

Measuring Characteristics of Unauthorized U.S. Immigrants: Individual- & Aggregate-level Estimates from Alternative Methods

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I. Motivations

- Two decades of research assigning legal status to individual foreign-born U.S. residents enumerated in public use datasets to estimate the characteristics, integration and effects of unauthorized migrants ...
 - Marcelli, Enrico A. and David M. Heer. 1997. "Unauthorized Mexican Workers in the 1990 Los Angeles County Labour Force." *International Migration* 35(1):59-83.
 - Passel, Jeffrey S. and Rebecca L. Clark. 1998. "Immigrants in New York: Their Legal Status, Income, and Taxes." Washington, D.C.: *The Urban Institute*.
- Scant research directly comparing results of these (two) or other legal status estimation methods for three decades ...
 - Heer, David M. and Jeffrey S. Passel. 1987. "Comparison of Two Methods for Computing the Number of Undocumented Mexican Adults in Los Angeles County," *International Migration Review* 21(4):1446-73.

II. Pew Estimation/Assignment Methodology (Outline)

■ Estimate unauthorized in survey

- Residual = survey minus lawful immigrants (LPRs)
- Demographic estimate of LPRs from admin records

■ Assign “definite” legal immigrants

- Temporary lawful (e.g. students) using characteristics
- Refugees based on date of arrival & country of birth
- Naturalized citizens (except Mexico, Central America)
- Screen others on characteristics

■ Assign unauthorized in microdata

- Probabilistic “multiple imputation”
- $P(\text{unauthorized}) = \text{Residual} / \text{“Potential” unauthorized}$
- Edit families for consistency & iterate to targets

■ Tabulate microdata

- Adjust weights for omissions

II. Pew Estimation/Assignment Methodology (Lawful Status)

■ Definite lawful immigrants

- Naturalized citizens, refugees & lawful temps (previous)
- Entered US before 1982
- Occupations/employers →
 - Government workers, veterans & military
 - Law enforcement and related
 - Court and legal
 - Licensed occupations (e.g., Medical)
 - Security occupations (esp. with licensing; e.g. police, ATC)
 - Assorted other minor occupations
- Program participation (SSI, TANF, Medicaid*, Medicare)
- Family members (most) of lawful residents

■ Others are “Potentially Unauthorized” →

II. Pew Estimation/Assignment Methodology (Unauthorized Status)

■ Targets

- 6 States (CA, FL, IL, NJ, NY, TX) and balance of US
- Total, Under 18 (i.e., children)
- Mexico, Latin America, Asia, Other

■ Random assignments of *Potentials*

- Initial p 's = Target / Potential Unauthorized
 - Parents & non-parents done separately
 - Assignments for parents use targets for children
 - Initial modification using surveys (LPS, potentially EM, SIPP)
- Edit for consistency (parents, children, relatives)
- Iterate p 's to hit targets

