The Intergenerational Transmission of World War I on Female Labour

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Online Appendix

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A. Supplementary Figures and Tables

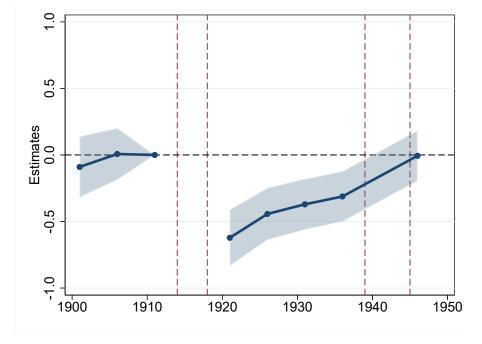


Figure A.1. The Effect of WWI Military Death Rates on Adult Sex Ratios

Notes: This figure displays coefficients from estimating the following difference-in-differences specification on county-level census data between 1901 and 1946, where 1911 was the last census conducted before the war: $\mathtt{sex_ratio}_{a,d,t} = \sum_{\tau \neq 1911} \beta_{\tau} \mathtt{death_rate}_{a,d} \times \mathtt{year}_{\tau} + \gamma_d + \delta_t + \mu_a + \varepsilon_{a,d,t}$, where $\mathtt{sex_ratio}_{a,d,t}$ denotes the sex ratio among age group *a* in county *d* and year *t* in percentage points, and \mathtt{year}_{τ} , a set of indicator variables for each year between 1901 and 1946. This specification also includes fixed effects μ_a for age groups 20–29, 30–39, and 40–49, as well as county fixed effects, γ_d , and year fixed effects, δ_t . Standard errors are clustered at the county and year level through two-way clustering. Shaded areas represent 95% confidence intervals.

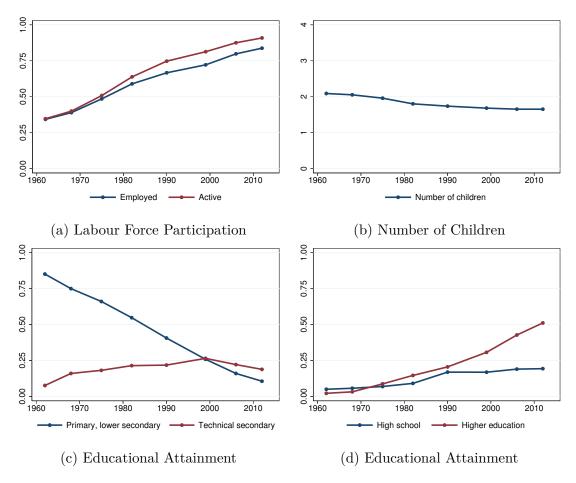


Figure A.2. Labour, Fertility, and Education Outcomes Across Censuses

Notes: This figure reports means of labour, fertility, and education outcomes across censuses 1962–2012. The sample consists of internal migrant married women aged 30 to 49. Means are computed using sample weights provided in the censuses. *Employed* and *Active* are indicator variables for whether the respondent is working or in the labour force, respectively. *Number of children* corresponds to the number of children of the respondent's family in the household. *Educational attainment* corresponds to indicator variables for the highest diploma obtained.

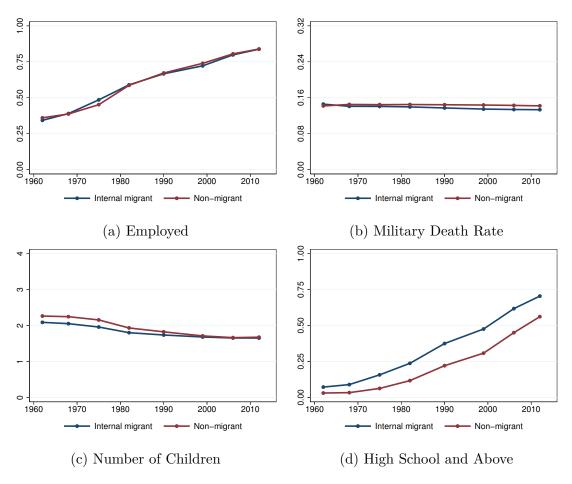


Figure A.3. Observable Characteristics Across Migration Status

Notes: This figure reports the means of various observable characteristics across migration status in the censuses 1962–2012 among internal migrant and non-migrant married women aged 30 to 49. *Employed* is an indicator variables for whether the respondent is working. *Number of children* corresponds to the number of children of the respondent's family in the household. *High School and Above* corresponds to an indicator variable for whether the respondent achieved at least high school. Means are computed using sample weights provided in the censuses.

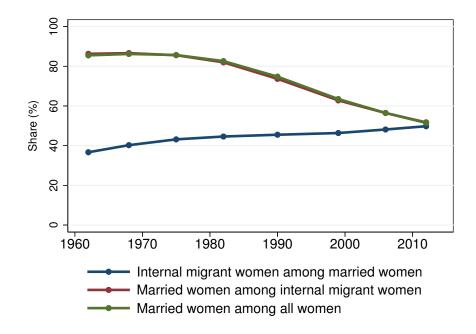


Figure A.4. Internal Migrant and Married Women Aged 30 to 49 Across Censuses

Notes: The blue line displays the share of internal migrant women among all French married women born in France, aged 30 to 49. The red line displays the share of women married to a French husband born in France among all French internal migrant women born in France, aged 30 to 49, and residing in France. The green line displays the share of women married to a French husband born in France among all French women born in France, aged 30 to 49, and residing in France.

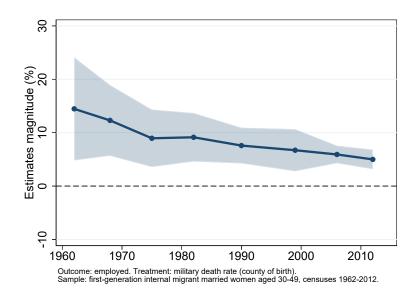


Figure A.5. The Effect of WWI Military Death Rates on Female Labour Force Participation Across Counties of Birth and Within Counties of Residence

Notes: This figure reports the magnitude of the coefficients from panel b of Figure 4 with respect to the outcome mean. It is the share of the mean in the dependent variable explained by switching from being born in a county that experienced military death rates of 20% rather than 10%.

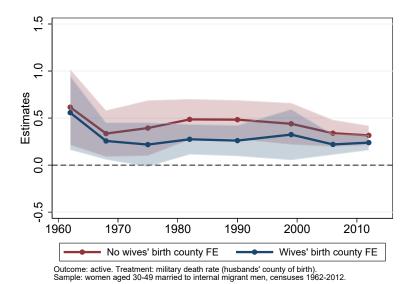


Figure A.6. The Effect of Husbands' Birth County Military Death Rates on Their Wives' Labour Force Participation

Notes: This figure displays OLS coefficients from estimating Equation 5 along with 95% confidence intervals on the sample of women aged 30 to 49 that are married to internal migrant men in the censuses 1962–2012. They result from regressing an active indicator on the military death rate of respondents' husbands' counties of birth, along with county-level pre-war controls and cohort by wives' county of birth by county of residence fixed effects. Estimates are computed using sample weights provided in the censuses. Standard errors are clustered at the level of counties of residence and birth.

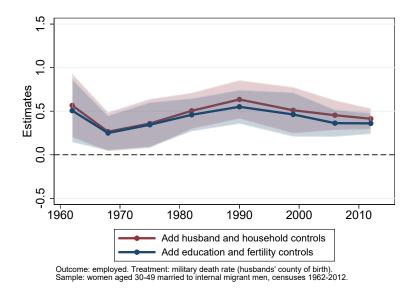


Figure A.7. The Effect of Husbands' Birth County Military Death Rates on Their Wives' Labour Force Participation

Notes: This figure displays OLS coefficients from estimating Equation 5 along with 95% confidence intervals on the sample of women aged 30 to 49 that are married to internal migrant men in the censuses 1962–2012. They result from regressing an active indicator on the military death rate of respondents' husbands' counties of birth, along with county-level pre-war controls and cohort by wives' county of birth by county of residence fixed effects. Husband and household controls include husbands' incomes, ages, age squared, education, an indicator for home ownership, and the number of rooms in the home. Education controls consist of indicators for educational attainment. Fertility consists in the number of children in the home. Estimates are computed using sample weights provided in the censuses. Standard errors are clustered at the level of counties of residence and birth.

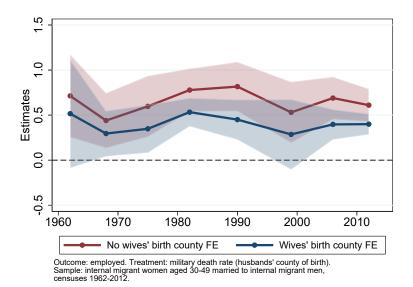


Figure A.8. The Effect of Husbands' Birth County Military Death Rates on Their Wives' Labour Force Participation

Notes: This figure displays OLS coefficients from estimating Equation 5 along with 95% confidence intervals on the sample of internal migrant women aged 30 to 49 that are married to internal migrant men in the censuses 1962–2012. They result from regressing an employed indicator on the military death rate of respondents' husbands' counties of birth, along with county-level prewar controls and cohort by wives' county of birth by county of residence fixed effects. Estimates are computed using sample weights provided in the censuses. Standard errors are clustered at the level of counties of residence and birth.

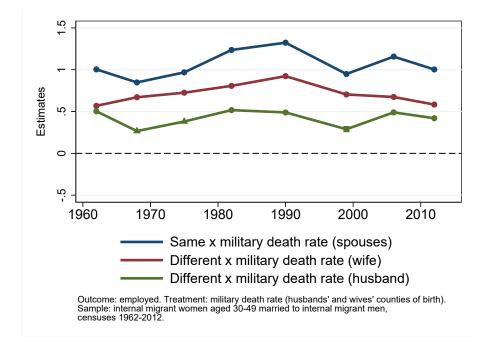
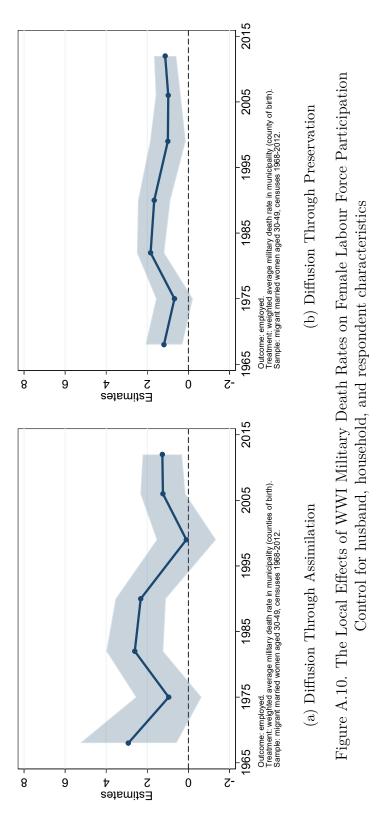


Figure A.9. The Effect of Spouses' Birth County Military Death Rates on Wives' Labour Force Participation

Notes: This figure displays OLS coefficients from estimating Equation 6 along with 95% confidence intervals on the sample of internal migrant women aged 30 to 49 that are married to internal migrant men in the censuses 1962–2012. They result from regressing an employed indicator on the military death rate of both spouses' counties of birth, along with county-level pre-war controls and cohort by county of residence fixed effects. Estimates are computed using sample weights provided in the censuses. Standard errors are clustered at the level of respondents' counties of residence, wives' counties of birth, and husbands counties of birth.

• Significant at the 1% level. ▲ Significant at the 5% level. ■ Significant at the 10% level.



Notes: Panel a reports OLS coefficients on death_rate_m from estimating Equation 7, and Panel b, OLS coefficients on the interaction $sh_res_{b,m} \times death_rate_b$ from estimating Equation 8, along with 95% confidence intervals on the sample of internal migrant married women in the censuses 1968–2012. Standard errors are clustered at the level of respondents' counties of birth and residence. Estimates are computed using sample weights provided in the censuses.

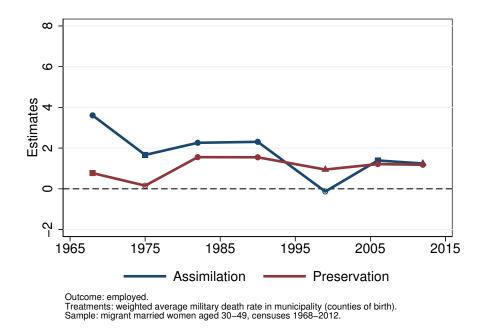


Figure A.11. The Local Effects of WWI Military Death Rates on Female Labour Force Participation

Notes: This figure reports OLS coefficients from estimating Equations 7 and 8 together on the sample of internal migrant married women in the censuses 1962–2012. Standard errors are clustered at the level of respondents' counties of birth and residence. Estimates are computed using sample weights provided in the censuses.

• Significant at the 1% level. ▲ Significant at the 5% level. ■ Significant at the 10% level.

Outcome	Death rate	$\operatorname{Employed}$	loyed	Chil	Children	High school	chool
	(1)	(2)	(3)	(4)	(5)	(9)	(2)
2nd generation migrant	0.00 [0.00]	-0.00 [0.01]	0.02 [0.04]	0.03 $[0.02]$	0.14 $[0.09]$	0.08^{**} [0.01]	0.05 $[0.05]$
2nd generation migrant \times military death rate (mother)			-0.12 $[0.27]$		-0.84 $[0.57]$		0.23 $[0.30]$
Observations	132, 422	132,422	132,422 $132,422$ $132,422$ $132,422$ $132,422$	132, 422	132,422	132, 422	132, 422
Natives outcome mean	0.15	0.78	0.78	1.27	1.27	0.36	0.36
<i>Notes:</i> This table reports estimates from regressing observable characteristics on a second-generation migrant status indicator, where second-generation migrants are non-migrant married women aged 30 to 59 whose mothers and fathers were born in another county. The baseline comparison group consists of natives. i.e., married women aged 30 to 59 who were born in their county of residence as	imates from tre second-ger ters were bor women aged	regressing neration m n in anoth 30 to 59	observable igrants are ter county. who were	characte non-mig The ba born in	ristics on rant marr seline con their cou	a second-g ied womer nparison g mtv of res	generation 1 aged 30 roup con- idence as

Table A.1. Observable Characteristics Across Migration Status

region fixed effects $\mu_{1914,m}$ are assigned at the level of mothers' counties of birth, γ_i is a set of year of of birth, Employed, an indicator for whether she is working, Children, the number of children in her household, and *High school*, an indicator for whether she achieved at least high school. To remain $\mathbf{Y}_{imfr} = \beta \ \text{migrant}_i + \alpha \mathbf{X}'_{1911,m} + \gamma_i + \delta_r + \mu_{1914,m} + \omega_f + \varepsilon_{imfr}$, where migrant, is an indicator for whether the respondent is a second generation migrant, where historical controls $\mathbf{X}_{1911,m}$, and military birth and survey year indicators, δ_r , county of residence fixed effects, and ω_f , fathers' county of birth fixed effects. Specifications in Columns (3), (5), and (7) further include the military death rate of the respondent's mother's county of birth and an interaction with the migrant indicator. Standard errors are as close as possible to Equation 3, these estimates are calculated through the following specification: reported in brackets and are clustered at the level of counties of residence and mothers' counties of birth. *** Significant at the 1% level.

Dependent variable			Active		
	(1)	(2)	(3)	(4)	(5)
Military death rate (mother)	0.98^{**} [0.40]	0.77^{*} [0.41]	1.01^{**} [0.44]	1.14^{***} [0.43]	0.90^{***} [0.33]
Father birth county FE Mother birth region FE Other controls	No No No	Yes No No	Yes Yes No	Yes Yes Yes	Yes Yes No
Clusters Own birth-residence county Mother birth county	95 95	95 95	95 95	95 95	95 95
Observations	$15,\!091$	$15,\!091$	$15,\!091$	15,091	32,081
Outcome mean Outcome s.d.	$\begin{array}{c} 0.85\\ 0.36\end{array}$	$\begin{array}{c} 0.85\\ 0.36\end{array}$	$\begin{array}{c} 0.85\\ 0.36\end{array}$	$\begin{array}{c} 0.85 \\ 0.36 \end{array}$	$\begin{array}{c} 0.83 \\ 0.38 \end{array}$

 Table A.2. The Effect of Mothers' Birth County Military Death Rates on Their

 Daughters' Labour Force Participation

Notes: This table reports the OLS coefficients from estimating Equation 3 on the sample of non-migrant married women aged 30 to 59 whose mothers and fathers were born in another county in Columns 1–4, and whose mothers (but not necessarily fathers) were born in another county in Column 5. They result from regressing an active indicator on the military death rate of respondents' mothers' counties of birth, including cohort, own county of birth and residence, and survey-year fixed effects, as well as the set of historical controls measured at the level of respondents' mothers' counties of birth. *Other controls* include parental, husband, and household characteristics, and the respondent's education and number of children. Standard errors are clustered at the level of counties of residence and mothers' counties of birth. Estimates are computed using sample weights provided in the extended labour force surveys 2005–2012.

*** Significant at the 1% level. ** Significant at the 5% level.

Dependent variable		Emp	loyed	
	(1)	(2)	(3)	(4)
Military death rate (father)	0.80^{**} [0.36]	0.53 [0.36]	0.26 [0.47]	0.13 [0.48]
Mother birth county FE Father birth region FE Other controls	No No No	Yes No No	Yes Yes No	Yes Yes Yes
Clusters Own birth-residence county Mother birth county	95 95	95 95	95 95	95 95
Observations	$15,\!091$	$15,\!091$	15,091	$15,\!091$
Outcome mean Outcome s.d.	$0.81 \\ 0.39$	$0.81 \\ 0.39$	$\begin{array}{c} 0.81 \\ 0.39 \end{array}$	$0.81 \\ 0.39$

Table A.3. The Effect of Fathers' Birth County Military Death Rates on Their Daughters' Labour Force Participation

Notes: This table reports the OLS coefficients from estimating Equation 3 on the sample of non-migrant married women aged 30 to 59 whose mothers and fathers were born in another county, but where variables are assigned at the level of fathers' county of birth. They result from regressing an employed indicator on the military death rate of respondents' fathers' counties of birth, including cohort, own county of birth and residence, and survey-year fixed effects, as well as the set of historical controls measured at the level of respondents' fathers' counties of birth. *Other controls* include parental, husband, and household characteristics, and the respondent's education and number of children. Standard errors are clustered at the level of counties of residence and fathers' counties of birth. Estimates are computed using sample weights provided in the extended labour force surveys 2005–2012.

** Significant at the 5% level.

Dependent variable	Η	Employed	
	(1)	(2)	(3)
Same \times military death rate (parents)	1.23***	1.02*	1.06*
	[0.43]	[0.59]	[0.60]
Different \times military death rate (mother)	0.73*	0.87*	0.99**
	[0.43]	[0.45]	[0.43]
Different \times military death rate (father)	0.50	0.10	-0.01
	[0.36]	[0.60]	[0.61]
Parents birth region FE	No	Yes	Yes
Other controls	No	No	Yes
Clusters			
Own birth-residence county	95	95	95
Mother birth county	95	95	95
Father birth county	95	95	95
Observations	15,091	15,091	15,091
Outcome mean	0.81	0.81	0.81
Outcome s.d.	0.39	0.39	0.39

Table A.4. The Effect of Parents' Birth Counties Military Death Rates on Their Daughters' Labour Force Participation

Notes: This table reports the OLS coefficients from estimating a modified version of Equation 3 on the sample of non-migrant married women aged 30 to 59 whose mothers and fathers were born in another county, augmented with an indicator for whether individuals' parents were born in their county of residence and where variables related to both parents are included (except parental birth counties fixed effects). They result from regressing an employed indicator on the military death rate of respondents' parents' counties of birth, including cohort, own county of birth and residence, and survey-year fixed effects, as well as the set of historical controls measured at the level of respondents' parents' counties of birth. Other controls include parental, husband, and household characteristics, and the respondent's education and number of children. Standard errors are clustered at the level of counties of residence and fathers' and mothers' counties of birth. Estimates are computed using sample weights provided in the extended labour force surveys 2005–2012. *** Significant at the 1% level. ** Significant at the 5% level. * Significant at the 10% level.

