

Do Immigration Raids Deter Head Start Enrollment?

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Motivation: Varying Raid Intensity

Immigration Customs and Enforcement (ICE) over time:

- ▶ 2003: ICE adopts National Fugitive Operations Program
- ▶ 2006: ICE adopts new Interior Enforcement Strategy
- ▶ 2009: Focus switches to “criminals”
- ▶ 2017: Raids strategy broadly expanded

Motivation: Head Start

Importance of Head Start for Hispanic children

- ▶ Largest early childhood education (ECE) program
- ▶ Lower than expected enrollment
- ▶ Strong benefits for English learners

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- ▶ 85% of mixed-status families are Hispanic
- ▶ 25% of Hispanic children in mixed-status family

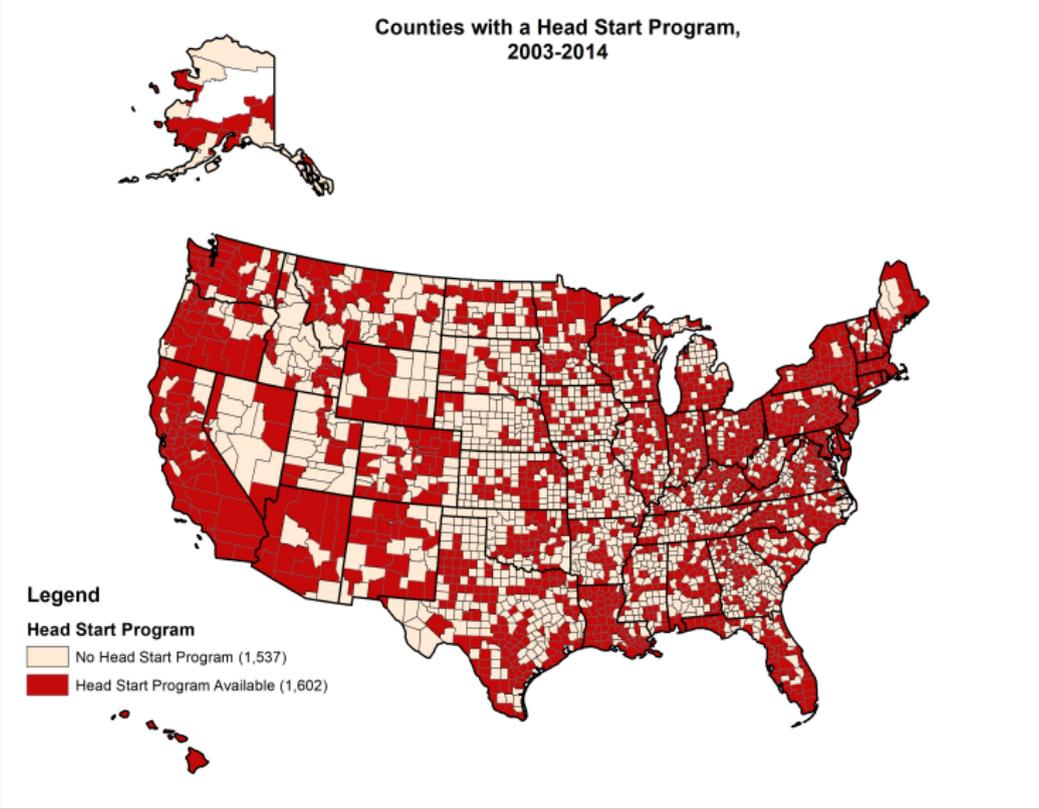
Contributions

1. First large-scale evidence on impact of raids (not place based)
2. Raids ↓ Hispanic Head Start enrollment over 10%
3. Strategy to disentangle mobility from deterrence
4. Decreased enrollment driven by deterrence ($\sim 2/3$)

