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Updated: 31 December 2006

## Economics 303Y1

### The Economic History of Modern Europe to 1914

Topic no. 8 [12]: **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.

#### A. **General Readings on 18th- and 19th-Century Continental Europe: Impediments to Economic Growth and the Beginnings of Industrialization**

1. Werner Conze, 'The Effects of Nineteenth-Century Liberal Agrarian Reforms on Social Structure in Central Europe', translated from Vierteljahrschrift für Sozial- und Wirtschaftsgeschichte, 38 (1949), and republished in François Crouzet, W.H. Chaloner, and W.M. Stern, eds., Essays in European Economic History, 1789 - 1914 (London: Edward Arnold, 1969), pp. 53 - 81.
- \* 2. Hugh G.J. Aitken, ed., The State and Economic Growth (New York, 1959). See in particular: William Parker, 'National States and National Development: A Comparison of Elements in French and German Development in the Late Nineteenth Century.'
3. W. W. Rostow, The Stages of European Growth: A Non-Communist Manifesto (1960), chapters 2, 3, and 4.
- \*\* 4. Alexander Gerschenkron, Economic Backwardness in Historical Experience: A Book of Essays (New York, 1962; reissued in paperback in 1965): in particular
  - (a) 'Economic Backwardness in Historical Experience', pp. 5-30. [From Bert Hoselitz, ed., The Progress of Underdeveloped Countries (1952).]
  - (b) 'Reflections on the Concept of 'Prerequisites' of Modern Industrialization', pp. 31-51. [From L'industria (Milan, 1952), no. 2]
  - (c) 'Social Attitudes, Entrepreneurship, and Economic Development', pp. 52-71. [From Leon H. Dupriez, ed., Economic Progress: Papers and Proceedings of a Round Table Held by the International Economic Association (Leuven, 1955).]

5. W. W. Rostow, ed., The Economics of the Take-Off into Sustained Growth (1963). Essays by various authors for the principal European economies.
- \* 6. Barry E. Supple, ed., The Experience of Economic Growth: Case Studies in Economic History (New York, 1963):
  - (a) Part I: 'Introduction', by B.E. Supple, pp. 1-46.
  - (b) W.W. Rostow, 'The Take-Off into Self-Sustained Growth', pp. 81-110. [Reprinted from his The Stages of Economic Growth (Cambridge, 1960), pp. 17-58, with some omissions.]
  - (c) H.J. Habakkuk, 'The Historical Experience on the Basic Conditions of Economic Progress', pp. 111-27. [Reprinted from Leon Dupriez, ed., Economic Progress: Papers and Proceedings of a Round Table Held by the International Economic Association (Louvain, 1955), pp. 149-69, with some omissions.]
7. Maurice Lévy-Leboyer, Les banques européennes et l'industrialisation internationale dans la première moitié du XIXe siècle (Paris, 1964).
8. Paul Bairoch, 'Niveaux de développement économique de 1810 à 1910', Annales: Économies, sociétés, civilisations, 20 (1965), 1096, Table 1.
- \* 9. H.J. Habakkuk and M. M. Postan, eds., The Cambridge Economic History, Vol. VI: The Industrial Revolutions and After, Parts I and II: Technological Change and Development in Western Europe (Cambridge, 1965), in particular the following:
  - (a) W.A. Cole and P. Deane, 'The Growth of National Incomes: The Late-Comers to Industrialization in Europe', in Part I (chapter 1), pp. 10-28.
  - (b) David Landes, 'Technological Change and Industrial Development in Western Europe, 1750-1914' in Part I (chapter 5), pp. 274 - 601, especially pp. 353-420. [Republished in an a revised, expanded version below in Landes (1969).]
  - (c) Folke Dövring, 'The Transformation of European Agriculture', in Part II (chapter 6), pp. 604-72.
- \* 10. David Landes, The Unbound Prometheus: Technological Change and Industrial Development in Western Europe from 1750 to the Present (Cambridge University Press, 1969), pp. 1-40 (introduction), and chapter 3: 'Continental Emulation', pp. 124-92.

