Online Appendix

Forced Migration and Human Capital Accumulation: **Evidence from Post-WWII Population Transfers**

Sascha O. Becker Irena Grosfeld Pauline Grosjean University of Warwick Paris School of Economics UNSW

Nico Voigtländer UCLA Ekaterina Zhuravskaya Paris School of Economics

Background Ι

I.A Forced Kresy Migrants just before Leaving Kresy and Upon Arrival to WT

Figures A.1 and A.2 presented below exhibit images of forced Kresy migrants right before leaving Kresy and right after arriving to the Western Territories. The online exhibition of the Polish History Museum devoted to forced migrants provides the following testimony as a caption to the image in the first figure: "And so it happened that ... the marshall came: 'Leave' - 'But where should I go?'— 'To Poland.' And I say: 'I am in Poland.' And he says: 'This is not Poland anymore.' "1



Figure A.1: Forced Kresy Migrants before their Departure from Kresy, Hłyboka (Ukraine), 1946. Source: The collection of Polish History Museum.

¹Edward Jaremko (cited by S. Ciesielski, Exit. Kresy Wschodnie-Ziemie Zachodnie), online exhibit https://artsandculture.google.com/exhibit/mwLihxsZye49Lw?hl=pl (Accessed on May 17, 2018).



Figure A.2: Forced Migrants from Kresy with their Belongings Arriving to Bielawa, former Langenbielau (a locality in the Western Territories), 1946.

Source: Figure 29 in Zaremba (2012).

I.B Promotional Poster for Voluntary Migrants from Central Poland to the Western Territories

Figure A.3 displays a typical example of posters that were used by the authorities in Central Poland to entice voluntary migration to the Western Territories.



Figure A.3: Advertising to Attract Migrants from Central Poland to the Western Territories

Note: The poster's title reads "The land is waiting." The text below the picture reads: "The State Repatriation Office is assigning farms in Opole and Lower Silesia. The regional inspectorates [offices] will provide all necessary information."

I.C Location of the post-WWII Border between Poland and the Soviet Union

The Kresy border (i.e., the post-WWII Eastern border of Poland) was established roughly along the so-called Curzon line after many discussions between Stalin and the Allies. Named after British Foreign Secretary Lord Curzon, the Curzon line was proposed as the new border between Poland and the Soviet Union during the 1920 Polish-Soviet conflict, but at the time the actual border of inter-war Poland was drawn about 250km further East. At the end of World War II, the Curzon line gained renewed prominence. It is important to note that 7 different versions of the Curzon line were discussed. They coincided in the central third, where the border follows former administrative boundaries of the Russian Empire (see also Cienciala, Lebedeva, and Materski, 2008). Figure A.4 portrays the Congress of Poland in yellow, the rest of the Russian Empire in green, the Kresy border (final Curzon line) in black. We highlight the part of the Kresy border that coincided with the subnational administrative division within the Russian empire in the past. As can be seen from the map, only about one third of the Kresy border coincided with administrative divisions of the Russian Empire. In this area (and not anywhere else), the border is natural—it was drawn along the

Bug River. Apart from this partial coincidence, the Curzon line did not coincide with any former frontiers.

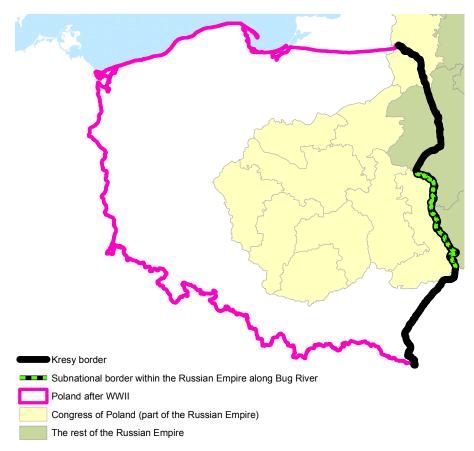


Figure A.4: Kresy border and former subnational administrative division of the Russian Empire

Note: Authors' own map overlaying modern-day Poland with the administrative boundaries of the Congress of Poland (yellow) and the rest of the Russian Empire.

As mentioned above, there were seven different versions of the new Eastern Polish border that were discussed during the Tehran Conference. See Figure A.5 presented below. In particular, the seven different versions coincide in the middle section just described. However, the different proposed frontiers differed from each other both to the North and to the South of this middle section (where there are no natural boundaries). In these two areas (contested during the Tehran conference), the actual Kresy border cuts through the regions of Bialostockie (in the North) and Lwowskie (in the South). In a robustness check reported below (see Appendix V.D) we focus on the contested areas in the northern and southern part of the different variants of the Curzon line.



Figure A.5: Different versions of Curzon line discussed at the Tehran Conference

Note: This map is shows different variants of the Curzon line and is reproduced here under Wikimedia Commons terms. Source: https://en.wikipedia.org/wiki/File:Linie_A-F_ang.png.

I.D The Timing of Mass Migrations from Kresy and Central Poland

Figure A.6 illustrates that forced migrants from Kresy and voluntary migrants from Central Poland arrived in the Western Territories (WT) at the same time. Panel A shows data on the stock of migrants who had arrived in WT by month, during the first two years of mass migration. The data start in December 1945 and show that by then, 1.5m migrants had moved into WT. That stock continued to grow steadily, reaching more than 4m migrants by the end of 1947. Panel B displays the share of Kresy migrants in that stock over time, separately for urban and rural destinations. Kresy migrants accounted for 40-50% of all migrants throughout this two-year window, in both urban and rural destinations. This suggests that Kresy migrants and 're-settlers' from CP (the official label used by the Polish authorities) arrived in parallel throughout the whole period. Thus, a potential concern that CP migrants moved into WT more quickly, generating a potential congestion effect for Kresy migrants, is not warranted.

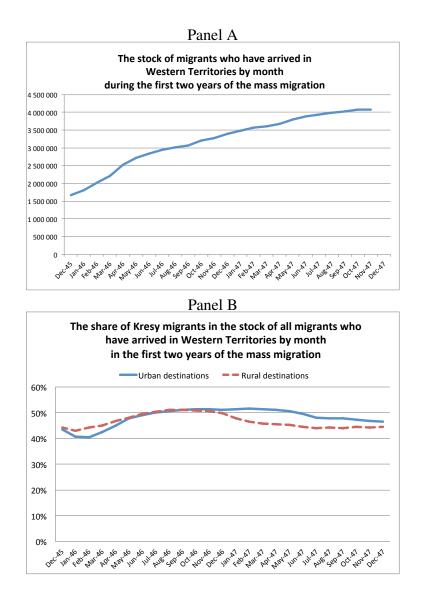


Figure A.6: The Timing of Arrival of Migrants to the Western Territories

Note: The registry of migrants accounts for re-settlers from Central Poland and forced migrants from Kresy. The data come from the Document of the Ministry of Recovered Territories, No. 1661 (The Central Archives of Modern Records in Warsaw).

I.E Places of origin of ancestors

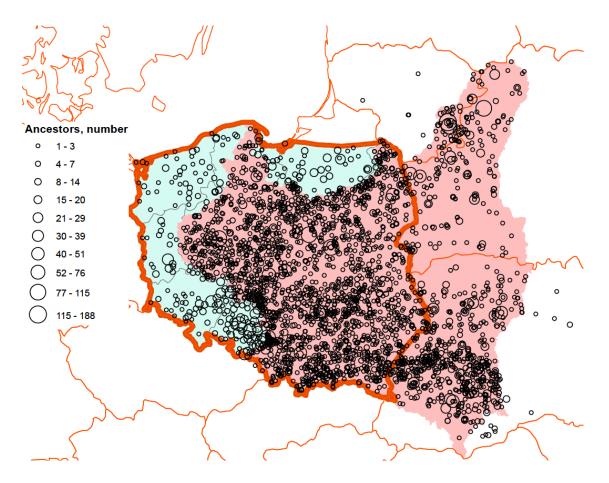


Figure A.7: Origin of Ancestors in our Ancestry Survey.

Note: The figure displays the origin of ancestors in our Ancestry Survey. The different dot sizes indicate the number of ancestors from each respective location. The different areas on the map are described in the note to Figure 1 in the paper: In the East, the former Eastern Polish territories (Kresy); in the West, the Western Territories, and in the center, Central Poland.

II Summary Statistics

Tables A.1 and A.2 present summary statistics for the main explanatory and dependent variables. Table A.1 below presents summary statistics for the variables we use to measure education in both surveys. Note that in our Ancestry Survey, there is no question on the years of education (see also footnote 22 in this appendix). We infer this information from the answer to the questions about educational degrees. We consider four categories: primary education, incomplete secondary education, completed secondary education, and higher education. Information necessary to construct these variables is present in both Diagnoza and our Ancestry Survey. We impute the years of education in the Ancestry Survey by using the average years of education for each of the four education categories in Diagnoza, rounded to the nearest integer. In Panel B, we use sample weights to account for the oversampling of individuals with Kresy ancestry in our Ancestry Survey (see footnote 14 in the paper for further discussion on sample weights).²

	Obs	Mean	Std. Dev.	Min	Max
		Pa	nel A: Diagn	oza	
Education years	28,341	11.910	3.256	0	28
Secondary education	28,343	0.495	0.500	0	1
Higher education	28,343	0.201	0.401	0	1
Panel B: Ancestry Sur	vey (West	ern Territ	tories): Respo	ondent leve	l
Education years	3,716	12.430	3.316	7	17
Secondary education	3,716	0.467	0.499	0	1
Higher education	3,716	0.221	0.415	0	1

Table A.1: Summary Statistics for Education Variables

Notes: The table shows summary statistics for education variables in Diagnoza 2015 and our Ancestry Survey 2016. Panel B uses weights to account for the oversampling of respondents with Kresy ancestry in our Ancestry Survey (see Section III.B. in the paper).

Table A.2 describes variables that capture the origin of ancestors in both surveys. In the Diagnoza Survey, 11.4% of respondents have at least one ancestor from Kresy (Panel A). Panels B and C show that in the Diagnoza Survey, the share of respondents with Kresy origin is higher in the Western Territories (27.3%) than in Central Poland (6.0%)—as one should expect, given that most forced migrants resettled in WT. In our Ancestry Survey (Panel D), which covers respondents in Western Territories, 30.8% of respondents have at least one ancestor from Kresy in the generation in their family with the youngest adults in 1939. The mean share of ancestors from Kresy is 23.6%. The share from the Western Territories is 18.7%, from Central Poland 57.7%, and from abroad 1.4%.³ The mean share of ancestors from rural areas is 75.7%. Finally, Panel E in Table A.2 summarizes data from our Ancestry Survey at the ancestor level. About 23% of the ancestors are from the parent generation, 54.7% from the grandparent generation, and 22.5% from the great-grandparent generation.

²The unweighted sample means are 12.7 years of education, 0.515 for secondary education, and 0.233 for higher education. These are somewhat higher than the representative (weighted) sample means because respondents with Kresy ancestors (who have higher education on average) are overrepresented.

³Panel D uses weights to account for the oversampling of respondents with Kresy ancestry in our Ancestry Survey (see Section III.B. and footnote 14 in the paper). The unweighted share of ancestors from Kresy is 36.7%.

	Obs	Mean	Std. Dev.	Min	Max		
Panel A: Diagnoza: All of Poland							
(Any) Ancestor from Kresy	28,379	0.114	0.317	0	1		
Panel B: Diagno	za: Weste	rn Terri	tories				
(Any) Ancestor from Kresy	7,128	0.273	0.446	0	1		
Panel C: Diag	10za: Cer	tral Pol	and				
(Any) Ancestor from Kresy	21,251	0.060	0.237	0	1		
Panel D: Ancestry Survey (We	stern Ter	ritories)	: Responder	ıt level			
(Any) Ancestor from Kresy	3,716	0.308	0.462	0	1		
Share of ancestors from Kresy	3,716	0.236	0.384	0	1		
Share of ancestors from CP	3,716	0.577	0.448	0	1		
Share of ancestors from WT	3,716	0.187	0.362	0	1		
Share of ancestors from abroad	3,712	0.014	0.084	0	1		
Share of ancestors from rural areas	3,671	0.754	0.376	0	1		
Panel E: Ancestry Survey (W	Vestern Te	rritories): Ancestor	level			
Ancestor from Kresy	11,928	0.324	0.468	0	1		
Ancestor from CP	11,928	0.516	0.500	0	1		
Ancestor from WT	11,928	0.160	0.367	0	1		
Ancestor from rural area	11,548	0.745	0.436	0	1		
Ancestor female	11,928	0.497	0.382	0	1		
Parent	11,928	0.229	0.420	0	1		
Grandparent	11,928	0.547	0.498	0	1		
Great-grandparent	11,928	0.225	0.417	0	1		

Table A.2: Summary Statistics for Variables Describing the Origin of Ancestors

Notes: The table shows summary statistics for ancestry variables in Diagnoza from 2015 and our Ancestry Survey from 2016. Panel D uses weights to account for the oversampling of respondents with Kresy ancestry in our Ancestry Survey (see Section III.B. in the paper). Ancestors from abroad in Panel D are those who lived outside of Poland in 1939 (in countries other than the USSR). In both surveys, we consider the samples of individuals with nonmissing information about Kresy origin. For Diagnoza, we further restrict the sample to respondents with nonmissing information about attainment, which is known for all respondents in the Ancestry Survey.

III Migration Flows Implied by Survey Data vs. Historical Census

III.A Diagnoza Survey vs. 1950 Census

While we have no way to confirm the accuracy of ancestors' location provided by *individual* respondents, we can benchmark the survey responses against the information on post-WWII migration given by the 1950 Polish census. The Diagnoza Survey and the 1950 Census cover all of the Polish post-WWII territory. The data in the 1950 Census is available at the regional level, providing information on where respondents lived in 1939 and in 1950. This allows us to construct migration flows. We begin with migrants from Kresy (i.e. migrants who indicated "USSR" as their place of residence in 1939). Figure A.8 compares the results of the Diagnoza survey with the 1950 Census. The left panel displays the share of people (in each region) in 1950 who had lived in Kresy in 1939, plotted against the share of respondents with ancestors from Kresy in the 2015 Diagnoza Survey. The historical and contemporaneous shares line up very well for most regions.⁴

For population in the Western Territories, the 1950 Census provides information at the more disaggregated level of counties. We can thus compute the share of Kresy migrants in each WT county in 1950. We use this information to repeat the consistency check on the Diagnoza data in the right panel of Figure A.8. The fit in this county-level exercise is bound to be less precise for two reasons. First, the post-1950 mobility across county boundaries is higher than across regional boundaries. Second, in the Diagnoza Survey, the number of respondents in some counties is quite small, so that measuring the share of respondents with Kresy origin becomes noisier. Despite these caveats, the right panel of Figure A.8 shows a tight relationship.

III.B Ancestry Survey vs. 1950 Census

Figure A.9 repeats the above exercise using our 2016 Ancestry Survey in combination with the 1950 Census. Recall that our Ancestry Survey was conducted only in the Western Territories. Correspondingly, we use the available county-level data from the 1950 Census for WT. Our Ancestry Survey asks about origin locations of all ancestors, including those ancestors who came to WT from CP (and not only from Kresy, as in Diagnoza). The 1950 Census, in turn, provides information on overall 16 origin areas (i.e., areas of residence in 1939). These include Kresy, the Western Territories, and 14 regions in CP. We thus compute, for each county in WT, the share of migrants from each of these 16 origin areas in 1950. We then map the origin location data from the Ancestry Survey to the same 16 origin areas. The left panel of Figure A.9 plots the county-level origin shares from the 1950 Census against those from our Ancestry Survey. The right panel restricts attention to migrants from Kresy, plotting the share of people of Kresy origin by county from our Ancestry Survey against the same share from the 1950 Census. Both panels show a strong positive relationship between the data in the two data sources, supporting the reliability of our Ancestry Survey. In sum, the benchmarking exercises make us confident that respondents in the Diagnoza Survey and in the Ancestry Survey gave reasonable answers to the questions about their ancestral places of origin.

⁴There are a few exceptions. For instance, Warszawa (Warsaw) is considerably below the regression line. This means that, while in 1950 few people of Kresy origin lived there because the majority moved straight to the Western Territories, in 2015 the share of Warsaw survey respondents with Kresy ancestors is considerably larger. This is likely driven by the capital city's attraction of educated people—among them the descendants of Kresy migrants.

