

I. The Westward Movement (cont.)

- · Life across Ohio River:
 - Downright grim for most pioneer families
 - · Suffered diseases, depression, and premature death
 - Unbearable loneliness, especially for women
 - · Breakdowns and madness were frequent
 - Frontier life could be tough and crude for men as well

I. The Westward Movement (cont.) - Pioneers, marooned by geography, were often illinformed, superstitious, provincial, and fiercely individualistic. - Popular literature abounded with portraits of unique, isolated figures. - Even in these days of "rugged individualism" there were exceptions. - Pioneers relied upon neighbors for help and upon government for internal improvements.



II. Shaping the Western Landscape

- Westward movement molded physical environment:
 - By 1820s trappers active in vast Rocky Mountain region
 - -Fur-trapping empire based on rendezvous (French for "meeting") system
 - -Trappers and Indians come together to trade beaver pelts for manufactured goods from East

II. Shaping the Western Landscape (cont.)

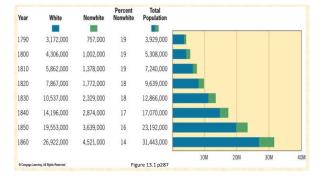
- -Beaver all but disappeared from region
- -Buffalo were also almost annihilated
- On California coast, traders sought sea-otter pelts, driving them to point of near-extinction
- Some have called this aggressive, heedless exploitation of West's natural bounty ecological imperialism.
- Yet Americans revered nature and admired its beauty
 - Many found wild, unspoiled character of land, esp. the West, to be among young nation's defining attributes

II. Shaping the Western Landscape (cont.)

- America had pristine, natural beauty, unspoiled by human hands
 - This national mystique inspired literature, painting, and a powerful conservation movement:
 - George Catlin, painter and student of Native American life, was among the first to advocate preservation of nature as deliberate national policy
 - Proposed creation of a national park in 1830s:
 - -Started with Yellowstone Park in 1872

III. The March of the Millions

- As American people moved West, they multiplied at an amazing rate:
 - By midcentury, population doubled every twentyfive years (see Figure 14:1)
 - By 1860, thirteen colonies had more than doubled in numbers; 33 stars graced flag
 - –U.S.A. was fourth most populous nation in western world: exceeded by Russia, France, and Austria



III. The March of the Millions (cont.)

- Urban growth continued explosively:
 - -1790 only two American cities that could boast populations of 20,000—Philadelphia, New York
 - -1860 there were 43 and 300 claimed over 5,000
 - -New York was metropolis; New Orleans, "Queen of the South;" and Chicago, swaggering lord of Midwest—destined to be "hog butcher for the world"

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III. The March of the Millions (cont.)

- Over-rapid urbanization brought undesirable byproducts:
 - Smelly slums, inadequate policing, impure water, foul sewage, ravenous rats, and improper garbage disposal
 - -Boston (1823) pioneered sewer system
 - New York (1842) abandoned wells and cisterns for piped-in water supply, thus eliminating breeding place for disease-carrying mosquitoes

III. The March of the Millions (cont.)

- High birthrate accounted for biggest increase in population, but immigration also helped:
 - -By 1830s immigration was 60,000 a year
 - -Influx tripled in 1840s and then quadrupled in the 1850s
 - -During 1840s and 1850s, >1.5 million Irish, and nearly as many Germans came (see Table 14.1)

	ABLE 14.1 Irish and German Immigration by Decade, 1830–1900		
Years	Irish	Germans	
1831-1840	207,381	152,454	
1841-1850	780,719	434,626	
1851-1860	914,119	951,667	
1861-1870	435,778	787,468	
1871-1880	436,871	718,182	
1881-1890	655,482	1,452,970	
1891-1900	388,416	505,152	
TOTAL	3,818,766	5,000,519	
Congage Learning All Rights Received			Table 13.1 p2

III. The March of the Millions (cont.)

- · Why did they come?
 - Because Europe seemed to be running out of room, had "surplus people"
 - Majority headed for "land of freedom and opportunity"
 - New transoceanic steamships allowed immigrants to move speedily and cheaply
 - United States received far more diverse array of immigrants than other countries
 - U.S.A. received immigrants from dozens of different nations