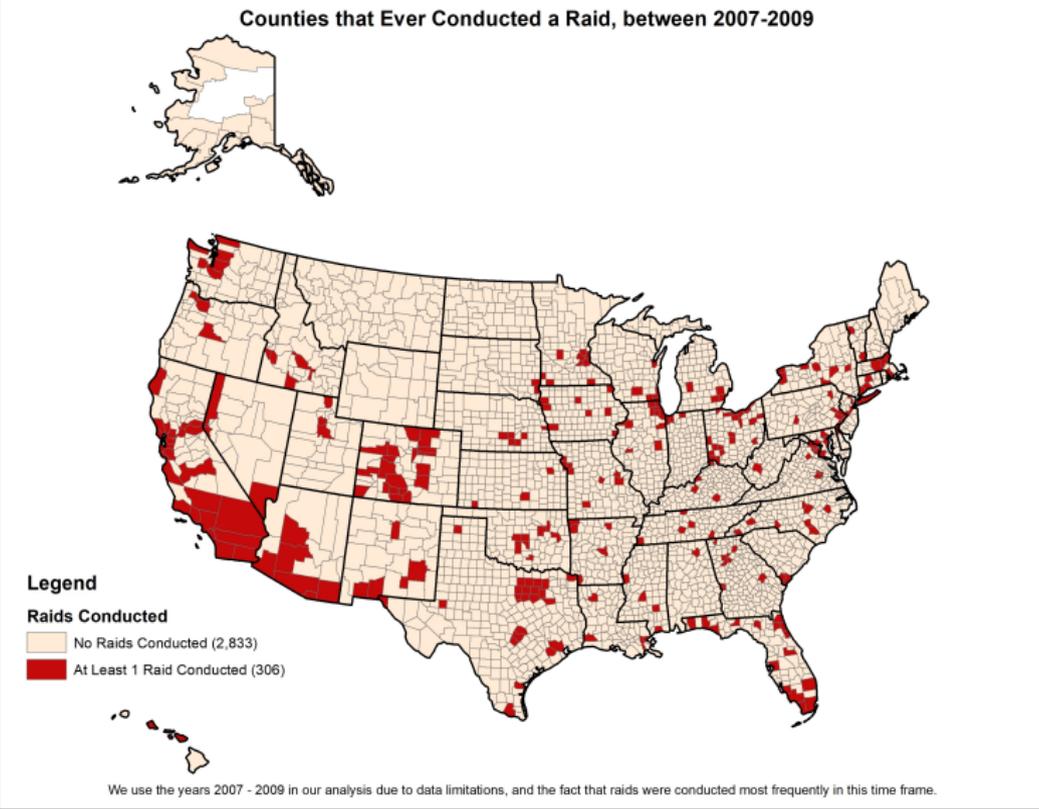
Data Sources

- ▶ Raids by county: (2006-2008)
 - ▶ Centro Latino
 - ▶ Detention Watch Network
 - ▶ Catholic Legal Immigration Network
- ▶ Enrollment for 6 years: 2003-04 to 2008-09
 - ▶ Head Start
 - ▶ Grade 1
- ▶ 1990 and 2000 Decennial Census

Map: Head Start Counties



Map: Immigration Raids



Head Start Counties

Table 1: County characteristics: Full/unbalanced sample

	Raided	Never-raided
Panel A: Pre-raid 3-year average (2003-2005)		
Head Start: Hispanics	806	106 ^{†††}
Grade 01: Hispanics	2,593	212 ^{†††}
Panel B: County demographics		
2000 Population (1,000s)	632	115 ^{†††}
Hispanics in 1990 (%)	9.4	5.3 ^{†††}
Counties	207	699

Identification Strategy

- ▶ Triple-difference: Stacked difference-in-difference
 - ▶ Head Start: Voluntary (out-migration and deterrence)
 - ▶ Grade 1: Compulsory (out-migration)
- ▶ Flexible county-level matching \implies pre-raid balance
- ▶ Robustness checks:
 - ▶ Analysis sample selection
 - ▶ Exclude 287(g)

Identification Strategy: DD and DDD

For now, assume parallel trend assumption holds:

$$\ln(y_{ct}) = \alpha_c + \beta \times \text{PostRaid}_{ct} + \pi_t + \varepsilon_{ct} \quad (1)$$

- ▶ Fully interact by grade and stack models
- ▶ β^{HS} : Head Start impact (mobility + deterrence)
- ▶ β^{G01} : Grade 1 impact (mobility)
- ▶ $\beta^{\text{DDD}} = \beta^{\text{HS}} - \beta^{\text{G01}}$ (deterrence)

Identification Strategy: Flexible matching

- ▶ Inspiration from synthetic control (Abadie et al., 2009)
 1. Create balanced panels (174 raided, 418 donors)
 2. Focus on one raided county at a time
 3. Create distance to each donor and rank them
 - ▶ HS enrollment (RMSD)
 - ▶ G01 enrollment (RMSD)
 - ▶ Demographic differences (Mahalanobis)
- ▶ Result: 418 donor-county distances for each raided county

Analysis Samples

- ▶ **Exclude** raided counties with “worst” matches
 1. Los Angeles, CA
 2. Cook County, IL (Chicago)
 3. Harris County, TX (Houston)
 4. Maricopa County, AZ (Phoenix)
 5. Orange County, CA
- ▶ **Match** multiple donors based on distance
 - ▶ Match with replacement
 - ▶ Comparison weights normalized: average weight = 1

Unbalanced panel

Table 2: County characteristics: Full sample

	Raided	Never-raided
Panel A: Pre-raid 3-year average (2003-2005)		
Head Start: Hispanics	806	106 ^{†††}
Grade 01: Hispanics	2,593	212 ^{†††}
Panel B: County demographics		
2000 Population (1,000s)	632	115 ^{†††}
Hispanics in 1990 (%)	9.4	5.3 ^{†††}
Counties	207	699