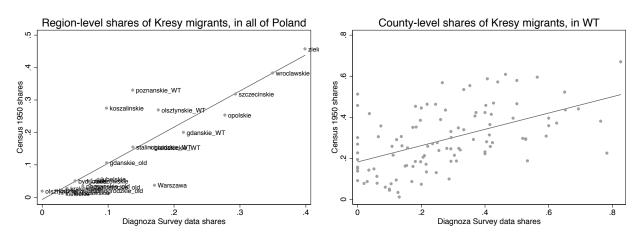


Figure A.8: Data Quality Check of Diagnoza Survey

Note: The left panel plots the regional share of migrants from Kresy territories in the 1950 Census (y-axis) against the Kresy migrant share from the 2015 Diagnoza data. The variation is at the regional level. Data are available for 24 regions, covering all of Poland (with separate observations for the parts of regions that were split by the border of the Western Territories). The regression coefficient is 1.00 with a standard error of 0.057 and R^2 of 0.73. The right panel of the figure plots the county-level share of migrants from Kresy territories in the 1950 Census (y-axis) against the Kresy migrant share from the 2015 Diagnoza data. These more detailed data are available for 107 counties in the Western Territories of Poland. The regression coefficient is 0.39 with a standard error of 0.071 and R^2 of 0.26.

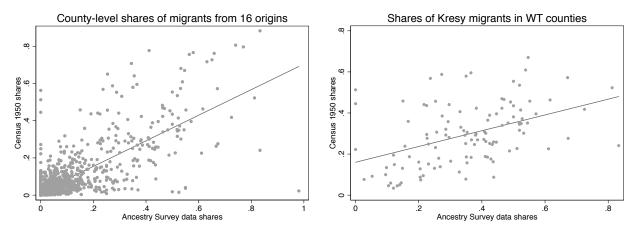


Figure A.9: Data Quality Check of our Ancestry Survey—WT Only

Note: The left panel plots the county-level share of migrants from 16 origin territories in the 1950 Census (y-axis) against the migrant share from the 2016 Ancestry Survey. The 16 origin territories include Kresy, WT, and 14 regions in CP. The regression coefficient is 0.69 with a standard error of 0.04 and R^2 of 0.59. The right panel repeats this exercise, but using only migrants from Kresy. The regression coefficient is 0.38 with a standard error of 0.09 and R^2 of 0.19.

IV Main Results: Additional Detail and Robustness

In this section, we present additional results, complementing those in Section IV. in the paper.

Appendix p.12

IV.A Additional Results from the Diagnoza Survey

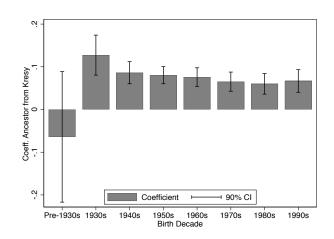
Figure 3 plots the coefficient on *Kresy* for different birth cohorts. We begin with the oldest cohort in the Diagnoza Survey—those born before 1930. The education level of Kresy respondents is *lower* than that of other Poles in this cohort, albeit this difference is not statistically significant. This echoes the 1921 census data shown in Figure 2 above. The pre-1930 cohort was 16 or older in 1945 and thus would already have finished their secondary education (if they had any). In addition, within this cohort, respondents with Kresy ancestors are likely to be Kresy migrants themselves. Thus, Kresy migrants did not have higher education at the time when they were displaced. Thus, neither pre-existing differences nor selection at the time of deportations drive our results. In contrast, already among the 1930 birth cohort (i.e., school-age children in 1945), respondents with Kresy origin have significantly higher level of education than other Poles.⁵ For later birth cohorts, the coefficient on Kresy declines somewhat but remains highly statistically significant. This makes sense in the context of our hypothesis that forced migration led to a shift in preferences towards education: The intergenerational transmission of preferences is not one-to-one, even when taking into account local peer effects and assortative mating of parents (c.f. Dohmen, Falk, Huffman, and Sunde, 2012).

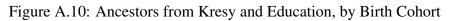
Table A.3 presents the regression results underlying Figure 3 in Panel A. Column 1 includes only individuals born before 1930— the oldest respondents in the Diagnoza Survey. For years of schooling in this cohort, we find a small negative (and insignificant) coefficient on Kresy ancestry. The same is true for higher education in Panel C. Panel B shows a very small and insignificant positive coefficient on Kresy ancestry for secondary education. Thus, in the cohort that was old enough to have finished secondary education, the proportion with a secondary degree is very similar for individuals expelled from Kresy and other Poles. This implies that our results are unlikely to be driven by pre-existing educational differences or by selection of educated migrants from Kresy.

Columns 2-8 in Table A.3 focus on younger cohorts, i.e., those that had not finished schooling by 1945 or had not even been born. The coefficient on Kresy ancestry is highly significant throughout and relatively stable, but somewhat larger for older cohorts. This, together with the fact that the mean of education is higher for younger cohorts, suggests that the *relative* effect of Kresy origin is stronger for older cohorts. This is confirmed by Figure A.10, which uses ln(years of education) as the dependent variable, so that coefficients reflect semi-elasticities that can be directly compared across cohorts (in contrast to the level coefficients shown in Figure 3 in the paper).⁶

⁵Historical accounts suggests that the supply of schools was well organized as early as 1946, even in the Western Territories. There was a great effort to ensure good educational opportunities (free and obligatory for the primary schools). The first schools in WT were established relying on the initiative of individual teachers. Very quickly, however, the communist authorities created special institutions to develop a unified educational system in WT and in CP (Online PWN Encyclopedia, accessed 28 March 2018).

⁶Note that column 8 in Table A.3 as well as the last bar in Figure A.10—for the 1990s birth cohort—exclude respondents who were still students.





Note: The figure complements Figure 3 in the paper, using ln(years of education) as the dependent variable, so that the resulting coefficients (semi-elasticities) can be directly compared across the different birth cohorts.

Dependen	Dependent variable: Individual-level education, as indicated in each panel								
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
Birth Decade:	pre-1930	1930s	1940s	1950s	1960s	1970s	1980s	1990s	
Age in 1945:	16+	6-15	<5	-	-	-	-	-	
Age in 2015:	86+	76-85	66-75	56-65	46-55	36-45	26-35	16-25	
	Par	nel A: Dep	o. Var.: Yea	ars of edu	cation				
Ancestor from Kresy	-0.607 (0.811)	1.334 (0.278)	0.927 (0.179)	0.947 (0.154)	1.017 (0.172)	0.890 (0.186)	0.855 (0.196)	0.772 (0.196)	
Mean Dep. Var.	7.61	9.44	10.50	11.57	12.27	13.07	13.95	12.61	
R-squared	0.67	0.44	0.30	0.23	0.23	0.29	0.27	0.37	
Observations	519	2,083	3,360	5,405	4,434	4,152	3,837	2,016	
	Panel B:	Dep. Var	: Seconda	ary educat	tion dumm	ıy			
Ancestor from Kresy	0.046 (0.092)	0.165 (0.035)	0.143 (0.028)	0.136 (0.024)	0.145 (0.027)	0.093 (0.026)	0.080 (0.024)	0.132 (0.041)	
Mean Dep. Var.	0.20	0.35	0.40	0.43	0.47	0.58	0.75	0.62	
R-squared	0.59	0.42	0.28	0.23	0.22	0.26	0.22	0.32	
Observations	523	2,085	3,361	5,402	4,435	4,150	3,840	2,018	
	Panel (C: Dep. Ve	ar.: Highe	r educatio	on dummy			I	
Ancestor from Kresy	-0.069 (0.075)	0.112 (0.032)	0.090 (0.025)	0.106 (0.022)	0.139 (0.025)	0.121 (0.028)	0.060 (0.031)	0.070 (0.036)	
Mean Dep. Var.	0.06	0.13	0.15	0.15	0.18	0.29	0.42	0.15	
R-squared	0.51	0.13	0.13	0.15	0.10	0.29	0.42	0.32	
Observations	523	2,085	3,361	5,402	4,435	4,150	3,840	2,018	
Respondent county FE	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
Controls [‡]	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	

Table A.3: Kresy Ancestors and Education—Across Cohorts

Dependent variable:	Individual-level education, as indicated in each panel

Notes: The table shows that the results from Table 2 hold across different age cohorts. Regressions are run at the respondent level using data from the 2015 Diagnoza Survey; standard errors are clustered at the household level. The 1990 cohort in column 8 excludes respondents who were still students at the time of the survey.

[‡] Controls include respondents' gender, age and age² interacted with birth-decade dummies, as well as indicators for rural places and urban counties.

In Table A.4, we verify that higher education of descendants of Kresy migrants translates into better labor market outcomes. Column 1 shows that respondents with ancestors from Kresy have about 10% higher household incomes. Column 2 suggests that the higher income is at least partially driven by higher education—once we control for education, the coefficient on Kresy becomes smaller and only remains marginally statistically significant. Columns 3-4 show that people with Kresy ancestors are more likely to have white collar occupations; at the same time, they are less likely to be unemployed (columns 5-6). These results remain statistically significant even after we control for education, but the coefficients on Kresy origin become smaller in magnitude.

Dep. var.: Individual labor market outcomes, as indicated in table header								
	(1)	(2)	(3)	(4)	(5)	(6)		
Dependent Variable:	ln(HH i	ncome)	White c	ollar job	Unem	ployed		
Ancestor from Kresy	0.119 (0.039)	0.068 (0.039)	0.102 (0.014)	0.036 (0.012)	-0.022 (0.007)	-0.015 (0.007)		
Years of education		0.059 (0.003)		0.074 (0.001)		-0.009 (0.001)		
Baseline controls [‡]	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
Respondent county FE	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
Mean Dep. Var. R-squared Observations	8.45 0.20 18,298	8.45 0.22 18,262	0.46 0.27 13,516	0.46 0.41 13,504	0.08 0.05 18,897	0.08 0.06 18,859		

 Table A.4: Labor Market Outcomes

Notes: The table shows that descendants of Kresy migrants have more favorable labor market outcomes. Regressions are run at the respondent level using data from the 2015 Diagnoza Survey; standard errors are clustered at the household level.

[‡] Baseline Controls include respondents' gender, age and age² interacted with birth-decade dummies, as well as indicators for rural places and urban counties.

IV.B Additional Results from the Ancestry Survey

Weighted Regressions

Table A.5 replicates Panel A of Table 3 from the paper, using respondent-level weights that account for the oversampling of respondents with Kresy ancestors (as described in Section III.B.). Both the coefficients and their precision are very similar to those in Table 3 (Panel A) in the paper.

Dependent variable: as indicated in table header								
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Dep. Var.:			Years of	education			Secondary	Higher
Notes on sample:					rural	urban		
Ancestor from Kresy	0.883 (0.118)	0.969 (0.106)						
Share of ancestors, Kresy			0.804 (0.137)	0.725 (0.144)	0.677 (0.242)	0.773 (0.168)	0.110 (0.021)	0.066 (0.017)
Share of ancestors, WT			-1.006 (0.189)	-0.993 (0.194)	-0.570 (0.319)	-1.274 (0.250)	-0.162 (0.031)	-0.130 (0.023)
Share of ancestors, abroad			-1.104 (0.825)	-0.600 (0.640)	-3.448 (1.545)	-0.227 (0.873)	-0.035 (0.108)	0.012 (0.094)
Share of ancestors, rural			-0.472 (0.160)	-0.545 (0.156)	-0.466 (0.359)	-0.506 (0.177)	-0.059 (0.024)	-0.035 (0.019)
Baseline controls [‡] Respondent county FE Respondent municipality FE		\checkmark	\checkmark	√ √	\checkmark	\checkmark	\checkmark	\checkmark
Mean Dep. Var. R ² Observations	12.43 0.02 3,716	12.43 0.29 3,716	12.45 0.30 3,668	12.45 0.39 3,668	11.40 0.33 1,110	12.96 0.28 2,558	0.47 0.21 3,668	0.22 0.22 3,668

Table A.5: Ancestry Survey Results (Respondent Level): Weighted

Notes: The table replicates Panel A of Table 3 in the paper, using weights that account for the oversampling of respondents with Kresy ancestors (as described in Section III.B.). Regressions are run at the respondent level; robust standard errors indicated in parenthesis. [‡] Controls include respondents' gender, age and age² interacted with birthdecade dummies, as well as indicators for respondents living in rural places and urban counties. Excluded category in columns (3) to (6) is the share of ancestors from CP.

(Potential) Effect of Kresy Ancestor Majority

In Table A.6, we ask whether the share of ancestors from Kresy matters above and beyond having any ancestor from Kresy. We include both the dummy for any ancestor from Kresy, together with an additional indicator variable that takes on value one if the majority of a respondent's ancestors (in the 1939 adult generation) are from Kresy.⁷ The results show that having a majority of ancestors from Kresy does not add an additional education premium to having 'any ancestor' from Kresy.

⁷We use an indicator for ancestor share from Kresy >50% (rather than the share itself) to allow for possible nonlinear effects in the share of Kresy ancestors.

This suggests that Kresy ancestry is very salient within families. For example, even one ancestor from Kresy may dominate family conversations about the importance of education.

Dependent variable: Years of Education								
(1) (2) (3)								
Ancestor from Kresy	1.068 (0.221)	0.957 (0.224)	1.021 (0.240)					
Share of Kresy ancestors $\geq 50\%$	-0.172 (0.225)	-0.057 (0.228)	-0.141 (0.246)					
Baseline controls [‡]	\checkmark	\checkmark	\checkmark					
Generation controls [‡] Respondent county FE Respondent municipality FE	\checkmark	\checkmark	\checkmark					
Mean Dep. Var. R ² Observations	12.70 0.27 3,716	12.70 0.27 3,716	12.70 0.35 3,716					

Table A.6: (Potential) Role of Majority of Kresy Ancestors: Ancestry Survey Results

Notes: The table uses data from our 2016 Ancestry Survey in the Western Territories, showing that having at least one ancestor from Kresy is important. Having 50% or more of ancestors from Kresy does not differentially affect respondents' education. Regressions are run at the respondent level; robust standard errors indicated in parenthesis. [‡] Controls include respondents' gender, age and age² interacted with birth-decade dummies, as well as indicators for respondents living in rural places and urban counties. Generation controls are indicator variables for whether respondent reports about self (very old respondents), or parental generation (reference category), grandparents' generation or great-grandparents' generation.

Results by Generation of Ancestors

Regressions at the ancestor level raise two potential concerns: first, the number of observations entering ancestor-level regressions vary across generations. Older respondents reporting about their parents contribute fewer ancestors to the ancestor-level regressions than younger respondents who report about up to eight great-grandparents, leading to potential (re-)weighting issues. At the same time, we saw in Table 2 that the Kresy education effect varies across cohorts. Both issues can be addressed at once by taking a generational perspective for ancestor-level regressions in Table A.7. Column 1 repeats our baseline specification for the Ancestry Survey—column 3 of Table 3 in the paper, across all generations combined. Column 2 restricts the sample to (older) respondents who report about Kresy origin of their parents (their location of residence in 1939). Column 3 uses only (middle-aged) respondents who report about Kresy origin of their grandparents. Column 4 restricts the sample to (young) respondents who report about Kresy origin of their great-grandparents. Effects are somewhat larger for the parent generation, i.e., where respondents were influenced by the experience of their own parents. This is consistent with the pattern in Table 3, where the Kresy ancestry effect was strongest for older cohorts who experienced expulsion first-hand or via their own parents.

Dependent variable: Years of Education							
	(1)	(2)	(3)	(4)			
Notes on sample:	All	Parent	Grandparent	Great-grandparent			
Share of ancestors, Kresy	0.917 (0.121)	1.058 (0.192)	0.772 (0.182)	0.792 (0.352)			
Baseline controls [‡] Respondent county FE	\checkmark	\checkmark	\checkmark	\checkmark			
Mean Dep. Var. R ²	12.70 0.26	11.79 0.30	13.02 0.24	14.10 0.47			
Observations	3,716	1,384	1,869	501			

Table A.7: Ancestry Survey Results (Respondent Level): By Generation of Ancestors
Description of the Very of Education

Notes: The table uses data from our 2016 Ancestry Survey in the Western Territories, showing that the share of ancestors from Kresy in a respondent's family tree is associated with higher levels of education. Results are strongest for (older) respondents whose parents were forced to migrate from Kresy. Regressions are run at the respondent level; robust standard errors indicated in parenthesis.

