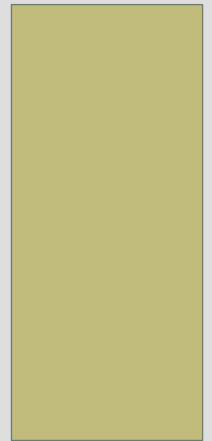


LIFETIME MIGRATION TRENDS OF ADULTS IN THE UNITED STATES

ALBERT HERMALIN & LISA NEIDERT
UNIVERSITY OF MICHIGAN



MIGRATION IN THE NEWS

Detroit was once the most prosperous manufacturing city in the United States. Will California follow Detroit down a tragic path to imagine the Detroit of 2010. In 1970, when foreign imports started to flood the market, the unions and their political allies resisted any change. In the end, the unions and their political allies slipped away. No one in Detroit envisioned their future.

The New York Times

WORLD U.S. N.Y. / REGIONAL
POLITICS EDUCATION TECHNOLOGY

A Gap in College Graduates Leaves Some Cities Behind

Shifting Geography of Population Change

Just 24 percent of the adult residents of many cities below the national average.



By SABRINA TAVERNISE
Published: May 30, 2012 433 Comments

DAYTON, Ohio — As cities like this one reinvent themselves after losing large swaths of their manufacturing sectors, they are discovering that one of the most critical ingredients for a successful transformation — college graduates — is in perilously short supply.

Where the Brains Are
America's educated elite is clustering in a few cities — and leaving others behind.
By Richard Florida
OCTOBER 2005

THE MICHIGAN NUMBERS
America's educated elite is clustering in a few cities — and leaving others behind.
By Richard Florida
OCTOBER 2005

NUMBERS DON'T SUPPORT MIGRATION EXODUS TO "COOL CITIES"
The migration of the country's educated elite to a few cities is not supported by the numbers.
By Richard Florida
OCTOBER 2005



Shifting Geography of Population Change

Just 24 percent of the adult residents of many cities below the national average.

ECONOMICS POLITICS URBAN ISSUES SMALL CITIES

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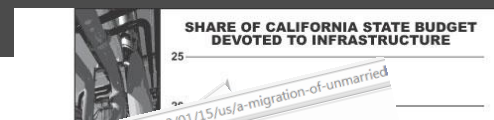
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A Migration of Unmarried Men
The oil boom in North Dakota has sharply altered the state's balance of sexes. North Dakota has the third-highest rate in the nation. The rates charted here have decreased for most states as women have tended to wait longer to get married.

Published: January 15, 2013

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America's Bipolar Population Shift

Derek Thompson | DEC 30 2010, 1:45 PM ET

One common interpretation of the 2010 Census figures was that U.S. migration patterns reflected a shift from the Northeast and Midwest to the Sun Belt. But a closer look at the data reveals a more complex picture. In the last 10 years, more than 10 million people have moved from the Northeast and Midwest to the Sun Belt. But a closer look at the data reveals a more complex picture. In the last 10 years, more than 10 million people have moved from the Northeast and Midwest to the Sun Belt.

What's behind the shift? The answer lies in a combination of factors. For one, the Sun Belt has a more favorable climate and a lower cost of living. For another, the Sun Belt has a more diverse economy, with a strong focus on technology and services. Finally, the Sun Belt has a more diverse population, with a mix of people from different backgrounds and cultures.

Housing regulations, more so in the Sun Belt, have made it harder for people to move. This has led to a more diverse population in the Sun Belt, with a mix of people from different backgrounds and cultures.

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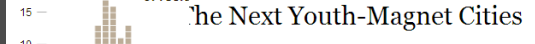
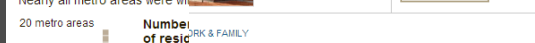
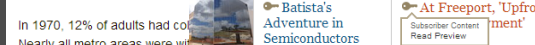
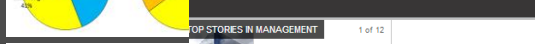
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MIGRATION NEWS: MICHIGAN

Migration out of Michigan halts, moving data shows

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By ASSOCIATED PRESS

ST. LOUIS (AP) - A new study by the nation's largest moving company indicates that migration out of Michigan has finally slowed to a virtual halt.

Suburban St. Louis-based United Van Lines released its 37th annual migration study to The Associated Press. The company tracks the states its customers move to and from over the course of a year. It includes Washington, D.C., but excludes Alaska and Hawaii.

