# Supplementary Materials (not to be published) 

Table S1. Descriptive Statistics Using the CONEVAL Sample

|  | Border | Rest of <br> the <br> country | Rest of <br> Northern <br> region | Border | Rest of <br> the <br> country | Rest of <br> Northern <br> region |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $2018: 3$ |  |  | $2020: 3$ |  |
|  | 12233 | 9525 | 12138 | 12597 | 9418 | 12651 |
| Household income | 3166 | 2340 | 3130 | 3354 | 2413 | 3384 |
| Per capita household income | 4.2 | 4.4 | 4.2 | 4.2 | 4.3 | 4.1 |
| Household size |  |  |  |  | 1.2 | 1.1 |
| Number of household members <br> under 15 years old | 1.3 | 1.3 | 1.3 | 1.3 |  |  |
| Number of household members |  |  |  |  |  |  |
| over 65 years old | 0.2 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 |
| Head of household: married or <br> living together | 0.74 | 0.78 | 0.78 | 0.74 | 0.75 | 0.75 |
| Head of household: female | 0.29 | 0.24 | 0.22 | 0.28 | 0.27 | 0.25 |
| Head of household: years of <br> schooling | 9.1 | 8.3 | 9.3 | 9.3 | 8.7 | 9.7 |
| Head of household: age | 45.8 | 48.6 | 48.3 | 46.5 | 49.5 | 49.7 |
| Rural <br> \% Poverty | 0.04 | 0.27 | 0.16 | 0.07 | 0.26 | 0.13 |
| Poverty intensity | 0.264 | 0.402 | 0.272 | 0.291 | 0.455 | 0.325 |
| Poverty intensity squared <br> \% Households with zero <br> income | 0.506 | 0.565 | 0.575 | 0.582 | 0.618 | 0.619 |
| Number of households | 0.392 | 0.444 | 0.472 | 0.485 | 0.506 | 0.518 |

Notes: Authors' calculations.

Figure S1. Evolution of labor poverty by region using CONEVAL sample, 2016-2020


Notes: Authors' calculations.