[‡] Baseline controls include respondents' gender, age and age² interacted with birth-decade dummies, as well as indicators for respondents living in rural places and urban counties.

IV.C Comparing Coefficients at the Respondent vs. Ancestor Level in the Ancestry Survey

In Section IV.B., we presented results of regressions estimated at both the respondent and at the ancestor level. In what follows, we discuss to what extent the coefficients from these two approaches are comparable. We begin by explaining an important difference intuitively, and then turn to Monte-Carlo simulations to derive more general statements.

To fix ideas, we begin by comparing the simplest respondent-level and ancestor-level regressions, both with a dummy for 'any ancestor from Kresy': column 2 in Table 3 and column 1 in Table 3. The coefficients are 0.91 and 0.64, respectively. We argue that at least part of this difference can be explained by a mixed composition of the 'control group' in the ancestor-level regressions: Suppose that in families with mixed ancestors (some from Kresy, some not), Kresy ancestors dominate discussions about education. This is supported by the evidence in Table A.6 above – suggesting that even one ancestor from Kresy is sufficient to lead to an extra year of schooling of descendants (i.e., respondents). Also, remember that education outcomes are only observed at the respondent level. Now suppose a respondent's mother is from Kresy while her father is from CP. Because one ancestor from Kresy is sufficient to create the full Kresy effect, the respondent will have an extra year of schooling. If we run an ancestor-level regression for this respondent, there will be two observations, one for her mother ('treated'—from Kresy), one for her father ('control'—not from Kresy). The outcome for both will be one extra year of schooling. This example illustrates that the 'control' group will be contaminated if the respondent's family also contains a 'treated' ancestor. An obvious remedy is to restrict the 'control' group to those cases where none of the ancestors of a respondent was from Kresy, that is, to exclude all mixed family cases from the control group. Fortunately, our data contains a large group of respondents without any ancestor from Kresy (1,997 respondents with 6,551 corresponding ancestors from CP and other non-Kresy regions). Table A.8 presents our results. When all ancestors are from Kresy,

the education effect is 0.85 more years of education—very similar to the results at the respondent level in Table 3. When we run regressions by generation of the respondents, they are strongest for the parent generation with a Kresy education effect of 1.08 additional years of schooling. For the grandparent and great-grandparent generation, the education coefficients are 0.69 and 0.82, respectively, again quite similar to those in respondent-level regressions.

Table A.8: Ancestry Survey Results: Control Group are Respondents with 'Uniform' Ancestry

Dependent variable: Years of Education							
	(1)	(2)	(3)	(4)			
Notes on sample:	All	Parent	Grandparent	Great-grandparent			
Ancestor from Kresy	0.845 (0.104)	1.083 (0.183)	0.694 (0.145)	0.823 (0.260)			
Baseline controls [‡] Respondent county FE	\checkmark	\checkmark	\checkmark	\checkmark			
Mean Dep. Var. R ²	12.87 0.27	11.72 0.29	12.98 0.22	13.93 0.49			
Observations	10,418	2,614	5,592	2,212			

Notes: The table uses data from our 2016 Ancestry Survey in the Western Territories, and restricts the sample to respondents where all ancestors or no ancestors at all are from Kresy. Results are strongest for (older) respondents whose parents were forced to migrate from Kresy. Regressions are run at the respondent level; robust standard errors indicated in parenthesis.

[‡] Baseline controls include respondents' gender, age and age² interacted with birth-decade dummies, as well as indicators for respondents living in rural places and urban counties.

Econometrically, the respondent-level and ancestor-level regressions are not equivalent. The following Monte Carlo simulations, while also comparing the point estimates, mainly serve to address what can be learned in terms of the level of significance of the respondent-level and ancestor-level regressions.

We will refer to the following two equations:

Respondent-level:
$$Y_i = \beta Kresy_i + \phi' \mathbf{X}_i + \eta_{Locality_{(i)}} + \varepsilon_i,$$
 (A.1)

Ancestor-level:
$$Y_i = \gamma Kresy_{a_{(i)}} + \psi' \mathbf{A}_{a(i)} + \phi' \mathbf{X}_i + \eta_{Locality_{(i)}} + \varepsilon_{a_{(i)}}$$
 (A.2)

Note that, in line with our specifications (1) and (2) in the paper, in the first equation above, $Kresy_i$ is respondent *i*'s *share* of ancestors from Kresy; and in the second equation, $Kresy_{a(i)}$ is a *dummy* that equals one if ancestor *a* of respondent *i* came from Kresy. In addition, we cluster the error term in the second equation at the respondent level.

The Monte Carlo Simulations yield the following results: as discussed before, the estimated parameters β and γ , in general, are not equal; yet, importantly, the statistical inference, i.e., the significance of these parameter estimates, is similar.

First, we find that the parameters β and γ are equal only in the case when dummies for Kresy origin of different ancestors of the same respondent are perfectly correlated for all respondents. Formally, this means that for each respondent *i*, the indicators for Kresy origin of all ancestors

of this respondent *i* in the generation of the youngest adults before the war are the same (i.e., $Kresy_{m_{(i)}} = Kresy_{f_{(i)}}$, where *m* and *f* are ancestors drawn at random from the full set of ancestors of respondent *i* in the considered generation, and this holds for all *i*).⁸ Put differently, ancestor-level regressions yield the same coefficient as respondent-level regressions if all ancestors of a given respondent are 'treated' (from Kresy) or 'control' (not from Kresy), as shown in Table A.8.

More generally, the parameter γ depends on the correlation between the indicators of Kresy origin of ancestors of the same respondent. The lower the correlation, the lower is γ (however, it is bounded below). If that correlation is zero, the parameter γ of the ancestor-level regressions is equal to the effect of the share of ancestors with Kresy origin of the respondent-level regressions (β) , divided by the average number of ancestors per respondent (N), i.e., $\gamma = \beta/N$. More formally, the condition for equality of γ and β is that indicator variables for Kresy origin of any ancestor $a_{(i)}$ are i.i.d.

The parameter γ is within the interval $[\beta/N; \beta]$ as long as the correlation between indicator variables of Kresy origin of different ancestors of the same respondent is nonnegative (i.e., if one ancestor drawn at random from the pool of all ancestors of all respondents has a Kresy origin, the other ancestor drawn at random from the set of ancestors of the same respondent is more likely to also be of Kresy origin than an ancestor drawn at random from the whole pool of all ancestors of all respondents).

In reality, the origins are positively correlated across ancestors of the same respondent, but this correlation is strictly below one, which means that we should expect smaller point estimates in the ancestor level regressions than in the respondent level regressions. In particular, the correlation between the dummies indicating the Kresy origin of spouses (e.g., of the mother and father or of the paternal grandmother and paternal grandfather of the same respondent) is over 90%. The correlation between dummies for Kresy origin of grandparents from the mother's and father's side, e.g., of the fathers of the parents of the respondent, is over 30%; and the correlation between the origins of the most distant ancestors, i.e. different great-grandparents, is 7%.

Second, the Monte Carlo simulations show that the level of statistical significance is similar between the respondent-level regressions and the ancestor-level regressions, when we cluster error terms at the respondent level. The level of significance is comparable irrespective of the level of correlation between the origins of different ancestors of the same respondent. Namely, when γ is below β , the standard errors are also proportionally smaller in the ancestor-level estimation, and therefore, statistical inference is similar.

Third, both of these facts are true not only for the estimation of the direct effects of Kresy ancestry (γ vs β), but also for the heterogeneity in the effects. In particular, when we consider an interaction term between the Kresy ancestor variables (share or dummy in the respondent-level and ancestor-level regression, respectively) and a characteristic of the place of origin of respondents ancestors (which is averaged across ancestors in the respondent-level regressions), we find that the statistical inference is similar in both cases. This is particularly important because in Section V.A. of the main text, we show that the interactions between the characteristics of the origin locations

⁸If the considered generation of ancestors is parents, m and f are simply mother and father; if grandparents, these are two grandparents randomly drawn from the pool of all grandparents of the respondent i, etc.

and the dummy for Kresy origin of the respondent's ancestor are statistically insignificant.

To sum up, our Monte Carlo simulations show that t-statistics for the coefficients in the ancestorlevel regressions and the corresponding t-statistics in the respondent-level regressions are very similar, suggesting that our statistical inference is correct.

IV.D Confirming the Main Results in LiTS

Below, we use the Life in Transition Survey (LiTS) 2016 to shed light on the role of war experience and risk aversion. We show that our main results also hold with LiTS data. An important drawback of LiTS, and the reason why we do not use it in the main text, is its relatively small sample size compared to Diagnoza and our Ancestry Survey. The LiTS sample, although nationally representative, includes fewer than 1,500 respondents in Poland (as opposed to 30,000 respondents in Diagnoza and more than 4,000 in the Western Territories alone in our Ancestry Survey). The LiTS survey also asks about the country and region of origin of the respondents' maternal and paternal families in 1939, and whether they came from a rural or urban area.⁹ Of the 1,418 self-identified ethnic Poles among the 1,500 people sampled in Poland, 1,412 remembered the precise location of both their father's and mother's family in 1939. This allows us to create a dummy variable for Kresy ancestry of respondents, in the same way as in the Diagnoza Survey. LiTS also contains similar socio-demographic controls as Diagnoza or the Ancestry Survey.

To check whether our main results hold in LiTS, we need information on education. LiTS contains one question on education, which asks about the highest education level completed (from no education to a Masters degree or PhD). We use this to generate years of schooling as well as indicators for secondary and higher education using the same mapping as in Diagnoza.¹⁰ Table A.9 shows that our main result—the effect of Kresy origin on education—holds also in the LiTS sample, despite the notably smaller sample size. Controlling for our usual individual-level controls, for urban or rural family origin, for urban residence, and for region fixed effects, descendants of Kresy migrants have on average 0.81 extra years of schooling.¹¹ They are 15 percentage points more likely to finish secondary education, and 13.9 percentage points more likely to graduate from college. These estimates are slightly larger, but on par with those obtained with the Diagnoza data.¹²

⁹These questions were added to LiTS 2016 based on our proposal.

¹⁰We consider that respondents who have completed primary education have seven years of education, those who have completed lower secondary education have ten, those who have completed (upper) secondary education have twelve, those who have completed post-secondary non-tertiary education have fourteen, and those who have completed tertiary education have seventeen years of education.

¹¹Given the substantially smaller LiTS sample size, we cannot run regressions with county fixed effects, only region fixed effects.

¹²The corresponding estimates in Diagnoza with the same set of controls and with region fixed effects (instead of county fixed effects as in column 2 of Table 2) are 0.85 extra years of schooling, and 12.2 and 9.1 percentage points higher likelihood to complete secondary or higher education, respectively.

Dependent variable: as indicated in table header						
	(1)	(2)	(3)			
	Years of education	Secondary education	Higher education			
Ancestor from Kresy	0.808 (0.326)	0.150 (0.037)	0.139 (0.039)			
Baseline controls [‡] Region FE	\checkmark	\checkmark	\checkmark			
Mean Dep. Var. R ²	12.85 0.25	0.31 0.20	0.25 0.18			
Observations	1,412	1,412	1,412			

Table A.9: Confirming the Main Education Results in LiTS

Notes: The table shows that the Kresy education effect also holds in the Life in Transition Survey (LiTS). Sample of respondents in Poland. Robust standard errors clustered at the Primary Sampling Unit indicated in parenthesis (70 clusters).

[‡] Controls include respondents' gender, age, age², dummies for six age groups, as well as indicators for WT, rural/urban residence, and rural/urban origin of mother and father.

IV.E Set of questions asked about every ancestor in the generation of youngest adults in the family in August 1939 in the Ancestry Survey

Q0. Please tell us if anybody from your family—more precisely, you, your parents, your grandparents, your great grandparents lived permanently in Kresy in August 1939, just before WWII.

1/Yes

2/ No

INTRODUCTION: We would like to ask you about your roots. We are interested in the generation in your family which is the closest to you by age and which was already adult just before the Second World War. We will ask where your ancestors from this generation lived before the war.

Q1. Please, tell us who in your family was adult (was more than 18 years old) in August 1939, just before the WWII?

a/ Were you adult?

(if yes, in the following questions the respondent is asked about him/herself)

b/ at least one of your parents was adult?

(if yes, the following questions are about each of the following ancestors: mother and father)

c/ at least one of your grandparents was adult?

(if yes, the following questions are about each of the following ancestors: maternal grandmother, maternal grand-father, paternal grandmother, and paternal grandfather)

d/ at least one of your great grandparents was adult?

(if yes, the following questions are about each of the following ancestors: mother and father of maternal grandmother, maternal grandfather, paternal grandmother, and paternal grandfather)

The following questions are about each of the ancestors in the respective generation of the youngest adults in the family before WWII (the questions are repeated and the answers are recorded for each ancestor separately):

INTRODUCTION: Now, we would like to know, in as detailed way as possible, where each of the members of this generation lived just before the WWII.

As your ancestors could live within the previous or current Polish borders, to remind you I will show you the map on which these borders before the war and after the war are showed. The green and red colours represent Poland before the WWII, and red and yellow colours represent Poland after the WWII.

Before we ask the next question we would like to remind you that: When we speak about Eastern Kresy we mean the territories which before the WWII belonged to the Second Polish Republic and since the end of the war have belonged to the USSR and today belong to Ukraine, Belarus or Lithuania. When we speak about Central Poland we mean the lands that belong to Poland now and belonged to Poland before WWII. When we speak about Western and Northern Territories (that used to be called Recovered Territories) we mean lands that belonged to Germany before WWII and became part of Poland after the WWII. We will refer to these lands as WT.

A1. Where did your ANCESTOR live permanently in August 1939? Did he/she live:
In the Second Polish Republic:
1/ in Kresy
2/ in Central Poland
Outside the Second Polish Republic:
3/ in Western Territories
4/ in another place in the Third Reich or in another country
5/ in a Free City of Gdansk
6/ Does not concern—was not born yet
7/ Difficult to say
8/ Refuse to answer

A2. Was the locality where your ANCESTOR lived: 1/ rural 2/ urban 7/ Difficult to say 8/ Refuse to answer

A3. Do you know the name of this locality? 1/ Yes 2/ No 8/ Refuse to answer

A4. What was the name of the locality?

A5. Do you know to which county (powiat before the war) belonged this locality? 1/ Yes 2/ No 8/ Refuse to answer

A6. What was the name of this county (powiat)?

A7. Do you know what was the closest city next to the locality, where this ANCESTOR lived in August 1939? 1/ Yes 2/ No 8/ Refuse to answer

A8. What was the name of this city?

A9. Do you know in which region (wojewodztwo before the war) was this locality located?

1/Yes

2/ No

8/ Refuse to answer

A10. What was the name of this region?

A11. On the territory of which country is this locality today?
1/ Belarus
2/ Ukraine
3/ Lithuania
7/ Difficult to say
8/ Refuse to answer

A12. Did your ANCESTOR move to Western Territories? 1/ Yes 2/ No 7/ Difficult to say 8/ Refuse to answer

A13. Do you think your ANCESTOR was forced to move to Western Territories? By forced we mean the pressure exercised by the Soviet or Polish authorities.

1/ Yes 2/ No 7/ Difficult to say 8/ Refuse to answer

V Border Analysis: Additional Empirical Results

In this section, we present additional evidence in support of our main result.

V.A Arbitrariness of the Kresy Border

This subsection complements our discussion in Section II.A. of the paper about the arbitrariness of the Kresy border and the Kresy border analysis presented in the results section. Figures A.11 and A.12 examine geo-climatic and agricultural characteristics of counties in a 150 km corridor around the Kresy border. There is no discontinuity at the Kresy border in any geo-climatic characteristic, such as mean temperature, precipitation, altitude, or terrain ruggedness. The same is true for the suitability for various major crops (barley, wheat, potato, and sunflower).