For 2013, Oregon was the top moving destination with 63 percent of interstate moves inbound. New Jersey repeated as the state with the highest percentage of outbound moves, at 63 percent.

Michigan was about evenly balanced between inbound and outbound moves. The state had 16 years of outbound migration and was tops in outbound moves from 2006 through 2009.



Credit
<http://www.unitedvanlines.com>
Migration map

[Enlarge image](#)

TAGS: [migration](#) [Midwest Migration](#) [#mobility](#)

HOW TO MEASURE?

- Indirect
 - Net-migration
- Direct
 - Where did you live 5-years/1-year ago?
 - Current residence & place of birth

LIFETIME MIGRATION

- Place of Birth
- Current Residence
- Measures
 - Living in state of birth
 - Not living in state of birth
 - Out-migration from state (domestic only)
 - In-migration to state (domestic and foreign)
 - Attraction, Retention, Hot/Cold States
- Decomposition of College Graduates for states
 - Expected vs Actual in-migration of college graduates
 - Production/Retention; Attraction


DATA & CONTROLS

- Adults
 - Working age (25 to 59)
 - Retirees (60+)
- Education
 - <HS
 - HS grads & some college
 - BA+
- ACS 2006-2010

GEOGRAPHY

- States, DC in calculations, but not rankings


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Is Washington dc a state or not? Mom is trying to tell me it is a state
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 **Joan Eisenstodt** @JoanEisenstodt 30 Nov 12
One time when #DC is glad it's not a state: best & worst run states in US. ow.ly/fJdNR
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 **Darin LeZotte** @Darin_LeZotte 26 May 11
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D.C. per capita income tops state list: D.C. is not a state, but if it were ranked as one, the District's per ... bit.ly/XmiKuy
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 **Guy Lambert** @GuyLambertNews 2 May
Good question..?"@mcgintyman: @GuyLambertNews Thing is, DC is a city, not a state. I wonder if its ahead of Detroit or Atlanta or Philly..
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 **Lisa Neidert** @MsDrData 23 Oct
According to America's Mood #Map I belong in DC ti.me/H23Mna . . . that's not even a state & it isn't on the map.
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 **J.T. E** @jtedc 19 Ju
DC looks horrid in this top 10 states for homeless rates. Only DC is not a state. pic.twitter.com/qMDEfP89if
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HIGHEST RATES OF HOMELESSNESS

The national rate of homelessness is about 20 homeless people per 10,000 in the general population, according to the latest data from the National Alliance to End Homelessness.

Here are the 10 areas with the highest rates (per 10,000 in the general population):

1. Washington, D.C. **112.5**
2. Hawaii **45.4**
3. Oregon **40.9**
4. Nevada **36.4**
5. New York **35.7**

ADULT POPULATION IN THE US ACCORDING TO LIFETIME MIGRATION STATUS: ACS 2006-2010

(IN MILLIONS)

Lifetime Migration	Population, 25+	25 to 59	60+
Living in state of birth	99.6	73.2	26.4
All Migrants	100.2	72.4	27.8
Migrant: Interstate	65.1	44.4	20.7
Migrant: From Abroad	35.0	27.9	7.1
TOTAL	199.7	145.6	54.2

EQUATIONS

Term or Equation	Definition
B	The total number born in a state
E	The number of native born who leave
D	The number of in-migrants
$C = B - E$	The number of current residents who are native born
$A = C + D$	The total number of current residents
$(B - E)/B$	Retention: Current residents who are native born
D/A	Attraction: Current residents who are in-migrants
$D - E$	Net gain or loss from migration
$(D - E)*100/A$	Percent gain or loss from migration

LIFETIME MIGRATION DATA

FOR SELECTED STATES (25 TO 59): 2006-2010

(IN THOUSANDS)

State	Total	Born in State		In-Migrants		Gain or Loss
	Residents	Resident	Out-Migrant	Domestic	Foreign	
NV	1,289	130	141	790	369	78.9
FL	8,588	2,089	1,181	4,001	2,498	61.9
AZ	1,156	681	440	1,560	620	60.8
CA	17,754	7,156	3,594	3,571	7,027	39.5
GA	4,632	2,076	864	1,867	690	36.5
TX	11,577	5,695	1,820	3,037	2,846	35.1
USA	145,492	73,195	44,438	44,438	27,858	19.2

WE'RE NUMBER 3



LIFETIME MIGRATION DATA

FOR SELECTED STATES (25 TO 59): 2006-2010

(IN THOUSANDS)