IV. The Emerald Isle Moves West

- Ireland was devastated in mid-1840s:
 - 2 million died as result of potato famine
 - Tens of thousands fled Land of Famine for Land of Plenty in "Black Forties"
 - Ireland's great export has been population:
 - Joined Jews and Africans as dispersed people (see "Makers of America: The Irish")
 - Many swarmed into seaboard cities (e.g., Boston)

IV. The Emerald Isle Moves West (cont.)

- New York City became largest Irish city in world
- Irish did not receive red-carpet treatment
- Friendless "famine Irish" forced to fend for themselves:
 - Ancient Order of Hibernians, semisecret society founded in Ireland to fight rapacious landlords, served in America as benevolent society, ailing downtrodden
 - Helped spawn Molly Maguires, shadowy Irish miners' union that rocked Pennsylvania coal districts in 1860s and 1870s

IV. The Emerald Isle Moves West (cont.)

- · Irish conditions in America:
 - Tended to remain in low-skill occupations
 - Gradually improved their lot, usually by acquiring modest amounts of property
 - · Education of children was often cut short
 - Property ownership counted as a grand "success"
 - · Politics attracted Gaelic newcomers
 - Gained control of powerful city machines, esp. New York's Tammany Hall, and reaped patronage rewards





IV. The Emerald Isle Moves West (cont.)

- · Politicians tried to cultivate Irish vote:
 - Nearly two million arrived between 1830 and 1860—and politicians glimpsed political gold in those potential voters, esp. in politically potent state of New York
 - Because Irish hatred of England remained strong, politicians won support with anti-British remarks

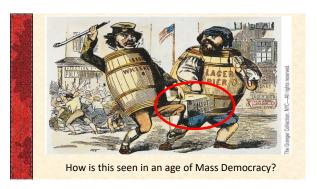


V. The German Forty-Eighters

- Influx of refugees from Germany b/t 1830 and 1860 hardly less spectacular than from Ireland:
 - >1.5 Germans stepped onto American soil (see "Makers of America: The Germans")
 - Bulk were uprooted farmers
 - Some were liberal political refugees
 - Germany's loss was America's gain: Carl Schurz became relentless foe of slavery and public corruption

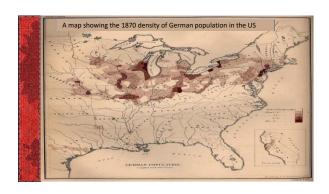
V. The German Forty-Eighters (cont.)

- Germans:
 - -Possessed modest amount of materials goods
 - Most pushed to lush lands of Middle West, notably Wisconsin for farming
 - Formed influential body of voters wooed by politicians
 - Less potent politically than Irish since were more widely scattered





V. The German Forty-Eighters (cont.) • Sometimes dubbed "damned Dutchmen" and regarded with suspicion: - Seeking to preserve language and customs, they settled in compact "colonies" aloof from surrounding communities - Accustomed to "Continental Sunday," they made merry on Sunday - Their Old World drinking habits further spurred advocates of temperance

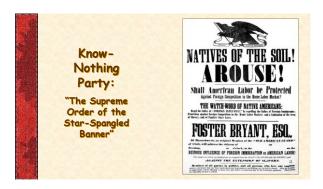


VI. Flare-ups of Antiforeignism • Influx of immigrants in 1840s and 1850s inflamed prejudices of American "nativists:" - Feared immigrants would outbreed, outvote, and overwhelm "native" stock - Also took jobs from "native" Americans - As Roman Catholics were regarded by many old-line Americans as following a "foreign" church

VI. Flare-ups of Antiforeignism (cont.) • Roman Catholics on the move: — To avoid Protestant indoctrination in public schools, began in 1840s to construct separate Catholic educational system: • Expensive, revealed strength of religious commitment — With Irish and German influx, Catholics became large religious group: • In 1840 ranked fifth behind Baptists, Methodists, Presbyterians and Congregationalists

VI. Flare-ups of Antiforeignism (cont.)

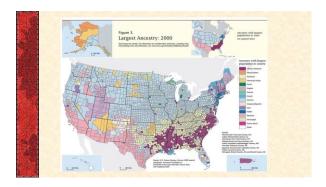
- Know-Nothing Party—organized by "nativists" for political action:
 - Agitated for rigid restriction on immigration and naturalization
 - Agitated for laws authorizing deportation of alien paupers
 - Promoted lurid literature of exposure, much of it pure fiction
 - Example: Maria Monk's Awful Disclosures



VI. Flare-ups of Antiforeignism (cont.)

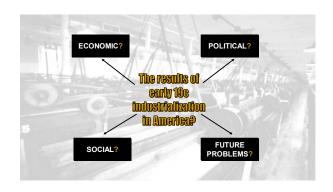
- Occasional mass violence against Catholics:
 - -Burned churches and schools
 - -Some killed and wounded in days of fighting
- Immigrants made U.S.A. one of most ethnically and racially diverse societies in world.
- · Not surprising that cultural clashes occurred.