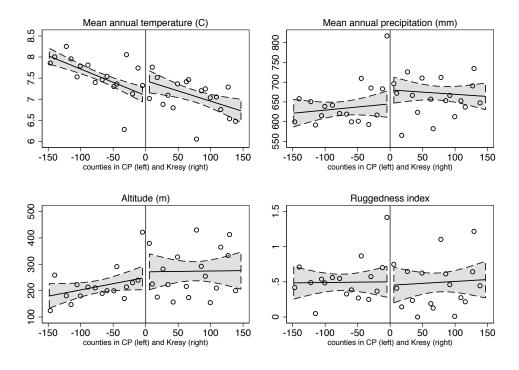


Figure A.11: Kresy Border Sample: Geo-climatic Characteristics

Note: The figure shows that there is no discontinuity around the border between Kresy and Central Poland in terms of geo-climatic characteristics. The figure uses data from FAO, averaged at the county level. Dots correspond to data aggregated into 8 km (5 miles) bins for visualization, while the lines are based on all underlying observations, with the shaded area representing 90% confidence intervals.

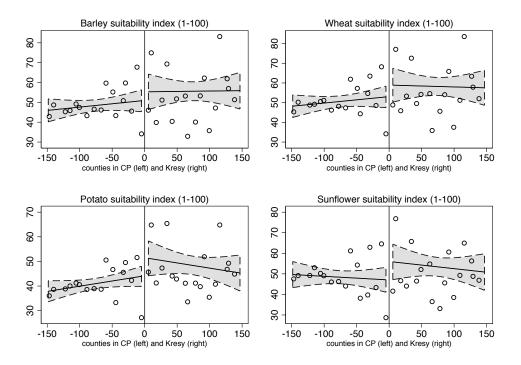


Figure A.12: Kresy Border Sample: Crop Suitability

Note: The figure shows that there is no discontinuity around the border between Kresy and Central Poland in terms of soil suitability. The figure uses data from FAO, averaged at the county level. Dots correspond to data aggregated into 8 km (5 miles) bins for visualization, while the lines are based on all underlying observations, with the shaded area representing 90% confidence intervals.

V.B Border Analysis in the Diagnoza Survey—Additional Results

Table A.10 complements our border analysis in Section IV.B. in the paper. Note first that in the Kresy border sample, the means of the dependent variables are very similar to the overall sample means in Diagnoza (see Table 2, column 1 in the paper). This renders the results directly comparable. Column 1 in Table A.10 includes our baseline controls; column 2 adds a quadratic polynomial in latitude and longitude to capture unobservables that may vary around the Kresy border (Dell, 2010).¹³ In both specifications, we find positive and significant coefficients for Kresy ancestors that are somewhat larger than those in the main sample (Table 2 in the paper). One reason for the difference could be that we now use only those Kresy-origin respondents who also remember the locations where their ancestors lived in 1939. This may be a subsample with particularly vivid memories of the forced migration experience, augmenting the long-run effects on education. In column 3 of Table A.10 we restrict the sample to 100 km around the Kresy border. Results remain very similar. Finally, in columns 4 and 5 we present our results for secondary and higher education, respectively. Again, we confirm the main results from Table 2.

Dependent variable: as indicated in column header								
	(1)	(2)	(3)	(4)	(5)			
Dep. Var.:	Yea	rs of educa	Secondary	Higher				
Notes on sample:	< 150 km	< 150 km	< 100 km	< 150 km	< 150 km			
Ancestor from Kresy	1.155 (0.152)	1.416 (0.255)	1.256 (0.312)	0.147 (0.038)	0.154 (0.033)			
Baseline controls [‡] RD polynomial [#]	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			
Mean Dep. Var. Observations	12.02 8,760	12.02 8,760	11.92 5,258	0.51 8,761	0.22 8,761			

Notes: The table uses data from our 2015 Diagnoza Survey, using only ancestors from within the indicated distance from the Kresy border. These include i) individuals with ancestors from Kresy who lived within less than 150 km (100 km) to the east of the border, and ii) individuals without Kresy ancestors who live (today) within 150 km (100 km) to the west of the border. Regressions are run at the respondent level; robust standard errors (clustered at the household) level in parenthesis.

[‡] Baseline controls include respondents' gender, age, age², dummies for six age groups, as well as indicators for WT, rural places and urban counties.

[#] Quadratic polynomial in latitude and longitude of i) ancestors' location of origin to the east of the Kresy border, ii) respondent's location (today) to the west of the border.

¹³Following the argument in Gelman and Imbens (2014) that cubic and higher-order polynomials can yield misleading estimates, we use a second order polynomial. Note that we do not include respondent location fixed effects, because these would absorb the variation in distance to the west of the Kresy border. This is because we use today's location of respondents from CP (i.e., those within 150 km to the west of the Kresy border) as a proxy for their ancestors' place of living. We address this issue below in Table A.11 by using data from our Ancestry Survey, which includes many respondents whose ancestors lived in CP close to the Kresy border, but who themselves live scattered throughout the Western Territories today.

V.C Border Analysis in our Ancestry Survey—Additional Results

The results shown in this subsection complement our Ancestry Survey border analysis from Section IV.B. in the paper. Figure A.13 illustrates the border sample based on our Ancestry Survey data. It shows the locations of origin places for those ancestors who came from within 150 kilometers of the Kresy border.

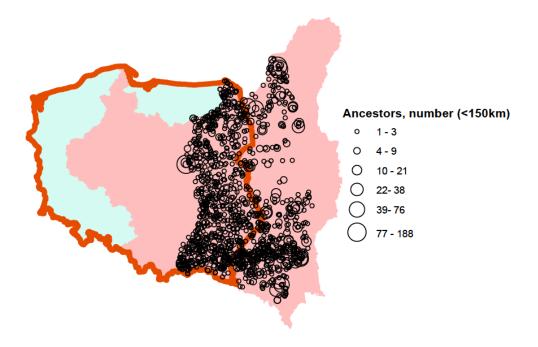


Figure A.13: Origin of Ancestors in our Ancestry Survey.

Note: The figure displays the origin of ancestors in the border sample of our Ancestry Survey—within 150km of the Kresy border. The different dot sizes indicate the number of ancestors from each respective location. The different areas on the map are described in the note to Figure 1 in the paper: In the East, the former Eastern Polish territories (Kresy); in the West, the Western Territories, and in the center, Central Poland.

Table A.11 complements the graphical evidence from Figure 4 in the paper. The table presents the results of our most demanding specifications: We identify the effect of ancestors' origin for individuals living within the same county (columns 1 and 2) or even within the same municipality (columns 3 to 6) whose ancestors originate from localities close to the Kresy border. In columns 2-6 we use a spatial RDD that controls for a quadratic polynomial in latitude and longitude of the ancestor's origin. Note that the results are run at the ancestor level, because the border discontinuity refers to ancestor locations. We estimate several specifications to illustrate the robustness of the main result displayed in Figure 4 in the paper. In columns 1 to 4 of Table A.11, we use years of education as outcome variable and show that the results are robust to using samples within 150

Appendix p.29

and 100 km from the Kresy border. In columns 5 and 6, we report the results for secondary and higher education, respectively. Results of all specifications are consistently strong and of similar magnitude as our main results for the Ancestry Survey in Table 3 in the paper.

Dependent variable: as indicated in column header								
(1)	(2)	(3)	(4)	(5)	(6)			
	Years of	Secondary	Higher					
< 150 km	< 150 km	< 150 km	< 100 km	< 150 km	< 150 km			
0.876 (0.188)	0.698 (0.350)	0.925 (0.382)	1.416 (0.507)	0.112 (0.057)	0.112 (0.053)			
\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			
\checkmark	\checkmark	\checkmark	\checkmark	√ √	\checkmark			
12.70 0.30 2.380	12.72 0.31	12.72 0.44 2.201	12.66 0.54	0.54 0.42	0.24 0.37 3.291			
	(1) < 150km 0.876 (0.188) √ √ 12.70	$\begin{array}{c cccc} (1) & (2) & & \\ & & Years of & \\ < 150km & < 150km \\ \hline 0.876 & 0.698 \\ (0.188) & (0.350) \\ \hline \checkmark & \hline \checkmark \\ \hline \hline & & \hline \\ \checkmark \\ \hline \\ 12.70 & 12.72 \\ 0.30 & 0.31 \\ \end{array}$	$\begin{array}{c cccc} (1) & (2) & (3) \\ & Years of education \\ < 150km & < 150km & < 150km \\ 0.876 & 0.698 & 0.925 \\ (0.188) & (0.350) & (0.382) \\ \hline & \checkmark & \checkmark & \checkmark \\ & \checkmark & \checkmark & \checkmark \\ & \checkmark & \checkmark & \checkmark$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			

 Table A.11: Education in the Western Territories: Ancestors Originating Near Kresy Border

Notes: The table uses data from our 2016 Ancestry Survey in the Western Territories, using only ancestors from within the indicated distance from the Kresy border. Regressions are run at the ancestor level; robust standard errors clustered at the respondent level indicated in parenthesis. All columns control for a quadratic polynomial in latitude and longitude of ancestors' location of origin.

[‡] Baseline controls include respondents' gender, age, age², dummies for six age groups, as well as indicators for rural places and urban counties.

[†] Ancestor controls include indicators for ancestors from WT and from abroad, as well as indicators for the ancestor generation. Excluded category is ancestors from Central Poland.

V.D Ancestors from Contested Kresy Border Areas

In what follows, we present our most restrictive border analysis. We restrict the border sample to the contested areas in the northern and southern part of the different variants of the Curzon line, described in the Appendix I.C (see in particular Figure A.5). We keep all observations on ancestors from counties where the majority of the county area is within the envelope formed by the most extreme proposed variants of the Curzon line. By definition that excludes the central part of the border, where all proposed variants coincided, i.e., where the location of the border was uncontested. Put differently, we only use ancestors who—even if they knew about plans to redraw the Polish borders—could not possibly tell which part of Poland they would be assigned to.

Figure A.14 illustrates the location of ancestors in the contested border sample. Table A.12 presents the corresponding results. First, column 1 shows that there are no pre-existing differences in education: pre-WWII literacy rates of Roman Catholics (i.e., Poles) are very similar in locations of ancestors on both sides of the (future) Kresy border.¹⁴ Next, columns 2 presents the main result:

¹⁴In addition, within the contested border sample the share of Poles (measured by Roman Catholics or Polish speakers in 1931) was also balanced on the two sides of the Kresy border: Using the two variables (with county-level 1931 census data assigned to the location of ancestors) on the left-hand-side in the same specification as column 1 yields small and insignificant coefficients (-0.038 for the share of Roman Catholics and -0.075 for the share of Polish

education in 2016 is substantially higher for descendants of Kresy ancestors. This holds also in column 3, where we add ancestor controls.

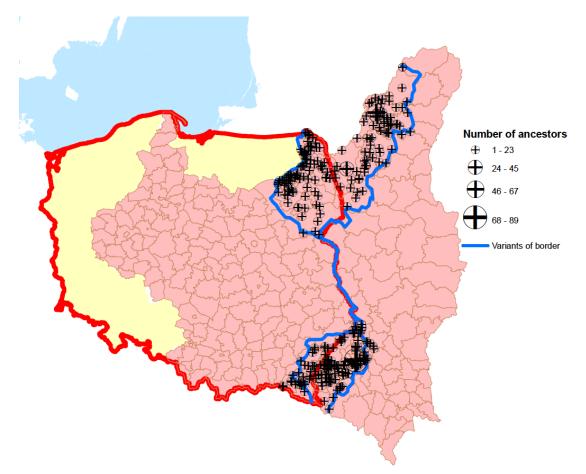


Figure A.14: Contested Border Sample: Origin Locations of Ancestors

Note: This map shows the locations of ancestors who lived in counties whose midpoint was located within the contested areas of the Curzon line, as described in Appendix I.C.

speakers with standard errors of 0.078 and 0.051, respectively). This helps to address the concern that our results may be driven by Poles being one of many ethnicities in Kresy, i.e., that the share of Poles in Kresy was lower than in Central Poland. We further discuss this issue below and present interaction results in columns 1-5 of Table A.13.

Dependent variable: as indicated in column header							
	(1)	(2)	(3)				
Dep. Var.:	Literacy	Years of schoolin					
	Rate 1921						
Ancestor from Kresy	-0.008	0.942	0.850				
	(0.034)	(0.473)	(0.489)				
Baseline controls [‡] Ancestor controls [†]	\checkmark	\checkmark	\checkmark				
Respondent county FE	\checkmark	\checkmark	\checkmark				
Mean Dep. Var.	0.65	12.46	12.47				
\mathbb{R}^2	0.46	0.44	0.46				
Observations	1,070	1,078	1,058				

Table A.12: Subsample of Ancestors from Contested Kresy Border Areas

Notes: The table uses data from our 2016 Ancestry Survey in the Western Territories, using only ancestors from counties located within the contested area of the Kresy border, as shown in Figure A.14. Regressions are run at the ancestor level. Standard errors are clustered at the respondent level.

[‡] Baseline controls include respondents' gender, age, age², dummies for six age groups, as well as indicators for rural places and urban counties.

[†] Ancestor controls include indicators for ancestors from WT and from abroad, as well as indicators for the ancestor generation. Excluded category is ancestors from Central Poland.

VI Threats to Identification: Additional Results

In this appendix, we provide detailed results that complement Section V. in the paper.

VI.A Characteristics at Origin Locations: Potential Heterogeneous Effects

Could different characteristics of migrants' origin locations affect our results? We analyze this possibility in Tables A.13 and A.14, testing for possible differential effects of Kresy origin depending on characteristics at the ancestors' place of origin. In particular, we run regressions at the ancestor level, in which we include interactions between the dummy for Kresy ancestry and (standardized) county-level characteristics of the place of origin of the respective ancestor, controlling also for the characteristics at the place of origin.¹⁵ In Table A.14, we also include interactions of climatic characteristics at the *destination* location.

Table A.13 examines the heterogeneity with respect to various measures of diversity at the origin location. In particular, we consider the following pre-WWII county level variables: the share of Roman Catholics, the share of Polish speakers, the share of Ukrainian speakers, the share of Russian speakers, the total literacy rate and the literacy rate among Roman Catholics, as well as the urbanization rate. We find no differential effects of Kresy origin on years of education with respect to any of these characteristics—the interaction coefficients are quantitatively small and statistically insignificant throughout. The same is true for Table A.14, where we consider heterogeneity with respect to land suitability for wheat (which was the main crop in pre-WWII Kresy), mean temperature, the precipitation-evatranspiration ratio, and ruggedness of the origin locations, both at the ancestor origin and destination (respondent location). The evidence in Tables A.13 and A.14 suggests that the effect of Kresy origin is driven by forced migration itself, rather than by the characteristics of the origin of Kresy migrants.

Note, in particular, the results in columns 1-5 in Table A.13. These explore whether the composition of the population at the origin location affects our main result. This is a potential concern, given that Kresy was a multi-ethnicity area. We find that our main result does not vary with the share of Poles (measured either as Roman Catholics or Polish speakers), Ukrainians, or Russians at the ancestors' origin locations: The interaction between Kresy and each of these shares is small, negative, and insignificant.¹⁶ Overall, the results in columns 2-5 suggest that Kresy being a multi-ethnicity area does not drive our results.

¹⁵Since we use interaction terms with county-of-origin characteristics, we use two-way clustering both at the respondent i level and at the level of ancestors' county of origin.