■ Adjust weights for omissions

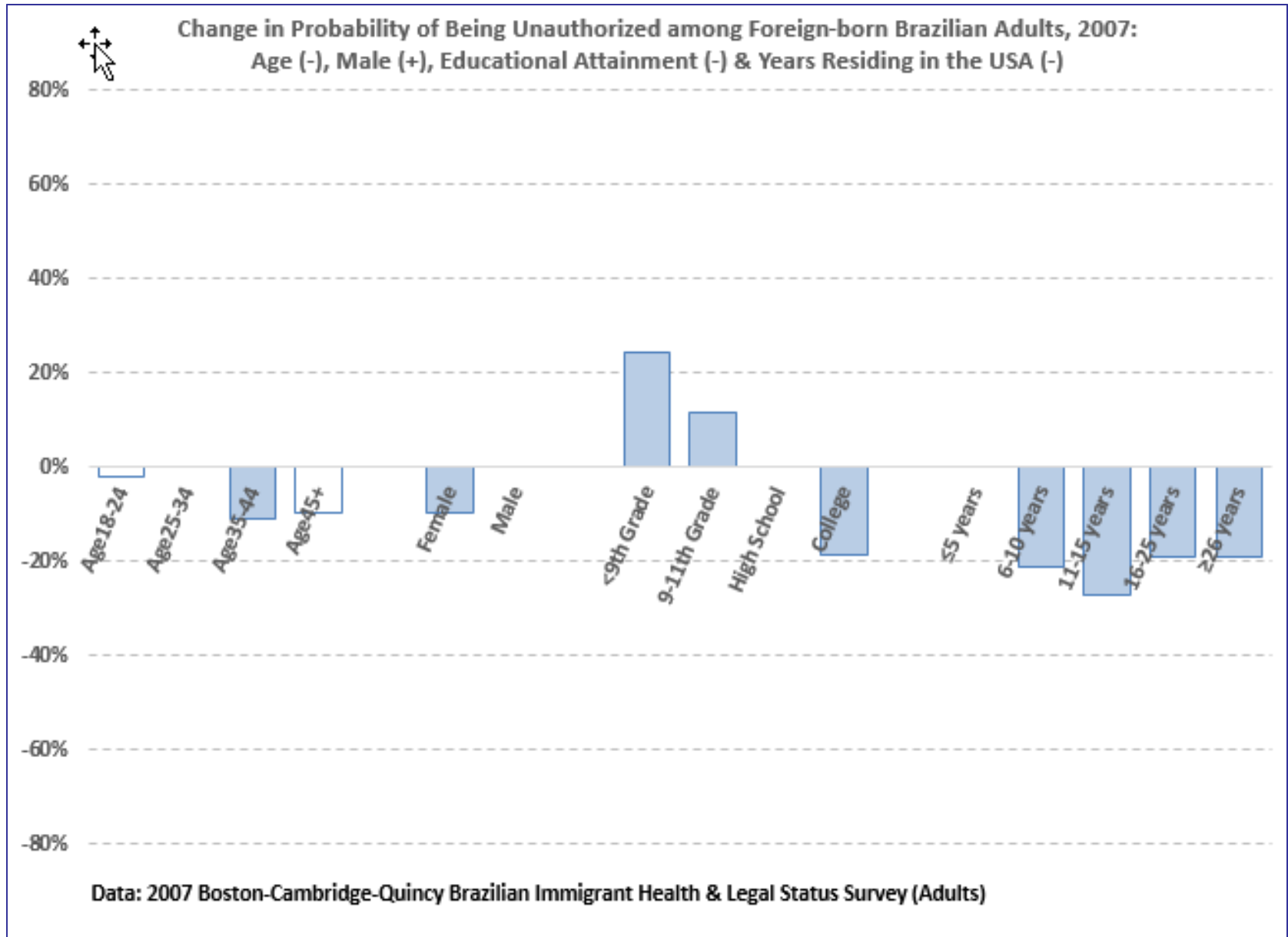
III. The Community-Based Sample Survey Assignment Method

- Randomly collected migrant legal status & health data
 - 2001 & 2012 *Los Angeles County Mexican Immigrant Health & Legal Status Surveys* (LAC-MIHLSS)
 - 2007 *Boston Metro Brazilian & Dominican Immigrant Health & Legal Status Surveys* (BM-IHLSS)
- Sample Selection: U.S. Census tracts → blocks → households → individual adult foreign-born migrants interviewed by 24-30 trained adult compatriots about household members' migration, socioeconomic status, social capital & health.
- Questionnaire Development: Researchers and CBO staff ...
 - Marcelli, Enrico A. 2014. "The Community-Based Migrant Household Probability Sample Survey," In *Migration and Health Research Methodologies: A Handbook for the Study of Migrant Populations*. Schenker et al., Berkeley and Los Angeles, CA, University of California Press: 111-140.