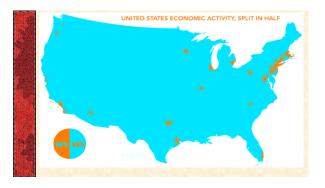


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VI. Flare-ups of Antiforeignism (cont.) • American economy: - Attracted immigrants and ensured them share of wealth without jeopardizing wealth of others - Immigrants helped fuel economic expansion - Immigrants and American economy needed each other - Together they helped bring Industrial Revolution

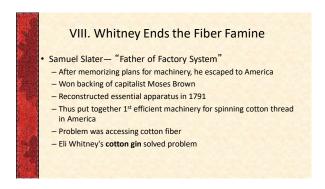


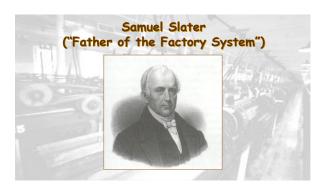
Changing Occupation Distributions: 1820 - 1860 1820 Agriculture Mining 78.8% 63.1% 52.9% 1.6 4.7 0.4 0.6 Construction 5.1 2.7 Manufacturing 8.8 13.8 Trade 6.2 8.0 1.6 Transport 1.8 2.0 6.4 4.1 5.0 Service Other 12.4 9.4 10.6 Source: U.S. Bureau of the Census

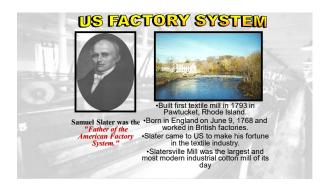


VII. Creeping Mechanization • British inventors in 1750s perfected series of machines for mass production of textiles: – Harnessed steam to usher in modern factory system of Industrial Revolution – Spectacular transformation in agricultural production – As well as methods of transportation and communication

VII. Creeping Mechanization (cont.) • Factory system slowly spread from Britain, "the world's workshop". • Why was America slow to industrialize? – Land was cheap – Labor was scarce – Money for capital investment was scarce













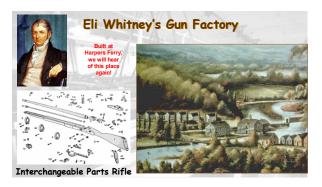












VIII. Whitney Ends the Fiber Famine (cont.)

- · Momentous effects of cotton gin:
 - Planters cleared more and more land for cotton
 - Cotton Kingdom pushed westward
 - Insatiable demand for cotton riveted chains of slavery more tightly on southern blacks
 - Yankee machines put out avalanches of textiles
 - America's Industrial Revolution first blossomed in cotton textiles

VIII. Whitney Ends the Fiber Famine (cont.)

- Factories 1st flourished in New England, then branched out to NY, NJ, Pennsylvania
- The South:
 - -Increasingly wedded to growing cotton
 - -Little manufacturing
 - -Capital invested in slaves
 - -Local consumers for most part desperately poor

VIII. Whitney Ends the Fiber Famine (cont.)

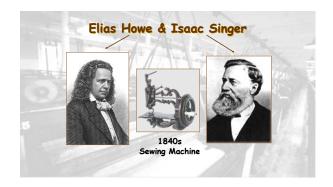
- New England favored as industrial center because:
 - Stony soil made farming difficult and manufacturing attractive
 - Dense population provided labor and markets
 - Seaports provided easy import of raw materials and export of finished products
 - Rivers provided abundant water power
 - By 1860, >400 million pounds of southern cotton poured into mills, mostly in New England

IX. Marvels in Manufacturing

- · As factory system flourished, it embraced other industries.
- Contribution of Whitney's interchangeable parts to manufacture of firearms:
 - Basis of mass-production, assembly-line methods
 - Gave North the factories that ensured military preponderance over South
 - Ironically Whitney, by perfecting cotton gin, gave slavery renewed lease on life