¹⁶In column 3 we allow for potential nonlinearities by using an indicator for above-median share of Polish speakers. Both the indicator itself and the interaction coefficient are statistically insignificant and positive. The positive signs mean that if anything, the education premium is larger where there were relatively more Poles. Thus, the fact that there were relatively *fewer* Poles in Kresy than in Central Poland works against our main result.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Ancestor from Kresy	0.536 (0.130)	0.538 (0.140)	0.502 (0.164)	0.568 (0.105)	0.463 (0.105)	0.509 (0.108)	0.568 (0.097)	0.497 (0.103)	0.500 (0.097)
Share Rom. Cath., 1931 (std)	0.056 (0.114)								
Rom. Cath., 1931 (std) \times Kresy	-0.056 (0.141)								
Share Polish speakers, 1931 (std)		0.038 (0.136)							
Polish speakers, 1931 (std) \times Kresy		-0.022 (0.168)							
Share Polish speakers (1931) above median			0.029 (0.168)						
Share Polish speakers (1931) above median \times Kresy			0.188 (0.235)						
Share Ukrainian speakers, 1931 (std)				-0.013 (0.125)					
Ukrainian speakers, 1931 (std) \times Kresy				-0.060 (0.126)					
Share Russian speakers, 1931 (std)					0.192 (0.212)				
Russian speakers, 1931 (std) \times Kresy					-0.160 (0.213)				
Literacy rate, 1931 (std)					()	-0.026 (0.081)			
Literacy rate, 1931 (std) × Kresy						0.055 (0.094)			
Urbanization rate, 1931 (std)						(0.051)	0.043 (0.061)		
Urbanization rate, 1931 (std) \times Kresy							-0.088 (0.058)		
Literacy rate, 1921 (std)							(0.050)	0.001 (0.077)	
Literacy rate, 1921 (std) \times Kresy								-0.001 (0.093)	
Literacy rate Rom. Cath., 1921 (std)								(0.095)	0.011 (0.067)
Literacy rate Rom. Cath., 1921 (std) \times Kresy									(0.007) 0.008 (0.085)
Baseline controls [‡]	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	(0.085) √
Ancestor controls [†]	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	V
Respondent county FE	√ 10.14	√ 10.14	√ 12.14	√ 12.14	√ 10.14	√ 10.14	√ 12.15	√ 12.14	√ 10.14
Mean Dep. Var. R ²	13.14 0.30	13.14 0.30	13.14 0.30	13.14 0.30	13.14 0.30	13.14 0.30	13.15 0.30	13.14 0.30	13.14 0.30
Observations	9,706	9,706	9,706	9,706	9,706	9,667	8,613	9,645	9,645

Table A.13: No Heterogeneous Effects with Respect to Ancestors' Origin Characteristics

Notes: The table uses data from our Ancestry Survey. Regressions are run at the ancestor level. The table shows that the coefficient on Kresy ancestry does not vary significantly with average characteristics of the population at the place of origin. Standard errors clustered using two-way clustering by individual respondents and by county of origin.

[‡] Baseline controls include respondents' gender, age, age², dummies for six age groups, as well as indicators for rural places and urban counties.

[†] Ancestor controls include indicators for ancestors from WT and from abroad, as well as indicators for the ancestor generation. Excluded category is ancestors from Central Poland.

Dependent variable: Tears of education						
	(1)	(2)	(3)	(4)		
Ancestor from Kresy	0.574 (0.102)	0.481 (0.119)	0.576 (0.103)	0.546 (0.097)		
Land suitability for wheat at origin (std)	-0.042 (0.081)					
Land suit. for wheat (std) \times Kresy	0.020 (0.096)					
Annual temperature at origin (std)		0.048 (0.088)				
Annual temperature (std) \times Kresy		-0.180 (0.116)				
Precipevatranspiration ratio at origin (std)			-0.021 (0.064)			
Precipevatranspiration ratio (std) \times Kresy			-0.043 (0.099)			
Ruggedness at origin (std)				0.030 (0.046)		
Ruggedness (std) \times Kresy				-0.070 (0.082)		
Baseline controls [‡]	\checkmark	\checkmark	\checkmark	\checkmark		
Ancestor controls [†]	\checkmark	\checkmark	\checkmark	\checkmark		
Respondent county FE	\checkmark	\checkmark	\checkmark	\checkmark		
Mean Dep. Var.	13.15	13.15	13.15	13.15		
\mathbb{R}^2	0.30	0.30	0.30	0.30		
Observations	8,793	8,793	8,793	8,793		

Table A.14: No Heterogeneous Effects w.r.t. Geographic Features at Ancestors' Origin

Dependent variable: Years of education

Notes: The table uses data from our Ancestry Survey. Regressions are run at the ancestor level. The table shows that the coefficient on Kresy ancestry does not vary systematically with geographic characteristics at the place of origin. Standard errors clustered using two-way clustering by individual respondents and by county of origin.

[‡] Baseline controls include respondents' gender, age, age², dummies for six age groups, as well as indicators for rural places and urban counties.

[†] Ancestor controls include indicators for ancestors from WT and from abroad, as well as indicators for the ancestor generation. Excluded category is ancestors from Central Poland.

VI.B Differential War Exposure or Victimization—Using Data from LiTS

A potential concern for our analysis is that exposure to conflict during WWII was different for those living in the Kresy territories compared with those living in Central Poland. If this were the case, then our estimated treatment effect of 'uprootedness' could be confounded with the effect of a legacy of victimization during WWII. The existing literature finds that the effect of conflict on educational attainment is *negative* (for a review see Buvinic, Gupta, and Shemyakina, 2014). However, this finding is limited to directly-affected cohorts. In the case of Europe during WWII, Ichino and Winter-Ebmer (2004) examine the educational attainment of children born in 1920-1949. They find that the cohorts born in 1930-1939 (those who reached age 10 during or soon

after the war) who lived in countries heavily engaged in the conflict (e.g., Austria and Germany) completed less schooling compared to other cohorts in the same country or similar cohorts in countries that were not directly engaged in the conflict (e.g., Sweden and Switzerland). Ichino and Winter-Ebmer (2004) also find that the disruptive effects of conflict on education do not persist; only the cohort of schooling age during the conflict is affected. For other cohorts, no effect is found, even for individuals who were directly affected by the conflict by, for example, the death of a parent.

In this section, we show that ancestors in Kresy were exposed to somewhat higher violence during WWII. According to the findings in the previous literature, this should introduce a downward bias in the 'Kresy education effect' for those who were displaced when they were of school age. For later generations—the largest group of respondents in our surveys—we should expect no bias. Consistent with this prediction, based on the previous literature, we show that our results are robust to controlling for differences in exposure to violence during WWII.

Administrative data on war destruction exist only for the post-war Polish territory. Therefore, we are unable to draw on administrative sources to measure differential war experience (or destruction) on both sides of the Curzon Line. Also, neither of our two surveys (Diagnoza and our own Ancestry Survey) has information on war experience. However, the Life in Transition Survey 2016, which we introduced earlier in Appendix IV.D, has information about war experience combined with information during of ancestors of the respondent. LiTS asks the following question on victimization during WWII: *"Were you, your parents or any of your grandparents physically injured, or were your parents or any of your grandparents killed during the Second World War?"* 35.3% of Polish respondents answered affirmatively.¹⁷

In Table A.15, we analyze the role of war time experience by the respondents' ancestors. We first show that Kresy ancestors are more likely to have been victimized during WWII (column 1). Yet, controlling for a family history of victimization does not affect our main result: We show in columns 2 and 3 that Kresy ancestry is still positively and significantly (at the 1% level) associated with educational attainment after controlling for family history of war victimization, irrespective of whether we consider a missing family history of victimization as non victimization (column 2) or truly missing (column 3). A family history of victimization in WWII itself is never significantly associated with educational attainment.¹⁸ Overall, the findings using LiTS data suggest that our main results are not confounded by differential war exposure of forced migrants from Kresy.

VI.C Differences between Effects in the Western Territories and Central Poland

Table A.16 restricts the Diagnoza sample to respondents with Kresy ancestors. It compares their education in the Western Territories and in Central Poland. Odd columns in Table A.16 show the raw differences (after controlling for individual characteristics). Note that we cannot control for local fixed effects in these specifications because the table compares individuals with Kresy

¹⁷Around 10% answered that they did not know. Our results are unaffected whether we code these as missing or as not victimized.

¹⁸For brevity of exposition, we only report results for years of education, but the results are similar when we consider completion of secondary or higher education as dependent variables. Controlling for a family history of victimization in WWII, Kresy descendants are 14.1 and 12.9 percentage points more likely to complete secondary and higher education, respectively. Both coefficients are statistically significant at the 1% level and practically indistinguishable from the baseline LiTS estimates in columns 2 and 3 of Table A.9.

Dependent variable: as indicated in column header						
	(1)	(2)	(3)			
Dep. Var.:	Family victimized during WII	Years of schooling	Years of schooling			
Ancestor from Kresy	0.367 (0.062)	0.734 (0.328)	0.673 (0.332)			
Family killed or injured in WWII (missing = 0)		0.203 (0.183)				
Family killed or injured in WWII			0.174 (0.180)			
Baseline controls [‡] Region FE	\checkmark	\checkmark	\checkmark			
Mean Dep. Var.	0.35	12.85	12.80			
\mathbb{R}^2	0.16	0.25	0.26			
Observations	1,412	1,412	1,265			

Notes: The table uses data from the 2016 Life in Transition Survey sample. Sample of respondents in Poland. Robust standard errors clustered at the Primary Sampling Unit indicated in parenthesis (70 clusters).

[‡] Baseline controls include respondents' gender, age, age², dummies for six age groups, as well as indicators for WT, rural/urban residence, and rural/urban origin of mother and father.

ancestors *across* regions. Thus, differences in local labor markets affect the results. To account for at least some of this variation, even columns include an indicator for individuals who live in the counties of Warsaw or Cracow—the main university centers in Poland. The results imply that controlling for these educational centers is important, as it reduces the difference between WT and CP. We find that—after accounting for Warsaw and Cracow—respondents with Kresy ancestors who live in the Western Territories have, on average, 0.44 fewer years of education and are 5.0 and 6.0 percentage points less likely to complete secondary and higher education, respectively, as compared to respondents with Kresy ancestors who live in Central Poland.¹⁹ Thus, our Ancestry Survey results in the Western Territories—which show a significant education advantage of people with Kresy ancestors—are, if anything, underestimating the effect for Poland overall.

VI.D Selection of Voluntary Migrants? Differences in Literacy at Counties of Origin

Table A.17 compares the historical literacy rates in the counties of origin of ancestors from Kresy and from Central Poland, verifying that our main results hold in the subsample of ancestors for which information on historical (county-level) literacy rates is available. Regressions are run at the ancestor level, with secondary education as the contemporaneous measure for education in odd columns, and with historical literacy in even columns. Panel A uses literacy of Roman Catholics from the 1921 Polish Census that covered all of the Second Polish Republic; Panel B uses literacy of Poles in the Polish language from the 1897 Russian Empire Census, covering the Russian parti-

¹⁹Note that the counties Warsaw and Cracow are geographically smaller than commuting zones. When we account for larger areas—by using indicators for the Voivodeships of Mazowieckie and Lesser Poland (Małopolska), i.e., the areas around Warsaw and Cracow—the coefficients on WT become even smaller.

	(1)	(2)	(3)	(4)	(5)	(6)
Dep. Var.:	Years of	education	Secondar	y education	Higher e	ducation
Dummy for Western Territories	-0.714 (0.137)	-0.501 (0.139)	-0.071 (0.020)	-0.056 (0.021)	-0.089 (0.019)	-0.065 (0.020)
Warsaw or Krakow		2.137 (0.335)		0.152 (0.031)		0.236 (0.046)
Baseline controls [‡]	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Mean Dep. Var. R-squared	12.77 0.26	12.77 0.27	0.62 0.18	0.62 0.18	0.29 0.16	0.29 0.17
Observations	3,196	3,196	3,198	3,198	3,198	3,198

Table A.16: Education of Kresy Migrants in the Western Territories and Central Poland

Dependent variable: as indicated in column header

Notes: Regressions are run at the respondent level, restricting the sample to individuals with ancestors from Kresy in the Diagnoza Survey. Standard errors are clustered at the household level. 'Warsaw or Cracow' is an indicator that takes on value one for the counties of Warsaw and Cracow.

[‡] Baseline controls include respondents' gender, age, age², dummies for six age groups, as well as indicators for rural places and urban counties.

tion of Poland, which after 1918 became a part of the SPR.²⁰ Column 1 replicates our main results in the subsamples for which the historical literacy data at the ancestors' origins are available: We find that in both samples, respondents with Kresy ancestors have significantly higher secondary education than respondents with ancestors from Central Poland who live in the same county today. Column 2 uses historical literacy rates as the dependent variable. The coefficient on the Kresy dummy in this regression shows the average difference in historical literacy rates between counties in Kresy and in Central Poland from which respondents' ancestors originated. Because we use respondent county fixed effects, we compare historical literacy rates at the origin of ancestors whose descendants today live in the same counties in WT. According to the results in column 2, Kresy ancestors came on average from locations with a 3 percentage point *lower* literacy rate. Columns 3-6 show that a similar pattern of 'reversal of education' holds when we restrict the sample to ancestors from rural origin locations or to those from urban origins.

²⁰The number of observations in Panel B is lower because the Western part of Central Poland was part of the German Empire, and the southern-most part of Kresy and of Central Poland belonged to the Austro-Hungarian Empire. Note also that neither of these historical censuses cover the Western Territories (which belonged to Germany).

Dependent variable: as indicated in table header						
	(1)	(2)	(3)	(4)	(5)	(6)
Dependent Variable:	Secondary edu	Historical	Secondary edu	Historical	Secondary edu	Historical
	in 2016	literacy	in 2016	literacy	in 2016	literacy
Sample. Ancestor from:	Rural or Urba	an origin	Rural or	igin	Urban or	rigin
Panel A: Literacy from the 1921 Polish Census (Ancestors from Kresy and CP)						
Ancestor from Kresy	0.073	-0.030	0.060	-0.040	0.107	-0.002
	(0.015)	(0.017)	(0.018)	(0.020)	(0.025)	(0.024)
Ancestor from rural area	-0.068	-0.170				
	(0.017)	(0.013)				
Baseline controls [‡]	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Ancestor controls ^{\dagger}	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Respondent county FE	\checkmark	\checkmark	✓	\checkmark	✓	✓
Mean Dep. Var.	0.57	0.62	0.54	0.58	0.66	0.75
\mathbb{R}^2	0.22	0.37	0.24	0.11	0.27	0.21
Observations	9,645	9,645	7,161	7,161	2,484	2,484
Panel B: Lite	eracy from the 18	97 Russian C	Census (Ancestors fr	rom the former	Russian Partition)	
Ancestor from Kresy	0.147	-0.031	0.142	-0.030	0.143	-0.031
	(0.030)	(0.014)	(0.034)	(0.014)	(0.066)	(0.015)
Ancestor from rural area	-0.035	0.002				
	(0.033)	(0.005)				
Baseline Controls [‡]	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Ancestor Controls [†]	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	√.
Respondent County FE	\checkmark	\checkmark	✓	\checkmark	✓	✓
Mean Dep. Var.	0.58	0.16	0.57	0.16	0.63	0.15
\mathbb{R}^2	0.34	0.31	0.34	0.34	0.64	0.57
Observations	2,177	2,177	1,744	1,744	433	433

Table A.17: Education Today and Historically in Counties of Origin of Ancestors

Dependent variable: as indicated in table header

Notes: The table shows that descendants of Kresy migrants have significantly higher rates of secondary education today (odd columns), while their ancestors came—on average—from counties with *lower* literacy (even columns): The coefficient on Kresy in even columns reflects the average difference in historical literacy rates between counties in Kresy and in Central Poland from which respondents' ancestors originated. Regressions are run at the ancestor level, using data from our Ancestry Survey. Standard errors clustered by individual respondents in odd columns and using two-way clustering by individual respondents and by county of origin in even columns.

[‡] Baseline controls include respondents' gender, age and age² interacted with birth-decade dummies, as well as indicators for respondents living in rural locations and urban counties.

[†] Ancestor controls include indicators for ancestors from WT and from abroad, as well as indicators for the ancestor generation. Excluded category is ancestors from Central Poland.

VI.E Selection of Voluntary Migrants? Individual Differences

In what follows, we show that individual selection of voluntary migrants from CP is unlikely to affect our results. To implement this check, we focus on respondents whose ancestors moved from CP to WT. From our Ancestry Survey, we know their county of origin in CP. We also know the education level today in these origin counties, from respondents in the Diagnoza Survey.²¹ Using the combined information, we construct the following variable for each respondent *i*:

$$\Delta E du(i) = E du^{WT}(i) - E \left[E du^{CP}_{county} \left(a_{(i)} \right) \right]$$
(A.3)

where $Edu^{WT}(i)$ is today's education of respondent *i* living in WT, whose ancestors came from CP. The term $Edu_{county}^{CP}(a_{(i)})$ denotes the average education today in the CP county of origin of ancestor *a* of respondent *i*. $E[\cdot]$ is the average education across origin counties of all ancestors of respondent *i*. Since we only look at descendants of migrants from CP, all these counties are in CP.