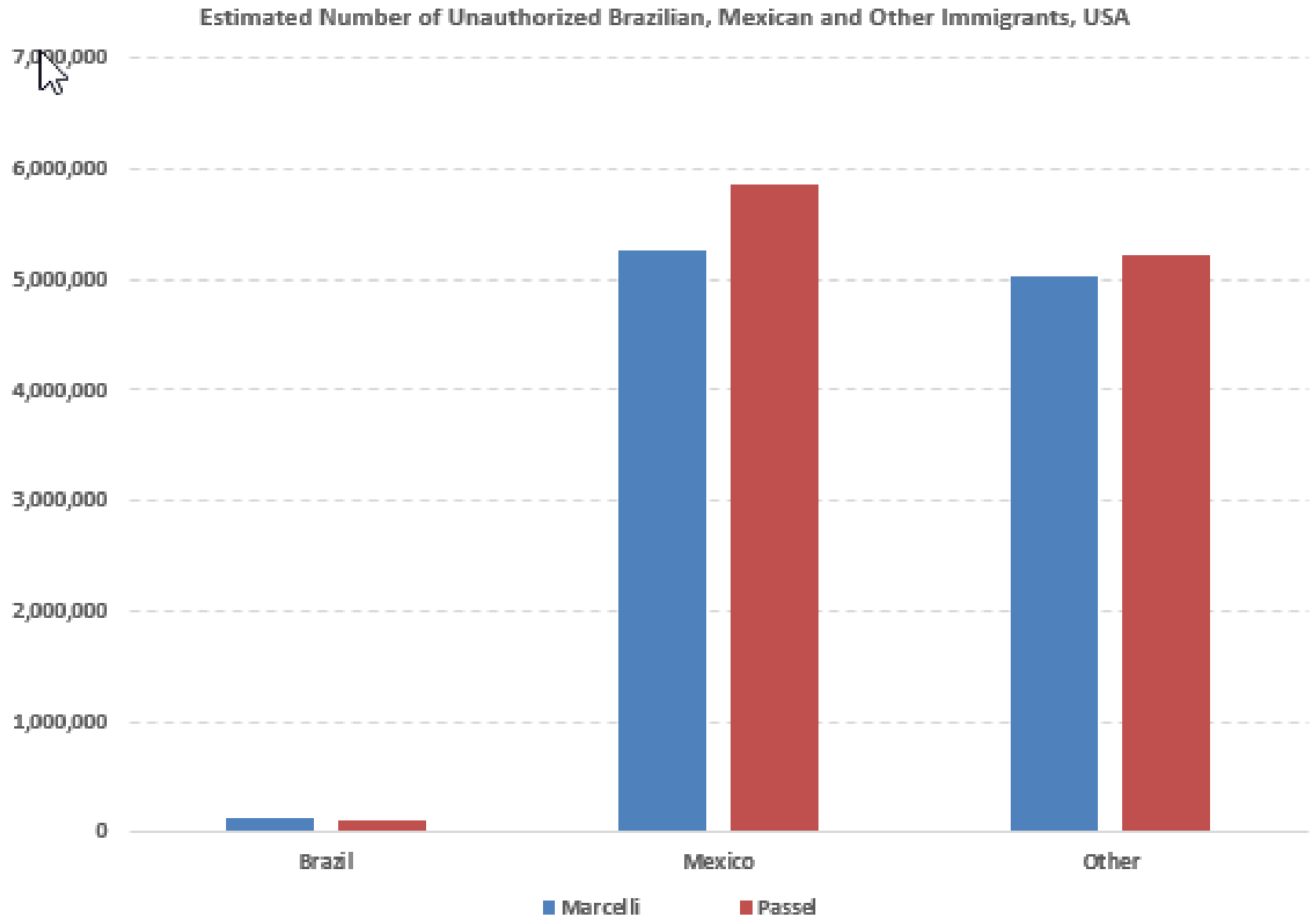
III. The Community-Based Sample Survey Assignment Method

- **Seven-step legal status assignment**
 - Use community-based sample survey data to generate coefficients
 - Compute probabilities of being unauthorized in public use data
 - Compute target number of unauthorized adults = sum of probabilities.
 - Rank probabilities in decreasing order
 - Tag each adult as unauthorized until running sum = target
 - Assign unauthorized legal status to children
 - Apply survey omission-adjusted sample weights
- **Two limitations of direct sample survey data/method**
 - Legal status predictors ONLY available for foreign-born Mexican, Brazilian and Dominican residents of the USA ... to date.
 - Legal status predictors ONLY available from Los Angeles County and the Boston-Cambridge metropolitan area, to date.