Table S2. Best Models Used in the Synthetic Control Method

|  | Poverty | Per capita household income | Poverty gap | Poverty gap squared |
| :---: | :---: | :---: | :---: | :---: |
| A. CONEVAL Sample |  |  |  |  |
| Model 1 | RMSPE: 0.007 | RMSPE: 1.471 | RMSPE: 0.008 | RMSPE: 0.012 |
|  | $\begin{gathered} 2016: 3,4 ; 2017 ; 3,4 \\ 2018: 3,4 \end{gathered}$ | $\begin{gathered} 2016: 1,3 ; 2017 ; 1,2 ; \\ 2018: 1,3 \end{gathered}$ | $\begin{gathered} 2016: 3,4 ; 2017 \\ 3,4 ; 2018: 3,4 \end{gathered}$ | $\begin{gathered} 2016: 3,4 ; 2017 \\ 3,4 ; 2018: 3,4 \end{gathered}$ |
| Model 2 | RMSPE: 0.007 <br> 2016: 3, 4; 2017; 3, 4; <br> 2018: 3, 4, demographic characteristics | $\begin{gathered} \text { RMSPE: } 1.529 \\ \text { 2016: } 2,4 ; 2017 ; 1,3 ; \\ 2018: 1,3 \end{gathered}$ | $\begin{gathered} \text { RMSPE: } 0.010 \\ \text { 2017: } 1,2 ; 2018: \\ 1,2,3,4 \end{gathered}$ | $\begin{aligned} & \text { RMSPE: } 0.013 \\ & 2016: 3,4 ; 2017 ; \\ & 3,4 ; 2018: 3,4 \end{aligned}$ |
| Model 3 | $\begin{gathered} \text { RMSPE: } 0.008 \\ \text { 2017: } 1,2 ; 2018: 1,2, \\ 3,4 \end{gathered}$ | RMSPE: 1.547 |  |  |
|  |  |  | RMSPE: 0.010 | RMSPE: 0.013 |
|  |  | 2018: 2, 3, <br> demographic | $\begin{gathered} 2016: 3,4 ; 2017 ; \\ 3,4 ; 2018: 3,4 \end{gathered}$ | $\begin{gathered} 2017: 1,2 ; 2018: \\ 1,2,3,4 \end{gathered}$ |
|  |  | characteristics |  |  |
| Model 4 | $\begin{gathered} \text { RMSPE: } 0.008 \\ \text { 2016: } 1,3 ; 2017 ; 1,2 ; \\ 2018: 1,3 \end{gathered}$ | RMSPE: 1.626 | RMSPE: 0.010 | RMSPE: 0.014 |
|  |  | $\begin{gathered} 2016: 2,4 ; 2017 ; 2,4 ; \\ 2018: 1,3 \end{gathered}$ | $\begin{gathered} 2016: 2,4 ; 2017 ; \\ 13 \cdot 2018 \cdot 1 \end{gathered}$ | $\begin{gathered} \text { 2016: 1, 3; 2017; } \\ 24 \cdot 2018 \cdot 24 \end{gathered}$ |
|  | $\begin{gathered} \text { RMSPE: } 0.008 \\ \text { 2016: } 1,4 ; 2017 ; 1,4 ; \\ 2018: 1,4 \end{gathered}$ | RMSPE: 1.654 | 3,2018.1,3 | 2, 4, 2018. 2, 4 |
| Model 5 |  | $\begin{gathered} \text { 2016: } 1,3 ; 2017 ; 1,2 \\ 2018: 1,3 \end{gathered}$ | RMSPE: 0.011 | RMSPE: 0.015 |
|  |  |  | 2016: 1, 3; 2017; | 2016: 2; 2017: 2 |
|  |  | demographic characteristics | 1, 2; 2018: 1, 3 | ; 2018: 1, 3, 4 |
| B. Hotdeck Sample |  |  |  |  |
| Model 1 | RMSPE: 0.004 | RMSPE: 1.417 | RMSPE: 0.007 | RMSPE: 0.009 |
|  | $\begin{gathered} 2016: 3,4 ; 2017 ; 3,4 \\ 2018: 3,4 \end{gathered}$ | $2016: 1,3 ; 2017 ; 1,2$ | $\text { 2017: } 1,2 ; 2018:$ | 2016: 1, 3; 2017; |
|  |  | 2018: 1, 3 <br> RMSPE: 1.441 | $1,2,3,4$ | $2,4 ; 2018: 2,4$ |
| Model 2 | $\begin{gathered} \text { RMSPE: } 0.005 \\ \text { 2016: } 1,3 ; 2017 ; 1,2 ; \\ 2018: 1,3 \end{gathered}$ | 2016: 1, 3; 2017; 1, 2; | RMSPE: 0.009 | RMSPE: 0.009 |
|  |  |  | 2016: 1, 3; 2017; | 2017: 1,2; 2018: |
|  |  | demographic characteristics | 2, 4; 2018: 2 , 4 | 1, 2, 3, 4 |
| Model 3 | RMSPE: 0.005 | RMSPE: 1.466 | RMSPE: 0.009 | RMSPE: 0.010 |
|  | $\begin{gathered} 2016: 1,4 ; 2017 ; 1,4 ; \\ 2018: 1,4 \end{gathered}$ | 2016: 2, 4; 2017; 1, 3; | 2016: 3, 4; 2017; | $2016: 3,4 ; 2017$ |
|  | RMSPE: 0.0062016: 2, 4; 2017; 1, 3;2018: 1,3 | $\text { 2018: 1, } 3$ <br> RMSPE: 1.556 | $3,4 ; 2018: 3,4$ | 3, 4; 2018: 3, 4 |
| Model 4 |  | 2016: 2, 4; 2017; 1, 3; | RMSPE: 0.009 | RMSPE: 0.010 |
|  |  |  | 2016: 2, 4; 2017; | 2016: 2, 4; 2017; |
|  |  | demographic characteristics | 2, 4; 2018: 2 , 4 | 2, 4; 2018: 2, 4 |
| Model 5 | $\begin{gathered} \text { RMSPE: } 0.006 \\ \text { 2016: } 2,3 ; 2017 ; 2,3 ; \\ 2018: 2,3 \end{gathered}$ | RMSPE: 1.589 |  |  |
|  |  | $\begin{gathered} \text { 2016: } 2,3 ; 2017 ; 2,3 ; \\ 2018: 2,3, \\ \text { demographic } \\ \text { characteristics } \end{gathered}$ | RMSPE: 0.009 | RMSPE: 0.010 |
|  |  |  | 2016: 1, 4; 2017; | 2016: 3, 4; 2017; |
|  |  |  | 1, 4; 2018: 1, 4 | 3, 4; 2018: 3, 4 |