Table A.18 presents the results for the null hypothesis that $\Delta E du(i) = 0$ for secondary education and for higher education.²² Columns 1 and 2 show positive differences, i.e., that descendants of CP migrants who now live in WT have on average slightly *higher* education than their 'cousins' in their ancestors' origin counties in CP. This result could be driven by migration from rural areas in CP to cities in WT: Since education is higher in urban areas, destinations would tend to show higher education than origin locations.²³ To account for this possibility, we restrict the sample to individuals for whom *both* origin and destination locations were urban (columns 3 and 4) or rural (columns 5 and 6). In all cases, the differences are small and statistically insignificant. This suggests that the positive differences shown in columns 1 and 2 are in part driven by rural-to-urban migration.²⁴ Another possible explanation for the positive $\Delta E du(i)$ in columns 1 and 2 is that CP migrants from rural areas who came to WT cities may have been positively selected. Ultimately, we cannot differentiate between selection among historical migrants and other potential mechanisms that may drive the observed (small) educational gap.²⁵ Nevertheless, the results from Table

²¹We only use Diagnoza respondents in CP without any ancestors from Kresy. Similarly, we restrict the subsample from our Ancestry Survey to those respondents who have only ancestors from CP.

²²The definition of years of education is different across the two surveys. In Diagnoza, this variable is the selfreported number of years spent in educational institutions. In contrast, in our Ancestry Survey years of education are imputed using four educational categories. While years of education are comparable for different observations within each survey, they are not directly comparable between the two data sources. As $\Delta E du(i)$ entails the comparison of values across the two surveys, we do not use years of education in this analysis.

 $^{^{23}}$ Note that this concern is specific to the analysis in Table A.18, which compares individuals *across* locations and therefore does not use location fixed effects. In contrast, all our main results hold with municipality fixed effects, which absorb (among many others) average differences across urban vs. rural areas. In addition, our main results hold in the rural and urban subsamples when we control at the same time for the rural origin of ancestors (see columns 4 and 5 in Table 3).

²⁴In fact, if we restrict the sample to respondents in urban areas of WT with ancestors from rural CP areas, we—unsurprisingly—obtain significantly positive differences.

²⁵For example, an alternative story is that migrants, even when not forced, revise upward the importance of human capital. This would be similar to the mechanism for forced migrants, but not as strong—thus placing voluntary migrants between stayers and forced migrants in terms of their education. Another possible explanation is related to labor market spillovers in Western Territories from educated descendants of Kresy migrants onto descendants of CP migrants. This would be consistent with spillovers as documented by Semrad (2015). Note also that, on average, education in CP and WT today is very similar. Consequently, it is unlikely that CP migrants merely benefitted from a

A.18 are relevant for interpreting the coefficient on Kresy origin in our Ancestry Survey regressions. They suggest that our control group—descendants of migrants from CP who now live in WT—are on average, if anything, somewhat *better* educated than their closest comparison groups. Thus, our Ancestry Survey results tend to *underestimate* the effect for Kresy origin in the Western Territories.

Table A.18: Education Difference Between Destination and Origin of Migra	nts from CP to WT

	(1)	(2)	(3)	(4)	(5)	(6)
Dep. Var.:	Secondary	Higher	Secondary	Higher	Secondary	Higher
	education	education	education	education	education	education
Sample:	Urban o	or rural	Urban	Urban origin		origin
			& desti	& destination		nation
$\Delta E du(i)$	0.027	0.042	0.012	0.041	-0.028	-0.005
	(0.014)	(0.011)	(0.028)	(0.027)	(0.026)	(0.016)
Observations	1,391	1,391	323	323	347	347

Dep. Var.: Difference in education, variable indicated in table header

Notes: The table combines data from our Ancestry Survey with Diagnoza data. The table provides the results from estimating equation (A.3). This addresses the possibility of individual selection of voluntary migrants from CP to WT (which would affect the composition of the control group in our Ancestry Survey results). The table shows that respondents in WT who are descendants of migrants from CP are, if anything, slightly *better* educated than a reasonable comparison group—people who still live in the places of their ancestors' origin in CP.

generally better education system in WT.

VII Additional Results on Mechanisms

We begin this section by looking more closely at our proposed mechanism to explain the Kresy education effect: a shift in preferences towards education as a portable asset, and away from physical assets, which we see as capturing the classical uprootedness hypothesis (Appendix VII.A). We then move on to discuss alternative mechanisms in Appendix VII.B, showing that they are unlikely to explain our results. We conclude by showing that recall bias by survey respondents does not confound our findings (Appendix VII.C).

VII.A Potential Reasons Underlying the Shift in Preferences towards Education

Our proposed mechanism to explain the Kresy education effect is a shift in preferences towards education as a portable asset, and away from physical assets, as a result of uprootedness. The evidence presented in Table 5 in the paper could have multiple reasons, which we alluded to in footnote 26 in the main text. While we cannot formally test the relative contribution of each possible explanation, this section discusses some evidence for or against five possible candidates.²⁶

Perceived Risk of Repeated Forced Migration

Experiencing forced migration (or having a family history of forced migration) may affect the subjective probability that individuals attach to being forced to migrate again in the future. As a consequence, Kresy migrants would invest more in portable assets, i.e., human capital. In Section II.C., we gave anecdotal evidence for a higher degree of perceived uncertainty about the future status of the Western Territories by Kresy migrants. Along the same line of argument, descendants of Kresy migrants may (still) believe that property rights are less secure and thus own fewer physical assets, relative to their budget. While this interpretation is potentially at play for earlier generations of Kresy descendants, it is unlikely to drive results for younger cohorts: Property rights became more secure in the early 1990s, after the end of the Socialist era and the ratification of the final treaty regarding the Polish-German border (see footnote 11 in the main text). Yet, our results on education are stable for cohorts born around 1990 (see Figure 3 in the paper). Thus, our long-run results are more compatible with a persistent change in preferences for education, as opposed to a persistent change in beliefs about property rights.

Education as (Partial) 'Insurance' Against Negative Shocks

Did forced migration increase the subjective probability that negative events can happen? If this were the case, education might provide (partial) protection, complemented by savings/insurance holdings. In order to address this possibility, we explore the richness of the Diagnoza Survey, which provides data on financial investments and insurance. More specifically, we extracted all variables that are related to insurance and savings/financial investment. There are three types of variables: 1) whether respondents have savings and what kind; 2) data on the purpose of savings; 3) whether respondents have insurance. Note that Diagnoza respondents do not report monetary values, but the extensive margin.

Respondents with Kresy origin are more likely to hold savings and insurance, conditional on income and education (see Table A.19, first and last column).²⁷ Both are consistent with the

²⁶We thank an anonymous referee for suggesting to look at these to provide a more nuanced discussion of our main finding.

²⁷Note that savings information is provided by the household head and hence available for all (adult) household

idea that descendants of forced migrants have a preference for insurance against possible negative events. It is particularly instructive to look at the purpose of savings (conditional on holdings savings). According to Table A.19, respondents with Kresy origin are significantly less likely to save for every day consumer needs or for durable goods (columns 2 and 3), but significantly more likely to save in order to accumulate 'reserves for unexpected events' (column 4) and for 'security for the old age' (column 5). This suggests that descendants of forced migrants have a higher precautionary saving motive.²⁸ This can be due to two underlying reasons: 1) descendants of forced migrants may have a higher perceived likelihood that negative shocks will occur, with savings working as an 'insurance' mechanisms; 2) the perceived likelihood of shocks may be the same, but people with Kresy roots may be more risk averse. We discuss the latter in the next point.

Dependent variable: as indicated in table header							
	(1)	(2)	(3)	(4)	(5)	(6)	
	HH	Savings Mot	Savings Motive (Conditional on Holding Savings)				
	has	Everyday	Durable	Unexpected	Old	has	
	savings	consumption	consumption	events	age	insurance	
Ancestor from Kresy	0.043 (0.016)	-0.057 (0.019)	-0.030 (0.017)	0.042 (0.019)	0.064 (0.019)	0.037 (0.012)	
Baseline controls [‡]	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
Education and HH income	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
Respondent county FE	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
Mean Dep. Var.	0.44	0.40	0.22	0.63	0.29	0.58	
Observations	27,357	17,719	17,712	17,736	17,712	21,259	

Table A.19: Household Savings and Individual-Level Insurance in Diagnoza

Notes: The table shows differences in household savings and individual-level insurance in Diagnoza. Regressions are run at the respondent level using data from the 2015 Diagnoza Survey; standard errors are clustered at the household level. The last column stems from individual-level responses whereas the first columns are based on responses provided by the household head.

[‡] Baseline controls include respondents' gender, age and age² interacted with birth-decade dummies, as well as indicators for rural places and urban counties.

Risk Aversion

Can forced migration affect people's risk preferences and, as a consequence, their educational choices? We can address this question using the Life in Transition Survey (LiTS) 2016 (see Appendix IV.D for a more detail on the LiTS data). LiTS asks respondents about their willingness to take risks on a scale from 1 to 10, where 1 means they are not willing to take risks at all, and 10 means they are very much willing to take risks.

members whereas insurance information comes from individual-level responses and has more missings as a result of nonresponse.

²⁸There is no significant difference for any other purposes of savings: for example, to pay regular fees such as home payments, for purchase/renovation of house or apartment, or for medical treatments.

Column 1 in Table A.20 shows that Poles with Kresy origin in LiTS are somewhat less willing to take risks (but this difference is not statistically significant). If Kresy people have no differential degree of risk aversion (subject to the caveat of the smaller sample size of LiTS), the finding of their higher saving for unexpected events is consistent with a higher perception of the likelihood of risky events. We cautiously interpret this evidence as giving support to the hypothesis that for forced migrants, the possibility of bad events occurring in the future is more salient, so they hold more insurance and precautionary savings.

Columns 2-4 in Table A.20 show that controlling for risk aversion does not affect our main results: When including risk aversion as a control, respondents with an ancestor from Kresy have 0.86 additional years of education (compared with a baseline estimate in the LiTS survey of 0.81 years in Table A.9); they are 15.2 percentage points more likely to complete secondary education and 14.5 percentage points more likely to complete tertiary education (compared to baseline estimates of 15.0 and 13.9 percentage points, respectively, in Table A.9).

Dependent va	Dependent variable: as indicated in table header					
	(1)	(2)	(3)	(4)		
	Willingness to take risk (scale 1-10)	Years of education	Secondary education	Higher education		
Ancestor from Kresy	-0.556 (0.352)	0.855 (0.329)	0.152 (0.037)	0.145 (0.041)		
Willingness to take risk (scale 1-10)		0.119 (0.043)	0.006 (0.008)	0.013 (0.005)		
Baseline controls [‡] Region FE	\checkmark	\checkmark	\checkmark	\checkmark		
Mean Dep. Var.	4.84	12.86	0.31	0.25		
\mathbf{R}^2	0.20	0.26	0.21	0.18		
Observations	1,406	1,406	1,406	1,406		

Table A.20: Education and Risk-Aversion in the 2016 Life in Transition Survey (LiTS)

Notes: The table shows that respondents with Kresy ancestry are marginally less willing to take risk (column 1). The Kresy education effect is robust to controling for the willingness to take risk (columns 2-4). Sample of respondents in Poland. Robust standard errors indicated in parenthesis are clustered at the Primary Sampling Unit (70 clusters). [‡] Baseline controls include respondents' gender, age, age², dummies for six age groups, as well as indicators for WT, rural/urban residence, and rural/urban origin of mother and father.

Discount Factors

Could forced migration make people more patient and thus willing to invest more in education? None of the three surveys that we use has a direct measure of discount rates. A proxy used in some of the economics literature (e.g., Fersterer and Winter-Ebmer, 2003) is smoking behavior, which may reflect higher discount rates. Diagnoza has information on smoking. Table A.21 shows that respondents with Kresy origin are less likely to smoke (i.e., have lower discount rates). We find, however, that our main results are not affected when we control for smoking behaviour of respondents.

Dependent variable: as indicated in table header						
	(1)	(2)	(3)	(4)		
	Smoking (Yes=1)	Years of Education	Secondary Education	Higher Education		
Ancestor from Kresy	-0.035 (0.011)	0.823 (0.081)	0.111 (0.012)	0.091 (0.011)		
Smoking		-0.712 (0.046)	-0.121 (0.008)	-0.105 (0.006)		
Baseline controls [‡]	\checkmark	\checkmark	\checkmark	\checkmark		
Respondent county FE	\checkmark	\checkmark	\checkmark	\checkmark		
Mean Dep. Var. Observations	0.23 22,100	11.98 22,070	0.51 22,063	0.21 22,063		

Table A.21: Education and Smoking (as a Proxy for Discount Rates) in Diagnoza

Notes: The table shows that respondents with Kresy ancestry are less likely to smoke (column 1). The Kresy education effect is robust to controling for smoking (columns 2-4). The table uses data from Diagnoza. Standard errors clustered at the household level in parenthesis.

[‡] Baseline controls include respondents' gender, age, age², dummies for six age groups, as well as indicators for rural places and urban counties.

Valuation of Education per se

Our results are consistent with a higher valuation of education per se. This channel is strongly supported by our results in Table 5, which showed that parents with ancestry from Kresy have higher 'aspiration for education of [their] own children,' even conditional on their own education.

Overall, we conclude that our results are likely driven by a combination of two factors: 1) an increase in the value of education and 2) an increase in the salience of potential negative events occurring in the future.

VII.B Alternative Mechanisms: Additional Results

Congestion—Polish Ancestry of Autochthons

Figure A.15 illustrates that the county-level share of autochthons in the 1950 Polish Census is highly correlated with the share of Polish speakers in the German Census of 1900. The 1900 German Empire Census was the last census in the German Empire that collected information on language spoken at home. Autochthons in the 1950 Polish Census are the people who had lived in the territories that Germany lost to Poland as a result of WWII and were not expelled, as they declared themselves to be Polish. Figure A.15 illustrates that autochthons are indeed largely people with ethnic Polish ancestry. They had German nationality in German censuses of the inter-war period, but were no longer separately identified in German statistics until the Polish Census of 1950 counted them as autochthons.

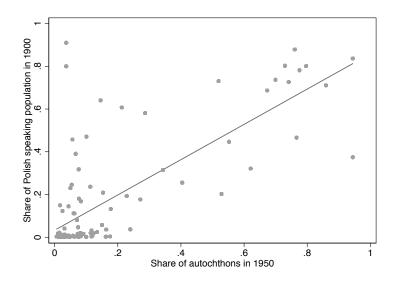


Figure A.15: Two Alternative Measures of the Share of Autochthons across WT Counties

Note: The figure plots the share of Polish speakers in the German Empire Census in 1900 against the share of autochthons in the 1950 Polish Census. The line shows a linear regression with coefficient of 0.83 and a standard error of 0.07; the R^2 is 0.57.

Out-Migration—Intention to Emigrate and Actual Emigration

Figure A.16 plots the self-declared intention to emigrate of Diagnoza respondents in 2015 (collapsed to the regional level) against the share of people who actually emigrated from the same regions according to the 2011 Polish Census. The latter data are available at the regional level. The high correlation shown in the figure suggests that the intention to emigrate measures something meaningful, as in previous years the same regions indeed saw larger realized emigration.²⁹ It supports the validity of the evidence presented in Table 6 in the paper, which shows that the intention to emigrate does not differ for those with Kresy ancestors.

²⁹A linear regression yields a coefficient of 0.65 with a standard error of 0.18 and an R^2 of 0.53.

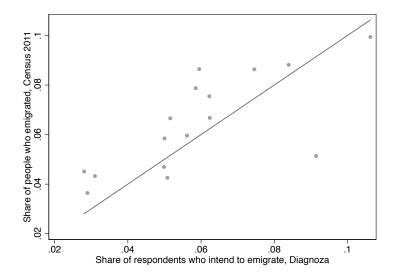


Figure A.16: Stated Intent to Emigrate vs. Emigration Rates

Note: The figure plots the share of respondents who intend to emigrate (Diagnoza 2015) against the share of people who emigrated (from the 2011 Polish Census) at the regional level. The figure also displays a 45-degree line.

Economic Development at Destination

The historical context discussed in Section II. renders a differential effect of economic development on migrants from Kresy unlikely: Opportunities in WT were open to both forced and voluntary migrants, and the Polish government did not treat different groups of migrants differently.