III. The Community-Based Sample Survey Assignment Method



IV. Results



IV. Results

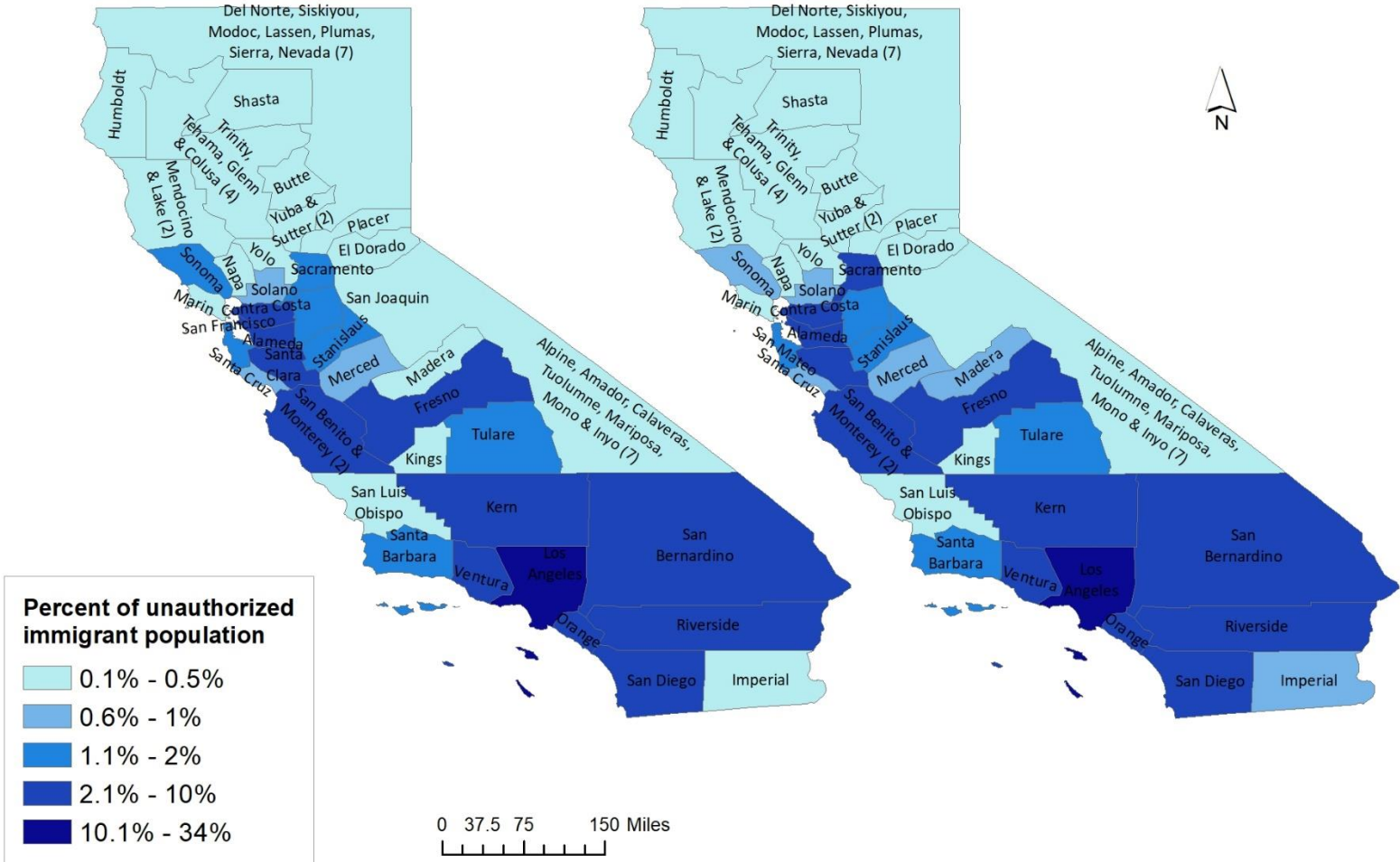
Distribution of Unauthorized Immigrants by County, CA, 2011-15 ACS

2,400,000 (6.1%)