IX. Marvels in Manufacturing (cont.)

- -Sewing machine:
 - Invented by Elias Howe in 1846
 - Perfected by Isaac Singer
 - Strong boost to northern industrialization
 - · Foundation of ready-made clothing
 - Moved sewing from private homes to factory



IX. Marvels in Manufacturing (cont.)

- -Each new invention stimulated still more imaginative inventions:
 - · Decade ending in 1800: only 306 patents registered
 - Decade ending in 1860: 28,000 patents registered

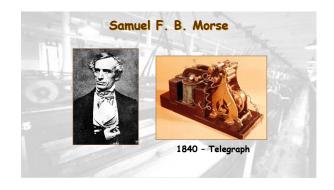


IX. Marvels in Manufacturing (cont.)

- · Key changes in form and legal status of business organizations:
 - Principle of limited liability aided concentration of capital
 - Boston Associates created by 15 Boston families
 - Laws of "free incorporation" meant businessmen could create corporations without applying for individual charters from legislature

IX. Marvels in Manufacturing (cont.)

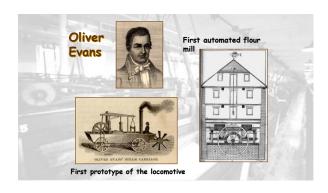
- · Samuel F. B. Morse:
 - -Invented telegraph
 - -Secured \$30,000 from Congress to experiment with "talking wires"
 - -In 1844, strung a wire 40 miles from Washington to Baltimore and tapped out historic message, "What hath God wrought?"

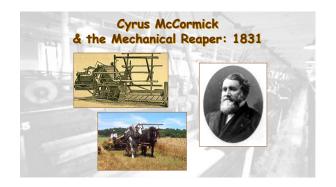


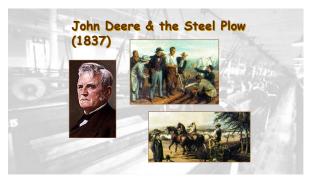
IX. Marvels in Manufacturing (cont.) By time of London World's Fair in 1851: - American products were prominent among world's commercial wonders

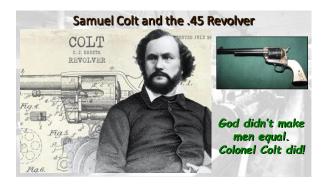
- Fairgoers crowded into Crystal Palace to see
 - · McCormick's reaper
 - · Morse's telegraph
 - Colt's firearms
 - · Charles Goodyear's vulcanized rubber goods

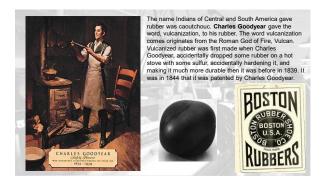


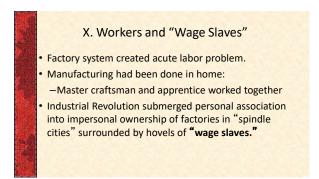
















Cities saw the greatest extremes:

- 1) Unskilled workers were "drifters" from town to town looking for jobs (1/2 of the industrial population).
- 2) Social mobility existed, though rags-to-riches stories were rare (still better than anywhere else).
- 3) The standard of living did rise, however, as wages rose (this helped diffuse any potential class conflict).



Workers & Wage Slaves

- With industrial revolution, large impersonal factories surrounded by slums full of "wage slaves" developed
- Long hours, low wages, unsanitary conditions, lack of heat, etc.
 - -Labor unions illegal
- 1820: 1/2 of industrial workers were children under 10

X. Workers and "Wage Slaves" (cont.)

- · Workers' conditions:
 - -Hours long, wages low
 - Meals skimpy and hastily gulped
 - Workers toiled in unsanitary buildings (poorly ventilated, lighted, heated)
 - Forbidden to form unions to raise wages
 - -Only 24 recorded strikes before 1835

X. Workers and "Wage Slaves" (cont.)

- · Exploitation of child labor:
 - In 1820, many of nation's industrial toilers were children under ten
 - Victims of factory, children were mentally blighted, emotionally starved, physically stunted, and brutally whipped in special "whipping rooms"
 - -Slater's mill of 1791: first machine tenders were seven boys and two girls, all under 12