Dependent variable	М	other wor	ked
	(1)	(2)	(3)
Military death rate (mother)	1.33^{**} [0.52]	1.89^{***} [0.64]	1.76^{***} [0.61]
Father birth county FE Other controls	No No	Yes No	Yes Yes
Clusters Own birth-residence county Mother birth county	$\frac{95}{95}$	$\frac{95}{95}$	95 95
Observations	15,090	15,090	15,090
Outcome mean Outcome s.d.	$0.59 \\ 0.49$	$0.59 \\ 0.49$	$0.59 \\ 0.49$

Table A.5. The Effect of WWI Military Death Rates on Mothers' Labour Force Participation

Notes: This table reports OLS coefficients from regressing an indicator for whether respondents' mothers were working when growing up on the sample of non-migrant married women aged 30 to 59 whose mothers and fathers were born in another county in the extended labour force surveys 2005–2012. All regressions include cohort, county of birth and residence, and survey-year fixed effects, as well as the set of historical controls measured at the level of individuals' mothers' counties of birth in 1911. Other controls include parental, husband, and household characteristics, as well as respondents' education and number of children. Standard errors are clustered at the level of the counties of birth and mothers counties of birth. Estimates are computed using sample weights provided in the extended labour force surveys.

*** Significant at the 1% level.

Dependent variable	Μ	other wor	ked		Employed	1
	A	. First Sta	age	В. 9	Second St	tage
	(1)	(2)	(3)	(4)	(5)	(6)
Military death rate (mother)	1.33^{**} [0.52]	1.89^{***} [0.64]	1.76^{***} [0.61]			
Mother worked				0.80^{**} [0.39]	0.50^{**} [0.23]	0.51^{**} [0.24]
Father birth county FE	No	Yes	Yes	No	Yes	Yes
Other controls	No	No	Yes	No	No	Yes
Clusters						
Own birth-residence	95	95	95	95	95	95
Mother birth	95	95	95	95	95	95
Observations	15,090	$15,\!090$	$15,\!090$	15,090	15,090	15,090
Outcome mean	0.59	0.59	0.59	0.81	0.81	0.81
Outcome s.d.	0.49	0.49	0.49	0.39	0.39	0.39
F-statistic	27.28	42.48	36.89			

Table A.6. The Effect of War-Induced Mother's Labour Force Participation on Their Daughters'

Notes: Panel B of this table reports 2SLS coefficients from regressing an indicator for whether respondents are employed on an indicator for whether their mothers were working when growing up, instrumented by the military death rate of their mothers county of birth. Panel A reports first-stage OLS estimates. The sample is non-migrant married women aged 30 to 59 whose mothers and fathers were born in another county in the extended labour force surveys 2005–2012. All regressions include cohort, county of birth and residence, and survey-year fixed effects, as well as the set of historical controls measured at the level of individuals' mothers' counties of birth in 1911. *Other controls* include parental, husband, and household characteristics, as well as respondents' education and number of children. Standard errors are clustered at the level of the counties of birth and mothers counties of birth. Estimates are computed using sample weights provided in the extended labour force surveys.

*** Significant at the 1% level. ** Significant at the 5% level.

Dependent variable		Employed	
	(1)	(2)	(3)
Same \times military death rate (mothers)	2.53***	2.86***	3.10***
· · · · · · · · · · · · · · · · · · ·	[0.92]	[0.83]	[0.74]
Different \times military death rate (own mother)	1.17**	1.29***	1.27***
· · · · /	[0.46]	[0.44]	[0.41]
Different \times military death rate (mother-in-law)	1.25	1.41**	1.60**
	[0.76]	[0.68]	[0.63]
Fathers birth county FE	No	Yes	Yes
Mothers birth region FE	No	Yes	Yes
Other controls	No	No	Yes
Clusters			
Own birth-residence counties	94	94	94
Mother birth counties	94	94	94
Mother-in-law birth counties	94	94	94
Observations	13,387	13,387	13,387
Outcome mean	0.81	0.81	0.81
Outcome s.d.	0.39	0.39	0.39

Table A.7. The Effect of Mothers' and Mothers-in-Law's Birth Counties MilitaryDeath Rates on Their Daughters' Labour Force Participation

Notes: This table reports the OLS coefficients from estimating a modified version of Equation 3 on the sample of second-generation migrant married women aged 30 to 59, augmented with an indicator for whether individuals' mothers and mothersin-law were born in their county of residence, and where variables related to both mothers are included (except mothers origins fixed effects), but where variables are assigned at the level of mothers' counties of birth. All regressions contain cohort, county of birth and residence, husbands' birth county, and survey-year fixed effects, as well as the set of historical controls measured at the level of respondents' mothers' counties of birth in 1911. *Other controls* include parental, husband, and household characteristics Standard errors are clustered at the level of counties of residence, and mothers' and fathers' counties of birth. Estimates are computed using sample weights provided in the extended labour force surveys 2005–2012.

*** Significant at the 1% level. ** Significant at the 5% level.

	Death rate	Employed	oyed	Chil	Children	High	High school	Gender values	values
	(1)	(2)	(3)	(4)	(5)	(9)	(2)		
Internal migrant	0.00 [0.00]	-0.00 [0.01]	$0.01 \\ [0.04]$	-0.04 [0.02]	0.03 $[0.10]$	0.17^{***} [0.01]	0.19^{***} $[0.04]$	0.02^{***} $[0.01]$	0.02 [0.03]
Internal migrant \times military death rate			-0.19 $[0.29]$		-0.32 [0.68]		-0.21 [0.35]		0.02 $[0.03]$
Observations	6,777	6,777	6,777	6,777	6,777	6,777	6,777	6,777	6,777
Natives outcome mean	0.14	0.57	0.57	0.83	0.83	0.32	0.32	0.70	0.70
Notes: This table reports estimates from regressing observable characteristics on a migrant status indicator, where migrants are respondents who reside in another county than their county of birth. The baseline comparison group consists of natives, i.e., respondents who were born in their county of residence. Death rate is the military death rate of a respondent's county of birth, Employed, an indicator for whether they are working, Children, the number of children in their household, High school, an indicator for whether they achieved at least high school, and Gender values, the gender values index on a one-point scale. To remain as close as possible to Equation 3, these estimates are calculated through the following specification: $Y_{ibr} = \beta_1 \operatorname{mig} \operatorname{ratt}_i + \beta_2$ female, $+ \alpha X'_{191,b} + \gamma_i + \delta_r + \varepsilon_{ibr}$, , where migrant, is an indicator for whether the respondent is a migrant, where historical controls $X_{1911,b} + \gamma_i + \delta_r + \varepsilon_{ibr}$, where migrant, is an indicator for whether the respondent is a migrant where historical controls $X_{1911,b}$ are assigned at the level of respondents' counties of birth, γ_i is a set of year of birth and survey year indicators, and δ_r , county of residence fixed effects. Specifications in Columns (3), (5), and (7) further include the military death rate of the respondent's county of birth and an interaction with the migrant indicator. Standard errors are reported in brackets and are clustered at the level of counties of residence and birth.	estimates from who reside in a spondents who nuty of birth, E old, $High schondex on a onee following spidicator for wlespondents' coeffectsant's county ofa er clustered \epsilon$	a regressi another of o were b <i>imployed</i> , an inc <i>ool</i> , an inc <i>ecificatic</i> hether th ounties of ounties of at the lev	ng obsert county th orn in th orn in th incator fc ale. To r ale. To r n: Y_{ibr} = le respon of birth, cations i id an inter-	vable ché ian their neir count cator for remain as β_1 mig dent is γ_i is a s n Colum eraction unties of	aracterist county c ty of resi whether ar they at s close as s close as s close as a migran a migran (3), (with the vest d vest d ves	ics on a m of birth. T dence. $D\epsilon$ they are w chieved at possible t β_2 female t, where $lar of birthf_5, and (7f_5), and birth$	igrant stat he baseline <i>ath rate</i> is vorking, <i>Ch</i> least high: to Equation istorical construction in and surve) further in h.	us indicato i comparist the milital the milital <i>illdren</i> , the school, and i 3, these ev i 3, these ev i 3, these events \mathbf{X}_{1} 4, events \mathbf{X}_{1} 4, events \mathbf{X}_{2} 1, events \mathbf{X}_{1} 2, events \mathbf{X}_{2} 2, events \mathbf{X}_{1} 2, events \mathbf{X}_{2} 2, events \mathbf{X}_{1} 2, events \mathbf{X}_{2} 2, events $\mathbf{X}_{$	r, where on group ry death number Gender $\delta_r + \varepsilon_{ibr}$ 911, b are licators, military rors are

Table A.9. Preferences and Beliefs About Female Labour

	Gende	er of res	pondent
	All	Men	Women
1 If a woman earns more than her	0.78	0.80	0.76
partner, it is detrimental for their relationship	(0.29)	(0.27)	(0.31)
2 Women should not decide how to spend	0.73	0.70	0.76
the money they earned without asking their partners	(0.34)	(0.35)	(0.33)
3 In an economic crisis, men should	0.74	0.71	0.76
keep their jobs in priority	(0.35)	(0.35)	(0.35)
Gender values index	2.25	2.22	2.27
(three-point scale)	(0.64)	(0.64)	(0.65)
Gender values index	0.75	0.74	0.76
(one-point scale)	(0.21)	(0.21)	(0.22)
Observations	2,823	$1,\!159$	1,664

Higher values mean disagreement with the statement

Notes: This table reports summary statistics for preferences and beliefs about female labour on the sample of internal migrant respondents in the GGS 2005. Higher values indicate disagreement with the statement. Standard deviations are in parenthesis.

Table A.10. Preferences and Beliefs About Religion

		Gende	er of resp	pondent
		All	Men	Women
1	A religious event is important	0.44	0.44	0.43
	for a newborn	(0.40)	(0.40)	(0.41)
2	A religious marriage is important	0.51	0.51	0.51
	for those who marry	(0.39)	(0.39)	(0.40)
3	A religious event is important	0.36	0.36	0.35
	for a funeral	(0.38)	(0.38)	(0.39)
Re	eligious values index	1.30	1.31	1.29
(t]	hree-point scale)	(1.05)	(1.04)	(1.05)
Re	eligious values index	0.43	0.44	0.43
	ne-point scale)	(0.35)	(0.35)	(0.35)
O	oservations	2,819	1,158	1,661

Higher values mean disagreement with the statement

Notes: This table reports summary statistics for preferences and beliefs about religion on the sample of internal migrant respondents in the GGS 2005. Higher values indicate disagreement with the statement. Standard deviations are in parenthesis.

Table A.11. Preferences and Beliefs About Marriage

	Gender of respondent			
	All	Men	Women	
1 Marriage is not an outdated institution ^{a}	0.28	0.29	0.28	
	(0.34)	(0.34)	(0.34)	
2 Unmarried couple shouldn't live together	0.78	0.78	0.78	
if they do not intend to get married ^b	(0.28)	(0.28)	(0.28)	
3 Even if individuals in a couple are unhappy,	0.82	0.79	0.84	
they shouldn't divorce ^{c}	(0.26)	(0.27)	(0.25)	
4 Marriage is a lifelong commitment that	0.44	0.44	0.43	
should never be broken	(0.39)	(0.38)	(0.39)	
Marriage values index	2.32	2.29	2.34	
(four-point scale)	(0.81)	(0.81)	(0.82)	
Marriage values index	0.58	0.57	0.59	
(one-point scale)	(0.20)	(0.20)	(0.20)	
Observations	2,812	$1,\!154$	$1,\!658$	

Higher values mean disagreement with the statement

Notes: This table reports summary statistics for preferences and beliefs about marriage on the sample of internal migrant respondents in the GGS 2005. Higher values indicate disagreement with the statement. Standard deviations are in parenthesis.

 a Original statement reversed. It originally reads: Marriage is an outdated institution.

^b Original statement reversed. It originally reads: It is good for an unmarried couple to live together even if they do not intend to get married.

^c Original statement reversed. It originally reads: If individuals are unhappy as a couple, they may divorce, even if they have children.

Table A.12. Preferences and Beliefs About the Family

_		<u> </u>	C	1 .
		Gender of respondent		
		All	Men	Women
1	To thrive, a woman must have children	0.35	0.31	0.37
		(0.34)	(0.32)	(0.36)
2	To thrive, a man must have children	0.37	0.34	0.41
		(0.35)	(0.34)	(0.35)
3	To grow up happy, a child needs a home	0.14	0.11	0.16
	with a mother and a father	(0.23)	(0.20)	(0.25)
4	If parents divorce, it is better for the child to	0.55	0.58	0.52
	stay with the mother rather than with the father	(0.31)	(0.32)	(0.31)
5	A woman cannot have and raise a child by herself if	0.58	0.59	0.57
	she does not want a stable relationship with a man^a	(0.34)	(0.34)	(0.34)
Fa	mily values index	1.99	1.93	2.03
(fi	ve-point scale)	(0.99)	(0.95)	(1.02)
Fa	mily values index	0.40	0.39	0.41
	ne-point scale)	(0.20)	(0.19)	(0.20)
O	oservations	2,796	1,138	$1,\!658$

Higher values mean disagreement with the statement

Notes: This table reports summary statistics for preferences and beliefs about the family on the sample of internal migrant respondents in the GGS 2005. Higher values indicate disagreement with the statement. Standard deviations are in parenthesis.

^a Original statement reversed. It originally reads: A woman can have and raise a child by herself if she doesn't want to have a stable relationship with a man.

Dependent variable	Individual gender values questions ^{a}					
Question	1 2		3	3		
	(1)	(2)	(3)	(4)	(5)	(6)
Military death rate	$\begin{array}{c} 4.75^{***} \\ [1.50] \end{array}$	4.30** [1.80]	-3.90^{**} [1.96]	-2.38 [2.73]	3.53** [1.78]	4.15** [1.85]
Female	-0.16^{***} [0.05]	-0.25 [0.16]	-0.22^{***} [0.06]	0.10 [0.24]	0.17^{***} [0.06]	0.30 [0.20]
Military death rate \times Female		0.68 [1.10]		-2.35 [1.71]		-0.95 [1.29]
Clusters Residence county Birth county	92 88	92 88	92 88	92 88	92 88	92 88
Observations	2,822	2,822	2,822	2,822	2,822	2,822
Outcome mean Outcome s.d.	$\begin{array}{c} 4.11 \\ 1.18 \end{array}$	4.11 1.18	$2.08 \\ 1.37$	$2.08 \\ 1.37$	$3.95 \\ 1.39$	$3.95 \\ 1.39$

Table A.13. The Effect of WWI Military Death Rates on Cultural Beliefs aboutFemale Labour (Individual Questions)

Notes: This table reports the OLS coefficients from estimating Equation 9 separately on the questions that compose the gender values index from Table 5 on the sample of internal migrant respondents in the GGS 2005. All regressions contain cohort and county of residence fixed effects, as well as the set of historical controls measured at the level of respondents' counties of birth in 1911. Standard errors are clustered at the level of counties of birth and of residence. Estimates are computed using sample weights provided in the GGS.

^{*a*} The meaning of each question is available in Appendix Table A9.

*** Significant at the 1% level. ** Significant at the 5% level. * Significant at the 10% level.

Dependent variable	Cultural values index (one-point scale)					
	Religion		Marriage		Family	
	(1)	(2)	(3)	(4)	(5)	(6)
Military death rate	-0.43 [0.57]	-0.39 [0.62]	0.02 [0.30]	-0.09 [0.32]	-0.23 [0.31]	-0.18 [0.33]
Female	-0.01 [0.01]	0.00 [0.06]	$0.01 \\ [0.01]$	-0.01 [0.02]	0.02^{**} [0.01]	0.03 [0.03]
Military death rate \times Female		-0.07 [0.41]		0.18 [0.12]		-0.08 [0.19]
Clusters Residence counties Birth counties	92 88	92 88	92 88	92 88	92 88	92 88
Observations	2,809	2,809	2,783	2,783	2,732	2,732
Outcome mean Outcome s.d.	$\begin{array}{c} 0.43 \\ 0.35 \end{array}$	$\begin{array}{c} 0.43 \\ 0.35 \end{array}$	$0.58 \\ 0.20$	$0.58 \\ 0.20$	$0.40 \\ 0.20$	$\begin{array}{c} 0.40 \\ 0.20 \end{array}$

Table A.14.	The Effect of WWI Military Death Rates on Cultural Beliefs on
	Religion, Marriage, and the Family

Notes: This table reports the OLS coefficients from estimating Equation 9 on the religion, marriage, and family values indexes on the sample of internal migrant respondents in the GGS 2005. All regressions contain cohort and county of residence fixed effects, as well as the set of historical controls measured at the level of respondents' counties of birth in 1911. Standard errors are clustered at the level of counties of birth and of residence. Estimates are computed using sample weights provided in the GGS.

 ** Significant at the 5% level.

B. Pre-War Differences in Attitudes Toward Gender Roles

In this appendix, I explore whether there were pre-war difference in attitudes toward female labour and gender roles across counties that experienced different military death rates. To capture local attitudes toward women, I rely on legislative behaviours of *députés* in the *Chambre des députés*, France's Lower House of Parliament, and analyse two important political elements: support to the extension of suffrage and eligibility to women in labour courts (*conseils de prud'hommes*) in 1901, and support to the extensions of political suffrage to women in 1914. The former captures pre-war men's beliefs about women's abilities as workers, as parliamentary debates were specifically focused on this issue (Willemez, 2015). The second captures a more general aspect of men's belief about gender roles. While support to the bill of 1901 can be directly observed through roll-call votes, support to the bill of 1914 can only be observed through an open letter written by several women's rights organizations in June 1914—the bill was to be voted on in August 1914, but the war interrupted the process.¹

To assess whether local attitudes toward gender roles were correlated with the distribution of WWI military fatalities, I regress military death rates on countylevel supports for each of these two bills along with the determinants of military death rates (Appendix Table B.1). Results imply that neither was correlated with the residual variation in military death rates used through the article, suggesting that results in Section 6 are not driven by pre-war differences in attitudes toward gender roles.

¹The bill was eventually voted on in May 1919. While 32% of députés supported female suffrage in 1914, 79% did so in 1919. The bill was rejected by the Sénat in 1922, France's Upper House of Parliament.

Dependent variable	Military death rate		
	(1)	(2)	(3)
Support to suffrage (1901)	-0.01		-0.00
	[0.01]		[0.01]
Support to suffrage (1914)		-0.01	-0.01
		[0.01]	[0.01]
Pre-war controls	Yes	Yes	Yes
Military region FE	Yes	Yes	Yes
Counties	86	86	86
\mathbb{R}^2	0.858	0.862	0.862

Table B.1. Military Death Rates and Pre-War Attitudes Across Counties

Notes: This table reports OLS coefficients from regressing military death rates on pre-war supports to the extension of female suffrage across counties. Support to suffrage (1901) denotes average votes in favor of the extension of the suffrage to women for labour courts in 1901 in percent; Support to suffrage (1914), average support to the bill extending the political suffrage to women in June 1914 in percent; Pre-war characteristics includes the share of rural population, the share of population born in the county, the female labour force participation rate, total fertility, the share of girls aged 5 to 19 who go to primary or secondary school, and personal wealth per inhabitants in Francs. Robust standard errors are in brackets.

C. Robustness of Baseline Estimates

In this appendix, I describe a series of robustness checks that support the credibility of baseline estimates reported in Section 4. Estimates are robust to the choice of regression model and to alternative sample-selection criteria (Section C.1), to selective migration patterns (Section C.2), and to the potentially inaccurate assignment of military death rates (Section C.3). Moreover, education and fertility choices do not mediate the relationship between WWI military fatalities and women's working behaviours (Section C.4).

C.1. Alternative Specifications

Baseline coefficients are estimated through a linear probability model. This modelling choice does not affect the results, as marginal coefficients evaluated at the mean of the data from probit and logit models are similar to OLS coefficients (Appendix Figure C.1, Panel a). Estimates are also similar—though slightly lower in the 2000s—when the outcome is a labour force participant indicator, when widening age bounds to 25–59, and when including women of all marital statuses (Appendix Figure C.1, Panels b–d).