Passel Estimates

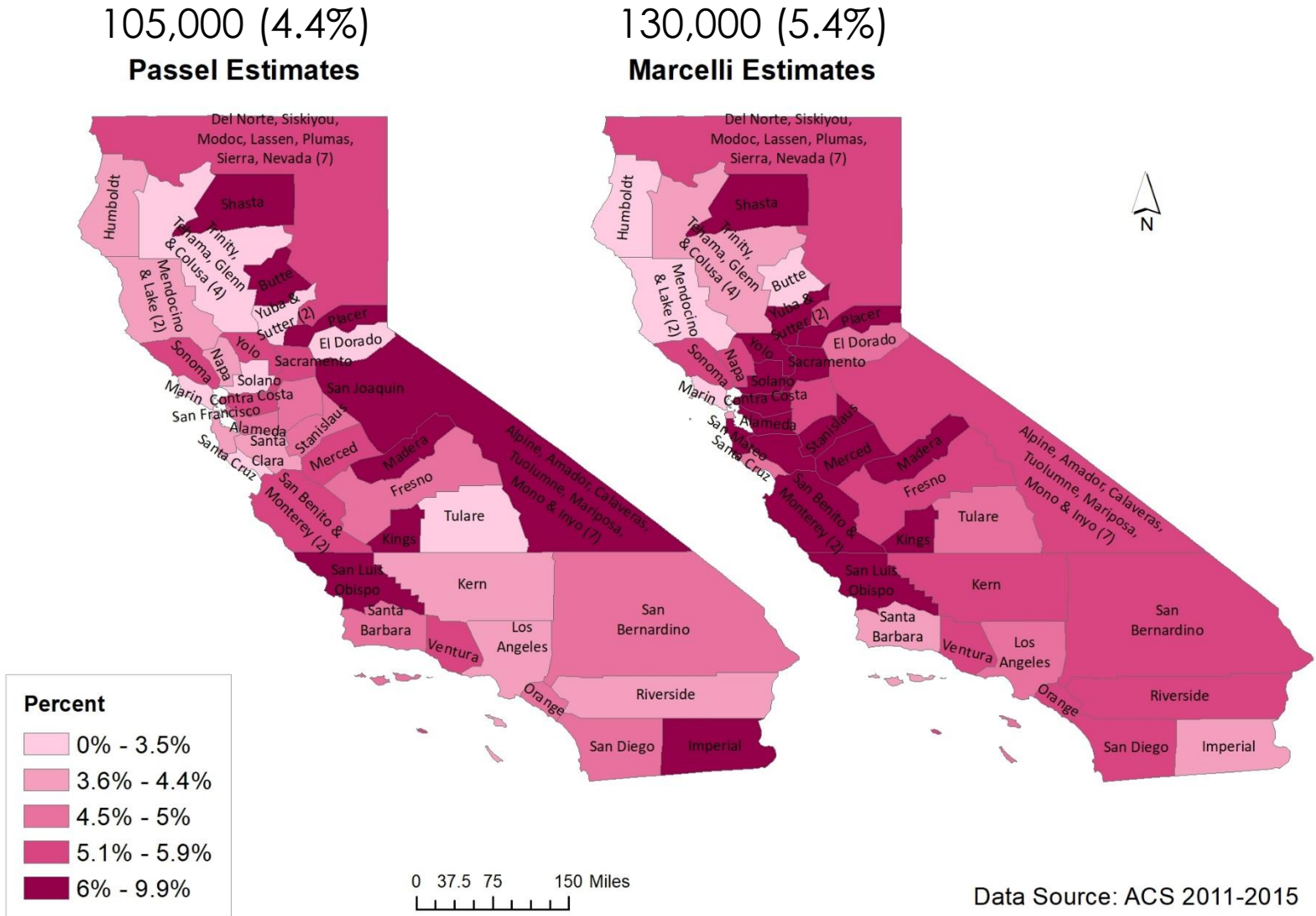
2,415,000 (6.2%)