Notes: Demographic characteristics refer to rural status, number of members in the household under 15 years old or over 65 years old, and the age, sex, marital status, and years of schooling of household heads.

Figure S2. Sensitivity analysis using the synthetic control method:
Best five models for the CONEVAL and hotdeck samples



Notes: Authors' calculations. The figure plots the best five models with the lowest RMSPE for each variable. Average $p$-values are in square brackets and in gray. Average $p$-values for the joint test are in parentheses and in black. Per capita income is percent.

Table S3. Synthetic Control Results for the Probability of Poverty in Year $t$,
Given That the Household is Poor or Non-poor in Year $t-1$

|  | $\operatorname{Pr}($ Poor in $t \mid$ Poor in $t-1)$ |  |  |  | $\operatorname{Pr}($ Poor in $t \mid$ Non-poor in $t$-1) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { CONEVAL } \\ \text { sample } \\ \hline \end{gathered}$ |  | Hotdeck sample |  | $\begin{gathered} \text { CONEVAL } \\ \text { sample } \\ \hline \end{gathered}$ |  | Hotdeck sample |  |
| 2019:Q1 | -0.054 | [.355] | -0.054 | [.323] | -0.067 | [.0968] | -0.042 | [.0645] |
| 2019:Q2 | 0.109 | [.161] | 0.094 | [.323] | -0.040 | [.129] | -0.033 | [0] |
| 2019:Q3 | 0.007 | [.903] | -0.005 | [.968] | -0.008 | [.839] | -0.016 | [.387] |
| 2019:Q4 | -0.076 | [.355] | -0.035 | [.452] | -0.035 | [.194] | -0.007 | [.71] |
| 2020:Q1 | 0.094 | [.161] | -0.011 | [.935] | 0.004 | [.935] | -0.011 | [.484] |
| 2020:Q3 | -0.003 | [.968] | 0.020 | [.871] | -0.053 | [.355] | -0.030 | [.355] |
| 2020:Q4 | 0.020 | [.71] | -0.045 | [.677] | -0.029 | [.452] | -0.048 | [.0968] |
| Avg. Effects (2019) | -0.004 | [.444] | 0.000 | [.516] | -0.038 | [.315] | -0.025 | [.29] |
| Joint $p$-value (2019) | [.452] |  | [.613] |  | [.258] |  | [.032] |  |
| Avg. Effects | 0.014 | [.516] | -0.005 | [.65] | -0.033 | [.429] | -0.027 | [.3] |
| Joint p-value | [.613] |  | [.968] |  | [.323] |  | [.194] |  |

Notes: Authors' calculations. $P$-values in brackets, adjusted by match quality using the RMSPE. Joint $p$-value is the proportion of placebos with the ratio of the post- to pre-treatment RMSPE at least as large as the corresponding ratio for the treatment group. We estimated 22 different models for each variable and selected the model with the lowest RMSPE.

