# Impact of Partition-induced Displacement on the Literacy Rates

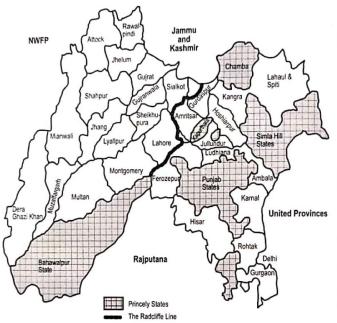
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#### Introduction

- Partition of India- One of the largest and most rapid involuntary migrations in history
- About 16.7 million people were forced to move out within a period of four years after the Partition.
- This paper will focus on the movement along the Western frontier that has been characterised as an exchange of population instead of a uni-directional flow of people.

Map 1: Map of Punjab in 1947



## This paper

- Aim- Examine the short-term (1961-71) and long-term (1991-2011) effects of the influx of literate refugees on literacy rates in the receiving regions.
- Bharadwaj et al. (2009) highlighted that refugees, especially those from West Punjab, tended to have higher literacy levels compared to the native population in East Punjab
- Were refugees more literate than natives? Graph

#### Literature Review

- Bharadwaj et al.(2008) analyzed the size and nature of migratory flows due to Partition. 3 effects namely Distance effect,
   Replacement effect and Large cities effect determined the Partition flows.
- Bharadwaj et al.(2009) showed that a one standard deviation increase in inflows during Partition raised literacy rate by approximately one percentage point in India.
- Bharadwaj & Mirza (2019) found a moderate but significant positive effect of Partition on agricultural development. Another study found a positive impact of partition migrants on India's jute industry (Bharadwaj, P., & Fenske, J 2012)
- Bhattacharya & Mukhopadhyay (2023) examined the impact of Partition flows on social capital and found that social capital is lower in districts that received more Partition migrants.

#### Motivation and contribution

- United Nations estimates that more than 120 million people worldwide had been forcibly displaced due to wars, conflicts, and natural disasters (UNHCR, 2024)
- Role of skilled migrants in shaping the development trajectory of host regions.
- Persistence of historical shock
- Novel dataset- Constructed a village-level panel dataset from 1951-2011 (except 1981)

#### Data

- Census, 1951 defined displaced persons as "Any person who has entered India having left or been compelled to leave his home in Western Pakistan on or after the 1st March. 1947 or his home in Eastern Pakistan on or after the 15th October, 1946, on account of civil disturbances or the fear of such disturbances or on account of the setting up of the two Dominions of India and Pakistan."
- Data source: District Census Handbooks (1951 onwards)

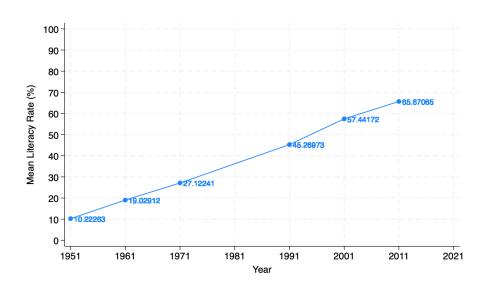
• The study is at the village-level (rural tracts), hence data was digitised and then villages were mapped across years.

Name 1951	Area 1951	Name 1961	Area 1961
Alwan Vasih 28	1.698	Awan Basau 28	1.7
Bhrio Wal Kukeza 165	1.503	Bhilowal 165	1.5
Patti 170	8.975	Patti 171	8.98

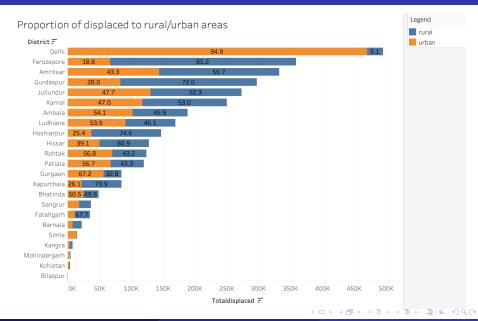
## **Descriptive Statistics**

Variables	Obs.	Mean	Std. Dev.
Literacy Rate			
1951	9593	10.223	8.504
1961	9593	19.029	9.294
1971	8634	27.122	10.78
1991	9563	45.27	11.707
2001	9407	57.442	10.394
2011	9419	65.671	8.507
Total population (1951)	9593	790.576	772.448
Total displaced	9593	102.76	216.496
Male displaced	9593	55.064	114.225
Female displaced	9593	47.696	102.738
Proportion of displaced	9593	0.177	0.252
Proportion of male displaced	9593	0.178	0.253
Proportion of female displaced	9593	0.176	0.254