C.2. Selective Migration Patterns

I first explore whether selective out-migration patterns can account for the results. To that end, I analyse differences in observable characteristics across migration status through a set of regressions. To remain as close as possible to Equation 2 and assess the potential biases that might affect baseline coefficients, I estimate the following specification, separately for each census year t, on the sample of all married women aged 30 to 49 born and residing in France—a total of 7 million women:

(C.1)
$$\mathbf{Y}_{ibt} = \beta \operatorname{migrant}_{i} + \alpha \mathbf{X}'_{1911,b} + \boldsymbol{\theta}_{i;r;1914,b} + \varepsilon_{ibt},$$

where $\operatorname{migrant}_{i}$ is an indicator for whether the individual is an internal migrant, and $\theta_{i;r;1914,b}$ are cohort by county of residence by military region of birth fixed effects. Y_{ibt} corresponds to four observable characteristics: whether the individual

is employed, the military death rate of her county of birth, the number of children in her household, and whether she has gone through high school or above. Estimates are reported in Appendix Figure C.2. Results point toward an absence of selection into internal migration along the two main variables of interest: employment and military death rates. There is similarly little selection along fertility. Internal migrant women are however positively selected in terms of education: they are on average 7 percentage points more likely to have gone through at least high school compared to non-migrants. This source of selection could be worrying if it was operating differently across individuals that originate from départements that experienced low and high military death rates. To see whether this is the case, I augment Equation C.1 with an interaction term between the internal migrant indicator and the military death rate of individuals' counties of birth. For a consistent comparison across estimates within the same specification, I report standardized estimates in Appendix Figure C.3. Reassuringly, selection along all observed characteristics—including education—does not operate systematically differently across counties of birth, suggesting that this source of selection cannot explain the main results.

Beyond selection through out-migration patterns, results might be biased through selective in-migration patterns, that is, through the destination location of internal migrants. In particular, individuals born in counties that experienced greater military death rates might settle in more dynamic labour markets. To assess whether this is the case, I estimate Equation 2 when removing the ten most urban counties of destination from the sample.² Results are similar to baseline estimates (Appendix Figure C.4, Panel a).

Still, in-migration selection might operate within destination counties, with those born in counties that experienced greater military death rates sorting systematically into the more dynamic local labour markets. To assess the extent of this type of selection, I first compare individuals who reside in the same local labour market. Censuses provide two definitions of local labour market boundaries: (1) explicit local labour markets constructed relying on home-work migration patterns—Zones of Industrial and Urban Population (ZIUP) from 1962 to 1990, and Economic Zones

²More precisely, I remove the counties in which the ten largest French cities are located: Paris (75), Marseille (13), Lyon (69), Toulouse (31), Nice (06), Nantes (44), Montpellier (34), Strasbourg (67), Bordeaux (33), and Lille (59).

(EZ) from 1999 to 2012³—and (2) cities respondents reside in—from 1962 to 1999, this information is detailed at the level of *municipalities*, France's smallest administrative unit, and from 2006 to 2012, at the level of *canton-cities*, a slightly larger level of aggregation.⁴ Table C.1 provides information on the number of these units in the sample. I reproduce the baseline specification successively with local labour market and municipality fixed effects instead of county of residence fixed effects (Appendix Figure C.1, Panel b).⁵ Coefficients are similar across specifications, suggesting little correlation between military death rates and in-migration sorting within destination counties.

To further alleviate potential issues of selective migration patterns, I control for the relative attractiveness of origin and destination counties. I build two types of measures: a county-specific measure and a dyadic measure. County-specific measures are the share of immigrants among the population residing in destination counties and the share of emigrants among the population born in origin counties. The first measure captures the pull force of destination counties, and the second measure, the push force of origin counties. Dyadic measures are specific to each pair of counties. The first dyadic measure is the share of immigrants born in an origin county among the population of immigrants in a destination county. It captures the pull force of destination counties specifically toward each origin county. Conversely, the second dyadic measure is the share of emigrants in an individual's destination county among the population of emigrants born in her origin county. It captures the push force of origin counties specifically toward each destination county. Because labour-related migrations usually peak early in the life-cycle (White and Lindstrom, 2005), I build these measures relative to the time when individuals were $25.^{6}$ I build these measures relative to the female population of working age to better

³ZIUPs are more numerous than EZs: the sample contains 596–859 ZIUPs with 67–820 observations per ZIUP, and 292–331 EZs with 320–2,259 observations per EZ. ZIUPs do not cover the full territory since some rural areas are not included in a ZIUP—88–99% of respondents in the sample reside in a ZIUP.

⁴The sample contains 5,883–22,893 municipalities with 9–23 observations per commune, and 3,575 canton-cities with 185 observations per canton-city.

⁵Note that because residence location, year of birth, and military region of birth fixed effects are interacted, many singletons are dropped from the regressions. Hence, I keep the sample constant across specifications so that estimates remain comparable, explaining why baseline estimates are slightly different from those in Figure 2.

⁶Censuses do not provide information on the timing of migration except whether respondents migrated more than a decade earlier.

capture female labour-related migration dynamics.⁷ Together with the bilateral distance between origin and destination counties, these four variables are likely to capture a large part of the bias introduced by labour-related migration patterns. I further estimate the baseline specification on the subsample of internal migrants who were already present in their county of residence in the previous census—the one-and-a-half generation.⁸ This subsample might be less subject to biases due to selective migration as it contains individuals who migrated at least one decade earlier. Panel c of Appendix Figure C.1 reports the results. Including migration controls or estimating the baseline specification on the one-and-a-half generation is not a primary mechanism that can explain the patterns in the data.

C.3. Inaccurate Assignment of Military Death Rates

The empirical strategy used throughout this article requires regressors to be assigned at the level of geographic origin, i.e., the county in which internal migrants' ascendants were residing during the interwar period. However, censuses do not provide ascendants' counties of birth. I am therefore constrained to assume that counties of birth and of origin are identical. Here, I relax this assumption by reproducing the analysis on the extended labour force surveys 2005–2012, which provide parental counties of birth. I first restrict the regression sample to internal migrants born in the same county as both their parents—this is the case for one third of them. I report results in Column 2 of Appendix Table C.2, along with a reproduction of the baseline estimate in Column 1. The baseline estimate is in line with the one obtained using the census of 2006, at 0.50. Restricting the sample to individuals born in the same county as their parents inflates the coefficient to 0.90. Although the difference is itself not significant, one can interpret it as the result of an inaccurate assignment of military death rates in the baseline sample, which creates some attenuation bias through measurement error. Does this method

⁸This information is not available in the censuses after 2006.

⁷ For decades 1960 to 2010, these measures are calculated using the censuses 1962 to 2006. For earlier decades, I use information on bilateral migration flows between counties in the censuses of 1911 and 1946—these are the only censuses before 1962 for which this information is available. Because the administrative geography underwent various modifications, some former counties cannot be mapped into newly created ones, such as Seine-et-Oise. As a result, some respondents cannot be assigned migration controls, especially in earlier censuses.

ensure that counties of birth trace to the interwar period in individuals' lineage? Not entirely. Because the mean age of mothers at the birth of their children was 26–29 in the 1950s–1980s, parents of respondents in the sample were likely born in the 1920s–1950s (Toulemon, 2001). To make this assumption more plausible, I further restrict the sample to cohorts born before the mid-1960s, so that their parents were likely born during the 1920s and the mid-1930s.⁹ I report results in Column 4 of Appendix Table C.2, along with a reproduction of the baseline estimate in Column 3. The estimate is larger than the baseline at 1.09, though not significantly different, suggesting again that the inaccurate assignment of military death rates in the baseline sample creates some attenuation bias.

A related concern to the one highlighted above is that counties of birth and childhood might differ. If socialization with the surrounding environment beyond own parents was an important mechanism, confounding counties of birth and cultural origins might underestimate the long-run impact of WWI military fatalities on women's working behaviours. Using information about residence locations in the preceding census, I reproduce the analysis when further interacting counties of residence, military regions of birth, and years of birth fixed effects with fixed effects for counties of residence in the preceding census.¹⁰ This produces a tight comparison of women of the same cohort with similar migration histories. I report results in Panel d of Appendix Figure C.3. They are nearly identical to baseline estimates, suggesting that alternative migration histories do not bias results.

C.4. Education and Fertility

Labour market outcomes are endogenous to human capital investment and fertility decisions.¹¹ As a result, these decisions might mediate the relationship between women's working behaviours and WWI military fatalities. For example, if women born in counties that experienced greater military death rates held more favourable views toward being a working wife, they might anticipate longer careers from the

⁹The share of French men born in France that remained in their county of birth was 75.0% in 1921, 74.7% in 1926, 74.2% in 1931, and 73.2% in 1936 according to the censuses, suggesting limited migration movements between the end of the war and the mid-1930s. For women, these figures are 75.2, 74.9, 73.5, and 73.2, respectively.

 $^{^{10}{\}rm This}$ information is only available in the censuses of 1962 to 1999.

¹¹See Greenwood et al. (2017) for a recent review of family economics models.

onset and make greater human capital investments when young. These investments might in turn increase their likelihood to enter the labour force later in life because of higher wage draws. To examine the role of these potential channels, I augment the baseline specification with educational attainment indicators and the number of children in the household.¹² I report results in Appendix Figure C.5. These additional controls do not affect results. This suggests that the long-run impact of WWI military fatalities was direct rather than mediated by education and fertility decisions. Coefficients from this specification imply that the labour force participation impact of being born in a county that experienced military death rates of 20% rather than 10% is equivalent in magnitude to one third of the impact of graduating from high school, or one half of the impact of having one fewer child.

¹²Educational attainment indicators consist of primary or lower secondary education (excluded), technical secondary education, high school, and higher education. Number of children corresponds to the number of own children in the household aged 0 to 6.

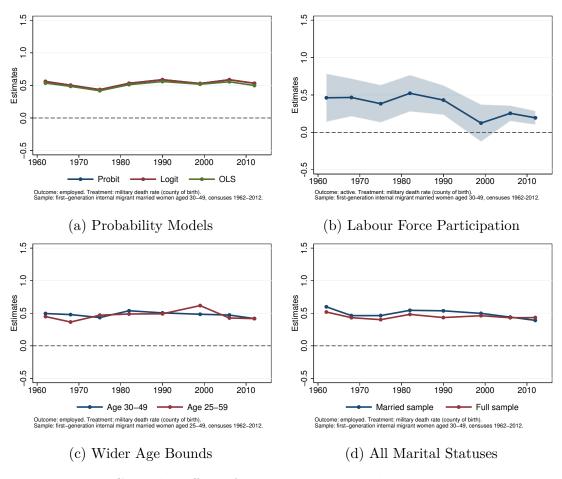


Figure C.1. The Effect of WWI Military Death Rates on FLFP Robustness

Notes: Panel a reports estimates from estimating Equation 2 using three different probability models. For probit and logit models, I report marginal coefficients evaluated at the mean of the data. For computation efficiency, regressions in this panel only do not employ interacted fixed-effects as in Equation 2. Panels b, c, and d report OLS coefficients from estimating Equation 2. In Panel b, the dependent variable is an indicator for whether the respondent is in the labour force. In Panel c, the sample uses wider age bounds: internal migrant married women aged 25–59 instead of internal migrant married women aged-49. In Panel d, the sample consists of women of all marital statuses and the regression includes marital status fixed effects.

• Significant at the 1% level.

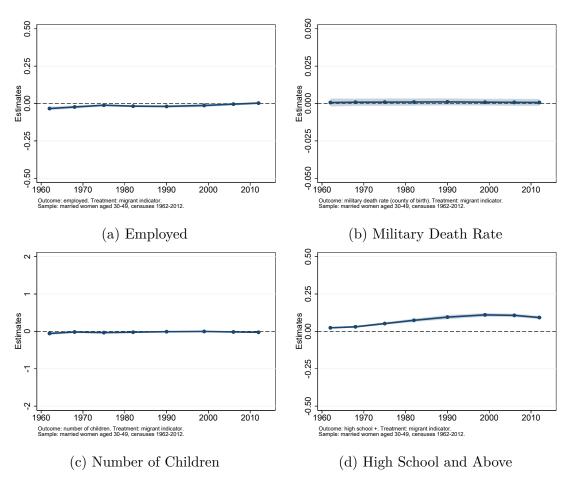


Figure C.2. Observable Characteristics Across Migration Status

Notes: This figure reports OLS coefficients from estimating Equation C.1 along with 95% confidence intervals on the sample of all married women aged 30 to 49 born and residing in France in the censuses 1962–2012. The outcome in Panel a is an indicator variables for whether the respondent is working, in Panel b, the military death rate of respondents' counties of birth, in Panel c, the number of children of the respondent's family in the household, and in Panel d, an indicator variable for whether the respondent achieved at least high school. The size of the y-axis on each panel corresponds to one standard deviation in the outcome variable.

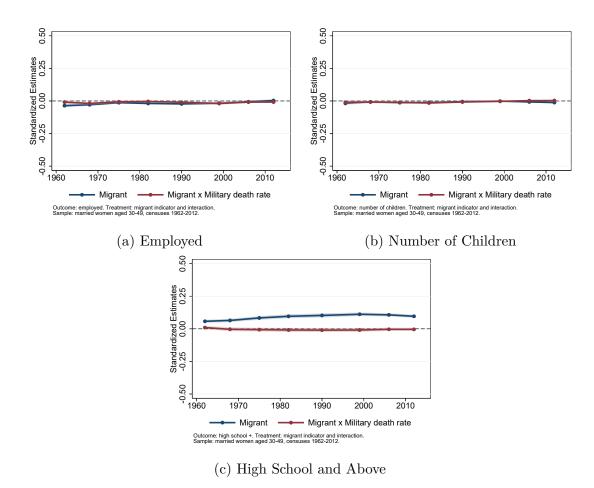
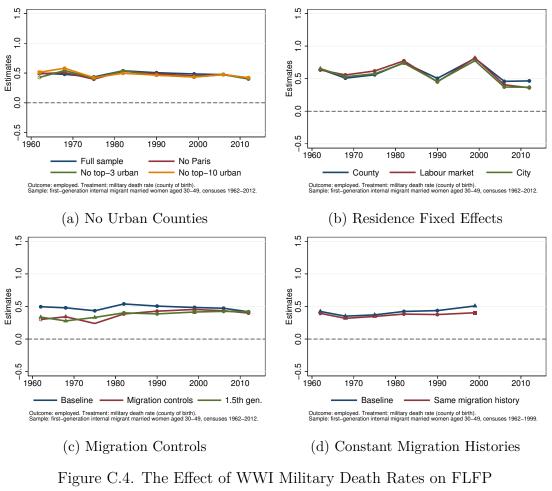


Figure C.3. Observable Characteristics across Migration Status

Notes: This figure reports standardized OLS coefficients from estimating Equation C.1 augmented with an interaction between migration status and military death rates of individuals' counties of birth, along with 95% confidence intervals on the sample of all married women aged 30 to 49 born and residing in France in the censuses 1962–2012. The outcome in Panel a is an indicator variables for whether the respondent is working, in Panel b, the number of children of the respondent's family in the household, and in Panel c, an indicator variable for whether the respondent achieved at least high school. The size of the y-axis on each panel corresponds to one standard deviation in the outcome variable, which one—all variables are standardized.



Robustness

Notes: This figure report OLS coefficients from estimating Equation 2 on the sample of internal migrant married women aged 30 to 49 in the censuses 1962–2012. In Panel a, respondents who reside in the ten most urban counties are removed from the sample: Paris (75), Marseille (13), Lyon (69), Toulouse (31), Nice (06), Nantes (44), Montpellier (34), Strasbourg (67), Bordeaux (33), and Lille (59). In Panel b, the specification successively includes county of residence fixed effects, local labour market fixed effects (ZIUP and EZ), and city fixed effects (municipality and canton-city). Because residence location, year of birth, and military region of birth fixed effects are interacted, many singletons are dropped from the regressions. Hence, I keep the sample constant across specifications so that estimates remain comparable. The second specification in Panel c is augmented with the bilateral distance between origin and destination counties and with the county-specific and dyadic migration controls. The third specification in Panel c restricts the sample to migrants who were residing in their county of residence in the previous census—this information is only available until the census of 2006. Panel d includes respondents for which the county of residence in the preceding census is available—this is not the case for censuses after 2006.

• Significant at the 1% level. ▲ Significant at the 5% level. ■ Significant at the 10% level.

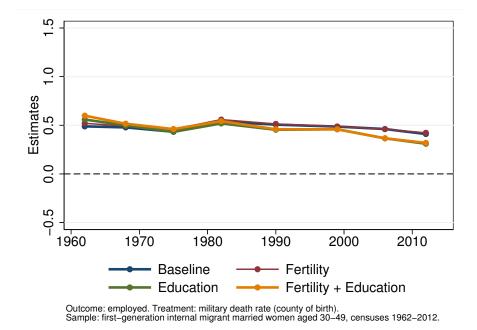


Figure C.5. The Effect of WWI Military Death Rates on FLFP Control for Fertility and Education

Notes: This figure reports the OLS coefficients from estimating baseline Equation 2 augmented with education indicators and fertility controls on the sample of internal migrant married women aged 30 to 49 in the censuses 1962–2012. Educational attainment indicators consist of primary or lower secondary education (excluded), technical secondary education, high school, and higher education. Number of children corresponds to the number of children of the respondent's family in the household. Standard errors are clustered at the level of individuals' counties of birth and residence. Estimates are computed using sample weights provided in the censuses.

• Significant at the 1% level.

			A. Local labour markets			E	B. Cities	
Census	Obs	Def	Units	In sample	Obs/unit	Def	Units	Obs/unit
1962	53,841	ZIUP	801	88	67	Commune	5,883	10
1968	370,699	ZIUP	790	90	469	Commune	17,636	23
1975	305,198	ZIUP	857	92	356	Commune	$15,\!692$	21
1982	432,227	ZIUP	859	94	503	Commune	20,625	22
1990	488,450	ZIUP	596	99	820	Commune	22,893	22
1999	106,067	\mathbf{EZ}	331		320	Commune	$11,\!276$	9
2006	660,780	\mathbf{EZ}	331		1,996	Canton-city	$3,\!575$	185
2012	659,636	ΕZ	292		2,259	Canton-city	$3,\!573$	185

Table C.1. Residence Location Units Available in the Censuses 1962–2012

Notes: This table describes the types of residence location units available in the censuses besides the county of residence. The sample consists of migrant married women aged 30 to 49. *In sample* corresponds to the share of observations in the original regression sample that reside in a ZIUP. *Com.* corresponds to *communes*, and *Cant.* to *canton-cities.* See the Data Appendix for a definition of ZIUPs, EZs, communes, and canton-cities. Acronyms: ZIUP = Zone of Industrial and Urban Population; EZ = Economic Zone; Obs = Observations; Def = Definition.

Dependent variable		Employed					
Cohorts	1946-	-1982	1946	-1966			
	(1)	(2)	(3)	(4)			
Military death rate	0.52^{**} [0.22]	0.90^{**} [0.36]	0.78^{***} [0.29]	1.09^{***} [0.39]			
County of birth $=$ parents'	No	Yes	No	Yes			
Clusters							
Birth	92	92	92	91			
Residence	92	92	92	92			
Observations	$167,\!179$	51,387	94,504	30,858			
Outcome mean	0.77	0.78	0.74	0.75			
Outcome s.d.	0.42	0.41	0.44	0.43			
	(2) -	- (1)	(4) -	- (3)			
Difference	0.3 [0.4		-	31 49]			

Table C.2. The Effect of WWI Military Death Rates on FLFP When Parents and
Daughters Are Born in the Same County

Notes: This table reports the OLS coefficients from estimating Equation 2 on the sample of internal migrant married women aged 30 to 59 in the extended labour force surveys 2005–2012. All the regressions contain survey-year and quarter indicators, pre-war controls, and cohort by military region of birth by county of residence fixed effects. Standard errors are clustered at the level of respondents' counties of birth and residence. In Columns 1 and 3, the sample is unrestricted, while in Columns 2 and 4, the sample is restricted to women who were born in the same county as both their parents. Estimates are computed using sample weights provided in the labour force surveys. *** Significant at the 1% level. ** Significant at the 5% level.

D. The Role of World War II

In this section, I show that military fatalities (Section D.1) and war destruction (Section D.2) from WWII had no role in the estimated long-run impact of WWI military fatalities on female labour force participation.