Table S4. Results for Poverty Gap and Poverty Gap Squared,
Restricted to Households with Positive Labor Income.

|  | Poverty Gap |  | Poverty Gap Squared |  |
| :--- | :---: | :---: | :---: | :---: |
|  | Rest of the <br> country | Rest of <br> northern region | Rest of the <br> country | Rest of <br> northern region |
| A. CONEVAL sample |  |  |  |  |
| DID estimate | 0.0013 | -0.0022 | 0.0013 | 0.0001 |
| s.e. | $[.0084]$ | $[.0096]$ | $[.0071]$ | $[.0073]$ |
| Adj. $R^{2}$ | 0.158 | 0.056 | 0.183 | 0.058 |
| $N$ | 350,501 | 50,465 | 350,501 | 50,465 |
| B. Hotdeck sample |  |  |  |  |
| DID estimate | 0.0034 | -0.0045 | 0.0025 | -0.0022 |
| s.e. | $[.0065]$ | $[.0073]$ | $[.0046]$ | $[.0047]$ |
| Adj. $R^{2}$ | 0.122 | 0.051 | 0.142 | 0.053 |
| $N$ | 337,802 | 53,186 | 337,802 | 53,186 |

Notes: Authors' calculations. Robust and clustered standard errors in brackets (at the state x border level). Panel A uses the households in the CONEVAL sample to calculate poverty, and panel B uses the sample obtained from the hotdeck procedure.

Table S5. Adjusting Poverty Lines by Region: Effects on the Probability of Poverty in $t$ Given That the Household Is Poor or Non-poor in $t-1$

|  | $\operatorname{Pr}($ Poor in $t \mid$ Poor in $t-1)$ |  | $\operatorname{Pr}($ Poor in $t \mid$ Non-poor in $t-1)$ |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Rest of the country | Rest of northern region | Rest of the country | Rest of northern region |
| A. CONEVAL Sample |  |  |  |  |
| DID estimate | 0.020 | 0.018 | -0.025 | -0.016 |
| s.e. | [.030] | [.043] | [.016] | [.013] |
| Adj. $R^{2}$ |  |  |  |  |
| $N$ | 75,765 | 12,248 | 127,699 | 30,410 |
| B. Hotdeck sample |  |  |  |  |
| DID estimate | 0.032 | 0.019 | -0.032 | -0.022 |
| s.e. | [.031] | [.038] | [.007] | [.005] |
| Adj. $R^{2}$ |  |  |  |  |
| $N$ | 72,674 | 13,319 | 173,636 | 43,484 |

Notes: Authors' calculations. The regressions report the marginal effect from a probit. Robust and clustered standard errors in brackets (at the state $x$ border level). Panel A uses the households in the CONEVAL sample to calculate poverty, and panel B uses the sample obtained from the hotdeck procedure. Regressions restricted to households either poor or non-poor in period $t-1$. Regression controls for year-quarter fixed effects, state x border fixed effects (both in period $t$ ), for rural status, family size, number of members under 15 years old, number of members over 65 years old, and the age, years of schooling, gender, and marital status (married or living together) of the household head (in period $t-1$ ).

Table S6. Adjusting Poverty Lines for Each Region: Synthetic Control Results for the Probability of Poverty in Year $t$ Given That the Household Is Poor or Non-poor in Year $t-1$