Apart from the Introduction, a revised edition of chapter 5, 'Technological Change and Industrial Development in Western Europe', in H.J. Habakkuk and M. M. Postan, eds., The Cambridge Economic History, Vol. VI: The Industrial Revolutions and After, Parts I and II: Technological Change and Development in

Western Europe (Cambridge, 1965).

- \* 11. Tom Kemp, Industrialization in Nineteenth-Century Europe (London, 1969), chapter 1: 'British and European Industrialization', pp. 1-33; chapter 4, 'The Rise of Industrial Germany', pp. 81-118.
- \* 12. Steven L. Barsby, 'Economic Backwardness and the Characteristics of Development', Journal of Economic History, 29 (1969), 449-72.
- 13. E.J.T. Collins, 'Labour Supply and Demand in European Agriculture, 1800 - 1880', in E.L. Jones and S.J. Woolf, eds., Agrarian Change and Economic Development (1969).
- 14. Jean Bouvier, 'Systèmes bancaires et entreprises industrielles dans la croissance européenne au XIXe siècle', Annales: Économies, sociétés, civilisations, 27 (Jan-Feb 1972).
- 15. François Crouzet, 'Western Europe and Great Britain: Catching Up in the First Half of the 19th Century', in A.J. Youngson, ed., Economic Development in the Long Run (London, 1972).
- 16. W. O. Henderson, Britain and Industrial Europe, 1750-1870 (Leicester, 1972), chapter 1: 'British Influence on the Development of the Continent, 1750-1875', pp. 1-9.
- 17. Sima Lieberman, ed., Europe and the Industrial Revolution (Cambridge, Mass., 1972):
  - (a) Alexander Gerschenkron, 'Reflections on the Concept of `Prerequisites' of Modern Industrialization', pp. 9-29. [Reprinted from L'industria (Milan, 1957).]
  - (b) A.K. Cairncross, 'The Stages of Economic Growth', pp. 29-41. [Reprinted from Economic History Review, 2nd ser., 13 (April 1961).]
  - (c) H.J. Habakkuk, 'Population Problems and European Economic Development in the Late 18th and 19th Centuries', pp. 277-90. [Reprinted from American Economic Review, 53 (1963).]
- \* 18. Sidney Pollard, 'Industrialization and the European Economy', Economic History Review, 2nd ser. 26 (1973), 636-48.
- 19. David F. Good, 'Backwardness and the Role of Banking in 19th-Century European Industrialization', Journal of Economic History, 33 (1973), 845-50.
- 20. Alan Milward and S.B. Saul, The Economic Development of Continental Europe, 1780-1870 (London, 1973):
  - (a) 'The European Economy in the Late Eighteenth Century', pp. 25-117.
  - (b) 'Population Growth and Migration', pp. 118-170.