Marcelli Estimates



IV. Results

Share of Unauthorized Immigrants Under 18 Years Old by County, CA



IV. Results

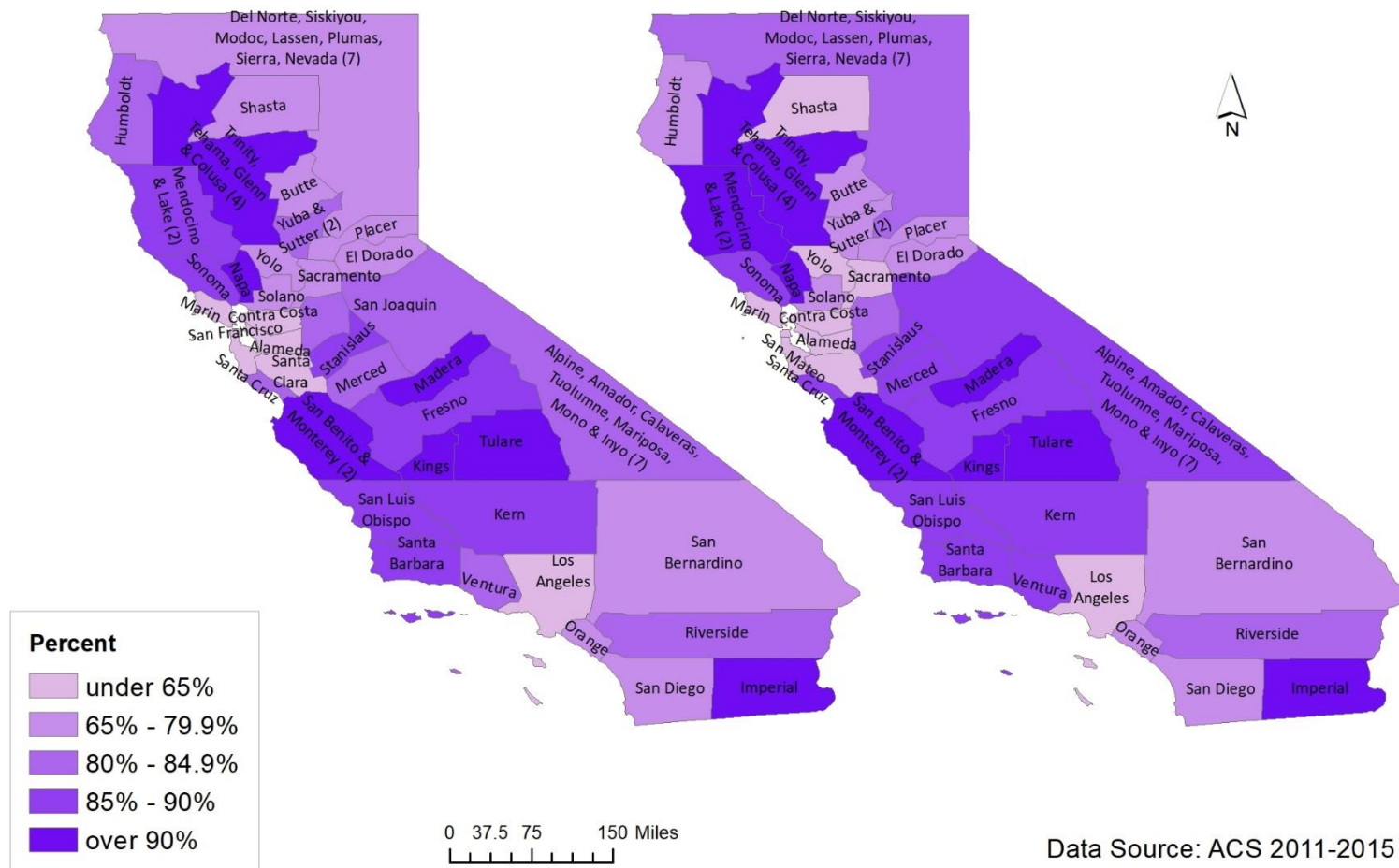
Share of Unauthorized Immigrants from Mexico by County, CA

1,650,000 (68%)

Passel Estimates

1,680,000 (70%)