|  | $\operatorname{Pr}($ Poor in $t$ |  |  | Poor in $t-1)$ | $\operatorname{Pr}($ Poor in $t \mid$ Non-poor in $t-1)$ |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | CONEVAL |  | Hotdeck <br> sample |  | CONEVAL <br> sample |  | Hotdeck <br> sample |  |
| 2019:Q1 | -0.049 | $[.387]$ | -0.058 | $[.258]$ | -0.069 | $[.0968]$ | -0.048 | $[0]$ |
| 2019:Q2 | 0.101 | $[.129]$ | 0.095 | $[.323]$ | -0.045 | $[.129]$ | -0.026 | $[.0645]$ |
| 2019:Q3 | 0.008 | $[.903]$ | -0.008 | $[.968]$ | -0.001 | $[.935]$ | -0.007 | $[.774]$ |
| 2019:Q4 | -0.077 | $[.194]$ | -0.037 | $[.387]$ | -0.038 | $[.194]$ | -0.015 | $[.387]$ |
| 2020:Q1 | 0.088 | $[.161]$ | -0.014 | $[.839]$ | 0.003 | $[1]$ | -0.016 | $[.258]$ |
| 2020:Q3 | -0.012 | $[.871]$ | 0.020 | $[.839]$ | -0.055 | $[.387]$ | -0.038 | $[.226]$ |
| 2020:Q4 | 0.021 | $[.645]$ | -0.044 | $[.613]$ | -0.032 | $[.484]$ | -0.041 | $[.0968]$ |
| Avg. Effects |  |  |  |  |  |  |  |  |
| 2019 | -0.004 | $[.403]$ | -0.002 | $[.484]$ | -0.038 | $[.339]$ | -0.024 | $[.306]$ |
| Joint $p$-value |  |  |  |  |  |  |  | $[.032]$ |
| 2019 | $[.323]$ |  | $[.645]$ |  | $[.29]$ |  |  |  |
| Avg. Effects | 0.011 | $[.47]$ | -0.006 | $[.604]$ | -0.034 | $[.461]$ | -0.027 | $[.258]$ |
| Joint $p$-value | $[.548]$ |  | $[.903]$ |  | $[.387]$ |  | $[.194]$ |  |

Notes: Authors' calculations. $P$-values in brackets, adjusted by match quality using the RMSPE. Joint $p$-value is the proportion of placebos with the ratio of the post- to pre-treatment RMSPE at least as large as the corresponding ratio for the treatment group. We estimated 22 different models for each variable and selected the model with the lowest RMSPE.

Table S7. Synthetic Control Adjusting the Poverty Line by Region

|  | Poverty |  |  |  | Poverty Gap |  |  |  | Squared Poverty Gap |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | CONEVAL sample |  | Hotdeck sample |  | $\begin{gathered} \hline \text { CONEVAL } \\ \text { sample } \\ \hline \end{gathered}$ |  | Hotdeck sample |  | CONEVAL sample |  | Hotdeck sample |  |
| 2019:Q1 | -0.034 | [.000] | -0.038 | [.000] | 0.031 | [.097] | 0.007 | [.613] | 0.020 | [.355] | 0.013 | [.323] |
| 2019:Q2 | -0.020 | [.032] | -0.033 | [.000] | 0.010 | [.452] | -0.007 | [.613] | 0.002 | [.935] | 0.008 | [.581] |
| 2019:Q3 | -0.034 | [.032] | -0.040 | [.000] | 0.039 | [.00] | 0.026 | [.000] | 0.038 | [.129] | 0.031 | [.032] |
| 2019:Q4 | -0.019 | [.064] | -0.033 | [.000] | 0.020 | [.258] | 0.027 | [.064] | 0.031 | [.290] | 0.029 | [.064] |
| 2020:Q1 | -0.004 | [.742] | -0.015 | [.226] | 0.013 | [.290] | 0.020 | [.129] | 0.026 | [.194] | 0.018 | [.258] |
| 2020:Q3 | -0.066 | [.097] | -0.042 | [.097] | 0.025 | [.290] | 0.050 | [.097] | 0.038 | [.387] | 0.046 | [.129] |
| 2020:Q4 | -0.059 | [.064] | -0.038 | [.129] | 0.019 | [.355] | 0.017 | [.323] | 0.022 | [.613] | 0.042 | [.032] |
| Avg. Effects 2019 | -0.027 | [.032] | -0.036 | [.000] | 0.025 | [.20] | 0.013 | [.32] | 0.023 | [.43] | 0.020 | [.25] |
| Joint $p$ value 2019 | [.000] |  | [.000] |  | [.065] |  | [.160] |  | [.320] |  | [.097] |  |
| Avg. Effects | -0.034 | [.147] | -0.034 | [.064] | 0.022 | [.249] | 0.020 | [.263] | 0.025 | [.415] | 0.027 | [.203] |
| Joint $p$ value | [.064] |  | [.00] |  | [.194] |  | [.161] |  | [.419] |  | [.097] |  |

