

## Mistranslating refuge crops: analyzing policy mobilities in the context of Indian Bt cotton production

Katharina Najork, Markus Keck

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*Supplement of*

## **Mistranslating refuge crops: analyzing policy mobilities in the context of Indian Bt cotton production**

**Katharina Najork and Markus Keck**

*Correspondence to:* Katharina Najork ([katharina.najork@uni-goettingen.de](mailto:katharina.najork@uni-goettingen.de))

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## Supplementary Information

Our data results from a representative survey (n=457) which we conducted in August and September 2019 in Telangana's three highest ranking districts regarding the criteria 'total cotton area', 'area under cotton to total area sown', and 'out-turn' (Government of Telangana 2017, p. 118-120)<sup>1</sup>. We then selected those three mandals<sup>2</sup> per district featuring the highest percentage of area under cotton to the total area sown (Agricultural Office Adilabad 2014; Agricultural Office Nalgonda 2015; Agricultural Office Warangal 2014). We then randomly selected five villages per district within the determined mandals in the range of 1,000 to 6,000 inhabitants and calculated representative sample sizes for each village according to its Indian Census Data's population size (Government of India 2011). Households were found via random walks and interviewed by six Telugu speaking surveyors. Of the 457 interviewed HHs, 446 were led by a male and 11 by a female. The interviewed 457 HHs had an average size of 4.3 people.

We provide the results of univariate and bivariate statistic analyses, examined by means of  $\chi^2$ -tests and quantified by Cramer's V ( $\phi$ ) ( $p \leq \alpha \leq 0.05$ ) correlation coefficients (De Lange and Nipper 2018). We further conducted a two-step cluster analysis as this allows the simultaneous inclusion of variables of different scale levels (Fromm 2012; Lange & Nipper 2018).

*Table S1: Sample Composition*

District	Mandal	Village	Population	No. HHs		n
Adilabad	Wankdi	1	1009	223	10	
Adilabad	Wankdi	2	1854	405	18	
Adilabad	Kagaznagar	3	2665	687	31	
Adilabad	Kagaznagar	4	2304	575	26	
Adilabad	Bhimini	5	1292	344	16	
Warangal	Parkal	6	3261	853	38	
Warangal	Duggondi	7	3729	1026	46	
Warangal	Duggondi	8	2761	743	33	
Warangal	Duggondi	9	2723	730	33	
Warangal	Duggondi	10	3305	953	43	
Nalgonda	Chandur	11	2907	759	34	
Nalgonda	Chandur	12	2147	501	23	
Nalgonda	Devarakonda	13	2796	665	30	

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<sup>1</sup> Since no other data was available at the time of our survey, all data used in the sampling procedure refer to the erstwhile districts and village structures of Telangana before they were restructured in 2016.

<sup>2</sup> A Mandal is the administrative division subordinate to a district.