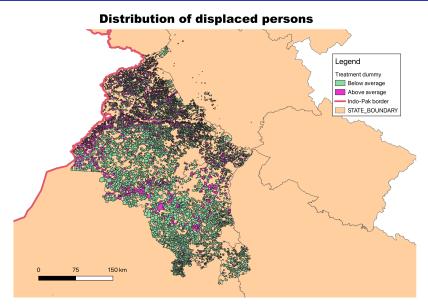
## Mean Literacy Rates (1951-2011)



#### Distribution of displaced persons



#### Distribution of displaced persons



#### Threats to identification

- Selection at destination: In rural areas of Punjab, the migration patterns were primarily dictated by the government's land allocation policies, which depended on the availability of evacuee land. For eg: Refugees from Lahore district were allocated to Amritsar & Ferozepore district, Gujrat & Jhelum to Ambala (Resettlement Manual) Allocation Rule Graph
- Endogeneity: It is possible that some unobserved variable such as proportion of Muslims in a village before Partition influenced the number of displaced persons as well as literacy rates.
   Used Instrumental Variable framework to deal with potential endogeneity.

## Empirical Strategy-Instrumental Variable Estimation

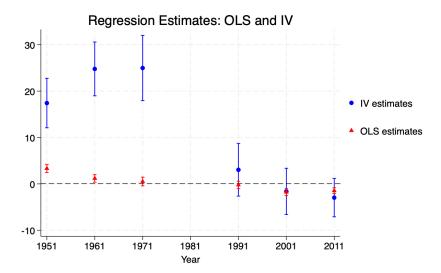
- Instrument: Shortest distance from the centre of village i to the Indo-Pak border (Bharadwaj et al., 2008; Bharadwaj, P., & Fenske, J, 2012)
- Baseline specification:

$$Lit_{ist} = \alpha + \beta D_{is,1951} + \gamma D_{is,1951} * Year_t + \delta_t + \phi_s + \lambda_{st} + \varepsilon_{ist}$$
 (1)

- $t = \{1951,1961,1971,1991,2001,2011\}$
- $D_{is,1951}$  is defined as the number of displaced individuals in village i sub-district s divided by the total population in village i in 1951.
- Standard errors are clustered at village level.

#### Results

VARIABLES	Literacy Rates (1951-2011)		
	OLS	IV	
	(1)	(2)	
Displaced#1951	3.327***	17.421***	
	(0.439)	(2.720)	
Displaced#1961	1.182***	24.779***	
	(0.415)	(2.959)	
Displaced#1971	0.521	24.974***	
	(0.479)	(3.583)	
Displaced#1991	-0.224	3.038	
	(0.409)	(2.892)	
Displaced#2001	-1.775***	-1.615	
	(0.380)	(2.545)	
Displaced#2011	-1.465***	-2.962	
	(0.315)	(2.110)	
Observations	54,848	53,844	
R-squared	0.937	0.926	
Number of clusters	9,593	9,368	
Year FE	YES	YES	
Tehsil FE			
District FE	YES	YES	
Tehsil-Year FE			
District-Year FE	YES	YES	
SE clustered at village level	YES	YES	



#### Possible Mechanisms

- Lack of trust among natives and refugees
  - Individuals residing in districts that experienced more Partition displaced migration exhibit lower levels of social capital today. (Bhattacharya & Mukhopadhyay, 2023)
  - The relocatees disliked the label *saranarthi* (asking for refuge), a term commonly used by the natives, and called themselves *pursharthi* (one who believes in self help). (Saksena, 1961)
  - > Rehabilitation of refugees has incurred local economic rivalry: Agree 75.8%; Disagree 5.6%
- Remigration of displaced persons They might have moved to other places following the disturbances in the 1980s. Graph

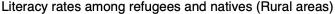
#### Conclusion

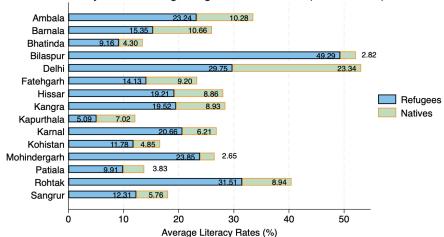
- Areas experiencing a high influx of refugees may have benefited from refugee spillovers in the short run (1961). However, in the long run, these regions did not sustain the same positive outcomes.
- Way forward
  - Include 1981 data enabling us to observe the transition of effects over time and identify potential inflection points.
  - A field experiment to explore the channel of trust and social cohesion

Thank you!

