

# Modern History Sourcebook:

## Tables Illustrating the Spread of Industrialization

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### Table 1

Percentage Distribution of the World's Manufacturing Production,  
1870 and 1913

*(percentage of world total)*

	1870	1913
<b>USA</b>	23.3	35.8
<b>Germany</b>	13.2	15.7
<b>U.K.</b>	31.8	14.0
<b>France</b>	10.3	6.4
<b>Russia</b>	3.7	5.5
<b>Italy</b>	2.4	2.7
<b>Canada</b>	1.0	2.3
<b>Belgium</b>	2.9	2.1
<b>Sweden</b>	0.4	1.0
<b>Japan  </b>		1.2
<b>India  -</b>	11.0	1.1
<b>Other Countries  </b>		12.2

### Table 2

The Rate of Industrial Growth in Five Selected Countries

Indices of Industrial Production

(Base Figures - 1905-13 = 100)

	UK	France	Germany	Russia	Italy
<b>1781-90</b>	3.8	10.9	-	-	-
<b>1801-14</b>	7.1	12.3	-	-	-
<b>1825-34</b>	18.8	21.5	-	-	-

<b>1845-54</b>		27.5	33.7	11.7	-	-
<b>1865-74</b>		49.2	49.8	24.2	13.5	42.9
<b>1885-94</b>		70.5	68.2	45.3	38.7	54.6
<b>1905-13</b>		100.0	100.0	100.0	100.0	100.0
<b>% of world industrial production in 1913</b>	14.0	6.4	17.7	5.5	2.7	

### Table 3

Output of Coal and Lignite - Selected Countries, Annual Averages  
(in million metric tonnes)

	UK	France	Germany	Austria	Belgium	Russia
<b>1820-4</b>	17.7	1.1	1.2	0.1	-	-
<b>1840-4</b>	34.2	3.5	4.4	0.52	4.1	-
<b>1860-4</b>	86.3	10.0	20.8	4.1	10.2	0.04
<b>1880-4</b>	158.9	20.2	65.7	17.0	17.5	3.7
<b>1900-4</b>	230.4	33.0	157.3	38.8	23.3	17.3

### Table 4

Output of Pig Iron - Selected Countries, Annual Averages  
(in thousand metric tons)

	UK	France	Germany	Austria	Belgium	Russia
<b>1781-90</b>	69	141	-	-	-	-
<b>1825-29</b>	669	212	90	85	-	164
<b>1855-59</b>	3,583	900	422	306	312	254
<b>1875-79</b>	6,484	1,462	1,770	418	484	424
<b>1900-14</b>	8,778	2,665	7,925	1,425	1,070	2,773

### Table 5

Growth of the Cotton Industry in Selected Countries  
(Cotton Spindles - Selected Countries, Annual Total Figures [in 1000's])

	UK	France	Germany	Austria	Belgium	Russia
<b>1834</b>	10,000	2,500	626(^36)	800	200	700 (1840)
<b>1877</b>	39,500	5,000	4,700	1,558	800	2,500
<b>1913</b>	55,700	7,400	11,186	4,909	1,492	9,212

### Table 6

[See this data presented in a variety of ways - [Table 6 Extra](#)]

### Spread of Railways in Ten Selected Countries

(Length of line open [in kilometers [1km = 5/8 mile]])

	1840	1860	1880	1900
<b>Austria-Hungary</b>	144	4,543	18,507	36,330
<b>Belgium</b>	334	1,730	4,112	4,591
<b>France</b>	496	9,167	23,089	38,109
<b>Germany</b>	469	11,089	33,838	51,678
<b>Great Britain</b>	2,390	14,603	25,060	30,079
<b>Italy</b>	20	2,404	9,290	16,429
<b>Netherlands</b>	17	335	1,846	2,776
<b>Russia</b>	27	1,626	22,865	53,234
<b>Spain</b>	-	1,917	7,490	13,214
<b>Sweden</b>	-	527	5,876	11,303

## Table 7

### Illiteracy in Europe, c. 1850

(Approximate Percentage of Adult Illiterates is Indicated Where Known)

Countries with less than 30% illiterate	Countries with 30 to 50% illiterate	Countries with over 50% illiterate
Denmark	Austria 40-45%	Bulgaria
Germany	Belgium 45-50%	Greece
(Prussia 20%)	England 30-33%	Hungary
Netherlands	France 40-45%	Italy 75-80%
Scotland 20%		Portugal
Sweden 10%		Rumania
Switzerland		Russia 90-95%
		Serbia
		Spain 75%

## Table 8

### Population

(tentative estimates in millions - much of it guesswork)

*	1750/1	1800/1	1850/1	1900
<b>Great Britain</b>	7.4	10.5	20.8	57.1
<b>France</b>	21	27.3	35.8	56.1

<b>Germany  </b>			34.0	79.0
-[Germ+Aust]	18	23		
<b>Austria  </b>			17.5	7.6
<b>Hungary</b>	3.5	5.0	13.2	10.5
<b>Belgium</b>	2.2	3.1	4.3	9.9
<b>Italy</b>	16.0	19.0	24.4	57.6
<b>Netherlands</b>	1.6	2.1	3.1	14.9
<b>Portugal</b>	2.3	2.9	3.5	10.5
<b>Russia</b>	28	40.0	68.5	146.4
<b>Spain</b>	8.2	10.5	15.0	39.6
<b>Sweden</b>	1.8	2.3	3.5	8.4
<b>EUROPE (approx)</b>	132.0	190.0	260.0	775.0

**Notes:**

*Austria and Hungary in the 19th century included many areas now independent. Modern Germany is somewhat smaller than Bismarckian Empire. 1990 figures for Russia are for the Russian Federation. To compare with the 19th century Ukraine's [52 Million] and Belorussia's [10.3 Million] figures must be taken into account.*

**Sources:**

Table 1: League of Nations: *Industrialization and World Trade* (1945)

Tables 2-7: are based on the statistical appendices in the *Fontana Economic History of Europe* Vol 4, Part 2

Table 8: History Faculty at the University of Edinburgh 1978 [keep those undergraduate notes!]. 1990 figures from *World Almanac 1992*.

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