Econ 113: February 10, 2015

- · Fertility Decline, continued
 - David & Sundstrom: Old-Age Security Motive
 - Lahey: Effect of Abortion Laws on Fertility Control
- Immigration
 - Modeling Immigration
 - Historical Patterns
- · Antebellum Labor Markets
- · Antebellum Poor Relief in New York
- Antebellum Banking & Finance

Model #2: "Old Age Security" Motive

- Paul David and Bill Sundstrom
- · Goal: old-age security
- Result: fertility = f (labor market opportunities)
 Parents bargain with children over care in old age.
 - So, ↑ labor market opportunities
 - $\rightarrow \uparrow$ bargaining power of children
 - $ightarrow \downarrow$ likelihood child will care for elderly parent
 - \rightarrow \downarrow expected return on parents' investment in children
 - → ↓ D(children)

Coefficients in a log-log specification

• "log" means "ln"

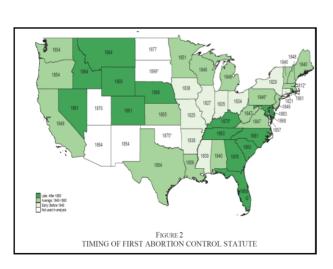
	Dependent Variable: Log of Child- Woman ratio in 1840			_		
	All States	North	South			
Constant	4.7228** (0.6106)	4.0930** (1.3991)	4.7164** (0.3032)			
Log (Male-Female ratio in rural areas, 1840)	0.5078 (0.2871)	0.3606 (0.6308)	0.6530** (0.1426)			
Log (Rural land <i>lack of</i> availability index, 1840)	0.0269 (0.0484)	0.00783 (0.09151)	0.0461 (0.0321)			
Log (ratio of non- agricultural to agricultural labor force, 1840)	-0.1799** (0.0243)	-0.1547* (0.0667)	-0.1547** (0.0153)	-		
Log (ratio of wages paid non-farm labor to wages paid farm labor, 1850)	-0.8228** (0.2122)	-1.0416* (0.4907)	-0.8538** (0.1069)	-		
n	29	16	13			
Adjusted R ²	0.776	0.661	0.951			
Note: Standard errors in parenthes ** is significantly different from 0 a ** is significantly different from 0 a ** to significantly different from 0 at Source: David & Sundstrom, "Old-A	es. t 1% 5%		0.931	•		

"Old-age security" motive - critique

• What assumptions might we challenge?

Lahey: Fertility Control

- Question: Could people control fertility? If so, how?
- Lahey examines effect of abortion laws
 - Was fertility higher in states and years when access to abortion was restricted?
 - Finding: Abortion restrictions lowered raised fertility by 4-15%
 - Oops . . . Be sure to catch that correction!

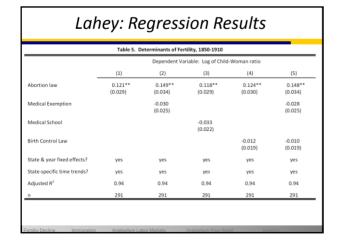


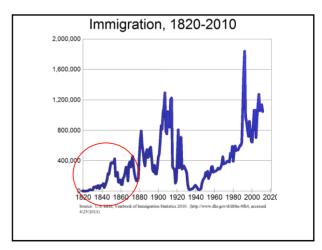
Coefficients in a log-linear specification

- "Log-linear" means
- If independent variable is 0-1, then coefficient tells us % change in (unlogged) dependent variable due to existence (1) or non-existence (0) of independent variable

Table 5. Determinants of Fertility, 1850-1910								
	Dependent Variable: Log of Child-Woman ratio							
	(1)	(2)	(3)	(4)	(5)			
Abortion law	0.121** (0.029)	0.149** (0.034)	0.118** (0.029)	0.124** (0.030)	0.148** (0.034)			
Medical Exemption		-0.030 (0.025)			-0.028 (0.025)			
Medical School			-0.033 (0.022)					
Birth Control Law				-0.012 (0.019)	-0.010 (0.019)			
State & year fixed effects?	yes	yes	yes	yes	yes			
State-specific time trends?	yes	yes	yes	yes	yes			
Adjusted R ²	0.94	0.94	0.94	0.94	0.94			
n	291	291	291	291	291			

Doing the Analysis State fixed effects Year fixed effects State-specific time trend





Immigration

 What share of total population growth was due to immigration?