To test systematically whether economic development at destinations matters for our results, we collected data measuring three different aspects of economic development at destination locations: 1) the density of railways in 1946 (at the county level), 2) the intensity of war-time destruction, separately in rural and urban areas in 1945 (county level), and 3) industrial production per capita in 1954 (at the regional level).³⁰ We include interaction terms of these variables (standardized) with the dummy for Kresy origin. The results are presented below in Table A.22. First, we verify that across regions, historical development is related to education. Column 1 includes the measures of development in the set of covariates in our baseline regression with Diagnoza data. We do not include county fixed effects for now, so that the relationship between economic proxies and

³⁰For railway density, we digitized the historical map of the Polish railway system in 1946. Source of the map: http://maps.mapywig.org/m/Polish_maps/various/Small_scale_maps/MAPA_SIECI_KOLEJOWEJ_RP_1M_1946.jpg (accessed on July 4, 2019). We then used this map to build a measure of railway density by county equal to the number of railway stations per square kilometer in 1946. For war destruction, we digitized administrative data by county on the extent of war-related destruction for rural and urban areas. For rural areas the variable reported by the authorities is the percent of rural buildings affected or destroyed (out of rural buildings available in 1939), and for urban areas, the variable is the percent of volume (in cubic meters) of real estate destroyed in WWII out or all available in 1939. The source of these data is: *Zniszczenia wojenne w zabudowie miast i wsi wg stanu w dniu 1 V 1945.* 1967. Warszawa: Glowny Urzad Statystyczny. For industrial production per capita in 1954 (at the regional level), we use the statistical yearbook of that year.

education can be estimated. Railway density in 1946 (Panel A) and industrial production in 1954 (Panel B) are both strongly positively related to education. We also find that the extent of war destruction in rural areas (Panel C) is negatively correlated with education levels in the long run. The opposite holds for war destruction in urban areas (Panel D). Possible explanations are that economically more important cities (with higher skill demand today) were destroyed more during WWII and recovered their original importance after the war.³¹ Importantly, none of these measures affect the relationship between Kresy origin and education. This is not surprising given that in our baseline specification, we control for the local environment at destinations by using county or municipality fixed effects.

In columns 2-5 of Table A.22, we include county fixed effects and focus on the *interaction* between Kresy origin and the level of development at destinations. We find no significant differential effect in any specification in the full sample (column 2). Also, the interaction terms are quantitatively small—at least an order of magnitude below the Kresy coefficient.³² The same is true for Central Poland (column 3), with the exception of railway density. This is driven by Warsaw with its very dense railway network—the interaction coefficient becomes insignificant in column 4, where we exclude the capital. Finally, we confirm the results in column 5, where we only look at WT.

Overall, we do not find a tangible differential effect of the history of forced migration depending on the level of development at the destination location. It is thus unlikely that our findings are merely the result of being displaced from a relatively poor (Kresy) to a relatively rich place (WT). Note also that we observe a very similar Kresy effect in CP (which was also relatively poor) in column 3 and in WT (column 5). This further supports the view that our results hold independent of economic development at the destination. We are thus confident about the external validity in other contexts, e.g., where migrants are displaced into equally or even less developed areas.

³¹Davis and Weinstein (2002), Waldinger (2016) and others show that cities rebounce quickly after wars.

³²Note that all proxies for development are standardized, allowing for a straightforward interpretation of the interaction coefficients: A one standard deviation change in the various development proxies is associated with only minor changes in the coefficient on Kresy ancestry.

	(1)	(2)	(3)	(4)	(5)
Sample:	All Poland	All Poland	CP	CP w/o Warsaw	WT
Panel A: Density of railw	avs stations b	v county (194	6)		
Ancestor from Kresy	0.848	0.780	0.866	0.855	0.734
	(0.073)	(0.078)	(0.114)	(0.116)	(0.110)
Railway station density 1946 (std)	0.167 (0.033)				
Railway station density 1946 (std) X Kresy		0.094 (0.067)	0.175 (0.082)	0.135 (0.102)	-0.062 (0.116)
Baseline controls [‡]	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Respondent county FE		\checkmark	\checkmark	\checkmark	\checkmark
Mean Dep. Var.	11.91	11.91	11.94	11.85	11.83
Observations	28,176	28,176	21,121	20,515	7,055
Panel B: Log industrial produ					0
Ancestor from Kresy	0.864 (0.073)	0.810 (0.075)	0.932 (0.111)	0.884 (0.118)	0.709 (0.104)
Log Industrial Production per capita 1954 (std)	0.044 (0.022)				
Log Industrial Production per capita 1954 (std) X Kresy		0.060 (0.075)	0.130 (0.097)	0.085 (0.103)	-0.013 (0.121)
Baseline controls [‡]	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Respondent county FE		\checkmark	\checkmark	\checkmark	\checkmark
Mean Dep. Var. Observations	11.91 28,176	11.91 28,176	11.94 21,121	11.85 20,515	11.83 7,055
Panel C: Percent of rural buildings damag	ed or destroye	d during WW	'II by cour	ıty (1945)	
Ancestor from Kresy	0.704	0.686	0.660	0.660	0.694
	(0.086)	(0.092)	(0.138)	(0.138)	(0.124)
% rural buildings damg'd or destr'd in WWII (std)	-0.061 (0.025)				
% rural buildings damg'd or destr'd in WWII (std) X Kresy		-0.037 (0.084)	-0.080 (0.135)	-0.080 (0.135)	-0.015 (0.107)
Baseline controls [‡]	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Respondent county FE		\checkmark	\checkmark	\checkmark	\checkmark
Mean Dep. Var. Observations	11.60 19,832	11.60 19,832	11.64 15,018	11.64 15,018	11.46 4,814
Panel D: Percent of urban real estate (in m^3) do	amaged or des	troyed during	g WWII by	v county (1945)	
Ancestor from Kresy	0.768 (0.078)	0.743 (0.080)	0.765 (0.125)	0.765 (0.125)	0.723 (0.104)
% urban real est. damg'd or destr'd in WWII (std)	0.126 (0.030)				
% urban real est. damg'd or destr'd in WWII (std) X Kresy		-0.019 (0.067)	0.138 (0.155)	0.138 (0.155)	-0.046 (0.073)
Baseline controls [‡]	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Respondent county FE		\checkmark	\checkmark	\checkmark	\checkmark
Respondent county TE					

Table A.22: Economic Development at Destination Locations

Notes: The table uses data from Diagnoza. Standard errors clustered at the household level in parenthesis. [‡] Baseline controls include respondents' gender, age, age², dummies for six age groups, as well as indicators for rural places and urban counties.

Moving as communities

Table A.23 investigates whether migrants from Kresy tended to move more (or less) together with people from their origin location, as compared to migrants from CP. We compute, for each municipality in WT, the number of ancestors in our Ancestry Survey who are from the same county of origin. We refer to this measure as the 'size of the local ancestor community.' This is likely to be a noisy measure, as it is based on a count within our survey alone. Note also that this number will mechanically tend to be larger in municipalities for which we have a higher number of ancestors in our sample. We thus control—for each municipality—for the total ancestors in the sample.

Table A.23 checks whether the size of local ancestor community is related to the Kresy origin of migrants, and whether our results are robust to controlling for this measure. Column 1 shows that there is no relationship between Kresy origin and the size of local ancestor communities. In other words, Kresy migrants are not more (or less) likely to live in municipalities with many migrants from the same origin. In column 2, we show that our main result from specification (2) also holds in the subsample for which we can construct the size of the local ancestor community.³³ In column 3, we use the size of the local ancestor community as a control, showing that the relationship between Kresy origin and educational attainment is essentially unchanged. Finally, columns 4 and 5 show that our results for secondary and higher education are also robust to controlling for the size of the local ancestor community. Overall, Table A.23 suggests that our results are unlikely to be driven by variation in the size of the local community of people with common origin.

Other Population Movements

Table A.24 investigates whether other population movements—of other minorities or of later waves of migration from Kresy—affect our results. As noted in Section II.B., Poles from Kresy were forced to resettle within the new Poland. On the other hand, Ukrainians, Belorussians, and Lithuanians had to leave Poland and resettle in the USSR. Gawryszewski (2005) gives the number of Ukrainians expelled from Poland during 1945 and 1946. Ukrainians were by far the largest group accounting for more than 90% of all those expelled from Poland (see Eberhardt, 2000, pp. 57-58). We compute the share of expelled Ukrainians in the total population by county (powiat).³⁴ There were only 20 counties from which people were forced to move to the USSR—all located in Central Poland. Column 1 in Table A.24 shows that our Diagnoza results are robust to excluding these counties from the sample. In column 2, we use the full sample and interact Kresy origin with the share of local population forced to move to the USSR. The coefficient on the interaction term is small and statistically insignificant.

Another potential concern is that our results might differ between the main wave of Kresy mi-

³³The smaller sample is explained by two factors: First, to construct the size of the local ancestor community, we can only use data from our representative sample in the Ancestry Survey (see Section III.B. and in particular footnote 14 in the paper). We need to exclude the oversample of people with Kresy ancestors to avoid that the community size from Kresy is overestimated. Second, we only compute the size of the local ancestor community for migrants from Kresy and Central Poland. We exclude ancestors from WT because these are autochthons, while the focus here is on *migrant* communities. In addition, we exclude ancestors from abroad because the community variable is undefined for them.

³⁴The source of these data is the provisional ("summary") 1946 Polish census. This census cannot be used to measure population movements from Kresy, because they were not completed by 1946. However, the 1946 census is the only source containing county-level information for groups that were expelled from Poland.

- · F							
	(1)	(2)	(3)	(4)	(5)		
Dep. Var.:	Size of local	Years of	education	Secondary	Higher		
	ancestor community#			education	education		
Ancestor from Kresy	-0.026	0.421	0.421	0.052	0.031		
	(0.257)	(0.113)	(0.112)	(0.019)	(0.017)		
Size of ancestor community#			-0.040	-0.008	-0.004		
			(0.019)	(0.003)	(0.003)		
Total ancestors in sample	0.011		-0.002	0.000	-0.000		
	(0.001)		(0.001)	(0.000)	(0.000)		
Baseline controls [‡]	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
Ancestor controls [†]	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
Respondent county FE	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
Mean Dep. Var.	2.52	13.12	13.12	0.57	0.28		
\mathbb{R}^2	0.25	0.31	0.31	0.23	0.25		
Observations	7,093	7,093	7,093	7,093	7,093		

Table A.23: Size of Ancestor Communities in each Municipality: Ancestor-Level Data

Notes: The table uses data from our Ancestry Survey. Regressions are run at the ancestor level; robust standard errors clustered at the municipality level in parenthesis.

[‡] Baseline controls include respondents' gender, age, age², dummies for six age groups, as well as indicators for rural places and urban counties.

[†] Ancestor controls include indicators for ancestors from WT and from abroad, as well as indicators for the ancestor generation. Excluded category is ancestors from Central Poland.

 $^{\#}$ This variable is constructed for each municipality in our Ancestry Survey sample. It measures the total number of ancestors who came from the same county of origin.

gration (until 1950) and the so-called second repatriation of Poles from the USSR in 1955-1959, when Poles still remaining in Kresy were forced to move. We generate the share of Kresy migrants who came during the second wave of migration among all Kresy migrants, at the level of region (voivodship), as reported in Hryciuk (2008, p.101).³⁵ This second and final wave of expulsion makes up only 10.6% of total migration from Kresy. In column 3, we interact this variable with the individual Kresy origin dummy and show that it is quantitatively small and statistically insignificant. Thus, the second wave of migration did not have a significantly different effect on education than the first (main) wave after WWII.

VII.C Recall Bias: Missing Information about Ancestor Origin Locations

Table A.25 examines the role of missing information about ancestors in our 2016 Ancestry Survey in the Western Territories. We compute the share of ancestors with missing information as follows for each respondent: Let $N_a(i)$ be the number of ancestors for whom respondent *i* reported the location of origin. Remember that our Ancestry Survey asked for information about the generation

³⁵As we discussed earlier, expulsions from Kresy in the immediate aftermath of WWII were nearly universal in urban areas and in the Ukrainian SSR, but not necessarily in rural areas. Kresy migrants in the second repatriation arrived mainly from these rural areas.

Table A.24: Further	population movements:	Diagnoza Data
---------------------	-----------------------	---------------

	(1)	(2)	(3)	
Dep. Var.:	Years of education			
Sample:	Counties without			
	expulsion of Ukrainians	All co	ounties	
Ancestor from Kresy	0.839	0.823	0.819	
	(0.077)	(0.075)	(0.074)	
Share Ukrainians expelled (std) x Kresy		-0.052		
		(0.051)		
Share 1955-59 migrants among Kresy migrants (std) x Kresy			0.075	
			(0.078)	
Baseline controls [‡]	\checkmark	\checkmark	\checkmark	
Respondent county FE	\checkmark	\checkmark	\checkmark	
Mean Dep. Var.	11.96	11.91	11.91	
Observations	26,306	28,176	28,028	

Dependent variable: as indicated in column header

Notes: The table uses data from Diagnoza. Standard errors clustered at the household level in parenthesis.

[‡] Baseline controls include respondents' gender, age, age², dummies for six age groups, as well as indicators for rural places and urban counties.

of ancestors who were the youngest adults in the respondent's family in 1939. For this generation, let $N_{max}(i)$ denote the maximum possible number of ancestors (e.g., $N_{max}(i) = 4$ for the grand-parent generation). Then, the share of *i*'s ancestors for whom information is missing is given by $1 - N_a(i)/N_{max}(i)$.

Column 1 in Table A.25 shows that missing information on ancestors is unrelated to Kresy origin in our baseline Ancestry Survey regression (which is run at the respondent level—see column 2, Panel A, in Table 3 in the paper). More specifically, the excluded category in this regression is the share of ancestors from CP. Thus, the zero coefficient on the share of Kresy ancestors means that respondents with ancestors from Kresy are just as likely as those with ancestors from CP to remember their ancestors. This makes it unlikely that any of our results are confounded by missing information on ancestors. Note also that the mean of the dependent variable in column 1 is 0.09. That is, the share of ancestors with missing information is 9% among those respondents who report the location of at least one ancestor. (These respondents constitute 95% of the total Ancestry Survey sample, with the remaining 5% not reporting the locations of origin of any of their ancestors.) Finally, the coefficient on the share of ancestors from WT in column 1 is negative and significant, meaning that respondents are more likely to remember the location of their ancestors in WT. This is not surprising, given that our survey was conducted in WT.

In the remaining columns in Table A.25, we use our education measures as outcome variables. Column 2 shows that there is a significantly negative relationship between years of education and the share of missing ancestor information. This is what one would expect: More educated respondents tend to be better informed about their ancestors. Columns 3-5 replicate the specification from columns 3, 7, and 8 in Panel A of Table 3 in the paper, adding the share of missing ancestor

information as an additional control. The coefficients on the share of Kresy ancestors are literally unchanged. Thus, missing information about ancestor origin locations does not confound our results. This is also true when we use weights to accout for over-sampling of Kresy respondents, as can be seen in A.26.

	(1)	(2)	(3)	(4)	(5)
Dep. Var.:	Share missing	Years of	education	Secondary	Higher
	ancestor info †			education	education
Share of ancestors, Kresy	-0.004		0.746	0.104	0.053
	(0.008)		(0.125)	(0.020)	(0.017)
Share of ancestors, WT	-0.041		-1.025	-0.176	-0.134
	(0.014)		(0.179)	(0.029)	(0.023)
Share of ancestors, abroad	-0.098		-0.696	-0.020	-0.050
	(0.033)		(0.629)	(0.099)	(0.091)
Share of ancestors, rural	0.002		-0.834	-0.107	-0.071
	(0.008)		(0.135)	(0.021)	(0.019)
Share missing ancestor info ^{\dagger}		-0.882	-0.969	-0.166	-0.125
-		(0.243)	(0.244)	(0.043)	(0.036)
Baseline controls [‡]	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Respondent county FE	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Mean Dep. Var.	0.09	12.72	12.72	0.52	0.23
\mathbb{R}^2	0.22	0.25	0.28	0.21	0.20
Observations	3,661	3,661	3,661	3,661	3,661

 Table A.25: Accounting for Missing Ancestor Information in the Ancestry Survey

Dependent variable: as indicated in column header

Notes: The table examines the role of missing information about ancestors in our 2016 Ancestry Survey in the Western Territories. Columns 3-5 replicate the specification from columns 2, 5, and 6 in Panel A of Table 3 in the paper, adding the share of missing ancestor information as an additional control. Regressions are run at the respondent level; robust standard errors in parenthesis.