D.1. World War II Military Fatalities

Consider first WWII military death rates. Should these be correlated with WWI military death rates, part of the estimated long-run impact of WWI military fatalities on female labour force participation would be attributable to WWII military fatalities. While this is possible, the magnitude of WWII military fatalities relative to those from WWI implies that this part should be at most marginal. Indeed, about 115,000 French soldiers died during WWII—ten times fewer than WWI military fatalities (1.3 million).¹³

To explore this possibility in more details, I collected the number of French soldiers who died because of WWII for each county from the *Mémoire des Hommes* (MDH) archive. Analogous to WWI military death rates, the WWII military death rate in a county is the ratio of the number of deceased soldiers born in the county to its male population aged 15 to 44 in the census of 1936. WWII military death rates range from 0.7% in Alpes-Maritimes to 3.8% in Finistère. The average WWII military death rate is 1.5%, the 25th percentile, 1%, and the 75th percentile, 2%. WWII military death rates are one order of magnitude lower than WWI military death rates.

I first analyse whether WWI and WWII military death rates are correlated. The systematic variation in WWI military death rates across counties was due to policies implemented by the Ministry of War to sustain the industrial war effort. As a result of these policies, rurality was a strong predictor of WWI military death rates. It was also the case for WWII military fatalities, but to a smaller extent.¹⁴ I report

¹³According to recent estimates (Lagrou, 2002), 150,000 French soldiers died during WWII—slightly lower than the traditional estimate of 170,000 from the report of the *Commission Consultative des Dommages et des Réparations* (1951). This includes 40,000 French soldiers from Alsace-Lorraine forcibly enrolled in the *Wehrmacht* who died on the Eastern Front. Among these 150,000 military fatalities, 25,000 were from Overseas France.

¹⁴About 650,000 French soldiers were affected to war factories at the mobilization in September 1939, representing 14% of the 4.7 million mobilized soldiers (Garraud, 2005). This is comparable

estimates from regressing WWII military death rates on pre-WWI characteristics in Columns 3 and 4 of Appendix Table D.1. Columns 1 and 2 report estimates with an analogous specification for WWI military death rates. Because at least part of the systematic variation in WWII military death rates across counties was due to similar factors than that in WWI military death rates, both measures are correlated: counties that experienced WWI military death rates of 20% rather than 10% experienced 0.7 percentage point greater WWII military death rates (Column 5). While this correlation is statistically significant, including pre-WWI characteristics in Column 6 renders it null. As a result, it is unlikely that part of the estimated long-run impact of WWI military fatalities on female labour force participation is driven by WWII military fatalities.

To support this assertion, I directly estimate the impact of WWII military fatalities on female labour force participation, using Equation 2 with WWII military death rates as the regressor instead of WWI military death rates. I report results in Panel a of Appendix Figure D.1 along with baseline estimates. None of the estimates relative to WWII are significant at conventional levels. Unsurprisingly, when including military death rates relative to both WWI and WWII, estimates relative to WWI are identical to baseline results (Appendix Figure D.1, Panel b).

to the share of recalled soldiers into war factories during WWI.

Dependent variable:		Ν	lilitary de	eath rate	9	
	W	WI				
	(1)	(2)	(3)	(4)	(5)	(6)
WWI military death rate					0.07^{***} [0.02]	-0.02 [0.02]
Pre-WWI characteristics						
Share rural population	0.12^{***} [0.01]	0.14^{***} [0.03]	0.01^{*} [0.00]	0.01 [0.01]		0.01 [0.01]
Share born in county	0.12*** [0.03]	0.15*** [0.04]	0.01^{**} [0.01]	$\begin{bmatrix} 0.01 \\ [0.01] \end{bmatrix}$		0.01 [0.01]
Other characteristics	No	Yes	No	Yes	No	Yes
$\begin{array}{c} \text{Counties} \\ \text{R}^2 \end{array}$	$87 \\ 0.745$	$87 \\ 0.875$	$\begin{array}{c} 87\\ 0.298\end{array}$	87 0.875	$\begin{array}{c} 87\\ 0.269\end{array}$	$\begin{array}{c} 87\\ 0.858\end{array}$
Outcome mean	0.16	0.16	0.02	0.02	0.02	0.02

Table D.1. Military Death Rates and Pre-WWI County Characteristics

Notes: This table reports OLS coefficients from regressing WWI and WWII military death rates on various pre-WWI county characteristics. *Other characteristics* include the female labour force participation rate, the share of girls aged 5–19 in school, the total fertility rate, the average personal wealth per inhabitant in thousand francs, average height, population, the share of men working in industry, in agriculture, the share of literature population, and the average direct taxes per inhabitant. All these variables are measured in 1911, except the average personal wealth which is measured in 1908. Robust standard errors are in brackets.

*** Significant at the 1% level. ** Significant at the 5% level. * Significant at the 10% level.

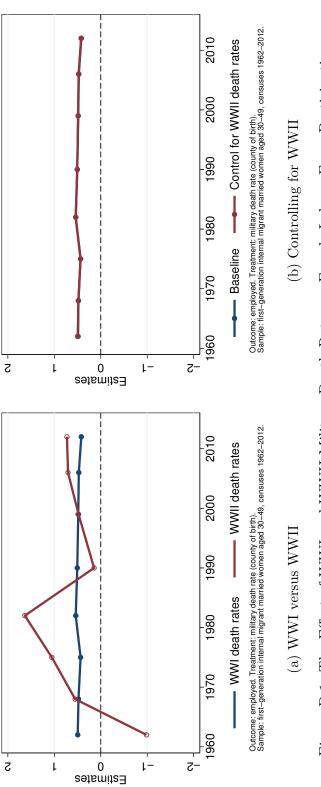


Figure D.1. The Effect of WWI and WWII Military Death Rates on Female Labour Force Participation

Notes: Panel a reports OLS coefficients from estimating Equation 2 separately with WWI military death rates and WWII military death rates as regressors. Panel b reports OLS coefficients when using WWI military death rates as regressor and controlling for WWII military death rates. Standard errors are clustered at the level of respondents' counties of birth and residence. The sample consists of internal migrant married women aged 30 to 49 in the censuses 1962–2012. Estimates are computed using sample weights provided in the censuses. • Significant at the 1% level. \circ Not significant at conventional levels.

D.2. World War II Destruction

Next, consider WWII destruction. Contrary to WWI, destruction resulting from WWII affected most of the territory. While combats in May–June 1940 occurred mostly in the North-East of the territory, combats in 1944 affected both the South-East and the North-West. While the baseline empirical strategy uses county of residence fixed effects, it could still be problematic if WWI military death rates were correlated with WWII destruction. First, losses of physical capital in some counties could have induced a relative decline in the demand for labour in these counties, biasing downward the estimated impact of WWI military fatalities on female labour force participation in these counties. Alternatively, the reconstruction effort in these counties could have induced a relative increase in the demand for labour, biasing estimates upward. The net impact on estimates would then depend on the relative intensity of war destruction vis-à-vis the reconstruction effort, and on the extent of the correlation with WWI military fatalities.

To analyse the potential role of WWII destruction on the estimated long-run impact of WWI military fatalities on female labour force participation, I collected data that capture the extent of destruction from WWII at the county level: the share of a county's area that needed to be cleared from land mines, the share of a county's buildings that were partially or totally destroyed, and the share of a county's factories that were destroyed. The first two variables are from the *Commission Consultative des Dommages et des Réparations* (1951) and the third is from Flaus (1947). Appendix Table D.2 provides summary statistics for destruction measures. Appendix Table D.3 presents correlations between WWI military death rates and WWII destruction. Counties with relatively more WWII destruction experienced relatively less WWI military fatalities. However, the correlation vanishes when including pre-WWI characteristics (Column 5).

To further explore whether WWII destruction could bias the estimated long-run impact of WWI military fatalities on female labour force participation, I re-estimate baseline Equation 2 and include measures of WWII destruction as controls. I report results in Appendix Figure D.2. They imply that WWII destruction do not affect baseline estimates.

Table D.2. Summary Statistics: World War II Destruction

	Mean	S.d.	Min	Max
Share land with mines	0.01	0.01	0.00	0.10
Share buildings partially destroyed	0.01	0.02	0.00	0.11
Share buildings totally destroyed	0.03	0.04	0.00	0.28
Share buildings destroyed	0.04	0.06	0.00	0.40
Share factories destroyed	0.01	0.02	0.00	0.12

Notes: This table reports summary statistics for WWII destruction across the 87 counties for which WWI military fatalities are available. *Share buildings destroyed* is the sum of the share of buildings partially and totally destroyed.

Dependent variable:		WWI n	nilitary dea	th rates	
	(1)	(2)	(3)	(4)	(5)
WWII destruction measures					
Share land with mines	-0.97^{***} [0.30]			-0.78^{**} [0.35]	-0.06 [0.22]
Share buildings destroyed	[]	-0.09 [0.06]		0.04 [0.07]	-0.04 [0.05]
Share factories destroyed		[0.00]	-0.50^{**} [0.19]	-0.38^{*} [0.23]	0.07 [0.14]
$\underline{\text{Pre-WWI characteristics (1911)}}$			[0.13]	[0.20]	[0.14]
Share rural population					0.12^{***}
Share born in county					$[0.03] \\ 0.16^{***} \\ [0.04]$
Other characteristics	No	No	No	No	Yes
Military region FE	No	No	No	No	Yes
$\begin{array}{c} \text{Counties} \\ \text{R}^2 \end{array}$	$\begin{array}{c} 87\\ 0.139\end{array}$	87 0.021	$\begin{array}{c} 87\\ 0.105\end{array}$	$\begin{array}{c} 87\\ 0.182\end{array}$	$87 \\ 0.871$

Table D.3. WWI Military Death Rates and WWII Destruction

Notes: This table reports the OLS coefficients from regressing WWI military death rates on WWII destruction measures and various pre-WWI county characteristics. *Other characteristics* include the female labour force participation rate, the share of girls aged 5–19 in school, the total fertility rate, and the average personal wealth per inhabitant in thousand francs. All these variables are measured in 1911, except the average personal wealth which is measured in 1908. Robust standard errors are in brackets.

*** Significant at the 1% level. ** Significant at the 5% level. * Significant at the 10% level.

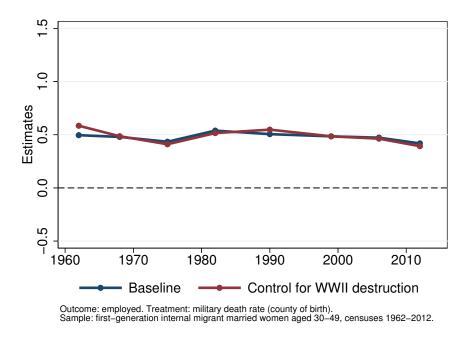


Figure D.2. The Effect of WWI Military Death Rates on FLFP

Notes: This figure reports the OLS coefficients from estimating baseline Equation 2 and controlling for the following measures of WWII destruction: the share of land with mines, the share of buildings partially or totally destroyed during the war, and the share of factories destroyed during the war. Standard errors are clustered at the level of respondents' counties of birth and residence. The sample consists of migrant women aged 30 to 49 in the censuses 1962–2012. Estimates are computed using sample weights provided in the censuses.

• Significant at the 1% level.

E. Further Results

E.1. Alternative Outcomes

As discussed in Section 4.2, fertility and education choices do not appear to mediate the relationship between WWI military death rates and women's working behaviours. To assess this possibility more directly, I estimate the baseline specification for various fertility and education outcomes (Appendix Figures E.1 and E.2). As expected, women born in counties that experienced greater military death rates do not make different fertility or education choices.¹⁵ Moreover, I find that conditional on being employed, these women do not hold more male-biased occupations, where the degree of male-biasedness of an occupation is based on the national-level share of men in an occupation among men and women aged 30 to 49 (Appendix Table E.1).¹⁶ Furthermore, these women do not marry at different rates (Appendix Figure E.4). Reproducing the analysis on the labour force surveys 1982–2012 generates similar results (Appendix Table E.2).¹⁷

E.2. Household-Level Analysis

Husbands and wives can be matched in the censuses when they reside in the same household, which makes a household-level analysis possible. I estimate the baseline specification when including husband and household characteristics as controls. Husband characteristics include husbands age and age squared, indicators for their educational attainment, and indicators for their migration employment status.¹⁸ Household characteristics include an indicator for home ownership, the number of rooms in the home, and a measure of housing quality. These variables attempt to

¹⁵I also find no heterogeneity in the effect of the war on educational attainment across the urban status of the county, where urban status is consists of counties that contain one of the ten largest French cities: Paris (75), Marseille (13), Lyon (69), Toulouse (31), Nice (06), Nantes (44), Montpellier (34), Strasbourg (67), Bordeaux (33), and Lille (59) (Appendix Figure E.3). This implies that the differential supply of education across urban status does not bias the results. I thank a reviewer for suggesting this robustness check.

¹⁶The precise nature of respondents' occupations in the censuses is only available from 1962 to 1999. Moreover, the nomenclature of occupations is different across census, ranging from 188 categories to 454.

¹⁷For more details on the labour force surveys 1982–2012, see Section E.6 below.

¹⁸Educational attainment indicators include primary or lower secondary education (excluded), technical secondary education, high school, and higher education.

capture how wealthy a household is.¹⁹ I report results in Appendix Figure E.5. Estimates are close to the baseline, suggesting that women born in counties that experienced greater military death rates do not choose husbands that differ along these characteristics.

This is broadly confirmed by repeating the analysis with husband and household characteristics as outcomes (Appendix Figures E.6 and E.7). With one caveat: households with women born in counties that experienced military death rates of 20% rather than 10% are on average 5.5 percentage points more likely to own their home, which represents 10% of the mean. Because there is no substitution between wives' and husbands' market work—husbands of women born in counties that experienced greater military death rates are not more likely to be working—this can be rationalized by the fact that these households are richer due to women working more.²⁰

E.3. Heterogeneity Across Categories of Women

To assess the extent of heterogeneity in the labour supply response to WWI military death rates across categories of women, I estimate the baseline specification augmented with a set of interaction terms. I analyse heterogeneity along four types of characteristics: the number of children in the household, education, age, and marital status. To make comparisons more amenable, I report standardized coefficients in Appendix Figure E.8. Women's labour supply does not respond differently to WWI military fatalities across these characteristics. An exception is education, with the labour supply of high school graduates responding statistically significantly more in the 1960s and 1970s. The magnitude of this dimension of heterogeneity remains however small, with a standardized coefficient on the interaction term close to 0.01 between 1962 and 1982.

¹⁹The censuses do not contain explicit wealth, income, or wage measures. See the Data Appendix for more details on how the measure of housing quality is constructed.

²⁰Appendix Figure E.6 reveals that husbands of women born in counties that experienced greater military death rates are more likely to be working during the 2000s. Nevertheless, the magnitudes of coefficients are small at 0.1, suggesting that husbands of women born in counties that experienced military death rates of 20% rather than 10% were 1 percentage point more likely to be working between 2006 and 2012—94% of these men were employed during that period.

E.4. Cohort-Specific Estimates

I estimate the baseline specification separately on each decennial cohort present in the censuses—cohorts 1910 to 1970. I pool all censuses together and include census-year fixed effects. Panel a of Appendix Figure E.9 reports the results. Consistent with baseline results, estimates for each cohort are stable around 0.5 and significant at the 1% level. The magnitude of the long-run impact of WWI military fatalities relative to base rates nevertheless linearly declines across cohorts (panel b).

E.5. Placebo Test with the Male Sample

I reproduce the baseline analysis using the sample of migrant married men aged 30 to 49 in the censuses 1962–2012. Consistent with the original interpretation, I find that while WWI military fatalities had a long-run impact on female labour force participation, they did not affect male labour force participation—estimates are precisely zero (Appendix Figure E.10).

E.6. Evidence from the Labour Force Surveys (1982–2012)

To corroborate results obtained with the censuses, I combine all thirty-one annual labour force surveys from 1982 to 2012. They provide respondents' counties of residence and birth. Labour force surveys have both drawbacks and advantages over the censuses. On the one hand, information about respondents' counties of birth is not available in the surveys prior to 1982, while it is available from 1962 onward in the censuses. Moreover, the sample size of the surveys is smaller than that of the censuses: while most censuses represent 20–25% samples of the population, the labour force surveys represent 1.5–3% samples. On the other hand, the labour force surveys contain a wider range of labour market outcomes: besides labour status, they contain weekly hours worked, ever worked status, the number of months since in current firm, and the monthly wage rate.

I pool all thirty-two labour force surveys and estimate the baseline specification on the sample of internal migrant married women aged 30 to 49 together with survey-year fixed effects. Results are reported in Appendix Table E.3. They are similar to those when using the censuses. The labour force surveys provide other interesting results. While they are more likely to be in the labour force, there is no evidence that women born in counties that experienced greater military death rates are more likely to have been previously working: the coefficient on *Ever worked* is close to zero and non-significant. Moreover, conditional on being working, women born in counties that experienced military death rates of 20% rather than 10% are 3 percentage points less likely to work full time, implying that they work 0.7 less hours per week (2% of mean hours). Moreover, they have been employed for 14 months longer (12% of mean months in firm). All estimates exhibit similar magnitudes, with standardized coefficients between 0.03 and 0.06 in absolute value. These results suggest that women born in counties that experienced greater military death rates have higher attachment to the labour force, but that this impact on the extensive margin does not translate to the intensive margin, since these women work shorter hours.

E.7. Unobserved Heterogeneity in Human Capital

Although there is no evidence that WWI military fatalities had a long-run impact on women's educational attainment—so that heterogeneity in *observed* human capital cannot account for the results—these could be driven by heterogeneity in unobserved human capital. For instance, women born in counties that experienced greater military death rates could have better information about the payoffs from working and about labour market conditions in general, making them more likely to get a higher wage draw and enter the labour force. To assess this possibility, I estimate the baseline specification with log monthly wage rates as the dependent variable on the sample of married women aged 30 to 49 in the labour force surveys 1982–2012 through a Heckman selection model in which husbands' characteristics are used to control for selection into the labour force—husbands ages and age squared, education levels and employment status. I report results in Appendix Table E.4. The coefficient on military death rates is close to zero and non-significant. Controlling for educational attainment does not alter results. Overall, there is no evidence that heterogeneity in unobserved human capital helps explain the long-run impact of WWI military fatalities on women's working behaviours.

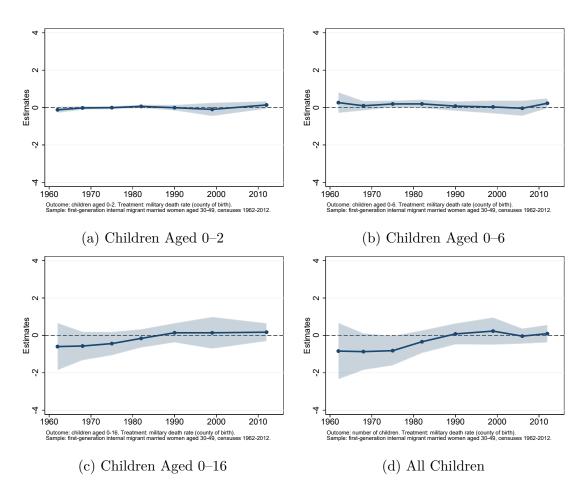


Figure E.1. The Effect of WWI Military Death Rates on Fertility

Notes: This figure presents OLS coefficients from estimating Equation 2 with the number of own children in the household as outcomes along with 95% confidence intervals, on the sample of internal migrant married women aged 30 to 49 in the censuses 1962–2012. The census of 2006 do not provide the number of children by age, so it is excluded from Panels a, b, and c. In panel a, the number of children is for ages 0–3 for the censuses of 1990 and 2012. In Panel c, the number of children is for ages 0–18 for the censuses of 2012. Standard errors are clustered both at the level of the respondents' counties of birth and counties of residence. Estimates are computed using sample weights provided in the censuses.