Matched Counties

Table 3: County characteristics: Exclude 0, Match 1

	Raided	Never-raided
Panel A: Pre-raid 3-year average (2003-2005)		
Head Start: Hispanics	920	581
Grade 01: Hispanics	2,976	1,781
Panel B: County demographics		
2000 Population (1,000s)	680	559
Hispanics in 1990 (%)	10.0	6.4 ^{††}
Counties	174	91

Matched Counties

Table 4: County characteristics: Exclude 5, Match 3

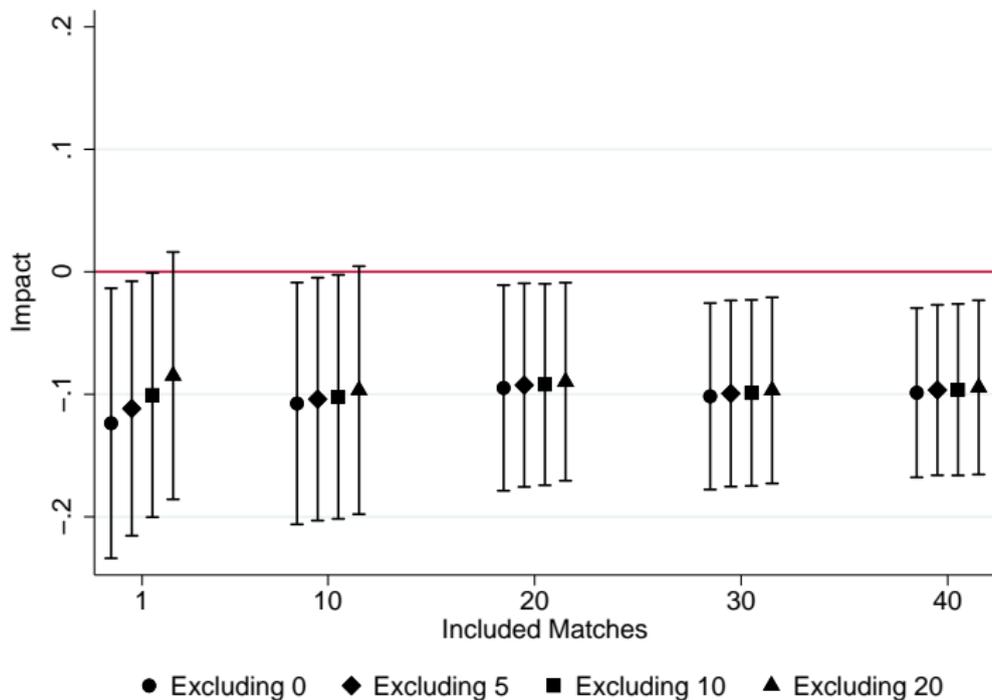
	Raided	Never-raided
Panel A: Pre-raid 3-year average (2003-2005)		
Head Start: Hispanics	644	555
Grade 01: Hispanics	2,006	1,450
Panel B: County demographics		
2000 Population (1,000s)	557	505
Hispanics in 1990 (%)	9.6	6.7 ^{††}
Counties	169	178

Impacts: Hispanics

Table 5: Impacts of raids on ln(Hispanic enrollment)

	Head Start	Grade 1	
	DD	DD	DDD
	mobility +		
	deterrence	mobility	deterrence
Exclude 0, Match 1	-0.124***	-0.037	-0.086
Exclude 5, Match 3	-0.127***	-0.033*	-0.094**

Head Start impacts robust to sample selection



Impacts robust to excluding 287(g)

Table 6: Impacts of raids on $\ln(\text{Hispanic enrollment})$, excluding 287(g)

	Head Start	Grade 1	
	DD	DD	DDD
	mobility +		
	deterrence	mobility	deterrence
Exclude 0, Match 1	-0.086*	-0.044**	-0.042
Exclude 5, Match 3	-0.122**	-0.037*	-0.086*

Conclusion

- ▶ We find robust evidence: Raids cause Hispanic Head Start enrollment ↓ over 10%
- ▶ Suggestive evidence this is driven by deterrence effect: unlike 287(g), raids aren't place based
- ▶ Builds on research (health access) that expanded interior enforcement harms a vulnerable population

Extensions

- ▶ Spanish speakers
- ▶ White children
 - ▶ Co-locate with Hispanic children
 - ▶ Administrative change to Hispanic and Race in 2005
- ▶ “New Destinations” and other heterogeneous impacts
- ▶ Raid intensity/patterns

Impacts: White children

Table 7: Impacts of raids on $\ln(\text{white enrollment})$

	Head Start	Grade 1	
	DD	DD	DDD
	mobility +		
	substitution	mobility	substitution
Unbalanced panel:	0.172***	-0.001	0.172***
Exclude 0, Match 1	-0.071	0.025	-0.096
Exclude 5, Match 3	-0.010	0.018*	-0.028