### Econ 113: March 5, 2015

- Internal Migration: The Great Migration, continued
  - The 1910 & 1930 Census
  - Collins & Wanamaker paper
- Credit Markets in the 1920s

Midterm on Tuesday March 10 One <u>hand-written</u> 4x6 card Dmitri's students: here Erik's students: 247 Cory Hall



#### Jim Crow "Jim Crow" or "Jim Crow Laws" Laws or extra-legal behaviors/institutions that created and maintained racial segregation in the South - Examples: • Public Accommodations (private businesses offering services to public) Stores - Hotels - Restaurants - Restrooms - Drinking Fountains Government Services Busses Education - Create a culture that supports & perpetuates racism Over-ruled with Civil Rights Act of 1964 & Voting Rights Act of 1965 But not immediate change following 1965

Separate facilities, 1938







# Interactive resource re Jim Crow

- Definitely worth checking out on your own:
- <u>http://www.pbs.org/wnet/jimcrow/themap/map.html</u>

# Additional background

- · Strike breakers
  - During the 1910-1930 period, use of African-American workers as strike breakers
  - Especially in Illinois
  - Recruited, first from the South and later from local area
  - Good background article: Warren Whatley, "African-American Strikebreaking from the Civil War to the New Deal," *Social Science History* 17 (Winter 1993). Accessible at <u>http://www.jstor.org/stable/1171303</u>

## Collins & Wanamaker

- Question: Did migration increase African American income?
- Challenge: Migrants aren't a random selection of population, so comparing migrants and non-migrants gives skewed results
- Solution: Use 1910 & 1930 censuses to create a panel

#### What's in the Census?

- 1910 Census Questions
  - https://usa.ipums.org/usa/voliii/items1910.shtml
- 1930 Census Questions
  - https://usa.ipums.org/usa/voliii/items1930.shtml
- Generally, this source:
  - https://usa.ipums.org/usa/voliii/tEnumForm.shtml

# Measuring Income

- Don't have income in 1910 or 1930 census
- C&W create "earnings scores"
  - Occupation
  - Industry
  - Employment status, 1930
  - Southern-born black men
- Two different sources of earnings data

   Lebergott (1928) & IPUMS (1960)
- Two measures: nominal & real
- Dependent variable: In(earnings score)
  - With those four variants (nominal vs real, 1928 vs 1960)

# Are there 1910 differences in income?

- · Checks for selection bias in who migrates
- M = 1 for migrants, 0 for non-migrants
- Suppose ln(Y) = ln(1,000) = 6.908 for migrants and ln(Y) = ln(800) = 6.685 for non-migrants
- Then "log earnings score difference" = 0.223  $e^{0.223}$  = 1.25, a 25% difference (1,000 is 25% more than 800)
- And a regression of ln(Y) on M would yield coefficient estimate of 0.223 for M
- C&W control for observables & also county fixed effects

TABLE 4—1910 LOG EARNINGS SC	ORE DIFFERENCES BET AND NONMIGRANTS	WEEN SUBSEQUENT I	MIGRANTS
	(1)	(2)	(3)
Panel A. Earnings score based on Lebe Nominal	ergott (1928) 0.126 (0.0249)	0.0468 (0.0198)	0.0221 (0.0225)
Real	0.115 (0.0238)	0.0443 (0.0200)	0.0230 (0.0227)
Panel B. Earnings score based on IPU Nominal	MS (1960) 0.152 (0.0287)	0.0519 (0.0228)	0.0160
Real	0.142 (0.0277)	0.0495 (0.0230)	0.0169 (0.0265)
Controls for personal, household and county characteristics in 1910	No	Yes	Yes
1910 County fixed effects	No	No	Yes
Observations	2,079	2,079	2,079

#### Interpretation: Table 4

- With no controls, appears there was <u>positive selection</u> of migrants
  - Migrants had 12% higher 1910 income than non-migrants
- But add observable characteristics, *ceteris paribus* Migrants had just 4.5% higher 1910 income than non-migrants
- And control for unobservables with county FE
   Difference is just 2% and no longer statistically significant
- Therefore: weak evidence for positive selection of migrants

Does migration a	affect occupation?
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	Distribution in 1910	Professional/ clerical in 1930	Farm in 1930	Crafts/ semi-skill in 1930	Nonag. laborer/operative in 1930
Panel A. Full sample $(N = 1)$	,829)				
Professional/clerical	1.5	0.4	0.7	0.2	0.3
Farm	56.8	1.8	33.1	4.7	17.2
Crafts/semi-skill	8.0	0.9	2.5	1.1	3.5
Nonag. laborer/operative	33.8	1.6	13.8	4.3	14.1
Panel B. Nonmigrants (N =	1,548)				
Professional/clerical	1.6	0.5	0.8	0.1	0.3
Farm	59.1	1.7	38.8	4.4	14.3
Crafts/semi-skill	7.6	0.8	3.0	1.0	2.8
Nonag. laborer/operative	31.7	1.3	15.9	3.0	11.6
Panel C. Migrants ( $N = 281$	0				
Professional/clerical	0.7	0.0	0.0	0.4	0.4
Farm	43.8	2.5	1.8	6.1	33.5
Crafts/semi-skill	10.3	1.4	0.0	1.4	7.5
Nonag. laborer/operative	45.2	3.2	2.5	11.4	28.1