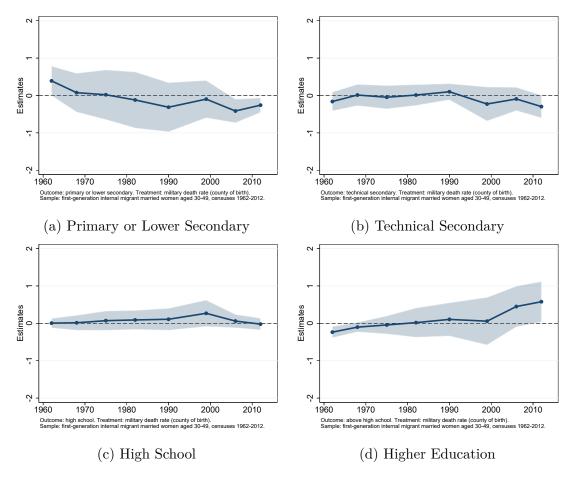


Figure E.2. The Effect of WWI Military Death Rates on Educational Attainment

Notes: This figure presents OLS coefficients from estimating Equation 2 with indicators for educational attainment as outcome along with 95% confidence intervals on the sample of internal migrant married women aged 30 to 49 in the censuses 1962–2012. Standard errors are clustered both at the level of the respondents' counties of birth and counties of residence. Estimates are computed using sample weights provided in the censuses.

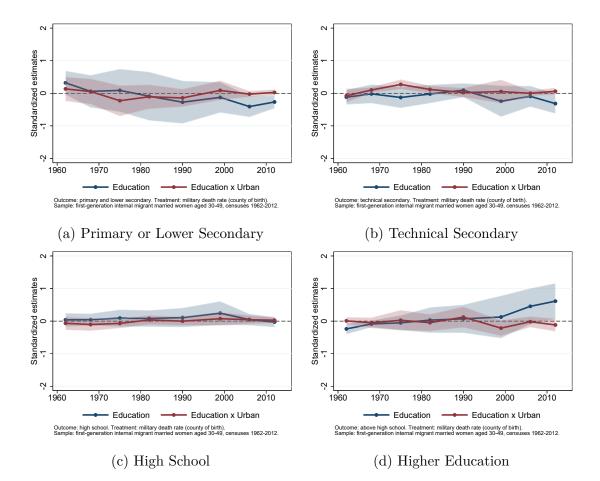


Figure E.3. The Effect of WWI Military Death Rates on Educational Attainment Heterogeneity Across Urban Status

Notes: This figure presents OLS coefficients from estimating Equation 2 with indicators for educational attainment as outcome interacted with an indicator for the urban status of the county, along with 95% confidence intervals on the sample of internal migrant married women aged 30 to 49 in the censuses 1962–2012. A county is considered urban if it hosts one of the ten largest cities in France. Standard errors are clustered both at the level of the respondents' counties of birth and counties of residence. Estimates are computed using sample weights provided in the censuses.

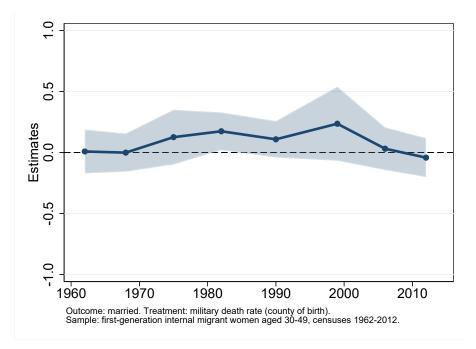


Figure E.4. The Effect of WWI Military Death Rates on Marital Status

Notes: This figure presents OLS coefficients from estimating Equation 2 with an indicator for being married as the outcome along with 95% confidence intervals on the sample of internal migrant women aged 30 to 49 in the censuses of 1962–2012. Standard errors are clustered both at the level of the respondents' counties of birth and counties of residence. Estimates are computed using sample weights provided in the censuses.

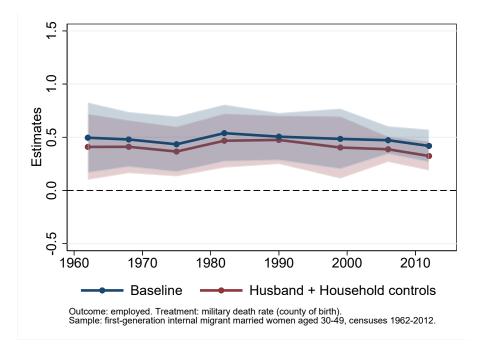


Figure E.5. The Effect of WWI Military Death Rates on FLFP Household and Husband Controls

Notes: This figure reports OLS coefficients from estimating Equation 2 on the sample of internal migrant married women aged 30 to 49 in the censuses 1962–2012, when adding household and husband controls. Husband characteristics include husbands age and age squared, indicators for their educational attainment, and an indicator for whether they are employed. Household controls include an indicator for whether the household owns its housing, the number of rooms in the home, and a measure of housing quality. Standard errors are clustered both at the level of respondents' counties of birth and counties of residence. Estimates are computed using sample weights provided in the censuses.

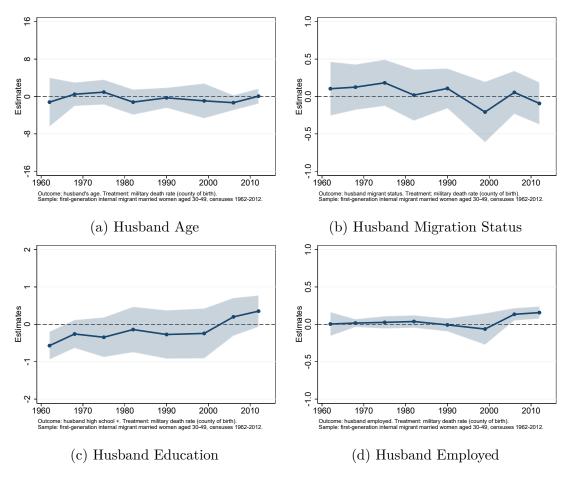


Figure E.6. The Effect of WWI Military Death Rates on Husband Characteristics

Notes: This figure reports OLS coefficients from estimating Equation 2 along with 95% confidence intervals on the sample of internal migrant married women aged 30 to 49 in the censuses 1962–2012. Outcomes are husbands' age in Panel a, indicators for whether husbands are internal migrants in Panel b, have at least gone through high school in Panel c, and are employed in Panel d. Estimates are computed using sample weights provided in the censuses.

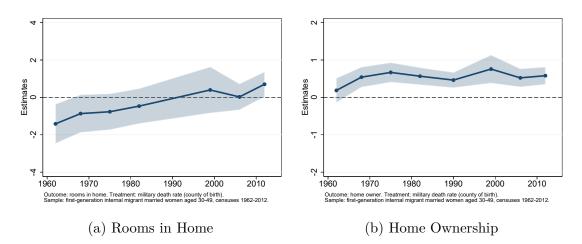


Figure E.7. The Effect of WWI Military Death Rates on Home Characteristics

Notes: This figure reports OLS coefficients from estimating Equation 2 along with 95% confidence intervals on the sample of internal migrant married women aged 30 to 49 in the censuses 1962–2012. Outcomes are the number of rooms in the home in Panel a and an indicator for whether the household owns their home in Panel b. Estimates are computed using sample weights provided in the censuses.

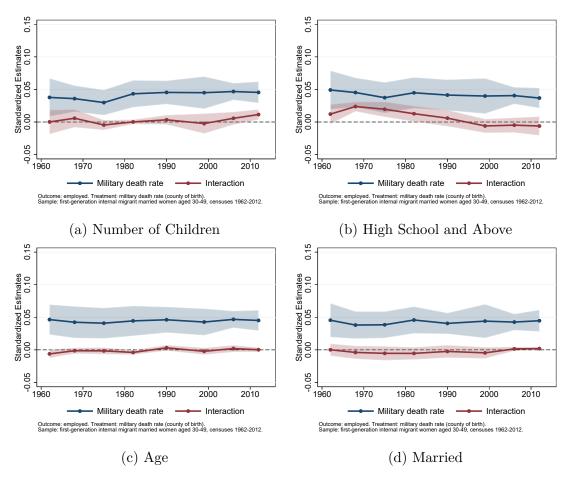
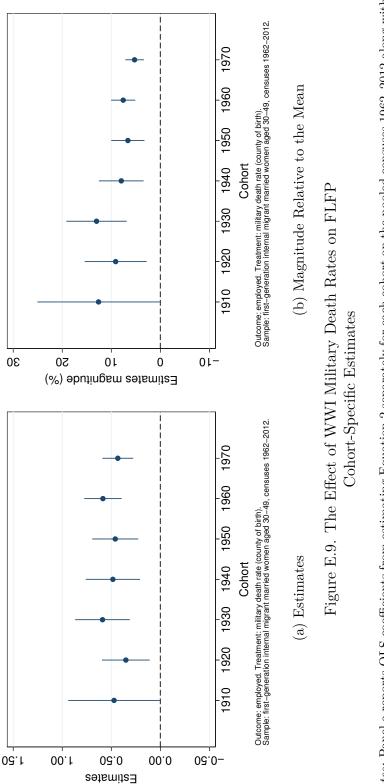


Figure E.8. The Effect of WWI Military Death Rates on FLFP Heterogeneity Across Observable Characteristics

Notes: This figure presents OLS coefficients from estimating Equation 2 together with interactions for various characteristics and 95% confidence intervals, on the sample of migrant married (except in Panel d) women aged 30 to 49 in the censuses 1962–2012. In Panel a, the baseline specification is augmented with the number of own children in the household and the interaction between the number of children and the military death rate exposure of the county of birth of the respondent; in Panel b, the specification adds an indicator variable for whether the respondent is a high school graduate together with the interaction term; in Panel c, the specification controls for age together with the interaction term (age fixed effects are not included); in Panel d, the specification adds an indicator variable for whether the respondent is married together with the interaction term. Standard errors are clustered both at the level of the respondents' counties of birth and counties of residence. Estimates are computed using sample weights provided in the censuses.



Notes: Panel a reports OLS coefficients from estimating Equation 2 separately for each cohort on the pooled censuses 1962–2012 along with 95% confidence intervals around the estimates on the sample of migrant married women aged 30 to 49. All regressions include census-year fixed effects. The dependent variable is an indicator for whether the respondent is employed. Standard errors are clustered both at the level of respondents' counties of birth and counties of residence. Panel b reports the magnitude of coefficients from panel a with respect to the outcome mean. The magnitude is interpreted as the share of the mean in the dependent variable explained by switching from being born in a county exposed to a military death rate of 10% to a county exposed to a military death rate of 20%.

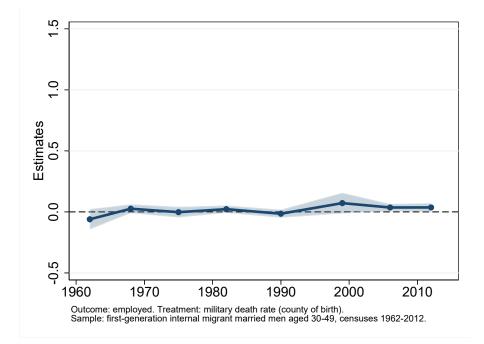


Figure E.10. The Effect of WWI Military Death Rates on Male Labour Force Participation

Notes: This figure presents OLS coefficients from estimating Equation 2 along with 95% confidence intervals on the sample of internal migrant married men aged 30 to 49 in the censuses 1962–2012. Standard errors are clustered both at the level of the respondents' counties of birth and counties of residence. The sample consists of internal migrant married men aged 30 to 49. The estimates are computed using sample weights provided in the censuses.

Dependent variable		Share	of Men in	Own Prot	fession	
	(1)	(2)	(3)	(4)	(5)	(6)
Military death rate	0.08 [0.19]	0.00 [0.08]	-0.02 [0.08]	-0.02 [0.06]	-0.11 [0.07]	0.06 [0.12]
Census Number of professions	$1962 \\ 392$	$\begin{array}{c} 1968\\ 328 \end{array}$	$\begin{array}{c} 1975\\ 128 \end{array}$	$\begin{array}{c} 1982\\ 466\end{array}$	$\begin{array}{c} 1990\\ 454 \end{array}$	$\begin{array}{c} 1999\\ 454 \end{array}$
County of residence FE Historical controls	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Yes Yes
Clusters County of birth County of residence	87 87	92 92	92 92	92 92	92 92	92 92
Observations	17,626	$156,\!559$	$156,\!679$	267,541	328,095	69,118
Outcome mean Outcome s.d.	$0.42 \\ 0.25$	$0.40 \\ 0.26$	$0.39 \\ 0.26$	$0.33 \\ 0.25$	$0.33 \\ 0.25$	$0.33 \\ 0.25$

Table E.1. The Effect of WWI Military Fatalities on Occupational Segregation

Notes: This table displays OLS coefficients from estimating Equation 2. The units of observations are first-generation internal migrant married women aged 30 to 49 that are employed. The outcome is the national-level share of men in the respondent's occupation. Estimates are computed using sample weights provided in the censuses. Standard errors are in brackets and are clustered both at the levels of counties of birth and of residence.

Dependent variable	Num	Number of children	dren		Educations	Educational attainment	t
	0-3	0^{-18}	All	Primary	Tech. sec.	High sch.	Higher ed.
	(1)	(2)	(3)	(4)	(5)	(9)	(2)
Military death rate	0.26 [0.17]	-0.17 [0.51]	-0.09 [0.54]	-0.44 [0.38]	0.22 $[0.34]$	0.10 [0.23]	0.11 $[0.39]$
Clusters Counties of birth Counties of residence	$\begin{array}{c} 92\\ 92\end{array}$	$\begin{array}{c} 92\\ 92 \end{array}$					
Observations	242, 296	242, 296	242, 296	242, 296	242, 296	242, 296	242, 296
Outcome mean	0.16	1.43	1.70	0.24	0.23	0.16	0.37

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wave fixed effects, and cohort by military region of birth by county of residence fixed effects. *Primary*: primary education; *Tech. Sec.*: technical secondary education; *High sch.*: high school; *Higher ed.*: higher education. Standard errors are in brackets and are clustered both at the level of respondents' counties of women aged 30 to 49 in the labour force surveys 1982–2012. All regressions include pre-war controls, survey household and educational attainment indicators as outcomes on the sample of internal migrant married birth and of residence. Estimates are computed using sample weights provided in the labour force surveys.

Dependent variable	Employed	Active	Ever worked	Full time	Hours	Months in firm
	(1)	(2)	(3)	(4)	(5)	(6)
Military death rate	0.69^{***} [0.19]	0.63^{***} [0.17]	0.07 [0.06]	-0.30^{*} [0.17]	-7.1^{**} [3.5]	141^{***} [39]
Sample	All	All	All	Employed	Employed	Employed
Clusters Birth counties Residence counties	92 92	92 92	92 92	92 92	92 92	92 92
Observations	$244,\!115$	244,115	244,115	$170,\!550$	170,550	170,550
Outcome mean Outcome s.d.	$0.77 \\ 0.42$	$\begin{array}{c} 0.82\\ 0.38\end{array}$	$\begin{array}{c} 0.98\\ 0.14\end{array}$	$\begin{array}{c} 0.69 \\ 0.46 \end{array}$	$35.3 \\ 10.9$	$\begin{array}{c} 117\\91 \end{array}$
Standardized coef.	0.06^{***} [0.02]	0.06^{***} [0.02]	0.02 [0.01]	-0.03^{*} [0.01]	-0.03^{**} [0.01]	0.06^{***} [0.02]

Table E.3. The Effect of WWI Military Death Rates on FLFP

Notes: This table reports the OLS coefficients from estimating Equation 2 across various labour market outcomes on the sample of internal migrant married women aged 30 to 49 in the labour surveys 1982–2012. All regressions include survey-year fixed effects, pre-war controls, and cohort by military region of birth by county of residence fixed effects. Standard errors are in brackets and are clustered both at the level of respondents' counties of birth and counties of residence. Estimates are computed using sample weights provided in the labour force surveys.

*** Significant at the 1% level. ** Significant at the 5% level. * Significant at the 10% level.

Dependent variable	Log m	onthly wa	ge rate
	(1)	(2)	(3)
Military death rate	-0.05 [0.27]	-0.13 [0.19]	-0.20 [0.18]
Years of education	No	Yes	No
Education category FE	No	No	Yes
Clusters			
Birth counties	92	92	92
Residence counties	92	92	92
Observations	179,254	179,254	179,254
Censored observations	73,787	73,787	73,787
Outcome mean	8.69	8.69	8.69

Table E.4. The Effect of WWI Military Death Rates on Female Wage Rates

Notes: This table presents the coefficients from estimating Equation 2 with the log monthly wage rate as the outcome through a Heckman selection model on the sample of internal migrant married women aged 30 to 49 in the labour force surveys 1982–2012. All regressions include survey-year fixed effects as well as cohort, military region of birth, and county of residence fixed effects. Education categories consist of no schooling (excluded), primary education, secondary education, and higher education. The selection equation includes the following husband characteristics: husband age and age squared, education level, and employment status. Standard errors are in brackets and are clustered both at the level of respondents' counties of birth and of residence. Estimates are computed using sample weights provided in the labour force surveys.

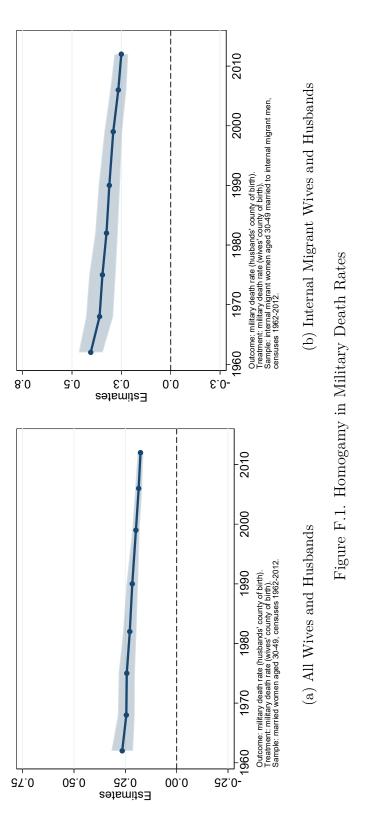
F. Homogamy in Military Death Rates

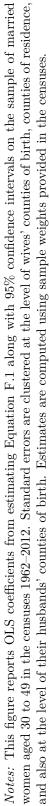
In this appendix, I provide evidence for homogamy in military death rates. That is, women born in counties that experienced greater military death rates are more likely to marry men born in counties that experienced greater military death rates, and vice versa. Using the censuses 1962 to 2012, I estimate the following specification on the sample of married women aged 30 to 49:

(F.1)
$$\begin{array}{rcl} \texttt{death_rate}_{ihbrt}^{\texttt{husb}} &=& \beta \ \texttt{death_rate}_b + \alpha_1 \mathbf{X}'_{1911,b} + \alpha_2 \mathbf{X}'_{1911,h} + \boldsymbol{\theta}_{i;r} \\ &+& \eta \ \texttt{Same}_{bh} + \mu \ \texttt{ldist}_{bh} + \varepsilon_{ihbrt}, \end{array}$$

where death_rate^{husb}_{ihbrt} denotes the military death rates exposure of the county of birth of husband h of wife i, and $\theta_{i;r}$ are cohort by county of residence fixed effects. $\mathbf{X}_{1911,b}$ and $\mathbf{X}_{1911,h}$ contain the set of pre-war controls corresponding to wives' and husbands' counties of birth, respectively. Wives' and husbands' military death rates are positively correlated as individuals born in the same county are more likely to marry with one another—this is the case for 43–57% of couples, with a downward trend over the period. To assess the extent of homogamy in military death rates beyond marriages between individuals born in the same county, I include an indicator variable (Same_{bh}) for whether spouses were born in the same county. I also include the log distance between wives' and husbands' counties of birth (ldist_{bh}). I cluster standard errors at the levels of wives' counties of birth and residence, and also at the level of their husbands' counties of birth.

I report results in Panel a of Appendix Figure F.1. There is a positive correlation between spouses birth counties' military death rates: each additional percentage point in military death rates exposure of wives' counties of birth is associated with an increase of 0.21 to 0.26 percentage point in the military death rates exposure of their husbands', with a downward trend from 1962 to 2012. The correlation is slightly larger for internal migrant couples—from 0.26 to 0.41 percentage point (Panel b). In Section 6, I provide evidence that one potential reason behind such homogamy is the more progressive views toward female labour held by women and men whose lineage was exposed to greater military death rates.