[†] For each respondent, the share of ancestors with missing information is computed specific to the generation of ancestors who were the youngest adults in the respondent's family in 1939. For example, if those were the grandparents, and the historical location for three out of four grandparent is known, then the share missing is 0.25.

[‡] Baseline controls include respondents' gender, age and age² interacted with birth-decade dummies, as well as indicators for respondents living in rural locations and urban counties.

Table A.26: Accounting for Missing Ancestor Information in the Ancestry Survey - Using Sampling Weights

	int variable. as inv				
	(1)	(2)	(3)	(4)	(5)
Dep. Var.:	Share missing	Years of	education	Secondary	Higher
	ancestor info [†]			education	education
Share of ancestors, Kresy	0.002		0.810	0.111	0.067
	(0.010)		(0.137)	(0.021)	(0.017)
Share of ancestors, WT	-0.056		-1.052	-0.169	-0.136
	(0.016)		(0.189)	(0.031)	(0.023)
Share of ancestors, abroad	-0.105		-1.181	-0.048	0.002
	(0.040)		(0.835)	(0.109)	(0.096)
Share of ancestors, rural	0.003		-0.462	-0.058	-0.034
	(0.011)		(0.159)	(0.024)	(0.019)
Share missing ancestor info †		-0.606	-0.782	-0.129	-0.104
		(0.273)	(0.271)	(0.047)	(0.038)
Baseline controls [‡]	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Respondent county FE	\checkmark	 ✓ 	\checkmark	\checkmark	\checkmark
Mean Dep. Var.	0.12	12.45	12.45	0.47	0.22
\mathbb{R}^2	0.22	0.28	0.30	0.21	0.22
Observations	3,661	3,661	3,661	3,661	3,661

Dependent variable: as indicated in column header

Notes: The table examines the role of missing information about ancestors in our 2016 Ancestry Survey in the Western Territories. Columns 3-5 replicate the specification from columns 2, 5, and 6 in Panel A of Table 3 in the paper, adding the share of missing ancestor information as an additional control. Regressions are run at the respondent level; robust standard errors in parenthesis.

[†] For each respondent, the share of ancestors with missing information is computed specific to the generation of ancestors who were the youngest adults in the respondent's family in 1939. For example, if those were the grandparents, and the historical location for three out of four grandparent is known, then the share missing is 0.25.

[‡] Baseline controls include respondents' gender, age and age² interacted with birth-decade dummies, as well as indicators for respondents living in rural locations and urban counties.

References

- Buvinic, M., M. D. Gupta, and O. N. Shemyakina (2014). Armed conflict, gender, and schooling. *World Bank Economic Review* 28(2), 311–319.
- Cienciala, A. M., N. S. Lebedeva, and W. Materski (2008). *Katyn: A Crime Without Punishment*. Yale University Press.
- Davis, D. R. and D. E. Weinstein (2002). Bones, Bombs, and Break Points: The Geography of Economic Activity. *American Economic Review* 92(5), 957–970.
- Dell, M. (2010). The Persistent Effects of Peru's Mining Mita. Econometrica 78(6), 1863-1903.
- Dohmen, T., A. Falk, D. Huffman, and U. Sunde (2012). The Intergenerational Transmission of Risk and Trust Attitudes. *Review of Economic Studies* 79(2), 645–677.
- Eberhardt, P. (2000). Przemieszczenia Ludnosci na Terytorium Polski Spowodowane ii Wojns Swiatowa. Warszawa: IGiPW PAN.
- Fersterer, J. and R. Winter-Ebmer (2003). Smoking, Discount Rates, and Returns to Education. *Economics* of Education Review 22, 561–566.
- Gawryszewski, A. (2005). Ludnosc Polski w XX wieku. Warszawa: IGIPZ PAN.
- Gelman, A. and G. Imbens (2014). Why High-order Polynomials Should not be Used in Regression Discontinuity Designs. NBER Working Paper 20405.
- Hryciuk, G. (2008). Wysiedlenia, wypedzenia i ucieczki 1939-1945. Atlas ziem polskich. Demart.
- Ichino, A. and R. Winter-Ebmer (2004). The Long-Run Educational Cost of World War II. *Journal of Labor Economics* 22(1), 57–86.
- Semrad, A. (2015). Immigration and Educational Spillovers: Evidence from Sudeten German Expellees in Post-War Bavaria. Munich Discussion Paper No. 2015-7.
- Turnau, I. (1960). Studia nad strukturą ludnościową polskiego Wrocławia. Poznań: Instytut Zachodni.
- Waldinger, F. (2016). Bombs, Brains, and Science: The Role of Human and Physical Capital for the Creation of Scientific Knowledge. *The Review of Economics and Statistics* 98(5), 811–831.

Quick Guide to Identification and Mechanisms

The following is a brief guide to identification concerns as well as to potential mechanisms and potential alternative explanations behind the main result in the paper. We start with a table that summarizes identification concerns. After that, we present a table that summarizes historical and empirical evidence for the most likely mechanism behind our finding. We then present a further table that discusses our proposed mechanism, as well as alternative mechanisms, together with historical and empirical evidence that renders these alternative mechanisms unlikely.

Identification Concerns: 1. Pre-Existing Differences People from Kresy may have had higher education or different preferences for education already before WWII, or characteristics of ancestral place of origin or differential experiences during WWII could have led to heterogeneous education responses to migration.		
H: Section II.A.	Same access to education for Poles in Kresy and CP before WWII (it was the same country). Also, no discrimination against Poles in Kresy.	
E : Figure 3 and col- umn 1 in Table A.3	No difference in education for Kresy migrants among the pre-1930 cohort (that had finished schooling by the time of expulsions).	
E: Figure 4 and Table A.10	RDD along the Kresy border (note that this border was arbitrarily drawn—see Section II.A. under heading "Arbitrariness of the Kresy border of 1945"). Diagnoza Survey: i) No difference in pre-WWII education along Kresy border. ii) Kresy descendants are more educated than descendants of inhabitants (" <i>stayers</i> ") to the West of the Kresy border. The remaining possibility is that "stayers" were negatively selected. This is addressed by Figure 5 (see next point).	
E: Figure 5 and Table A.11	RDD along the Kresy border. Ancestry Survey: Comparing individuals within municipalities in WT. Kresy descendants are more educated than descendants of <i>movers</i> from the area to the West of the Kresy border. In combination, Figures 4 and 5 make it unlikely that selection drove our results.*	
E: Figure A.14 and Ta- ble A.12	Our main result holds even when restricting the sample to counties that fell into the contested area of the Kresy border and could thus have either become part of Poland or of the Soviet Union. See Appendix V.D.*	
E: Tables A.13 & A.14	<i>Socio-Economic and Geographic Characteristics</i> Pre-existing differences at ancestral county of origin might lead to differential education benefits from being forcefully moved. Interaction terms of Kresy origin with county-level characteristics of ancestral place of origin are statistically not significant and have small coefficient sizes. That is, the Kresy education effect does not vary with location characteristics.	
E: Table A.15	<i>Differential War Exposure or Victimization?</i> While Kresy ancestors were more likely to have been victimized during WWII, controlling for a family history of victimization does not affect our results.	

* Note: This point holds unless one reverts to the following (unlikely) explanation—a mix between a story of pre-existing skills and selection: Outmigration from the area in CP to the West of the Kresy border could have been such that i) unskilled migrants moved to WT; ii) skilled migrants moved to other places in CP. Point i) would explain Figure 5. Also, if flow ii) was large, the stayers to the West of the Kresy border would be less educated, explaining Figure 4. Note that (in addition to the purely speculative presumption about skill-biased migration, which cannot be examined in the data and for which there is no historical evidence), this would require a larger outflow from the area to the West of the Kresy border to CP than to WT (only this would yield relatively less educated stayers). To check this, we use the 1950 Census and examine outmigration from Polish regions (*voivodeships*) next to the Kresy border (to its West) to other regions in CP and in WT. We find that the overall flow from the area to the West of the Kresy border to CP was 4.6%, while the outflow to WT was 14.7%. Thus, the overall flow from the area to the West of the Kresy border to CP was much *smaller* (less than one-third) than the flow to WT. Consequently, the alternative interpretation outlined at the beginning of this note is not compatible with the data.

Identification Concerns: 2. Selection People from either Kresy or from other parts of the country differentially selected into specific locations or occupations.		
H: Section II. E: Table	<i>Selection into migration from Kresy?</i> The historical narrative clearly speaks against selection out of Kresy: The vast majority of ethnic Poles in Kresy had no choice but to leave Kresy. This is particularly true for urban areas and for Ukraine. In Table 4, we confirm that our results hold equally in urban vs. rural areas and in the subset of the Ukrainian part of Kresy.	
E: Tables 1, 2 & A.16	<i>Selection of Kresy migrants into WT vs. CP?</i> Three quarters of Kresy migrants moved to WT and one quarter to CP (Table 1). Did the most able Kresy migrants move to WT, explaining why Kresy migrants in WT are more educated? The answer is 'no:' Table 2 (columns 5 and 6) show that the coefficients on Kresy ancestry are, if anything, larger in CP than in WT. Table A.16 performs an additional check, showing that respondents with Kresy origin are somewhat <i>less</i> educated in WT than in CP. This confirms that, if anything, our results for WT are a lower bound on the effect of Kresy origin.	
E: Tables A.17 and A.18	Selection of voluntary migrants from CP to WT? First, note that this type of selection would not affect our results for Poland overall (Table 2). We present two analyses, showing that both <i>regional</i> and <i>individual</i> selection of voluntary migrants is unlikely to affect our results within WT (i.e., from our Ancestry Survey). On regional selection, see Table A.17, and on individual selection, see Table A.18 and the corresponding description in the appendix text. For both, we find that if anything, the evidence points to <i>positive selection</i> of voluntary migrants from CP, which would imply <i>smaller</i> effects of Kresy origin.	

Most Likely Mechanism: Our empirical findings suggest that our main result is driven by a shift in preferences from investing in physical possessions towards investment in human capital, as a consequence of the loss of physical belongings during the expulsion ('uprootedness hypothesis'). Type of evidence: Description of Evidence Historical/Empirical H: Introduction Memoirs written by Kresy migrants in WT in the 1950s suggest a change in preferences towards education in the aftermath of forced migration, for example: "In Western Territories, there was a specific situation. People did not attach great importance to material wealth. ... In a new life situation, the cult of new values emerged, i.e., values that are indestructible, that cannot be lost, and that die with the man—the cult of knowledge, of skills, which can resist cataclysms." This is also supported by interviews with descendants of forced migrants, e.g., with the former president Komorowski who stated: "At home, nobody attached any importance to the material side, because everything that was valuable had been lost." H/E: Section II.C. / We provide several quotes illustrating the change in preferences associated with forced Additional evidence migration in Section II.C. In addition, historical evidence collected by sociologist Irena Turnau suggests an immediate shift towards higher school enrolment among children of Kresy migrants after the expulsion. Turnau (1960, pp. 31-33) assembled data on schooling in Wroclaw assembled data on schooling in Wrocław (the former German Breslau) in 1948. She found that children of Kresy migrants were over-represented among secondary school students, and even more so among students in higher education. Cohort-specific empirical evidence shows that this immediate shift is also true for ed-E: Figure 3 and Table A.3 ucational attainment: The education effect is not present for forced migrants who had completed schooling before they were forced to migrate; while it is present for children of forced migrants who had the chance to complete education after migration. E: Table 5 Evidence from the large-scale Diagnoza Survey shows that descendants of forced migrants value material goods less, while having a stronger aspiration for education of their children. They also possess fewer physical assets, relative to the number of physical assets they can afford. These results hold even when controlling for the level of education of the individual respondents, suggesting that different *preferences* among Kresy descendants drive the results (as opposed to Kresy descendants' higher own education explaining their aspiration for their children's education). E: Appendix VII.A The shift in preferences in Table 5 could be founded on a number of underlying reasons: a shift in the subjective probability individuals attach to being forced to migrate in the future; an increase in the subjective probability that bad things may happen, so that education serves as insurance; a shift in the willingness to take risks; a shift in discount rates; and a shift in the valuation of education per se. We discuss those in Appendix VII.1. Overall, we conclude that our results are likely driven by a combination of two factors: 1) an increase in the value of education and 2) an increase in the salience of potential negative events occurring in the future. Literature: Introduc-Our preferred interpretation of the results is consistent with a robust body of existing evidence that describes how individual preferences change in response to exposure to tion violence, natural disasters, or economic shocks. Recent evidence suggests that these effects persist in future generations. We cite over a dozen related publications.

Alternative Mechanisms (Part I)		
Type of evidence: Historical/Empirical	Description of Evidence	
H: Section II.B.	<i>Differential access at destination</i> : The historical narrative is clear: in WT, there was equal access to education, land, houses, and productive assets for Poles from Kresy and CP. There was neither affirmative action for Kresy people nor discrimination against them.	
E: Table 6	<i>Differential congestion</i> : Locations in WT with a higher share of autochthons might generate congestion that limits access to assets. However, Table 6 suggests that there is no differential effect of such potential congestion on education of Kresy migrants. Underlying this finding is the fact that Kresy migrants were not systematically resettled to areas in WT with more/fewer autochthons.	
E: Figure A.6	<i>Differences in time of arrival in WT generating differences in access to assets</i> : Voluntary migrants from CP were closer to WT and might have grabbed the best opportunities before Kresy migrants arrived. This would be a story of congestion for Kresy migrants because of fast-moving CP migrants. However, Figure A.6 suggests that CP and Kresy migrants arrived into WT in parallel throughout.	
E: various tables: lo- cation fixed effects	<i>Differential assignment to locations</i> : We routinely use county fixed effects or even municipality fixed effects, i.e., we compare survey respondents within the same location. If different groups of migrants were assigned differently to different locations, our within-location comparison removes such worry.	
E: Tables 2 and A.18	<i>Differential assignment within locations</i> : Voluntary migrants may have been attracted by the promise that they would receive land, potentially making it more likely that they were given land and thus worked in agriculture within destination locations. This is unlikely, given that our results hold within the subsample of urban locations. In urban municipalities, the share of farmers among all occupations is smaller than 1%.	
E: Table 6	<i>Differential returns to schooling</i> : Maybe Kresy migrants got different returns to schooling, giving them extra incentives to acquire more education? The answer is 'no.' We do not find evidence for different returns to schooling for descendants of Kresy migrants.	

Alternative Mechanisms (Part II)		
Type of evidence: Historical/Empirical	Description of Evidence	
E: Table 6	<i>Differential out-migration</i> : If uneducated people with Kresy origin (or educated people without Kresy origin) were more likely to leave Poland, then this could bias the coefficient on Kresy upwards. We find no differential rates of out-migration.	
E: Table 6	<i>Differential fertility</i> : Kresy migrants may have chosen lower fertility to remain more flexible in an environment that they perceived as highly volatile. Fewer offspring could then have enabled higher investment in each child's human capital. This is not the case: Fertility is uncorrelated with Kresy origin.	
E: Table A.22	<i>Economic Development at Destination Locations</i> : The ex-German territories were more developed than Kresy before WWII. Did Kresy migrants benefit differentially more from moving to 'better places'? We find no evidence for such a mechanism—the Kresy effect does not vary with development at destinations.	
E: Table A.23	<i>Moving as Communities</i> : Kresy migrants might be more likely to have moved in groups from the same location of origin. If moving in groups was beneficial to their descendants' education, this may have reinforced the education effect. However, we do not find such effects.	
E: Table A.24	<i>Other Population Movements</i> : Not only were Poles expelled from Kresy, but also Ukrainian and Belorussian minority groups were expelled from Poland to the USSR. Controlling for this does not affect our results.	
E: Table A.25	<i>Recall Bias: Missing Information About Ancestor Origin Locations</i> : More educated respondents may have more information on the location of origin of their ancestors. However, i) the share of ancestors with missing information is uncorrelated with Kresy origin, and ii) controlling for this share does not affect our results.	