21. Charles Kindleberger, 'The Rise of Free Trade in Western Europe, 1820 -1875', The Journal of Economic History, 35 (March 1975), 20-55.
22. Brian R. Mitchell, European Historical Statistics, 1750-1970 (London, 1975).
23. Peter Mathias and M.M. Postan, eds., The Cambridge Economic History of Europe, Vol. II: The Industrial Economies: Capital, Labour, and Enterprise, Part i: Britain, France, Germany, and Scandinavia (Cambridge University Press, 1978):
  - a) Robert M. Solow and Peter Temin, 'Introduction: the Inputs for Growth', pp. 1-27.
  - b) Charles Feinstein, 'Capital Formation in Great Britain', pp. 28-96.
  - c) Sidney Pollard, 'Labour in Great Britain', pp. 97-179.
  - d) Peter Payne, 'Industrial Entrepreneurship and Management in Great Britain', pp. 180 - 231.
  - e) Maurice Lévy-Leboyer, 'Capital Investment and Economic Growth in France, 1820 - 1930', pp. 231 - 295.
  - f) Yves Lequin, 'Labour in the French Economy Since the Revolution', pp. 296 - 346 (to p. 318, up to 1914).
  - g) Claude Fohlen, 'Entrepreneurship and Management in France in the Nineteenth Century', pp. 347 - 381.
  - h) R. H. Tilly, 'Capital Formation in Germany in the Nineteenth Century', pp. 382 - 441.
  - i) J. J. Lee, 'Labour in German Industrialization', pp. 442 - 491.
  - j) Jürgen Kocka, 'Entrepreneurs and Managers in German Industrialization', pp. 492 - 589.
24. Charles P. Kindleberger, Economic Response: Comparative Studies in Trade, Finance and Growth (Cambridge, Mass. 1978). Selected essays on economic development.
25. Sidney Pollard, The Integration of the European Economy since 1815 (London, 1981).
26. Clive Trebilcock, Industrialization of the Continental Powers 1780-1914 (London and New York: Longman, 1981), Chapter 1: 'Historical Models of Growth', pp. 1 - 21.
27. G. Patrick Chorley, 'The Agricultural Revolution in Northern Europe, 1750-1880: Nitrogen, Legumes, and Crop Productivity', Economic History Review, 2nd ser. 34 (Feb. 1981), 71-93.
28. Paul Bairoch, 'International Industrialization Levels from 1750 to 1980', Journal of

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  - \* 32. Rondo Cameron, 'A New View of European Industrialization', Economic History Review, 2nd ser. 38 (Feb. 1985), 1- 23.
  33. Charles Sabel and Jonathan Zeitlin, 'Historical Alternatives to Mass Production: Politics, Markets, and Technology in Nineteenth-Century Industrialization', Past and Present, no. 108 (Aug. 1985), 133-76.
  34. J. Söderberg, 'Regional Economic Disparity and Dynamics, 1840 - 1914: a Comparison Between France, Great Britain, Prussia, and Sweden', Journal of European Economic History, 14 (Fall 1985), 273 - 96.
  35. Michael D. Bordo, 'Financial Crises, Banking Crises, Stock Market Crashes and the Money Supply: Some International Evidence, 1870 - 1933', in F. H. Capie and G. Ed. Wood, eds., Financial Crises and the World Banking System (London: MacMillan, 1986).
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  38. T. Kjaergaard, 'Origins of Economic Growth in European Societies Since the XVIth Century: The Case of Agriculture', Journal of European Economic History, 15 (1986), 591-98.
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43. F. Geary, 'Balanced and Unbalanced Growth in XIXth Century Europe', Journal of European Economic History, 17 (Fall 1988), 349-58.
44. Michael Anderson, Population Change in North-Western Europe, 1750 - 1850, Studies in Economic and Social History series (London, 1988).
45. Michael Tracy, Government and Agriculture in Western Europe, 1880 - 1988, 3rd edn. (New York: New York University Press, 1989).
46. Daniel Chirot, ed., The Origins of Backwardness in Eastern Europe: Economics and Politics from the Middle Ages until the Early Twentieth Century (Berkeley: University of California Press, 1989).
47. Peter Scholliers, ed., Real Wages in Nineteenth and Twentieth Century Europe (New York: Berg, 1989).
48. Peter Mathias and Sidney Pollard, eds., The Cambridge Economic History of Europe, Vol. VIII: The Industrial Economies: The Development of Economic and Social Policies (Cambridge: Cambridge University Press, 1989):
  - (a) Paul Bairoch, 'European Trade Policy, 1815 - 1914', pp. 1 - 160.
  - (b) A. G. Ford, 'International Financial Policy and the Gold Standard, 1870 - 1914', pp. 197 - 249.
  - (c) D. E. Schremmer, 'Taxation and Public Finance: Britain, France, and Germany', pp. 315 - 494.
  - (d) G. V. Rimlinger, 'Labour and the State on the Continent, 1800 - 1939', pp. 549 - 606.
  - (e) T. Kemp, 'Economic and Social Policy in France', pp. 691 - 751.
  - (f) Volker Hentschel, 'German Economic and Social Policy, 1815 - 1939', pp. 752 - 813.
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- Two Decades of Research', Journal of European Economic History, 18 (Fall 1989), 239 - 90.
52. Nicholas F. R. Crafts, 'British Industrialization in an International Context', Journal of Interdisciplinary History, 19 (Winter 1989), 415-28.
  53. Gregory Clark, 'Productivity Growth Without Technical Change in European Agriculture: Reply to Komlos', Journal of Economic History, 49 (December 1989), 979 - 91.
  - \* 54. N. F. R. Crafts, S. L. Leybourne, and T. C. Mills, 'Measurement of Trend Growth in European Industrial Output Before 1914: Methodological Issues and New Estimates', Explorations in Economic History, 27 (October 1990), 442-67.
  55. Simon Ville, Transport and the Development of the European Economy, 1750 - 1918 (Basingstoke: Macmillan; and New York: St. Martin's Press, 1990).
  56. Joel Mokyr, The Lever of Riches: Technological Creativity and Economic Progress (Oxford and New York: Oxford University Press, 1990), chapter 6, 'The Later Nineteenth Century: 1830-1914', pp. 113-48; chapter 10, 'The Industrial Revolution: Britain and Europe', pp. 239-69.
  57. J. L. Van Zanden, 'The First Green Revolution: The Growth of Production and Productivity in European Agriculture, 1870 - 1914', Economic History Review, 2nd ser. 44 (May 1991), 215 - 39.
  58. Y. S. Brenner, Hartmut Kaelble, and Mark Thomas, eds., Income Distribution in Historical Perspective (Cambridge: Cambridge University Press, 1991).
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  61. Richard Sylla and Gianni Toniolo, eds., Patterns of European Industrialisation: the Nineteenth Century (London: Routledge, 1991). Collection of essays on European industrialization during the 19th century.
  62. Patrice Higonnet, David Landes, and Henry Rosovsky, eds., Favorites of Fortune: Technology, Growth, and Economic Development since the Industrial Revolution (Cambridge, Mass.: Harvard University Press, 1991).
  63. Peter Mathias and John A. Davis, ed., Innovation and Technology in Europe: from the Eighteenth Century to the Present Day (Oxford: Blackwell, 1991).