X. Workers and "Wage Slaves" (cont.)

- Lot of adult wage workers in 1820s-1830s:
 - Many states granted laboring man the vote
 - -Strove to lightened burden through workingmen's parties
 - Many workers gave loyalty to Democratic Party of Andrew Jackson – WHY?
 - Besides 10-hour day, higher wages, and tolerable working conditions, workers demanded public education and end to imprisonment for debt

X. Workers and "Wage Slaves" (cont.)

- Employers fought 10-hour day:
- Argued reduced hours would lessen production, increase costs, and demoralize workers
- Laborers would have so much leisure time that Devil would lead them to mischief
- In 1840 President Van Buren established ten-hour day for federal employees on public works
- In later years many states began reducing hours of working people

X. Workers and "Wage Slaves" (cont.)

- · Day laborers tried to improve their lot:
 - -Strongest weapon was strikes
 - Dozens of strikes erupted in 1830s and 1840s
 - Sought higher wages, ten-hour days, and goals such as right to smoke on job
 - Workers lost more strikes than they won
 - Employers imported strike-breakers
 - Labor raised voice against immigrants

X. Workers and "Wage Slaves" (cont.)

- · Labor's effort to organize:
 - -Some 300,000 trade unionists by 1830
 - Declined as result of severe depression, 1837
- Won promising legal victory in 1842 in Commonwealth v. Hunt
- Mass. Supreme Court ruled unions not illegal conspiracies, provided methods were "honorable and peaceful"
- -Case did not legalize right to strike

Workers & Wage Slaves

- 1820s & 1830s: right to vote for labourers
 - -Loyalty to Democratic party led to improved conditions -Fought for 10-hour day, higher wages, better conditions
- 1830s & 1840s: Dozens of strikes for higher wages or 10-hour day
 - -1837 depression hurt union membership
- · Commonwealth v. Hunt
 - -Supreme Court ruled unions not illegal conspiracies as long as they were peaceful

XI. Women and the Economy

- Women became part of factory production:
 - Factories undermined work of women in homes
 - Factories offered work to those displayed
 - Factory jobs promised greater economic independence for women
 - And means to buy manufactured products of new market economy

XI. Women and the Economy (cont.)

- "Factory girls" toiled 6 days a week, 12 to 13 hours "from dark to dark"
- Textile mill at Lowell, Mass.:
 - -Workers mostly New England farm girls
 - -Supervised on and off job by watchful matrons
 - -Escorted to church from company boardinghouses
 - -Forbidden to form unions
 - Few outlets to protest grueling working conditions

US FACTORY SYSTEM The Lowell Mills

- Americans beat the British at their own game, made better factories
- (a British "traitor") came oveFrancis C Lowell r here to build British factories met up with Boston mechanic, Paul Moody
 - Together they improved the mill and invented a power loom that revolutionized textile manufacturing

































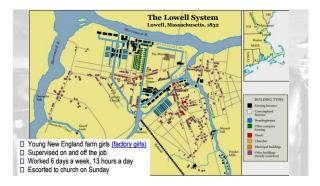




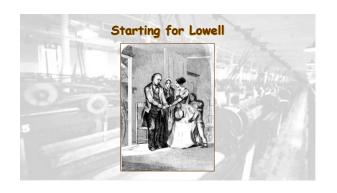




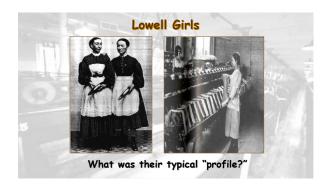




• 1850: 10% of white women working for pay outside home - Vast majority of working women were single - Left paying jobs upon marriage • "Cult of domesticity" - Cultural idea that glorifies homemaker • Empowers married women - Increased power & independence of women in home led to decline in family size









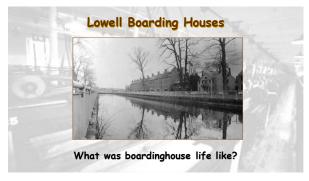
















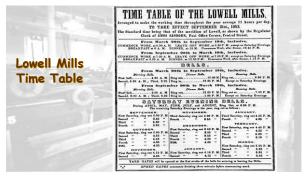


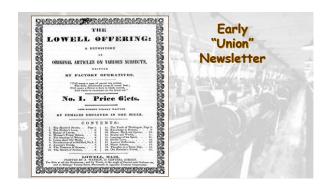






















XI. Women and the Economy (cont.) Factory jobs still unusual for women: -Few opportunities to be economically self-supporting (mainly nursing, domestic services, and teaching) Teaching profession became "feminized" as men left for other opportunities