 Table 6. Share of Population Growth Attributable to Immigration

 1800-25
 2-3 %

 1830s
 over 10 %

 1840s
 almost 25 %

 1850s
 almost 33 %

 Source: Derived from Historical Statistics.

Who were the immigrants?

- English
 - throughout period
- Irish
 - 1846-55, following potato famine of 1845-47
 - poor, laborers
 - to eastern cities
- Germar
 - 1850s, following political upheaval and harvest failures
 - not poor, farmers
 - to midwest
- Chinese
 - 1850s, following political upheaval and famine
 - laborers, miners
 - to California

Shares of immigrants by home country

T	Table 7. Patterns of Immigration by Home country						
	Great Britain	Ireland	Germany	China	Total #		
1820s	20. %	40. %	4. %	0. %	128,500		
1830s	14	32	23	0	538,400		
1840s	15	46	27	0	1,427,300		
1850s	16	37	35	1	2,814,600		
1860s	26	20	35	3	2,081,300		

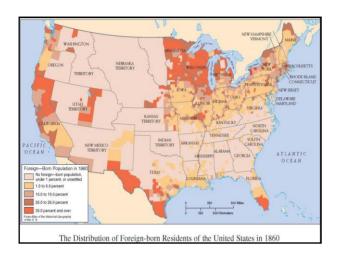
Source: U.S. Bureau of the Census, Historical Statistics of the United States, Colonial Times to 1970, Series C89, C91, C92, C95, C104.

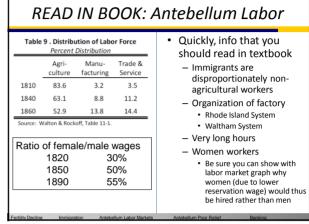
Shares of immigrants by occupation

Table 8. Patterns of Immigration by Occupation						
	Skilled	Farmers	Laborers	Women & Kids		
1820s	13. %	9. %	6. %	58. %		
1830s	13	12	8	59		
1840s	11	15	16	54		
1850s	8	14	18	55		
1860s	11	8	19	53		

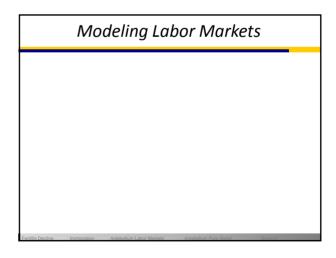
Source: U.S. Bureau of the Census, Historical Statistics of the United States, Colonial Times to 1970, Series C120, C130, C133, C134, C136.

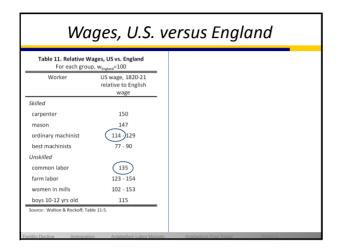
Modeling Migration	Migration: Goal?
Question: What determines migration?	
Simplifications: One model with "push" & "pull" factors Push factors Why leave home Why come to U.S.	
 Assumptions: Goal? Behavioral assumptions? 	
Migration: Push & Pull factors?	Migration: Behavioral Assumptions?

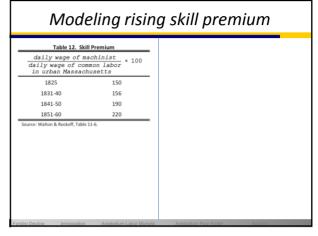




READ IN BOOK: Manufacturing Wages Table 10. Index of Antebellum Real Manufacturing Wages 1820 1832 1850 1860 101 128-150 155-197 159-191 Total Middle Atlantic 90 118-139 131-166 166-199 165-209 150-176 Urban 111 154-185 Urban/Rural 1.0-1.6 New England: Rural 95 133-156 143-181 156-187 130-153 150-190 Urban 110 165-198 Urban / Rural 1.2 0.8-1.2 0.8-1.3 0.9-1.3 Source: Walton & Rockoff, Table 11-4. Urban/Rural ratio calculated.