Marcelli Estimates



IV. Results

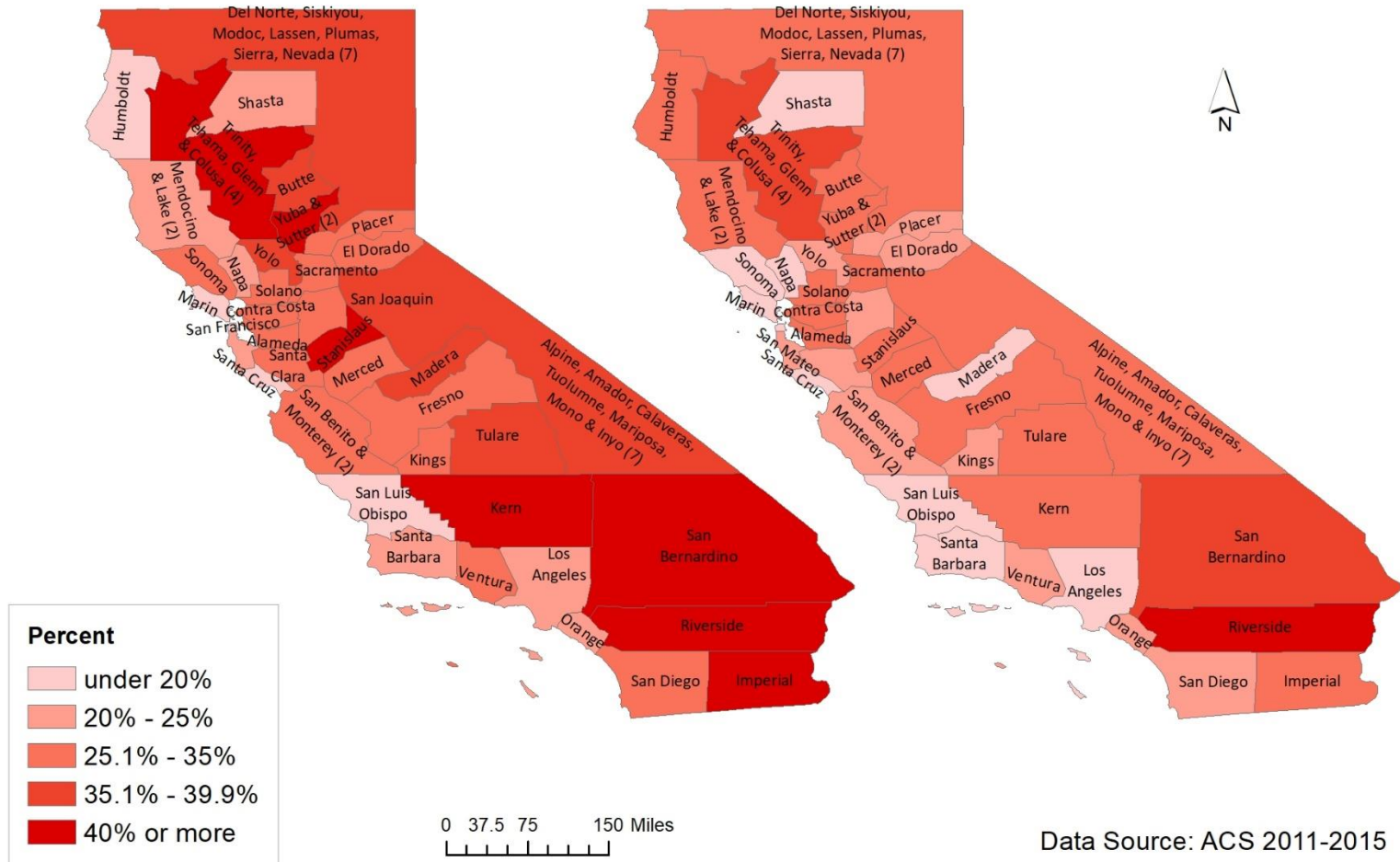
Share of Unauthorized Immigrants who Own a Home, by County, CA

695,000 (29%)

575,000 (24%)