XI. Women and the Economy (cont.) Other "opportunities" in household service: One white family in ten employed poor white, immigrant, or black women 10% of white women worked outside home 20% of all women employed at some time before marriage Vast majority of working women single Upon marriage, left job to become wives and mothers, without wages

XI. Women and the Economy (cont.)

· Cult of domesticity:

- Widespread cultural creed that glorified customary functions of homemaker
- Married women commanded moral power and increasingly made decisions that altered character of family itself
- Women's changing roles:
 - Industrial Revolution changed life in home of nineteenth-century: traditional "women's sphere"

XI. Women and the Economy (cont.)

- Love, not parental "arrangement" determined choice of spouse—yet parents retained power of veto
- Families became more closely knit and affectionate
- Provided emotional refuge against threatening impersonality of big-city industrialism
- Families grew smaller
- "Fertility rate" dropped for women b/t age 14 and 45
- Birth control still taboo, but women played large part in having fewer children

IX. Women and the Economy (cont.)

- · Newly assertive role has been called "domestic feminism"
- Smaller families meant child-centered families
- What Europeans saw in American families as permissiveness was consequence of new idea of child-rearing:
 - -Child's will was not simply broken, but rather shaped
- Good citizens raised not to be meekly obedient, but to be independent individuals, making decisions on internalized morals

IX. Women and the Economy (cont.)

- Emerging outlines of "modern" family:
 - –Small, affectionate, and childcentered
 - Provided special area for talents of women
 - Big improvement from earlier conditions of grinding toil—often alongside men in fields

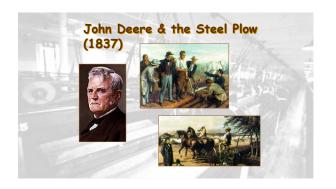


XII. Western Farmers Reap a Revolution in the Fields

- Flourishing farms changed face of West:
 - —Trans-Allegheny region—esp. Ohio-Indiana-Illinois tier—fast becoming nation's breadbasket
 - Before long, would become granary to world
 - -Pioneer families hacked clearing out of forest
 - -Then planted corn fields
 - -Yellow grain amazingly versatile

XII. Western Farmers Reap a Revolution in the Fields (cont.)

- Most western products first moved by Ohio-Mississippi Rivers
- Inventions helped farmers:
 - John Deere in 1837 produced a steel plow that broke stubborn soil:
 - -Light enough to be pulled by horses, rather than oxen
 - 1830 Cyrus McCormick invented mechanical mower-reaper
 - -Could do work of 5 men with sickles and scythes
 - -To western farmers what cotton gin was to South









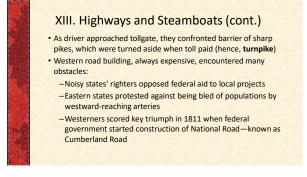
XII. Western Farmers Reap a Revolution in the Fields (cont.)

- McCormick reaper:
 - -Made ambitious capitalists out of humble plowmen
 - -Subsistence farming gave way to large-scale food production
 - —Specialized, cash-crop agriculture came to dominate trans-Allegheny West
 - -With it followed mounting indebtedness
 - -Wanted more land and more machinery
 - Dreamed of new markets in mushrooming factory towns of East or across Atlantic
 - -However, still landlocked needed transportation revolution

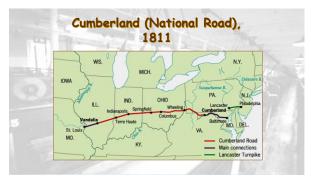
XIII. Highways and Steamboats

- -In 1789, when Constitution launched, primitive methods of travel still dominated:
 - Waterborne travel slow, uncertain, often dangerous
 - Stagecoaches and wagons lurched over bone-shaking roads
 - Cheap, efficient transportation increasingly needed
 - In 1790s, private company completed profitable Lancaster Turnpike in Pennsylvania, running 62 miles from Philadelphia to Lancaster