G. The Distribution of Household Tasks

In this appendix, I explore whether the war had long-run implications for the distribution of household tasks among couples. In particular, I explore whether men born in counties that experienced greater military death rates perform relatively more household and childcare tasks, thereby freeing some time for their wives to enter the labour force. Analogously, I also explore whether women born in counties that experienced greater military death rates perform relatively less household and childcare tasks.

To this end, I use the Generation and Gender Survey (GGS) of 2005, as it contains questions related to the distribution of two types of household tasks along with respondents' counties of birth and of residence: household chores (cooking, dish washing, grocery shopping, ironing, vacuuming) and child care (who dresses children, takes them to bed, stays with them when they are sick, plays with them, helps them with their homework, brings them to activities). Respondents were asked who performed these tasks: "always me," "mostly me," "as much me as my partner," "mostly my partner," and "always my partner." Here, I assign value 1 to "always me" and 0 to "always my partner," and use 0.25-point increments for responses in between. Hence, higher values indicate that the respondent is doing a larger share of household chores. Finally, I aggregate these statements linearly and standardize them on a one-point scale.

I report summary statistics in Appendix Table G.1 for the sample of internal migrant married respondents whose spouse is present in the household, among couples in which wives are 30 to 49 years old. Women perform most household chores, with an average index at 0.75 against 0.32 for men. Moreover, while women also perform most childcare tasks, men share a larger burden of these activities, as the an average index is 0.40 for men and 0.66 for women.

The analysis explores whether changes to the distribution of household production can help explain why men born in counties that experienced greater military death rates are more likely to have a working wife. To that end, I assess whether men born in counties that experienced greater military death rates perform relatively more household and childcare tasks, thereby freeing some time for their wives to enter the labour force:²¹

(G.1)
$$index_{ibr} = \beta death_rate_b + \alpha X'_{1911,b} + \gamma_i + \delta_r + \varepsilon_{ibr},$$

where $index_{ibr}$ is the household chores or the childcare index of man *i* born in county *b*, and residing in county *r*. $X_{1911,b}$ corresponds to a set of pre-war controls assigned at the level of the respondent's county of birth, γ_i , to cohort fixed effects, and δ_r , to county of residence fixed effect. I further augment this baseline specification with household and spouse-level controls (household size, type of housing, number of children in the household, and spouses' education level, activity status, and age). I use two-way clustering and cluster standard errors at the levels of respondents' counties of birth and of residence. β is identified from variations in household tasks performed by men of the same cohort and residing in the same county, but who were born in counties that experienced different military death rates.

Panel A of Appendix Table G.2 reports the results. Estimates imply that WWI military fatalities have no impact on men's participation to household tasks. This suggests that this channel cannot explain why wives of men born in counties that experienced greater military death rates are more likely to participate in the labour force. To support this result, I further estimate the same specification on the sample of female respondents. Results in Panel B of Appendix Table G.2 confirm that women born in counties that experienced greater military death rates are not less likely to participate in household tasks.

²¹Ideally, one would have further controlled for wives' counties of birth and considered directly their participation to household tasks. However, the GGS only interrogated one person per household, so that information on the county of birth of respondents' spouses is not available. Nevertheless, participation of men in household tasks can be thought of as revealing their wives' participation in household tasks.

A. Chore	es		B. Childcare			
Activities	Men Women		Activities	Men	Women	
1. Cooking	$0.30 \\ (0.28)$	$0.80 \\ (0.25)$	1. Dressing children	$\begin{array}{c} 0.33 \\ (0.20) \end{array}$	0.72 (0.22)	
2. Washing Dishes	0.43 (0.26)	$0.66 \\ (0.25)$	2. Putting to bed	0.44 (0.21)	$0.62 \\ (0.20)$	
3. Buying Groceries	$\begin{array}{c} 0.38 \\ (0.29) \end{array}$	$0.74 \\ (0.26)$	3. Attending when sick	$\begin{array}{c} 0.33 \\ (0.25) \end{array}$	$0.77 \\ (0.26)$	
4. Ironing	$0.17 \\ (0.25)$	$0.86 \\ (0.24)$	4. Playing with children	$0.47 \\ (0.16)$	$0.57 \\ (0.18)$	
5. Vacuuming	0.34 (0.27)	$0.70 \\ (0.26)$	5. Aiding with homework	$0.39 \\ (0.21)$	$\begin{array}{c} 0.63 \\ (0.22) \end{array}$	
			6. Bringing to activities	$0.42 \\ (0.24)$	$0.67 \\ (0.25)$	
Household chores index (five-point scale)	$1.61 \\ (0.85)$	3.75 (0.78)	Childcare index (six-point scale)	2.37 (0.74)	$3.98 \\ (0.86)$	
Household chores index (one-point scale)	$0.32 \\ (0.17)$	$0.75 \\ (0.16)$	Childcare index (one-point scale)	$0.40 \\ (0.12)$	$0.66 \\ (0.14)$	
Observations	296	404	Observations	214	296	

Table G.1. Distribution of Household Chores and Childcare

Notes: This table reports summary statistics for the distribution of household chores on the sample of internal migrant married respondents whose spouse is present in the household, among couples in which the wife is 30 to 49 years old. Higher values indicate that respondents do more chores. Standard deviations are in parenthesis. Data from the GGS (2005).

Sample	A. Male Respondents				B. Female Respondents			
Dependent variable	Chores		Childcare		Chores		Childcare	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Military death rate	$0.56 \\ [0.76]$	-0.07 [0.85]	0.48 [0.73]	0.27 [0.89]	0.87 [0.59]	-0.07 [0.61]	0.22 [0.66]	0.20 [0.60]
Residence county FE Controls	Yes No	Yes Yes	Yes No	Yes Yes	Yes No	Yes Yes	Yes No	Yes Yes
Clusters Residence county Birth county	88 67	87 66	77 57	$\frac{75}{56}$	$\frac{82}{63}$	82 63	82 58	82 58
Observations	336	329	243	235	426	426	315	315
Outcome mean	0.32	0.32	0.39	0.39	0.75	0.75	0.66	0.66

Table G.2. The Effect of WWI Military Death Rates on Household Tasks

Notes: This table reports the OLS coefficients from estimating Equation G.1 with the household chores and the childcare indexes as outcomes on the sample of internal migrant married respondents whose spouse is present in the household, among couples in which the wife is 30 to 49 years old. Panel A reports estimates relative to male respondents, and Panel B, estimates relative to female respondents. All regressions include pre-war controls as well as cohort and county of residence fixed effects. Additional controls include household, and spouse characteristics (education level fixed effects, activity status fixed effects, and age). Standard errors are clustered at the level of respondents' counties of birth and of residence. Estimates are computed using sample weights provided in the Generation and Gender Survey (2005).

H. Data Appendix

H.1. World War I Military Death Rates

I assemble a novel dataset to build a precise measure of WWI military death rates at the county level. I collected data for all French soldiers who died because of the war from the *Mémoire des Hommes* (MDH) archive made available by the French Ministry of Defense.²² The archive contains information about soldiers who received the mention "Mort pour la France" ("Died for France"), and those who did not. The mention "Mort pour la France" was given to all soldiers who died because of the war, except to those who died following an execution by the French military due to treason, desertion, or mutiny. More precisely, the mention "Mort pour la France" was created by the law of July 2, 1915. This first article of the this law stipulates that "/t/he death certificate of a servicemen of the army or the navy killed in combat or dead from injuries or a disease sustained on the battle field [...] shall [...] contain the mention: 'Died for France' " (Journal Officiel de la République Française, Lois et Décrets, 47(184), p. 4653, July 9, 1915). I recorded all soldiers from the MDH archive and extract first name, last name, date of birth, and place of birth. I then cleaned the dataset, excluding soldiers born outside of France, and removing any duplicate.²³ An example of a military record available in the MDH archive is shown in Appendix Figure H.1 below.

²²The original archive is accessible at http://www.memoiredeshommes.sga.defense.gouv.fr.

This data is also used in Boehnke and Gay (2022) and available in Boehnke and Gay (2020). ²³Officers were more likely to have duplicate records.

© Ministèr e de la défense - Mémoire des Hommes ARTIE À REMPLIR PAR LE CORPS. N Nom iere **l'rénoms** blane en Grade Pica Corps an Corps. - Cl. Nº. Matricule. Javin a. Recrutement 00 Mort pour la France le ra Genre de mort 184 Né le audbépartement Saourel Lou Arr' municipal (p' Paris et Lyon), à défaut rue et N°. Jugement rendu le par le Tribunal de acte ou sugement transcrit le in Nº du registre d'état civil 101-708-1922. [26434]

Figure H.1. Example of Military Record

 $\it Notes:$ Military record from the Mémoire des Hommes archive made available by the Ministry of Defense.

H.2. Pre-World War I Data

Population (total, by sex and age) Data for the population by sex and age used to compute sex ratios by age group and county between 1901 and 1946 are from the censuses:

- 1901: Résultats statistiques du recensement de la population 1901, Partie 2, Tableau VII, "Population présente totale suivant le sexe, l'état de famille et l'âge, par département" (pp. 366–407).
- 1906: Résultats statistiques du recensement de la population 1906, Partie 2, Tableau IV, "Population présente totale suivant le sexe et l'année de naissance, par département" (pp. 154–165), and Tableau V, "Population présente totale suivant le sexe, l'état matrimonial et l'âge, par département" (pp. 166–169).
- 1911: Résultats statistiques du recensement de la population 1911, Partie 2, Tableau VII, "Population présente totale suivant le sexe, l'état matrimonial et l'année de naissance, par département" (pp. 98–137).
- 1921: Résultats statistiques du recensement de la population 1921, Partie 2, Tableau V, "Population présente totale suivant le sexe, l'âge et le degré d'instruction" (pp. 84–91), and Tableau VI, "Population présente totale suivant le sexe, l'état matrimonial et l'âge" (pp. 92–99).
- 1926: Résultats statistiques du recensement de la population 1926, Partie 2, Tableau III, "Population présente totale suivant le sexe et l'âge" (pp. 82–89), and Tableau IV, "Population présente totale suivant le sexe, l'état matrimonial et l'âge" (pp. 90–97).
- 1931: Résultats statistiques du recensement de la population 1931, Partie 2, Tableau IV, "Population présente totale suivant le sexe et l'âge" (pp. 82–89), and Tableau V, "Population présente totale suivant le sexe, l'état matrimonial et l'âge" (pp. 90–97).
- 1936: Résultats statistiques du recensement de la population 1936, Partie 2, Tableau V, "Population présente totale suivant le sexe et l'âge" (pp. 86–93), and Tableau VI, "Population présente suivant le sexe, l'état matrimonial et l'âge" (pp. 94–101).

• 1946: *Résultats statistiques du recensement de la population* 1946, Partie 1, Tableau IV, "Population par sexe, âge et état matrimonial" (pp. 10–65).

Share of rural population The share of rural population in 1911 combines the total population with the rural population—the population that resides in cities with fewer than 2,000 residents. It is from the census of 1926: *Résultats Statistiques du Recensement de la Population* 1926, Partie 1, Tableau V, "Population urbaine et rurale par département, en 1872, 1911, 1921 et 1926" (p. 102).

Share of population born in the county The share of population born in the county in 1911 combines the total population born in the county and the total population. It is from the census of 1911: *Résultats Statistiques du Recensement de la Population* 1911, Partie 2, Tableau VIII, "Population présente totale par département suivant le lieu de naissance des Français et la nationalité des étrangers" (pp. 138–141).

Female labour force participation Female labour force participation rates in 1911 are computed as the ratio of working women to women aged 15 and above. As detailed in Boehnke and Gay (2022), I subtract female *chefs d'établissement* in farming. This measure is from the census of 1911: *Résultats Statistiques du Recensement de la Population* 1911, Partie 3, Tableau XXVII, "Population active par grandes catégories professionnelles, suivant la position par département" (pp. 156–167).

Share of girls aged 5 to 19 in school The share of girls aged 5 to 19 in school in 1911 combines the number of girls in elementary and secondary public and private schools and the number of girls aged 5 to 19. Data are from the *Annuaire Statistique de la France* 1912, Partie 2, Section E, Instruction, Tableau II, "Écoles primaires élémentaires et supérieures en 1911–1912" (p. 19).

Total fertility rate The total fertility rate in 1911 is computed as the sum of fiveyear age-specific birth rates times 5, where an age-specific birth rate is computed as $(\texttt{birth}_x/\texttt{population}_x) \times 1000$. \texttt{birth}_x is the number of live births to mothers in age group x and population_x is the number of women in age group x.²⁴ Age groups for birth_x are: under 15, 15–19, 20–24, 25–29, 30–34, 35–39, 40–44, and above 45. Age groups for population_x are: 10–14, 15–19, 20–24, 25–29, 30–34, 35–39, 40–44, and 45–49. Data for the number of live births are from the *Statistique du Mouvement de la Population* 1911–1913, Tableau XLIII, "Naissances d'après l'âge de la mère" (pp. 116–119). Population data are from the census of 1911: *Résultats Statistiques du Recensement de la Population* 1911, Partie 2, Tableau VII, "Population présente totale suivant le sexe, l'état matrimonial et l'année de naissance, par département" (pp. 98–137).

Personal wealth per inhabitant Total personal wealth in Frances per inhabitants aggregates 13 different wealth indicators in 1908—government stocks, obligations and bonds, stocks, interests, life insurance, savings accounts, banking accounts, buildings, etc. This variable is from Cornut (1963, p. 411).

Age Average age in 1911 is computed as a weighted average, where weights are the shares of the population in each 5-years bin provided by the census and where I assign the midpoint of the age bin as the relevant age for the bin. Data are from the census of 1911: *Résultats Statistiques du Recensement de la Population* 1911, Partie 2, Tableau VII, "Population présente totale suivant le sexe, l'état matrimonial et l'année de naissance, par département" (pp. 98–137).

Height (cm) Average height in 1911 corresponds to average height of conscripts drafted in the army in 1911. Height measures are available in one-centimeter intervals. Hence, I compute a weighted average height, where weights are shares of the population in each height bin. Data are from the *Compte Rendu sur le Recrutement de l'Armée dans l'Année 1912*, Tableau O, "Énumération des différents degrés de taille des jeunes gens de la classe 1911 maintenus sur les tableaux de recensement" (pp. 90–91).

Share of active male population in the industrial sector The share of active male population in the industrial sector in 1911 is from the census of 1911: *Résul*-

 $^{^{24}}$ For presentation purposes in Table 2, I divide the total fertility rate by 1,000.

tats Statistiques du Recensement de la Population 1911, Partie 3, Tableau XXVII, "Population active par grandes catégories professionnelles, suivant la position par département" (pp. 156–167).

Share of literate population The share of literate population in 1911 corresponds to the share of conscripts that are literate at the time of recruitment in 1911. Data are from the *Annuaire Statistique de la France* 1912, Partie 2, Section E, a, Tableau I, "Degré d'instruction des jeunes gens de la classe de 1911 maintenus sur les listes de tirages" (pp. 15–16).

Direct taxes (France per inhabitant) Amounts of direct taxes collected in Francs per inhabitant in 1911 are from the *Annuaire Statistique de la France* 1911, Partie 5, Section E, c, Tableau II, "Montant des contributions directes, par département, pour l'année 1911" (pp. 296–299).

Bilateral migration flows The number of residents born in each other counties are from the census of 1911: *Résultats Statistiques du Recensement de la Population* 1911, Partie 4, Tableau I.

Support to Female Suffrage in June 1914 Data for députés' support to female suffrage in June 1914 are from an open letter written by several women's rights organizations addressed to the Assemblée Nationale. This letter was found at the Bibliothèque Marguerite Durand (cited in Bouglé-Moalic, 2012).

Votes on the Extension of Suffrage and Eligibility to Women in Labour Courts Data for députés' votes on the extension of suffrage and eligibility to women in labour courts (*conseils de prud'hommes*) in February 1901 are from the *Journal Officiel de la République Française*, *Débats Parlementaires*, 7e Législature, Session ordinaire de 1901, pp. 397–410, February 13, 1901. I focus on votes on article 5, paragraph 5 of the law instituting labour courts, which specifically extends the franchise and eligibility to women. The law itself passed on March 27, 1907.

H.3. World War II Data

H.3.1. World War II military death rates

To build a measure of WWII military death rates at the county level, I collected the number of deceased soldiers born in each county who are registered in the Mémoire des Hommes (MDH) archive held by the Ministère des Armées.²⁵ I exclude individuals whose mention is "unknown" or "undecided," as these have not been recognized as fatalities resulting from WWII. Soldiers comprise those who fought in the French army between September 1939 and June 1940, in the *France Libre* between July 1940 and May 1945, in the Vichy army between June 1940 and November 1942, in the French Resistance between June 1940 and February 1944, and in the French Forces of the Interior between February 1944 and August 1944.

H.3.2. World War II destruction measures

Area with land mines (hectares) The area that needs to be cleaned of land mines after WWII is from the map IV (insert), "Superficies à Déminer", in *Commission Consultative des Dommages et des Réparations* (1951).

Buildings destroyed The share of buildings that were partially or totally destroyed during WWII is from map II, "Destructions Immobilières au 1-12-47", in *Commission Consultative des Dommages et des Réparations* (1951).

Factories destroyed Share of factories that were destroyed during WWII is from Flaus (1947, p. 367). This source only provides the data for 27 counties that experienced most destruction of factories (i.e., at least 1%). I assign value 0 to all other counties.

H.4. Contemporaneous Data

I detail sources and definitions of contemporaneous variables used in the analysis. I describe the censuses (1962–2012), the labour force surveys (1982–2012), the extended version of the labour force surveys (2005–2012), and the Gender and Generation survey (2005).

²⁵The original archive is accessible at http://www.memoiredeshommes.sga.defense.gouv.fr.

H.4.1. Censuses 1962–2012

Census of 1962

Source The census of 1962 was produced by the INSEE and is disseminated by the ADISP-CMH: *Recensement de la population 1962: fichier détail au 1/20* (INSEE, 1962).

Sample selection The sample used throughout the analysis comprises French women living in ordinary housing and not in group quarters, aged 30 to 49, that are internal migrants. This corresponds to the following selection criteria:²⁶

- Housing category = ordinary housing (CL = 1).
- Population category = ordinary households (1954 definition) (CP = 0).
- Nationality = French (NC = 0).
- Age = 30-49 (AD = 30-49).
- Sex = female (S = 2).
- Birth county ! = residence county (DN <math>! = DR).

I further remove individuals born outside France, those born or residing in the three counties that France recovered after WWI—Bas-Rhin (67), Haut-Rhin (68), and Moselle (57).

Variables

Labour force participant: activity type = active (TA = 1-7). Based on question 11 of the individual bulletin: "Indicate the occupation or job you are currently holding. A woman taking care of her household will reply 'no occupation'." Also uses answers to questions 16 and 17.

 $^{^{26}}$ The variable names and codes correspond to those in the original censuses.

- Employed: activity type = employed (TA = 1). Based on question 11 of the individual bulletin: "Indicate the occupation or job you are currently holding. A woman taking care of her household will reply 'no occupation'." Also uses answers to questions 16 and 17.
- Education levels. Based on question 10 of the individual bulletin: "Among the following diplomas, indicate all of which you possess."
 - Primary or lower secondary education: general or superior education diploma = certificat d'études primaires or BEPC ou brevet élémentaire or aucune déclaration (EGI = 1, 2, or 9) and professional or technical education diploma = aucune déclaration (FPTD = 9).
 - Technical secondary education: professional or technical education diploma
 ! = aucune déclaration (FPTD ! = 9) and general or superior education diploma ! = baccalauréat ou brevet supérieur or diplômes de niveau supérieur au 2e baccalauréat (EGI != 3 or 4).
 - High school: general or superior education diploma = baccalauréat ou brevet supérieur (EGI = 3).
 - Higher education: general or superior education diploma = diplômes de niveau supérieur au 2e baccalauréat (EGI = 4).
- Migrated before previous census: county of residence ! = county of residencein the census of 1954 (DR ! = DRA).
- Number of children: number of children of the family in the household (NE24).
- Home owner: occupation status = owner of house or building or owner of housing in a building (SO = 1-2).
- Rooms: number of rooms (HC1).
- Housing quality:
 - 1: characteristics of housing = hard walls and ceiling, electricity, water, toilets, shower (CEL = 1-4).
 - 2: characteristics of housing = hard walls and ceiling, electricity, water, toilets, no shower (CEL = 5-7).