### Do migrants see increased income?

• First, cross-section analysis

 $Y_{i,1930}$  = constant + (coeff)\*M + (lots of coeff's)\*(lots of controls) Or as they write it

 $Y_{i,1930} = \lambda + \tau_i * M_{i,1930} + X_i * \tau_2 + u_i$ 

- · Different types of controls
  - Observables (the X<sub>i</sub> varaibles)
  - County FE
  - Household FE (for sets of brothers)
- Last equation: panel approach
- "differenced dependent variable"

	(1)	(2)	(3)	(4a)	(4b)	(5a)	(5b)
Panel A. Earnings score ba	ased on Leber	rgott (1928)				2010/01/020	
Nominal	0.891 (0.00981)	0.869 (0.0100)	0.860 (0.0124)	0.788 (0.0795)	0.789 (0.0982)	0.878 (0.0177)	0.832 (0.0273
Real	0.685 (0.00950)	0.667 (0.00968)	0.661 (0.0119)	0.604 (0.0759)	0.595 (0.0935)	0.680 (0.0167)	0.636 (0.0268
Panel B. Earnings score be	ased on IPUM	AS (1960)					
Nominal	0.900 (0.0135)	0.873 (0.0138)	0.860 (0.0166)	0.788 (0.0996)	0.786 (0.121)	0.889 (0.0249)	0.829 (0.0345
Real	0.694 (0.0133)	0.671 (0.0136)	0.661 (0.0161)	0.604 (0.0993)	0.592 (0.121)	0.691 (0.0243)	0.633 (0.0342
Controls for personal, household, and county characteristics in 1910	No	Yes	Yes	Yes	Yes	Yes	Yes
1910 County fixed effects	No	No	Yes	Yes	No	No	No
1910 Household fixed effects	No	No	No	No	Yes	No	No
Differenced dependent variable (1930–1910)	No	No	No	No	No	No	Yes
Observations	5.055	5.055	5.055	403	403	1,935	1,935

	Interpretation: Table 6
•	Fairly consistent coefficient on M of ~ 0.6 to 0.65 – Note: e <sup>0.6</sup> = 1.822 (82% gain), e <sup>0.65</sup> = 1.916 (92% gain)
	Race Relations Collins & Wanamaker Credit Use

# But what about . . .

- Is the study telling us <u>why</u> people migrated?
- What are other ways of framing the question?

Migration: Goal?	Migration: Push & Pull factors?
-seck weath (mey (weath)) franced - freedon - Paliteu, relajons - educational offs - escape famine - wood bud life - was new reme - adventure/adrenalin - family unity Migration: Behavioral Assumptions?	lust Find ayr. - discrimination oppression - epidemic - uner - uner - gran phicies - famine - famine - analycomming concesting - into grand and resums - cost of index - family concesting - into grand and resums - cost of index - family concesting - cost of index - cost of index
- means of migrating - heress to infor. - goal may (something) (rationality - Choice - legal - affind cost of moving - healthy provid-	

# Race and Economics: Credit

- Olney article, "When Your Word is Not Enough" ٠
- · Installment credit - Purchase of particular durable good
- · Merchant in-store credit
  - Grocer, doctor, soft goods, and so on

#### Installment Credit

- Goods purchased on installments, 1918-1919
  - Pianos
    - 80 % of white and 95% of black families used credit
  - Phonographs
    - About 50% of both white & black families used credit
  - Furniture
    - · 20% of white and over 50% of black families used credit
  - Appliances
    - · 15% of white and 25 % of black families used credit

# Who used credit?

•

Percent of I	Tabl Iouseholds	le 9. Using Credi	t, 1918-	1919
		White		Black
	all citie	es 14-ci	ties	14-cities
Installment Credi	t 21.0	22	.7	37.0
Merchant Credit	25.0	24	.0	21.7
Cost c	f Living Surve	values from Py, 1918-191 lite	9 Bla	ck
	all cities	14-cities	- 14-ci	ties
Income	\$1,517	\$1,467	\$1,1	41
Labor Y as % of Total Y	96.2 %	96.7 %	96	1%
% Wife in paid	8.6	5.3	43	.8

9.7 50.6

10.3

13.1

24.1 18.6

5.5 5.3 5.2

% Own he

#### Installment credit

- greater use by black families than white families
- explained by low income and wealth
- But a different pattern for merchant in-store credit
  - less use by black families than by white families
- even though black income and wealth lower



# Blinder-Oaxaca method

 But what if credit use responds differently to many of the independent variables for black families than for white families?

	Table 12	Predicted Lik . 1918	elihood of usi -1919	ng credit
t		White means & White coefficients	Black means & Black coefficients	Black means & White coefficients
	Installment	25.2	77.4	79.9
	Merchant	16.6	15.8	30.1

Race-specific regressions
 Use to predict "What's chance family uses credit?"

One approach

 Distinguishes between "different treatment" and "different characteristics"







Income summary stats						
	Mean (S.D.)	25 – 75 percentile	10 % cutoff	90 % cutoff		
All white families	\$1,517 (420)	\$1,222 - \$1,746	\$1,050	\$2,064		
In 14 city subsam	ple					
White families	\$1,467 (397)	\$1,188 - \$1,696	\$1,028	\$1,973		
Black families	\$1,132 (273)	\$950 - \$1,269	\$833	\$1,485		
Race Relation	Race Relations Collins & Wanamaker Credit Use					