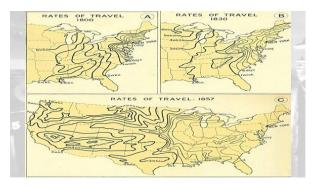


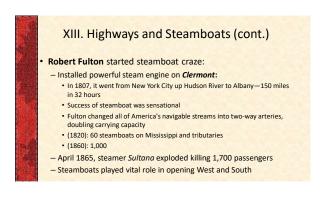


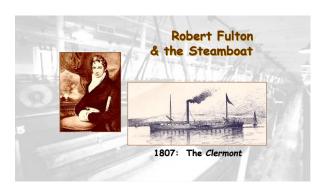














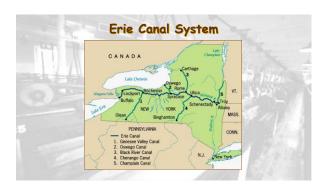






XIV. "Clinton's Big Ditch" in New York

- Canal-cutting craze paralleled boom in turnpikes and steamboats (see Map 14.2):
 - New Yorkers, denied federal aid by states' righters, funded Erie Canal themselves to link Great Lakes with Hudson River
 - -Driving leadership of Governor DeWitt Clinton
 - -Project called "Clinton's Big Ditch" or "Governor's Gutter"











Compare and Contrast Transportation in the North, West, and South.



XIV. "Clinton's Big Ditch" in New York (cont.)

- Begun in 1817, canal stretched 363 miles from Buffalo on Lake Erie, to Hudson River, onto New York harbor
- · Shipping sped up as cost/time dropped significantly
- Other economic ripples
 - Value of land along route skyrocketed and new cities, Rochester and Syracuse, blossomed
 - New profitability of farming in Old Northwest—Ohio, Michigan, Indiana, Illinois attracted European immigrants
 - Cleveland, Detroit, and Chicago grew in size

XIV. "Clinton's Big Ditch" in New York (cont.)

- Dispirited New England farmers abandoned rocky holdings and went elsewhere
- With Erie Canal, easy to go west and take up farming south of Great Lakes
- -Transformation in Northeast—canal consequences showed how long-established local market structures could be changed by emerging behemoth of continental economy
- -American goods also affect international market as Europeans began to feel effects of American exports

XV. The Iron Horse

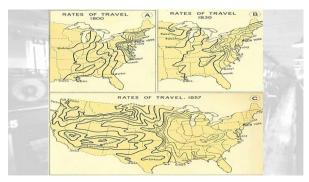
- Development of railroad:
- Fast, reliable, cheaper than canals to construct, and not frozen over in winter
- Able to go anywhere—it defied terrain and weather
- First railroad appeared in 1828 and new lines spread swiftly
- · Faced strong opposition from canal builders
- · Other obstacles:
 - -Brakes so feeble that engineers might miss station
 - -Arrivals and departures were conjectural
 - Differences in gauge required passengers to make frequent changes of trains

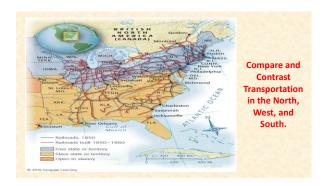
XV. The Iron Horse (cont.)

- Improvements came:
 - -Gauges gradually became standard
 - -Safety devices adopted
 - -Pullman "sleeping palace" introduced in 1859
- America at long last bound together with braces of iron, later to be made of steel

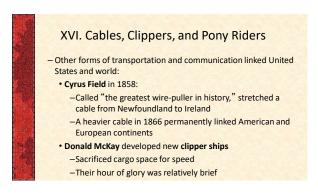




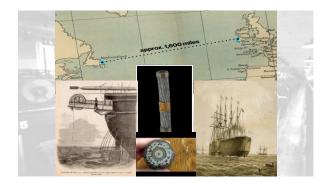


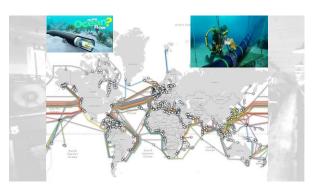




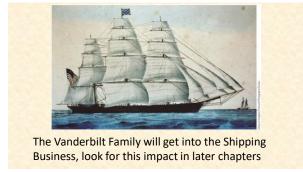


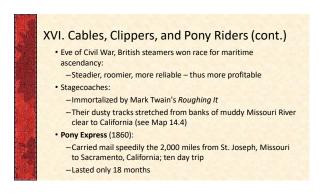


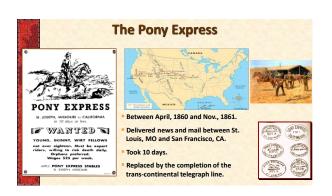














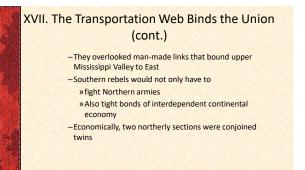
XVI. Cables, Clippers, and Pony Riders (cont.)

