

INDUSTRIAL REVOLUTION!

TODAY'S GOAL:

Analyze the causes for the Industrial Revolution Understand why it began in Great Britain

BEFORE 1750

Life was primarily <u>rural</u>

Short life expectancy

- Men 31 years
- Women 33 years

Feast and famine

 Availability of food depended on success of crops every year

Limited trade

(because of transportation)



CAUSES OF THE INDUSTRIAL REVOLUTION

Agricultural Revolution \rightarrow More food

• Enclosure movement ightarrow unemployed farmers

Population Growth

• Unemployed farmers ightarrow labor force for factories

Materials

Location Location Location

New Technologies \rightarrow Steam & Coal

Transportation, powered industries

AGRICULTURAL REVOLUTION

Agricultural Revolution made the Industrial Revolution possible

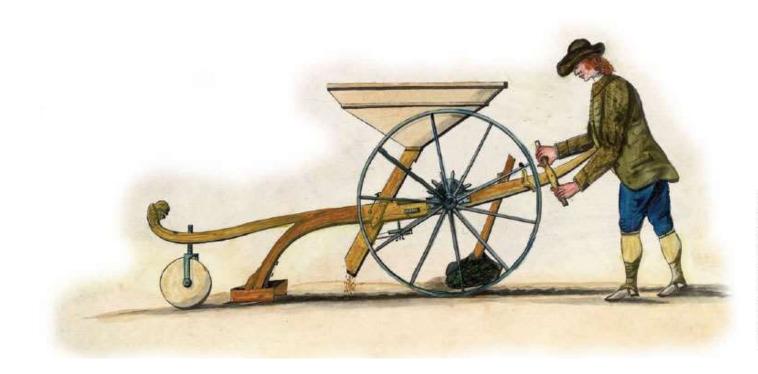
- **Agricultural Revolution:**
- Drastically improved farming
- Made it possible for fewer people to produce food for many more people



NEW FARMING TECHNOLOGIES

New technologies like the Seed Drill added farming.

Fertilizer was invented

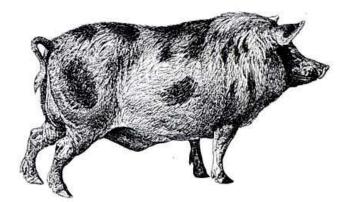


Time Life Pictures/Getty Images

AGRICULTURAL REVOLUTION

Made possible by:

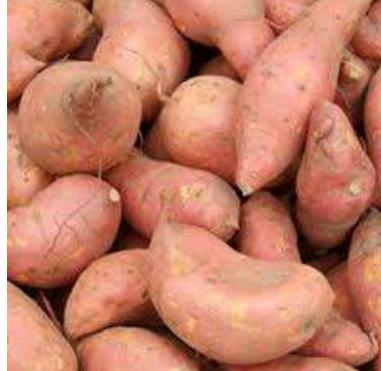
- 1. Enclosures: Large farms with better seeding and harvesting methods
- 2. Crop Rotation: Changing crops every year to improve the land
- 3. Livestock Breeding Improvements: Only breeding best animals



RESULTS OF THE AGRICULTURAL REVOLUTION

Improved food production

Surplus of food!



BEGINNINGS OF INDUSTRIAL REVOLUTION

1st phase:

Began in England mid 1700's



ENGLAND

England had all the factors of production:

Land

- Bountiful natural resources
- Labor
 - Displaced farmers, growing population
- Capital
 - Wealth money to invest in industry



LAND

Britain had an abundance of natural resources

- Resources: iron ore, coal, etc.
- Water power and coal to fuel machines
- Rivers/Canals for transportation and accessibility for trade
- Sea: able to transport goods cheaply because they was good access to sea ports all around the Island

LABOR

The Agricultural Revolution had increased England's population

Greater food supply = population increase

1700's European population reaches 190 million

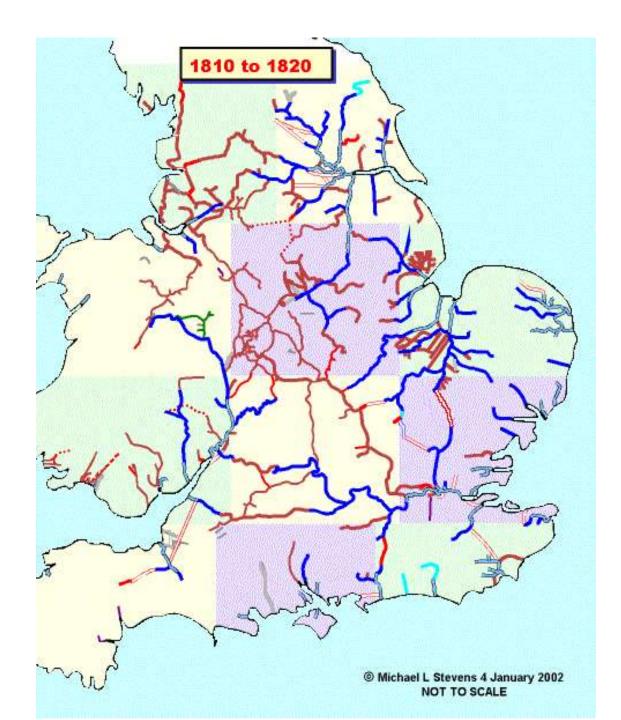
People eat better, healthier babies, better medical care

Unemployed Farmers - lost enclosed lands \rightarrow moved to cities; need jobs!

ENCLOSURES

Fencing off large tracts of land making farming more efficient

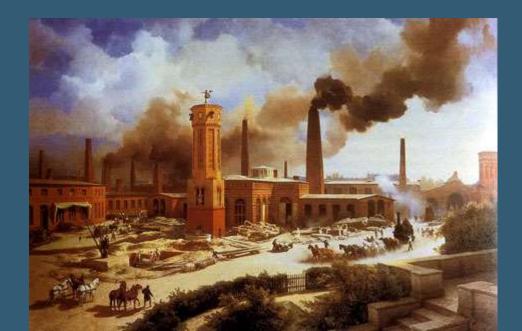
After 1750s Legend = Baron's Land = Rich Farmer's Land = Other Rich Farmer's Land = Common Land Other = Small Farmers Colors



CAPITAL

Money to invest in labor, machines and raw materials. Entrepreneurs – brought together labor, capital and raw materials –

took risks



INVENTIONS

New inventions drive Industrial Revolution

- Textile Industry
- Flying shuttle and spinning jenny

Steam Engine

- Power for industry
- Power for trains and boats



TEXTILE INDUSTRY

Inventions speed production of textile goods!

- Demand for textile goods high, inventors, needed to invent to machines to speed up the process.
- Flying Shuttle: Weaving machine
- Spinning Jenny: Spun many threads at the same time; hand-powered
- Water Frame: spinning machine powered by water.

RAILROAD SYSTEM

Four major impacts:

- 1. Spurred growth of industry
- 2. Created jobs
- 3. Boosted farming/fishing industries
- 4. New way for people to get around



RISE OF CITIES

Industrial Revolution gave rise to urbanization

Rapid growth of cities

Fun fact:

 The number of European cities with populations 100,000+ more than doubled between 1800-1850



FACTORIES AND GROWTH OF CITIES

New large machinery needed new large building to fit into.

Most factories were built close to energy sources

- Water
- Coal

Industrial centers emerge