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67. Lee A. Craig and Douglas Fisher, 'Integration of the European Business Cycle: 1871 - 1910', Explorations in Economic History, 29 (April 1992), 144 - 68.
68. Paul L. Robertson and Lee J. Alston, 'Technological Choice and the Organisation of Work in Capitalist Firms', Economic History Review, 2nd ser., 45 (May 1992), 330 - 49.
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70. Rondo Cameron, Financing Industrialization, 2 vols. (Aldershot: Elgar, 1992).
71. Georgios Karras, 'Aggregate Demand and Supply Shocks in Europe: 1860 - 1987', Journal of European Economic History, 22:1 (Spring 1993), 79-98.
72. P. Z. Grossman, 'Measurement and Assessment of Coal Consumption in Nineteenth-Century European Economies: A Note', Journal of European Economic History, 22:2 (Fall 1993), 333-8.
73. Nathan Rosenberg, Exploring the Black Box: Technology, Economics, and History (Cambridge: Cambridge University Press, 1993).
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79. Robert Fox and Anna Guagnini, 'Starry Eyes and Harsh Realities: Education, Research, and the Electrical Engineer in Europe, 1880-1914', Journal of European Economic History, 23:1 (Spring 1994), 69 - 92.
80. Frank Dobbin, Forging Industrial Policy: The United States, Britain, and France in the Railway Age (Cambridge and New York: Cambridge University Press, 1994).
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**G. The French Economy in the 19th Century: Growth or Stagnation?**

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### **I. French Entrepreneurship: The Landes Thesis**

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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>	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 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:**

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**

<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.