## Comparison of literacy rates of natives and refugees







## Sample page



#### PRIMARY CENSUS ABSTRACT

Hissar Tahsil Rural Tract (Circle Hissar)

			Occupied Houses			•		,		A	gricultur	al Classe	e
8. Nc.	Town/Ward vill	Area of village or town in acres	No. of		Total number of persons enumerated (including immates of institutions & houseless persons			Literates .		I. Cultivators of land wholly or mainly owned and their de- pendants		II. Cultivators of land wholly or mainly un- owned & their dependants	
					P	М	F	м	F	M	F	М	F
1	2	3	4	.5	6	7	8	9	10	11	12	13	. 14
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Talwandi Badshahpur 1 Talwandi Bokka 2 Saharwa 3 Dobeta 4 Bure 5 Badun-Brahmanan 6 Badun-Brahmanan 6 Badun-Brahmanan 19 Harita 9 Daha 10 Chandnaud 11 Fahai 12 Chirnoud 14 Kaduwa 15 Chirnoud 14 Kaduwa 15 Chirnoud 15 Chirnoud 16 Guzar 61 Boj Raj 62	4382 5563 2738 1739 1835 3053 517 1317 3101 1107 1475 5257 3018 3596 1413 2410 1753 659	220 180 230 36 151 117 73 21 137 57 57 181 133 150 77 71 152 86	229 184 253 38 151 117 75 23 138 138 58 57 189 131 153 81 153 81 153 81 47	1137 1021 1312 215 885 604 453 170 761 752 316 307 960 715 852 406 793 793 480 231 532	619 484 719 109 472 285 231 407 406 175 505 538 421 197 243 118 290	518 537 593 106 413 319 222 82 354 346 132 455 332 431 209 393 237	35 135 159 8 151 84 28 5 49 26 30 32 69 98 54 2	43 7 4 3 5 44 2 6 5	431 260 650 102 14 279 122 88 386 323 101 65 167 332 381 131 313 199 75	356 279 542 9 309 103 82 329 277 89 50 135 292 393 127 301 191 72 166	138 117 62 4 436  95  32 47 101 307 13 22 46 14 26 38	117 118 51 9 386 1 106 38 47 80 297 13 18 49 40 14 22 21

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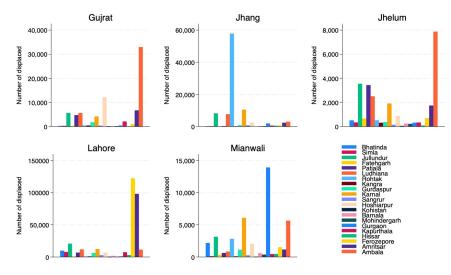


District/Tabsil of origin or description	Allocation for new allotments				
Montgomery district: Non-colonists and West Punjab colonists.	Muktsar and Fazilka tahsils of Ferozepore district.				
Multan district: Tahsil Multan Tahsils Khanewal and Kabirwala Tahsil Mailsi and Vihari Tahsil Ladhran Tahsil Shujabad	Hissar district. Hissar tahsil. Tahsil Hansi, overflow to Tahsil Hissar. Tahsil Fatehabad. Tahsil Bhiwani and Loharu area. Karnal district.				
Jhang district ; all tabsils	Tahsils Rohtak and Gohana of Rohtak district.				
Muzaffargarh district : Tahsil Muzaffargarh Tahsil Alipur	Tahsil Gurgaon of Gurgaon district. Tahsil Sonepat of Rohtak district. Tahsil Jhajjar of Rohtak district.				
Dera Ghazi Khan district	Tahsils Palwal, Ballabgarh and Ferozepore Jhirka of Gurgaon district.				
Mianwali district	Tahsils Rewari and Nuh of Gurgaon district and Bawal district of Nabha State.				
Rawalpindi, Jhelum and Gujrat	Ambala district.				
Attock and Shahpur districts	Ludhiana district.				



## Distribution of displaced persons by district of origin





### First stage regression



Dependent variable:	Proportion of Displaced
Distance to border	-8.24e-07***
	(8.86e-09)
Year FE	YES
Tehsil-Year FE	YES
Observations	56,208
Number of groups	9368

Table: First stage regression

## Population growth (1951-2011)