Nalgonda	Narayanapu	14	5663	1415	63
Nalgonda	Narayanapur	15	1173	288	13

### Qualitative data:

Table S2: List of qualitative interviews

No*	Name	Expertise	Landholding size	Date
V01-I01	<b>Mari Jagan</b> (m)	Peasant	11 acres owned: paddy, cotton, chili	10.09.18
V01-I02	<b>Mahendra</b> (m)	Peasant	7.5 acres owned: paddy, cotton	11.09.18
V01-I03	<b>Mamatha</b> (f)	Peasant	7.5 acres owned: paddy, cotton	11.09.18
V01-I04	<b>Karmagala Lakshmi</b> (m)	Peasant	11 acres owned: paddy, cotton, turmeric	11.09.18
V01-I05	<b>Parameshwari</b> (f)	Peasant	11 acres owned: paddy, cotton, turmeric	11.09.18
V01-I06	<b>Mari Jagan</b> (m)	Peasant	11 acres owned: paddy, cotton, chili	11.09.18
V01-I07	<b>Lavanya</b> (f)	Peasant	11 acres owned: cotton, maize, turmeric	11.09.18
T01-I01	<b>Satish</b> (m)	KVK representative		12.09.18
T01-I02	<b>Mukka</b> (m)	Cotton mill owner		12.09.18
V01-I08	<b>J. Mala</b> (m)	Peasant	No owned land, hired laborers	12.09.18
V01-I09	<b>Gujala</b> (f)	Peasant	No owned land, hired laborers	12.09.18
V01-I10	<b>Pulajillala</b> (f)	Peasant	No owned land, hired laborers	12.09.18
T01-I03	<b>Krishnamurthy Ch.</b> (m)	Inputs shop owner		13.09.18
V01-I11	<b>Jelander</b> (m)	Peasant	1 acre owned: cotton, paddy	13.09.18
V01-I12	<b>Rama</b> (f)	Peasant	50 guntas owned: cotton, paddy	13.09.18
T01-I04	<b>Tirupaddy</b> (m)	Commission agent		14.09.18
V02-I01	<b>P. Ravindar</b> (m)	Peasant	6.5 acres owned: cotton, paddy, on lease	17.09.18
V02-I02	<b>Ram</b> (m)	Peasant	3 acres owned: cotton, paddy	18.09.18
V02-I03	<b>Lakshmi Srinivas</b> (m)	Sarpanch		18.09.18
V02-I04	<b>Mugula</b> (m)	Peasant	8 acres: 4 acres owned, 4 acres leased: paddy, cotton	18.09.18
V02-I05	<b>Thirupati</b> (m)	Peasant	6 acres owned: cotton, paddy	18.09.18
V02-I06	<b>Damodar</b> (m)	Peasant	1.5 acres owned: cotton	18.09.18
V02-I07	<b>Mahindar</b> (m)	Peasant	4 acres owned: turmeric, chili, paddy, cotton	18.09.18
V02-I08	<b>Tirupati G.</b> (m)	Peasant	5 acres: 2 acres owned, 3 acres leased: cotton, paddy	18.09.18
V02-I09	<b>Parusharam</b> (m)	Model farmer	10 acres: 5 acres owned, 5 acres leased: cotton, paddy	19.09.18
V02-I10	<b>Md. Rahimodhin</b> (m)	Peasant	4.5 acres: cotton, paddy	19.09.18
V02-I11	<b>Kasturi</b> (m)	Peasant	8 acres: 6 acres owned, 2 acres leased: cotton, paddy	19.09.18
V02-I12	<b>N. Venkateshwarlu</b> (m)	Peasant	24 acres owned: cotton, paddy, on lease	19.09.18
V02-I13	<b>Mohamad</b> (m), <b>Jarina</b> (f)	Peasants	2 acres owned: cotton, paddy	19.09.18

V02-I14	<b>Sanjeev (m)</b>	Peasant	1 acre owned: cotton	19.09.18
T02-I01	<b>Vijay Reddy (m)</b>	Inputs shop owner		23.09.18
V03-I01	<b>N. Raju (m)</b>	Peasant	15 acres: 5 acres owned, 10 acres leased: cotton, maize	24.09.18
V03-I02	<b>Kalakonda Narasimha (m)</b>	Peasant	20 acres owned: cotton, maize, paddy	24.09.18
V03-I03	<b>C.H. Narayana (m)</b>	Peasant	5 acres: 4 acres owned, 1 acre leased: cotton	24.09.18
V03-I04	<b>Ramana (m)</b>	Peasant		24.09.18
V03-I05	<b>Karra Srinivas (m)</b>	Peasant	16 acres: 1 acre owned, 15 acres leased: cotton, maize, paddy	24.09.18
V03-I06	<b>Chiluka (m)</b>	Peasant	8 acres: 6 acres owned, 2 acres leased: cotton, paddy	24.09.18
V03-I07	<b>Naran (m)</b>	Peasant	10.5 acres: 1.5 acres owned, 9 acres leased: cotton, maize	24.09.18
V03-I08	<b>Mandhala Linga (m)</b>	Peasant	18 acres owned: cotton, paddy	24.09.18
V03-I09	<b>Raj (m)</b>	Peasant	9 acres: 6 acres owned, 3 acres leased: cotton, paddy	25.09.18
V03-I10	<b>Janardan (m)</b>	Peasant	6 acres owned: cotton, paddy	25.09.18
T03-I01	<b>Tharun (m)</b>	Seed production enterprise		26.09.18

\* “V”stands for village; “T” stands for town; “I” stands for interview partner