- Express riders unhorsed by Morse's clacking keys
 Began messages to California in 1861
- Swift ships and fleet ponies ushered out a dying technology of wind and muscle
- In future, machines would dominate

XVII. The Transport Web Binds the Union - Transportation revolution: • Stimulated by desire of East to tap West - Western rivers drained southward to cotton belt - Steamboats reversed flow by bringing finished goods to West and helped bind West and South together - Three decades before Civil War, canals and railroads from East tied seaboard with blossoming heartland - Impressive grid of "internal improvements" established • By 1860, a truly continental economy had emerged - Who would like this? Hamiltonians or Jeffersonians?











- workshops into national network of industry and commerce (see Map 14.5)

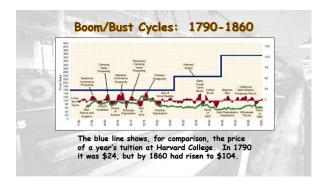
 Greater mechanization and robust market-oriented economy
 - raised new legal questions:

 -How tightly should patents protect inventions?
 - -Should government regulate monopolies?
 - -Who should own technologies and networks?
- Chief Justice John Marshall's Court protected contract rights by requiring states to grant irrevocable charters



XVIII. The Market Revolution (cont.)

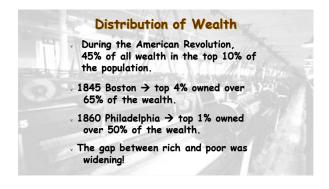
- Monopolies easily developed and new companies found it difficult to break into markets
- Chief Justice Roger Taney argued "rights of the community" outweighed exclusive corporate rights:
 - -His decision encouraged greater competition
 - -So did passage of more liberal state incorporation laws
- Self-sufficient households of earlier were transformed:
 - Now families scattered to work for wages in factories
 - -Or planted just a few crops for sale at market
 - -Used money to buy goods made by strangers in far-off factories





XVIII. The Market Revolution (cont.) -Store-bought products replaced homemade products -Changed division of labor and status in household -Traditional women's work rendered superfluous and devalued -Home grew into place of refuge from world of work that increasingly became special and separate sphere of women • Revolutionary advances in manufacturing and transportation brought increased prosperity: -Widened gulf between rich and poor -New examples of colossal economic success

-John Jacob Astor left estate of \$30 million in 1848



XVIII. The Market Revolution (cont.) • Cities bred greatest extremes of economic inequality: — Unskilled workers fared worst; "drifted" from city to city — These workers accounted for up to ½ the population of new industrial centers — Were forgotten men and women of American history • Many myths about "social mobility:" — Mobility did exist in industrializing America — Rags-to riches success stories relatively few — American did provide more "opportunity" than elsewhere — Millions of immigrants headed for New World shores — General prosperity defused potential class conflict



ca. 1750	Industrial Revolution begins in Britain	ca. 1843-1868	Era of clipper ships
1791	Samuel Slater builds first U.S. textile factory	1844	Samuel Morse invents telegraph Anti-Catholic riot in Philadelphia
1793	Eli Whitney invents cotton gin	1845-1849	Potato famine in Ireland
1798	Whitney develops interchangeable parts for muskets	1846	Elias Howe invents sewing machine
1807	Robert Fulton's first steamboat	1848	First general incorporation laws in New York
	Embargo spurs American manufacturing		Democratic revolutions collapse in Germany
1811	Cumberland Road construction begins	1849	American, or Know-Nothing, party
1817	Erie Canal construction begins		formed
1825	Erie Canal completed	1851	London World's Fair
1828	First railroad in United States	1852	Cumberland Road completed
1830s	Cyrus McCormick invents mechanical mower-reaper	1858	Cyrus Field lays first transatlantic cable
1834	Anti-Catholic riot in Boston	1860	Pony Express established
1837	John Deere develops steel plow	1861	First transcontinental telegraph
1840	President Van Buren establishes ten-hour day for federal employees	1866	Permanent transatlantic cable established
1842	Massachusetts declares labor unions legal in Commonwealth v. Hunt		