- 3: characteristics of housing = hard walls and ceiling, electricity, water, no toilets, no shower (CEL = 8-10).
- 4: characteristics of housing = hard walls and ceiling, electricity, no water (CEL = 11-13).
- 5: characteristics of housing = hard walls and ceiling, no electricity, no water (CEL = 14-16).
- 6: characteristics of housing = no hard walls or ceiling (CEL = 17-18).
- 7: characteristics of housing = other (CEL ! = 1-18).
- Married: marital status = married (M = 2).
- Local labour market of residence: *zone de peuplement industriel ou urbain* (ZPIU).
- Commune of residence: *commune* (CR).
- Sample weight: *sondage* (SOND).

Matching couples To match partners within households, I keep adult (LINK = 1-2) family members (AF = 1) in single-family households (NFPM = 2), in which both partners are present (CONJFB = 1). I use the following variables to create unique family identifiers: NUMGEO, NUMLOG, and NUMFAM.

Local labour markets (ZIUP) The zones of industrial or urban population (ZI-UPs) were created in 1962 to measure the influence of urban areas on surrounding rural areas. Each ZIUP comprised one urban area together with surrounding rural municipalities with one or more industrial, commercial, or administrative establishments with 20 workers or more, with a total of at least 100 workers. It also comprised surrounding rural municipalities that had a large share of workers commuting to the urban area. ZIUPs were redefined at each census, and disappeared with the census of 1999.

Census of 1968

Source The census of 1968 was produced by the INSEE and is disseminated by the ADISP-CMH: *Recensement de la population 1968: fichier détail au 1/4* (INSEE, 1968).

Sample selection The sample used throughout the analysis comprises French women living in ordinary housing and not in group quarters, aged 30 to 49, that are internal migrants. This corresponds to the following selection criteria:

- Housing category = ordinary housing (CL = 1).
- Population category = ordinary households (CPD = 0).
- Nationality = French (NC = 0-1).
- Age = 30-49 (AD = 30-49).
- Sex = female (S = 2).
- Birth county ! = residence county (DN ! = D).

I further remove individuals born outside France, those born or residing in the three counties that France recovered after WWI—Bas-Rhin (67), Haut-Rhin (68), and Moselle (57).

- Labour force participant: activity type = active (TA = 1-3 or 6). Based on question 12 of the individual bulletin: "Indicate the occupation or job you are currently holding. A woman taking care of her household will reply 'no occupation'." Also uses answers to questions 17 and 18.
- Employed: activity type = employed (TA = 1-2). Based on question 12 of the individual bulletin: "Indicate the occupation or job you are currently holding. A woman taking care of her household will reply 'no occupation'." Also uses answers to questions 17 and 18.
- Education levels. Based on question 11 of the individual bulletin: "Among the following diplomas, indicate ALL of which you possess."

- Primary or lower secondary education: general education diploma = certificat d'études primaires (CEP) or brevet d'études du premier cycle (BEPC), brevet élémentaire (BE) ou brevet d'enseignement primaire supérieur (BEPS) or aucune diplôme déclaré (EG = 1, 2, or 9) and professional or technical education diploma = aucune déclaration (FPT = 9).
- Secondary technical education: professional or technical education diploma
 ! = aucune déclaration (FPT ! = 9) and general education diploma ! =
 baccalauréat ou brevet supérieur or diplômes de niveau supérieur ou baccalauréat complet (EG ! = 3 or 4).
- High school: general education diploma = baccalauréat ou brevet supérieur (EG = 3).
- Higher education: general education diploma = diplômes de niveau supérieur ou baccalauréat complet (EG = 4).
- Migrated before previous census: county of residence != county of residence in the census of 1962 (D != DRA).
- Number of children: number of children of the family in the household (NEF).
- Home owner: occupation status = owner of house or building or owner of housing in a building (SO = 1-2).
- Rooms: number of rooms (HC).
- Housing quality:
 - 1: characteristics of housing = hard walls and ceiling, electricity, water, toilets, shower (CEL = 1-4).
 - 2: characteristics of housing = hard walls and ceiling, electricity, water, toilets, no shower (CEL = 5-7).
 - 3: characteristics of housing = hard walls and ceiling, electricity, water, no toilets, no shower (CEL = 8-10).
 - 4: characteristics of housing = hard walls and ceiling, electricity, no water (CEL = 11-13).

- 5: characteristics of housing = hard walls and ceiling, no electricity, no water (CEL = 14-16).
- 6: characteristics of housing = no hard walls or ceiling (CEL = 17-18).
- 7: characteristics of housing = other (CEL ! = 1-18).
- Married: marital status = married (M = 2).
- Local labour market of residence: *zone de peuplement industriel ou urbain* (ZPIU).
- Commune of residence: *commune* (C).
- Sample weight: *sondage* (SOND).

Matching couples To match partners within households, I keep adult (LINK = 1-2) family members (AF = 1) in single-family households (NFM = 2), in which both partners are present (PCF = 1). I use the following variables to create unique family identifiers: C, NUMLOG, and NFAM.

Census of 1975

Source The census of 1975 was produced by the INSEE and is disseminated by the ADISP-CMH: *Recensement de la population 1975: fichier détail au 1/5* (INSEE, 1975).

Sample selection The sample used throughout the analysis comprises French women living in ordinary housing and not in group quarters, aged 30 to 49, that are internal migrants. This corresponds to the following selection criteria:

- Housing category = ordinary housing (CL = 1).
- Population category = ordinary households (CPD = 0).
- Nationality = French (NC = 1-2).
- Age = 30-49 (AD = 30-49).
- Sex = female (S = 2).

• Birth county ! = residence county (DN ! = D).

I further remove individuals born outside France, those born or residing in the three counties that France recovered after WWI—Bas-Rhin (67), Haut-Rhin (68), and Moselle (57).

- Labour force participant: activity type = active (TA = 1,3 or 6). Based on question 11 of the individual bulletin: "Indicate the occupation or job you are currently holding. A woman taking care of her household will reply 'no occupation'." Also uses answers to questions 17 and 18.
- Employed: activity type = employed (TA = 1). Based on question 11 of the individual bulletin: "Indicate the occupation or job you are currently holding. A woman taking care of her household will reply 'no occupation'." Also uses answers to questions 17 and 18.
- Education levels. Based on question 8 of the individual bulletin: "Among the following diplomas, indicate all of which you possess."
 - Primary or lower secondary education: general education = certificat d'études primaires, diplôme de fin d'études obligatoires or brevet d'études du premier cycle (BEPC), brevet élémentaire (BE) ou brevet d'enseignement primaire supérieur (BEPS) or aucune diplôme déclaré (EGS = 1, 2, or 9) and professional and technical education = aucun diplôme déclaré (FPT = 9).
 - Technical secondary education: professional and technical education ! = Bac de technicien, BTS, DUT, DEST, diplômes paramédicaux et sociaux, and aucun diplôme déclaré, (FPT ! = 4-6, 9) and general education ! = baccalauréat ou brevet supérieur or diplômes de niveau supérieur ou baccalauréat complet (EGS ! = 3 or 4).
 - High school: general education = baccalauréat ou brevet supérieur (EGS
 and professional and technical education ! = BTS, DUT, DEST
 or diplômes paramédicaux et sociaux (FPT ! = 5-6), or professional and

technical education = bac de technicien (FPT = 4) and general education ! = diplômes de niveau supérieur ou baccalauréat complet (EGS <math>! = 4).

- Higher education: general education = diplômes de niveau supérieur ou baccalauréat complet (EGS = 4) or professional and technical education = BTS, DUT, DEST or diplômes paramédicaux et sociaux (FPT = 5-6).
- Migrated before previous census: county of residence != county of residence in the census of 1968 (D != DRA).
- Number of children: number of children of the family in the household (NEF).
- Home owner: occupation status = owner of house or building or owner of housing in a building (SO = 1).
- Rooms: number of rooms (HCL).
- Housing quality:
 - 1: characteristics of housing = hard walls and ceiling, electricity, water, toilets, shower (CEL = 1-4).
 - 2: characteristics of housing = hard walls and ceiling, electricity, water, toilets, no shower (CEL = 5-7).
 - 3: characteristics of housing = hard walls and ceiling, electricity, water, no toilets, no shower (CEL = 8-10).
 - 4: characteristics of housing = hard walls and ceiling, electricity, no water (CEL = 11-16).
 - 6: characteristics of housing = no hard walls or ceiling (CEL = 17-18).
 - 7: characteristics of housing = other (CEL ! = 1-18).
- Married: marital status = married (M = 2).
- Local labour market of residence: *zone de peuplement industriel ou urbain* (ZPIU).
- Commune of residence: *commune* (C).
- Sample weight: *sondage* (SOND).

Matching couples To match partners within households, I keep adult (LINK = 1-2) family members in single-family households (NFSM = 0), in which both partners are present (PCF = 1). I use the following variables to create unique family identifiers: D and NUMLOG.

Census of 1982

Source The census of 1982 was produced by the INSEE and is disseminated by the ADISP-CMH: *Recensement de la population 1982: fichier détail au 1/4* (INSEE, 1982).

Sample selection The sample used throughout the analysis comprises French women living in ordinary housing and not in group quarters, aged 30 to 49, that are internal migrants. This corresponds to the following selection criteria:

- Housing category = ordinary housing (CL = 1).
- Population category = ordinary households (CPD = 0).
- Nationality = French (N = **).
- Age = 30-49 (AD = 30-49).
- Sex = female (S = 2).
- Birth county ! = residence county (DN ! = D).

I further remove individuals born outside France, those born or residing in the three counties that France recovered after WWI—Bas-Rhin (67), Haut-Rhin (68), and Moselle (57).

Variables

• Labour force participant: activity type = active (TA = 1,3 or 6). Based on question 12a of the individual bulletin: "Indicate the occupation or job you are currently holding." Also uses answer to question 16.

- Employed: activity type = employed (TA = 1). Based on question 12a of the individual bulletin: "Indicate the occupation or job you are currently holding." Also uses answer to question 16.
- Education levels. Based on question 10 of the individual bulletin: "Indicate all the diplomas you possess."
 - Primary or lower secondary education: general education diploma = certificat d'études primaires (CEP), diplôme de fin d'études obligatoire (DFEO) or brevet d'études du 1er cycle (BEPC), brevet élémentaire (BE), brevet d'enseignement primaire supérieur (BEPS) (DEG = 1-2).
 - Technical secondary education: technical education diploma ! = blank and baccalauréat de technicien, brevet de technicien, brevet supérieur d'enseignement commercial (BSEC), capacité en droit (DET ! = blank and 4) and general education diploma ! = baccalauréat, brevet supérieur, certificat de fin d'études secondaires (CFES) (DEG ! = 3).
 - High school: general education diploma = baccalauréat, brevet supérieur, certificat de fin d'études secondaires (CFES) (DEG = 3) or technical education diploma = baccalauréat de technicien, brevet de technicien, brevet supérieur d'enseignement commercial (BSEC), capacité en droit (DET = 4).
 - Higher education: superior education diploma ! = blank (DES ! = blank).
- Migrated before previous census: county of residence ! = county of residence in the census of 1975 (D ! = DRA).
- Number of children: number of children of the family in the household (NEF).
- Home owner: occupation status = owner of house or building or owner of housing in a building (SO = 1).
- Rooms: number of rooms (HC).
- Housing quality:
 - 1: characteristics of housing = water, toilets, shower (CFL = 4-5).

- -2: characteristics of housing = water, toilets, no shower (CFL = 2).
- -3: characteristics of housing = water, no toilets, shower (CFL = 3).
- -4: characteristics of housing = water, no toilets, no shower (CFL = 1).
- -5: characteristics of housing = no water (CFL = 0).
- Married: marital status = married (M = 2).
- Local labour market of residence: *zone de peuplement industriel ou urbain* (ZPIU).
- Commune of residence: *commune* (C).
- Sample weight: *sondage* (SOND).

Matching couples To match partners within households, I keep adult (LINK = 1-2) family members in single-family households (NFM = 1), in which both partners are present (PCF = 1). I use the following variables to create unique family identifiers: D, C and NUMMEN.

Census of 1990

Source The census of 1990 was produced by the INSEE and is disseminated by the ADISP-CMH: *Recensement de la population 1990: fichier détail au 1/4* (INSEE, 1990).

Sample selection The sample used throughout the analysis comprises French women living in ordinary housing and not in group quarters, aged 30 to 49, that are internal migrants. This corresponds to the following selection criteria:

- Housing category = ordinary housing (CATL = 1).
- Population category = ordinary households (CATP = 0).
- Nationality = French (NAT1 = 11-12).
- Age = 30-49 (AGE = 30-49).

- Sex = female (SEXE = 2).
- Birth county ! = residence county (DPNAI ! = D).

I further remove individuals born outside France, those born or residing in the three counties that France recovered after WWI—Bas-Rhin (67), Haut-Rhin (68), and Moselle (57).

- Labour force participant: activity type = active (TACT = 11–12). Based on question 12 of the individual bulletin: "Current occupation." Also uses answers to questions 9 and 11.
- Employed: activity type = employed (TACT = 11). Based on question 12 of the individual bulletin: "Current occupation." Also uses answers to questions 9 and 11.
- Education levels. Based on question 8 of the individual bulletin: "Indicate your highest diploma."
 - Primary or lower secondary education: diploma = aucun diplôme déclaré, certificat détudes primaires (CEP), or brevet élémentaire, brevet des collèges (BEPC) (DIPL = 1-3).
 - Technical secondary education: diploma = certificat d'aptitudes professionnelles (CAP) or brevet d'études professionnelles (BEP) (DIPL = 4-5).
 - High school: diploma = baccalauréat (BAC), brevet professionnel ou de technicien (BEA, BEC, BEI) (DIPL = 6).
 - Higher education: diploma = diplôme universitaire de 1e cycle (BTS, DUEST, DUT), diplôme des professions sociales ou de la santé or diplôme universitaire de 2e ou 3e cycle, d'ingénieur ou d'une grande école (DIPL = 7-8).
- Migrated before previous census: county of residence ! = county of residence in the census of 1982 (D ! = DRAN).

- Number of children: number of children of the family in the household (NENF).
- Home owner: occupation status = owner of house or building or owner of housing in a building (STOC = 1).
- Housing quality:
 - 1: housing comfort = toilets, shower (CONF = 4-5).
 - 2: housing comfort = no toilets, shower (CONF = 3).
 - -3: housing comfort = toilets, no shower (CONF = 2).
 - 4: housing comfort = no toilets, no shower (CONF = 1).
- Married: marital status = married (MATR = 2).
- Local labour market of residence: *zone de peuplement industriel ou urbain* (ZPIU).
- Commune of residence: *commune* (C).
- Sample weight: *sondage* (SOND).

Matching couples To match partners within households, I keep adult (LINK = 1-2) family members in single-family households (NFAM = 1), in which both partners are present (SFM = 30-34). Unfortunately, the INSEE did not keep unique family identifiers for the census of 1990. I generate those by combining all the common family variables in the censuses: D, C, IDIMM, IDLOG, IDFAM, CTL, TYPF, NE16F, NENF, NPERF, AGEF, CRANF, CS8F, DELTF, DIPLF, DPNAIF, FRANF, EMPLF, LPRMF, MATRF, SEXEF, TACTF, TTRAVF, AGEPF, CRANPF, CS8PF, DELTPF, DIPLPF, DPNAIPF, DRANPF, EMPLPF, MATRPF, NBSALPF, TACTPF, TTRAVPF, AGEMF, CRANMF, CS8MF, DELTMF, DIPLMF, DPNAIMF, DRANMF, EMPLMF, MATRMF, TACTMF, and TTRAVMF.

Census of 1999

Source The census of 1999 was produced by the INSEE and is disseminated by the ADISP-CMH: *Recensement de la population 1999: fichier détail au 1/20* (INSEE, 1999).

Sample selection The sample used throughout the analysis comprises French women living in ordinary housing and not in group quarters, aged 30 to 49, that are internal migrants. This corresponds to the following selection criteria:

- Housing category = ordinary housing (CATL = 1).
- Population category = blank (CATC = blank).
- Nationality = French (INAT21 = 1).
- Age = 30-49 (AGE = 30-49).
- Sex = female (SEXE = 2).
- Birth county ! = residence county (DPNAI ! = D).

I further remove individuals born outside France, those born or residing in the three counties that France recovered after WWI—Bas-Rhin (67), Haut-Rhin (68), and Moselle (57).

- Labour force participant: activity type = active (TACT = 11–13). Based on question 15 of the individual bulletin: "Current occupation." Also uses answers to questions 12 and 13.
- Employed: activity type = employed (TACT = 11). Based on question 15 of the individual bulletin: "Current occupation." Also uses answers to questions 12 and 13.
- Education levels. Based on question 10 of the individual bulletin: "Indicate your latest diploma."
 - Primary or lower secondary education: last diploma obtained = aucun diplôme, certificat détudes primaires, or BEPC, brevet élémentaire, brevet des collèges (DIPL = 0-2).
 - Technical secondary education: last diploma obtained = CAP or BEP (DIPL = 3-4).

- High school: last diploma obtained = baccalauréat général or baccalauréat technologique ou professionnel, brevet professionnel ou de technicien, capacité en droit (DIPL = 5-6).
- Higher education: last diploma obtained = diplôme universitaire de 1e cycle (BTS, DUT), diplôme des professions sociales ou de la santé or diplôme universitaire de 2e ou 3e cycle, d'ingénieur ou d'une grande école (DIPL = 7-8).
- Migrated before previous census: county of residence ! = county of residence in the census of 1990 (D ! = DRA).
- Number of children: number of children of the family in the household (NENF).
- Home owner: occupation status = owner of house or building or owner of housing in a building (STOC = 1).
- Rooms: number of rooms (NBPI).
- Housing quality:
 - 1: housing comfort = toilets, shower (CONF = 4-5).
 - 2: housing comfort = no toilets, shower (CONF = 3).
 - -3: housing comfort = toilets, no shower (CONF = 2).
 - 4: housing comfort = no toilets, no shower (CONF = 1).
- Married: marital status = married (MATR = 2).
- Local labour market of residence: *zone emploi* (ZE).
- Commune of residence: *commune* (COM).
- Sample weight: *sondage* (SOND).

Matching couples To match partners within households, I keep adult (LINK = 1-2) family members in single-family households (NFAM = 1), in which both partners are present (SFM = 30-34). I use the following variables to create unique family identifiers: D, C, IRIS2000, LOG, FAM.

Local labour markets (EZ) Employment zones (EZs) are zones in which most active individuals reside and work, and in which establishments can find most of their necessary labour force. The zoning is based on home-work commuting patterns in each census.

Census of 2006

Source The census of 2006 was produced and disseminated by the INSEE: *Recensement de la population, fichier détail 2006* (INSEE, 2006). It is available at the following address: https://www.insee.fr/fr/statistiques/2407706.

Sample selection The sample used throughout the analysis comprises French women living in ordinary housing and not in group quarters, aged 30 to 49, that are internal migrants. This corresponds to the following selection criteria:

- Housing category = ordinary housing (CATL = 1).
- Population category = household population (CATPC = 0).
- Nationality = French (INATC = 1).
- Age = 30-49 (AGED = 30-49).
- Sex = female (SEXE = 2).
- Birth county ! = residence county (DNAI ! = DEPT).

I further remove individuals born outside France, those born or residing in the three counties that France recovered after WWI—Bas-Rhin (67), Haut-Rhin (68), and Moselle (57).

- Labour force participant: activity type = active (TACT = 11-12). Based on question 10 of the individual bulletin: "What is your main situation?"
- Employed: activity type = employed (TACT = 11). Based on question 10 of the individual bulletin: "What is your main situation?"