State	Total	Born in State		In-Migrants		Gain or Loss
	Residents	Resident	Out-Migrant	Domestic	Foreign	
ND	298	194	257	93	11	-51.4
WV	879	596	553	264	18	-30.7
IA	1,387	947	787	352	88	-25.1
LA	2,094	1,564	884	408	123	-16.9
OH	5,463	3,972	2,150	1,185	307	-12.1
MI	4,725	3,501	1,765	835	389	-11.4
NY	9,365	5,211	4,229	1,207	2,947	-0.8
IL	6,169	3,649	2,567	1,274	1,246	-0.8
USA	145,492	73,195	44,438	44,438	27,858	19.2

RETENTION RATES FOR 25-59: BEST/WORST TOTAL AND COLLEGE EDUCATED

State	Total		State	BA+
Alaska	26.2		Alaska	16.2
Wyoming	36.6		Wyoming	25.4
North Dakota	43.0		Delaware	34.4
South Dakota	45.6		North Dakota	34.4
Montana	47.8		South Dakota	35.0
USA	62.2		USA	52.1
Minnesota	68.0		Georgia	58.5
Wisconsin	68.9		Minnesota	58.8
Georgia	70.6		North Carolina	61.3
North Carolina	72.2		California	65.2
Texas	75.8		Texas	69.4

ATTRACTION RATES FOR 25-59: BEST/WORST TOTAL AND COLLEGE EDUCATED

State	Total Rate		State	BA+
Louisiana	25.3		Louisiana	34.0
Michigan	25.9		Michigan	35.0
Ohio	27.3		Ohio	37.2
Pennsylvania	29.4		Pennsylvania	38.2
Iowa	31.7		Mississippi	38.4
USA	49.7		USA	57.5
Colorado	69.8		New Hampshire	77.7
Alaska	75.3		Florida	80.9
Florida	75.7		Arizona	82.9
Arizona	76.2		Alaska	85.6
Nevada	89.9		Nevada	91.0

HOT & COLD STATES

RETAIN		ATTRACT			
		1Q	2Q	3Q	4Q
	1Q	ND	SD, KS	MT	ID,WY, AK, NV
	2Q	IA, WV	NE,ME, NY,RI	HI,VT, NM,NJ	DE,NH, CO
	3Q	LA,MS, IN,MO	IL,MA, AL,OK	CT,VA	MD,WA, OR,FL,AZ
	4Q	MI,OH,PA, WI,KY, AL,MN	TN,SC,UT	NC,TX, GA,CA	HOLY GRAIL

EQUATIONS: EXPECTED NUMBER OF COLLEGE IN-MIGRANTS FOR A STATE

Term	Concept	Definition	California
S	Relative size of a state	States' share of the US population in 1990	.1197
T	College graduates at risk of moving to state <i>i</i>	[Total number of domestic + foreign migrants, BA+ for US] – [out-migrants from state <i>i</i> with a BA+]	[17,009,032 + 8,009,081] - [3,593,764]
U	Expected number of BA+ in-migrants	$S \times T$	2,864,454

MEASURES OF EXPECTED COLLEGE IN-MIGRATION FOR SELECTED STATES (AGE 25 TO 59)

State	Actual	Expected	Actual – Expected	Gain Loss ÷ Expected	Gain Loss ÷ College Pop 2006-2010
NV	257,808	119,897	136,911	2.14	48.5
AZ	631,440	356,761	256,679	1.73	34.9
GA	937,377	642,943	294,434	1.46	26.9
FL	1,888,371	1,280,296	608,074	1.48	26.1
CA	3,452,528	2,864,454	588,074	1.21	10.7
TX	1,770,316	1,668,569	101,747	1.06	3.5
NY	1,537,076	1,670,588	-133,512	0.92	-4.1
IL	966,656	1,104,303	-137,646	0.88	-6.7
IA	152,444	276,354	-123,910	0.55	-32.1
MI	451,959	909,255	-457,296	0.50	-35.4
WV	68,647	178,989	-110,522	0.39	-66.2

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CONCLUSIONS

- Analysis of lifetime migration
 - Useful adjunct to other migration studies
 - including international data via IPUMSi
 - No over-interpretation of short-term fluctuations
- Data-driven policies
 - How well is state retaining its talent?
 - How well is state attracting talent from other states/abroad?
 - Understanding the magnitude of the production/retention of college graduates
- Weaknesses
 - Many, but also shared by other migration analyses.