904	\$1,130	\$883
						\$1,302
<b>Birth Rate*</b>						
France	29.9		26.8	25.9	21.8	
Britain		35.9		35.2	30.2	
						19.6
<b>Death Rate*</b>						25.1
France	25.0		21.4	28.4	22.8	
Britain		22.2		22.9	19.5	
						17.8
<b>Labour Force in Agriculture+</b>						13.5
France	n.a.		51.8	49.3	45.9	
Britain		25.0		20.0	16.3	
						41.0
						15.1
<b>Agri Income as % GNP+</b>						
France	38.5		33.0	33.5	28.0	
Britain		24.9		18.8	13.4	
						28.7
						10.3
<b>Manuf Income as % of GNP</b>						
France	35.9		39.3	36.0	36.8	
Britain		31.5		33.5	33.6	
						38.6
						31.8
<b>Gr Dom Inv as % GNP</b>						
France	n.a.		12.4	12.5	14.0	
Britain		10.5		8.5	7.3	
						13.6
						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.