- Education levels. Based on question 9 of the individual bulletin: "Which diploma(s) do you possess?"
 - Primary or lower secondary education: highest diploma = pas de scolarité, aucun diplôme mais scolarité jusqu'en école primaire ou au collège, aucun diplôme mais scolarité au-delà du collège, certificat d'études primaires, or BEPC, brevet élémentaire, brevet des collèges (DIPL = 1-3, 11-12).
 - Technical secondary education: highest diploma = certificat d'aptitu-des professionnelles, brevet de compagnon or brevet d'études professionnelles (DIPL = 13-14).
 - High school: highest diploma = baccalauréat général, brevet supérieur or bac technologique ou professionnel, BEC, BEI, BEH, capacité en droit (DIPL = 15-16).
 - Higher education: highest diploma = diplôme universitaire de 1er cycle, BTS, DUT, diplôme des professions sociales ou de santé or diplôme universitaire de 2e ou 3e cycle, d'ingénieur, de grande école (DIPL = 17-18).
- Migrated before previous census: indicator of residence in 2002 = dans le même logement, dans un autre logement de la même commune, or dans une autre commune du département (IRAN = 1-3).
- Number of children: the number of children in a family is calculated using the SFM and NPERR variables, which describe the family structure of each household and the number of persons in a household.
- Home owner: occupation status = propriétaire (STOCD = 10).
- Housing area in m2: SURF.
- Married: marital status = married (MATR = 2).
- Commune of residence: *canton-ville* (CANTVILLE).
- Sample weight: poids de l'individu (IPONDI).

Local labour market of residence To assign a local labour market of residence to a respondent, I match the geographic code of 2006—which contains employment zones and *canton-villes*—to the census of 2006 based on *canton-villes*.²⁷

Matching couples To match partners within households, I keep adult (LINK = 1-2) family members in single-family households (TYPMC = 4, TYPFC = 2, and INFAM = 1), in which both partners are present (COUPLE = 1). I use the following variables to create unique family identifiers: CANTVILLE and NUMMI.

Census of 2012

Source The census of 2012 was produced and disseminated by the INSEE: *Recensement de la population, fichier détail 2012* (INSEE, 2012*c*). It is available at the following address: https://www.insee.fr/fr/information/2882311.

Sample selection The sample used throughout the analysis comprises French women living in ordinary housing and not in group quarters, aged 30 to 49, that are internal migrants. This corresponds to the following selection criteria:

- Housing category = ordinary housing (CATL = 1).
- Population category = household population (CATPC = 0).
- Nationality = French (INATC = 1).
- Age = 30-49 (AGED = 30-49).
- Sex = female (SEXE = 2).
- Birth county ! = residence county (DNAI ! = DEPT).

I further remove individuals born outside France, those born or residing in the three counties that France recovered after WWI—Bas-Rhin (67), Haut-Rhin (68), and Moselle (57).

²⁷The geographic code of 2006 is produced and distributed by the INSEE and is available at the following address: https://www.insee.fr/fr/information/2560646.

- Labour force participant: activity type = active (TACT = 11-12). Based on question 10 of the individual bulletin: "What is your main situation?"
- Employed: activity type = employed (TACT = 11). Based on question 10 of the individual bulletin: "What is your main situation?"
- Education levels. Based on question 9 of the individual bulletin: "Which diploma(s) do you possess?"
 - Primary or lower secondary education: highest diploma = pas de scolarité, aucun diplôme mais scolarité jusqu'en école primaire ou au collège, aucun diplôme mais scolarité au-delà du collège, certificat d'études primaires, or BEPC, brevet élémentaire, brevet des collèges (DIPL = 1-3, 11-12).
 - Technical secondary education: highest diploma = certificat d'aptitu-des professionnelles, brevet de compagnon or brevet d'études professionnelles (DIPL = 13-14).
 - High school: highest diploma = baccalauréat général, brevet supérieur or bac technologique ou professionnel, BEC, BEI, BEH, capacité en droit (DIPL = 15-16).
 - Higher education: highest diploma = diplôme universitaire de 1er cycle, BTS, DUT, diplôme des professions sociales ou de santé or diplôme universitaire de 2e ou 3e cycle, d'ingénieur, de grande école (DIPL = 17-18).
- Number of children: number of children of the family (NENFR).
- Home owner: occupation status = propriétaire (STOCD = 10).
- Housing area in m2: three categories (SURF).
- Married: marital status = married (MATR = 2).
- Commune of residence: *canton-ville* (CANTVILLE).

• Sample weight: poids de l'individu (IPONDI).

Local labour market of residence To assign a local labour market of residence to a respondent, I match the geographic code of 2012—which contains employment zones and *canton-villes*—to the census of 2012 based on *canton-villes*.²⁸

Matching couples To match partners within households, I keep adult (LINK = 1-2) family members in single-family households (TYPMC = 4, TYPFC = 2, and INFAM = 1), in which both partners are present (COUPLE = 1). I use the following variables to create unique family identifiers: CANTVILLE and NUMMI.

H.4.2. Labour Force Surveys 1982–2012

In section ??, I combine thirty-one annual labour force surveys from 1982 to 2012 to corroborate baseline results obtained with the censuses. These surveys can be divided into three internally consistent series: the 1982–1989 series, the 1990–2002 series, and the 2005–2012 series.

Labour Force Surveys 1982–1989

Source The annual labour force surveys from 1982 to 1989 were produced by the INSEE and are disseminated by the ADISP-CMH: *Enquêtes Emploi 1982–1989* (INSEE, 1989). A full description for the 1982 survey is available at the following address: http://www.progedo-adisp.fr/enquetes/XML/lil-0020.xml.

Sample selection The sample used in the analysis comprises of French women living in ordinary housing and not in group quarters, aged 30 to 49, that are internal migrants. This corresponds to the following selection criteria:

- Population category = ordinary households (CA = 0).
- Nationality = French (N = 1).
- Age = 30-49 (AG = 30-49).

²⁸The geographic code of 2012 is produced and distributed by the INSEE and is available at the following address: https://www.insee.fr/fr/information/2560620.

- Sex = female (S = 2).
- Birth county ! = residence county (NAIDEP ! = DEP).

I further remove individuals born outside France, those born or residing in the three counties that France recovered after WWI—Bas-Rhin (67), Haut-Rhin (68), and Moselle (57).

- Labour force participant: activity type = active (FI = 1-2). Based on question 8 of the individual bulletin: "Current occupation."²⁹
- Employed: activity type = employed (FI = 1). Based on question 8 of the individual bulletin: "Current occupation."
- Ever worked: past activity ! = never worked (AA ! = 2). Based on question 9 of the individual bulletin: "Did you ever had a professional activity?"
- Usual hours worked: HHAB. Based on question 26c of the individual bulletin: "How many hours do you usually work per week?"
- Months in firm: ANCENTR. Based on question 17c of the individual bulletin: "When did you start working for the firm that is currently employing you, or that you currently manage?"
- Wage: midpoints across 18 monthly wage categories in French Francs, converted into 2015 Francs using a CPI deflator (SALTR). Based on question 27 of the individual bulletin: "What is your net monthly salary in your main occupation, including bonuses?"
- Education levels. Based on question 43 of the individual bulletin: "Which diploma(s) did you obtain?"
 - Primary or lower secondary education: highest diploma = BEPC seul, CEP, or aucun diplôme (DIPL = 60, 70, 71).

 $^{^{29}}$ The reference questionnaire is the one relative to the labour force survey of 1982.

- Technical secondary: highest diploma = BP, BEI, BEC, BEA, CAP, BEP et BEPC, or CAP, BEP seul (DIPL = 50, 51, 60).
- High school: highest diploma = baccalauréat général et diplôme technique secondaire, baccalauréat seul, or baccalauréat de technicien seul (DIPL = 40-42).
- Higher education: highest diploma = 2e ou 3e cycle universitaire, grande école, diplôme d'ingénieur, 1e cycle universitaire, BTS, DUT, or paramédical ou social (DIPL = 10, 11, 30–33).
- Number of children: number of children in the household (NENFM).
- Home owner: occupation status = household owner of housing (SO = 1-2).
- Rooms: PIECES.
- Married: marital status = married (M = 2).
- Sample weight: coefficient de pondération pour les individus (EXTRI).

Matching couples To match partners within households, I keep adult (LCM = 1-2) that are in a couple (LPRM = 1-2). I use the following variables to create unique family identifiers: IDENTM and DEA.

Labour Force Surveys 1990–2002

Source The annual labour force surveys from 1990 to 2002 were produced by the INSEE and are disseminated by the ADISP-CMH: *Enquêtes Emploi 1990–2002* (INSEE, 2002). A full description for the 1990 survey is available at the following address: http://www.progedo-adisp.fr/enquetes/XML/lil.php?lil=lil-0028.

Sample selection The sample used in the analysis comprises French women living in ordinary housing and not in group quarters, aged 30 to 49, that are internal migrants. This corresponds to the following selection criteria:

- Population category = ordinary households (CA = 0).
- Nationality = French (N = 1).

- Age = 30-49 (AG = 30-49).
- Sex = female (S = 2).
- Birth county != residence county (DEPNAI != DEP).

I further remove individuals born outside France, those born or residing in the three counties that France recovered after WWI—Bas-Rhin (67), Haut-Rhin (68), and Moselle (57).

Variables

- Labour force participant: activity type = active (FI = 1-2). Based on question Q2 of the individual bulletin: "What is your current occupation?"³⁰
- Employed: activity type = employed (FI = 1). Based on question Q2 of the individual bulletin: "What is your current occupation?"
- Ever worked: past activity ! = never worked (AA ! = 2). Based on question Q3c of the individual bulletin: "Did you ever had a professional activity?"
- Usual hours worked: HH. Based on question A13 of the individual bulletin: "What number of hours do you usually work per week?"
- Months in firm: ANCENTR. Based on question A8e of the individual bulletin: "When did you start working for the firm for which you are currently working, or that you manage?"
- Wage: monthly wage categories in French Francs, converted into 2015 Francs using a CPI deflator (SALTRED). Based on question A20a of the individual bulletin: "What monthly salary do you get from your main occupation, including bonuses?"
- Education levels. Based on question C3b of the individual bulletin: "What diploma(s) did you obtain?"
 - Primary or lower secondary education: highest diploma = BEPC seul, CEP, or aucun diplôme (DIPL = 60, 70, 71).

 30 The reference questionnaire is the one relative to the labour force survey of 1990.

- Technical secondary education: highest diploma = BEI, BEC, BEA, CAP, BEP et BEPC, or CAP, BEP seul (DIPL = 43, 50, 51).
- High school: highest diploma = baccalauréat général et diplôme technique secondaire, baccalauréat seul, or baccalauréat technologique (DIPL = 40-42).
- Higher education: highest diploma = 2e ou 3e cycle universitaire, grande école, diplôme d'ingénieur, 1e cycle universitaire, BTS, DUT, or paramédical ou social (DIPL = 10, 11, 30–33).
- Number of children: number of children in the household (ENFC90).
- Home owner: occupation status = household owner of housing (SO = 1-2).
- Rooms: PIECES.
- Married: marital status = married (M = 2).
- Sample weight: coefficient de pondération pour les individus (EXTRI).

Matching couples To match partners within households, I keep adult (LCM = 1-2) that are in a couple (COHAB = 1, LPRM = 1-2). I use the following variables to create unique family identifiers: IDENTM and DEA.

Labour Force Surveys 2003–2012

Source The annual labour force surveys from 2003 to 2012 were produced by the INSEE and are disseminated by the ADISP-CMH: *Enquêtes Emploi en Continu 2003-2012* (INSEE, 2012*a*). A full description for the 2003 survey is available at the following address: http://www.progedo-adisp.fr/enquetes/XML/lil-0246.xml.

Sample selection The sample used in the analysis comprises French women living in ordinary housing and not in group quarters, aged 30 to 49, that are internal migrants. This corresponds to the following selection criteria:

• Population category = ordinary households (CA = 0).

- Nationality = French (NAT28 = 10).
- Age = 30-49 (AG = 30-49).
- Sex = female (S = 2).
- Birth county != residence county (DEPNAI != DEP).

I further remove individuals born outside France, those born or residing in the three counties that France recovered after WWI—Bas-Rhin (67), Haut-Rhin (68), and Moselle (57).

- Labour force participant: activity type = active (ACTEU = 1-2). Based on question A1 of the individual bulletin: "Do you have an occupation currently?"³¹
- Employed: activity type = employed (ACTEU = 1). Based on question A1 of the individual bulletin: "Do you have an occupation currently?"
- Ever worked: past activity ! = never worked (AAC ! = 2). Based on question E1 of the individual bulletin: "Did you ever hold a professional activity?"
- Usual hours worked: HHC. Based on question B38 of the individual bulletin: "In you main occupation, how many hours do you usually work per week?"
- Months in firm: ANCENTR. Based on question B62 of the individual bulletin: "When did you start working in this firm?"
- Wage: monthly wage categories in Euros, converted into 2015 Francs using a CPI deflator (SALRED). Based on question B56 of the individual bulletin: "What is your income from your main occupation?"
- Education levels.

 $^{^{31}}$ The reference questionnaire is the one relative to the labour force survey of 2003.

- Primary or lower secondary education: highest diploma = brevet des collèges, certificat d'études primaires, or sans diplôme (DIP = 60, 70, 71).
- Technical secondary: highest diploma = brevet de technicien, brevet professionnel, or CAP, BEP (DIPL = 44, 50).
- High school: highest diploma = bac général, bac technologique, or bac professionnel (DIPL = 41-43).
- Higher education: highest diploma = troisième cycle universitaire, écoles niveau licence et au-delà, 1e cycle universitaire, maîtrise, license, BTS, DUT, or paramédical et social (DIPL = 10, 12, 22, 21, 30–33).
- Number of children: number of children in the household (NBENFC).
- Home owner: occupation status = household owner of housing (SO = 1-2).
- Rooms: PIECES.
- Married: marital status = married (M = 2).
- Sample weight: coefficient de pondération pour les individus (EXTRI).

Matching couples To match partners within households, I keep adult (LCM = 1-2) that are in a couple (COHAB = 1, LPR = 1-2). I use the following variables to create unique family identifiers: IDENT, ANNEE, and TRIM.

H.4.3. Extended Labour Force Surveys 2005–2012

Source The extended labour force surveys from 2005 to 2012 were produced by the INSEE and are disseminated by the ADISP-CMH: *Enquêtes Emploi en Continu (version FRP) 2005-2012* (INSEE, 2012*b*). A full description for the 2005 survey is available at the following address: http://www.progedo-adisp.fr/enquetes/XML/lil.php?lil=lil-0317b.

Sample selection The sample used in the analysis comprises French women living in ordinary housing and not in group quarters, aged 30 to 59, that are second generation migrants. This corresponds to the following selection criteria:

- Population category = ordinary households (CA = 0).
- Nationality = French (NAT28 = 10).
- Age = 30-59 (AG = 30-59).
- Sex = female (S = 2).
- Birth county = residence county (DEPNAI ! = DEP).
- Mother birth county or father birth county != birth county (DNAIM or DNAIP != DEPNAI)

Variables

- Father high social class: father socio-professional category = higher-status (CSPP = 21-48 or 72-75). Based on question J2 of the individual bulletin: "What was the occupation of your father when you finished your initial studies?"
- Mother worked: mother socio-professional category = active or previously active (CSPM = 10-78). Based on question J4 of the individual bulletin: "What was the occupation of your mother when you finished your initial studies?"

H.4.4. Gender and Generation Survey 2005

Source The first wave of the French component of the Generation and Gender Survey (GGS) was conducted in 2005 by the INSEE and the INED, and disseminated by the ADISP-CMH (INSEE and INED, 2005). A full description of the survey is available at the following address: https://erfi.site.ined.fr/en.

Sample selection The sample used in the analysis comprises French citizens in a couple with a partner present in the household, aged 18 to 79, that are internal migrants, and who grew up in France with their mothers and fathers. This corresponds to the following selection criteria:

- Nationality = French (MA_NATIOR = 1).
- Birth county != residence county (PF_DEPENF != DEP).

- Birth county = France ($PF_DEPENF ! = 97, 99$).
- Partner present: $EA_VERIFC = 1$.
- Adults: MOCO != 11 & MOCO != 12.

- Preferences and beliefs statements:
 - Role of women in the labour force:
 - * "If a woman earns more than her partner, it is bad for their relationship": VA_REVFE.
 - * "Women should be able to decide how to spend the money they earned without asking their partners": VA_DEPFE. This statement is reversed for the purpose of the analysis.
 - \ast "In an economic crisis, men should keep their jobs in priority": <code>VA_HOMPRIO</code>.
 - "Taking care of one's home or family is as fulfilling as working for pay": VA_FOYEPAN. This variable is not included in the main cultural index.
 - Religion:
 - * "A religious event is important for a newborn": VA_BAPT.
 - \ast "A religious marriage is important for those who marry": VA_MARIA.
 - * "A religious event is important for a funeral": VA_ENTER.
 - Marriage:
 - * "Marriage is an outdated institution": VA_MARIDEP. This statement is reversed for the purpose of the analysis.
 - "It is good for an unmarried couple to live together even if they do not intend to get married": VA_COHAB. This statement is reversed for the purpose of the analysis.
 - * "If individuals are unhappy as a couple, they may divorce, even if they have children": VA_DIVORC. This statement is reversed for the purpose of the analysis.

- * "Marriage is a lifelong commitment that should never be broken":
 VA_MARITJS. This statement is reversed for the purpose of the analysis.
- Family:
 - * "To thrive, a woman must have children": VA_FEMENF.
 - * "To thrive, a man must have children": VA_HOMENF.
 - * "To grow up happy, a child needs a home with a mother and a father": VA_DEUXPAR.
 - * "If parents divorce, it is better for the child to stay with the mother rather than the father": VA_DIVGARD.
 - * "A woman can have and raise a child by herself if she does not want to have a stable relationship with a man": VA_MERSEUL.
- Household tasks:
 - Household chores:
 - * Who cooks: OA_REPAS.
 - * Who washes the dishes: **OA_VAISS**.
 - $\ast\,$ Who does the groceries: <code>OA_ALIME</code>.
 - * Who irons: OA_LINGE.
 - * Who vacuums: OA_ASPIR.
 - Child care:
 - * Who dresses the children: EA_HAB.
 - * Who puts the children to bed: EA_LIT.
 - * Who stays with the children when they are sick: EA_MAL.
 - * Who plays with the children: EA_JOUE.
 - * Who aids children with their homework: EA_AID.
 - * Who brings children to their activities: EA_EMM.
- Employed: activity = working $(MA_ACT = 1-3)$.
- Mother active: employment status of the mother $! = never worked (PF_STATUTM = 1-7).$

- Partner income: RJ_MREVE.
- Type of housing: TYPLOG.
- Rooms: MB_NBPIECES.
- Housing owner: $MB_STOC = 1-3$.
- Education levels:
 - Primary or lower secondary education: highest diploma = $aucun \ diplôme$ or CEP (MC_DIPLOME = 1, 2).
 - Technical secondary education: highest diploma = brevet des collèges, BEPC or CAP, BEP (MC_DIPLOME = 3, 4).
 - High school: highest diploma = baccalauréat technologique ou professionnel or baccalauréat général, brevet supérieur, or capacité en droit, DAEU (MC_DIPLOME = 5, 6).
 - Higher education: highest diploma = diplôme de niveau Bac + 2, or diplôme de niveau supérieur à Bac + 2 (MC_DIPLOME = 7, 8).
- Number of children: NBENFTOTM.
- Father high social class: father higher socio-professional category (PF_PCSP8 = 2-4).
- Mother education levels:
 - Primary or lower secondary education: highest diploma = $aucun \ diplôme$ or CEP (PF_DIPLM = 1, 2).
 - Technical secondary education: highest diploma = brevet des collèges, BEPC or CAP, BEP ($PF_DIPLM = 3, 4$).
 - High school: highest diploma = baccalauréat technologique ou professionnel or baccalauréat général, brevet supérieur, or capacité en droit, DAEU (PF_DIPLM = 5, 6).
 - Higher education: highest diploma = diplôme de niveau Bac + 2, or diplôme de niveau supérieur à Bac + 2 (PF_DIPLM = 7, 8).

- Father education levels:
 - Primary or lower secondary education: highest diploma = $aucun \ diplôme$ or CEP (PF_DIPLF = 1, 2).
 - Technical secondary education: highest diploma = brevet des collèges, BEPC or CAP, BEP ($PF_DIPLF = 3, 4$).
 - High school: highest diploma = baccalauréat technologique ou professionnel or baccalauréat général, brevet supérieur, or capacité en droit, DAEU (PF_DIPLF = 5, 6).
 - Higher education: highest diploma = diplôme de niveau Bac + 2, or diplôme de niveau supérieur à Bac + 2 (PF_DIPLF = 7, 8).
- Weight: POIDS12.

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