Passel Estimates

Marcelli Estimates



IV. Results

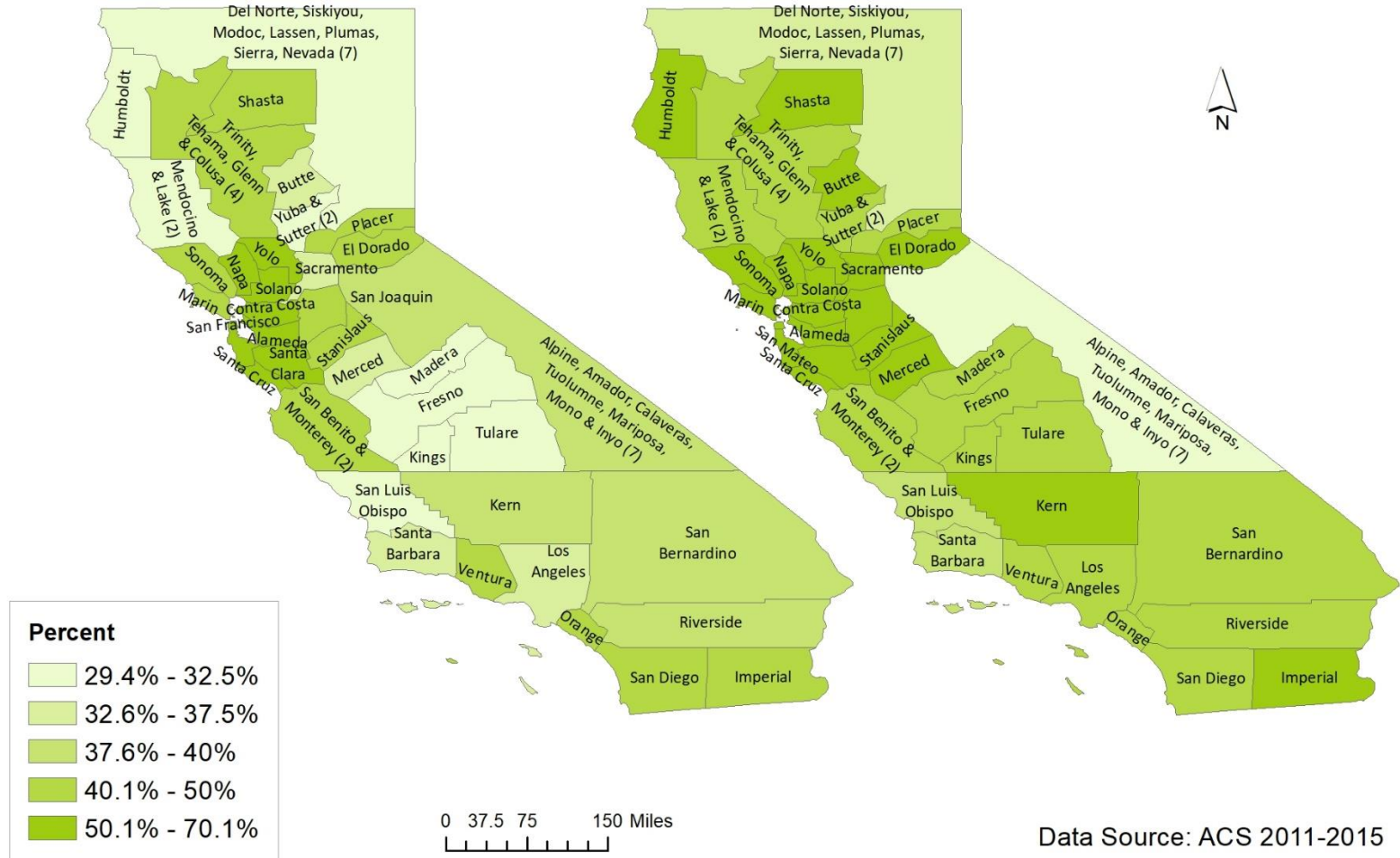
Share of Unauthorized Immigrants with Health Insurance by County, CA

1,000,000 (42%)

Passel Estimates

1,200,000 (50%)

Marcelli Estimates



V. Next steps and discussion

- Use dissimilarity indexes
- Compare individual-level legal status assignments
- What components of the two methods explain observed differences?
- From which (if any) immigrant populations do we need sample survey-based legal status data?