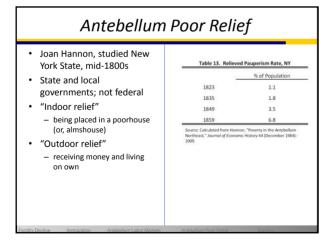
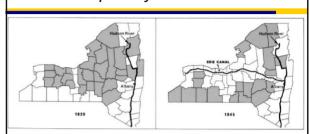


Table 14. Characteristics of Relief Recipients, 1843-59							
	1845-49	1855-59					
Male	55.6	44.8					
Native born	45.7	41.5					
Disabled or Elderly	12.4	5.1					
Able-bodied adults	40.6	72.2					
Intemperate (alcoholics)	20.4	9.9					
Debauched (immoral, probably related to prostitution)	1.6	0.6					
Idle & Vagrant	2.9	4.6					
Indigent & Destitute (poor)	15.7	57.0					

Correlations (not multivariate regression)

	1823		1840/44		1855/59	
independent variable	w/NYC	w/o NYC	w/NYC	w/o NYC	w/NYC	w/o NYC
population growth rate	-0.79*	-0.79*	0.23	0.68	0.60	0.43
% population that's urban	0.52	0.29	0.48	0.21	0.60	0.39
% Non-Agricultural L.F.	0.60	0.39	0.81**	0.71*	n.a.	n.a.
% Manufacturing L.F.	n.a.	n.a.	n.a.	n.a.	0.48	0.21
Household production per capita	-0.69*	-0.54	-0.90**	-0.86*	-0.74*	-0.61
% population foreign born	0.27	0.00	0.79*	0.68	0.67*	0.50
Extent of tenancy (versus freeholders)	-0.07	-0.54	n.a.	n.a.	n.a.	n.a.

Impact of Erie Canal



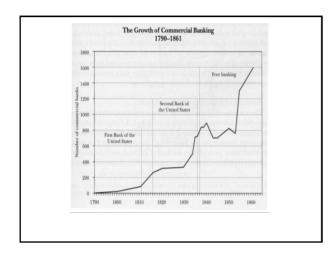
MAP 10.1 Canal Impact Household manufacture of woolen cloth (an index of isolation from commercial routes) underwent a drastic change between 1820 and 1845 along the Eric Canal. The shaded areas indicate the one-third of the counties with the highest home production of woolen goods during this period. (Source: Arthur H. Cole, American Wool Manufacture [Cambridge, Mass.: Harvard University Press, 1926], vol. 1.)

So, why rising antebellum poverty?

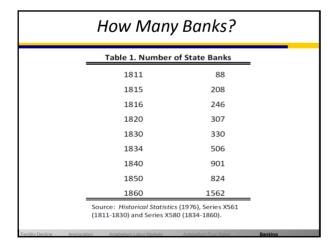
- Hannon concludes. . .
- Rising able-bodied rural poverty due to
 - Commercialization of agriculture and rise of factory system \Rightarrow decline of household production
- Rising able-bodied urban poverty due to
 - Industrialization created wage labor force facing seasonal, irregular work

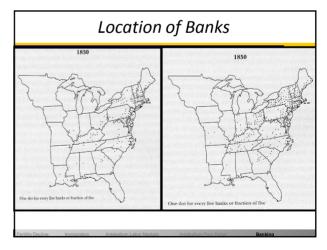
Antebellum Banking and Finance

- Banks and Finance
 - How were funds channeled from savers to borrowers?
- · Expansion of banking in antebellum period



• An institution that - accepts deposits - makes loans - earns profit - and holds reserves – a fraction of deposits – to cover withdrawals • "State" banks - Chartered vs. free - "Free banking" era begins 1836 • State by state basis





Asymmetric Information

- Adverse Selection
 - Before initial transaction
 - Non-random selection of participants
- Moral Hazard
 - After initial transaction, during life of contract
 - Change in behavior due to contract
- How address asymmetric information?
 - government regulation
 - fines & penalties
 - monitoring

Industrial New England, 1820-60

- Naomi Lamoreaux
- · Primary bank asset
 - Loans
- · Primary source of bank funds
 - Today: deposits
 - Early 19th century: issuing stock
- Banks preferred stock
 - Risk / return tradeoff

Insider Lending

- (def): Kinship or other relationships between bank board members and bank loan customers
- Insider lending solves asymmetric information problems
 - Lending
 - Acquiring Bank Funds

Insider Lending: Effects

- · Received wisdom: insider lending bad
- Lamoreaux: insider lending not bad in this context
 - Didn't lower credit availability
 - Didn't hurt soundness of banking system
 - Didn't decrease demand for bank stock
 - Didn't harm New England growth & development