Notes: Authors' calculations. $P$-values in brackets, adjusted by match quality using the RMSPE. Joint $p$-value is the proportion of placebos with the ratio of the post- to pre-treatment RMSPE at least as large as the corresponding ratio for the treatment group. We estimated 22 different models for each variable and selected the model with the lowest RMSPE.

Table S8. Effects on Poverty and Per Capita Household Income (year $\leq 2019$ ) [table 2].

|  | Poverty | Household income per <br> capita |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | Rest of the <br> country | Rest of <br> northern <br> region | Rest of the <br> country | Rest of <br> northern <br> region |
| A. CONEVAL Sample |  |  |  |  |
| DID estimate | -0.032 | -0.022 | 0.048 | 0.005 |
| s.e. | $[.013]$ | $[.012]$ | $[.041]$ | $[.064]$ |
| Adj. $R^{2}$ |  |  | 0.197 | 0.200 |
| $N$ | $1,457,050$ | 321,914 | $1,457,050$ | 321,914 |
| B. Hotdeck sample |  |  |  |  |
| DID estimate | -0.027 | -0.026 | 0.060 | 0.059 |
| s.e. | $[.011]$ | $[.0095]$ | $[.039]$ | $[.044]$ |
| Adj. $R^{2}$ |  |  | 0.172 | 0.174 |
| $N$ | $1,619,678$ | 379,950 | $1,619,678$ | 379,950 |

Notes: Authors' calculations (period 2016-2019). Robust and clustered standard errors in brackets (at the state x border level). Panel A uses the households in the CONEVAL sample to calculate poverty, and panel B uses the sample obtained from the hotdeck procedure. Rest of northern region refers to northern states. Regression controls for year-quarter fixed effects, state x border fixed effects, and for rural status, family size, number of members under 15 years old, number of members over 65 years old, and the age, years of schooling, gender, and marital status (married or living together) of the household head.

Table S9. Effects on the Probability of Poverty in Period $t$ Given
That the Household Is Poor or Non-poor in $t-1$ (year $\leq 2019$ ) [table 4].

|  | $\operatorname{Pr}$ (Poor in $t$ | Poor in $t-1$ ) | $\operatorname{Pr}($ Poor in $t \mid \mathrm{N}$ | Non-poor in $t$-1) |
| :---: | :---: | :---: | :---: | :---: |
|  | Rest of the country | Rest of northern region | Rest of the country | Rest of northern region |
| A. CONEVAL Sample |  |  |  |  |
| DID estimate | 0.017 | 0.002 | -0.047 | -0.025 |
| s.e. | [.058] | [.075] | [.016] | [.012] |
|  |  |  |  |  |
| $N$ | 61,392 | 9,478 | 101,646 | 6 23,080 |
| B. Hotdeck sample |  |  |  |  |
| DID estimate | 0.030 | 0.017 | -0.035 | -0.023 |
| s.e. | [.049] | [.057] | [.006] | [.005] |
| Adj. $R^{2}$ [ |  |  |  |  |
| $N$ | 58,659 | 10,390 | 139,006 | 6 33,695 |

Notes: Authors' calculations (period 2016-2019). The regressions report the marginal effect from a probit. Robust and clustered standard errors in brackets (at the state $x$ border level). Panel A uses the households in the CONEVAL sample to calculate poverty, and panel B uses the sample obtained from the hotdeck procedure. Regressions restrict to households either poor or non-poor in period $t-1$. Regression controls for year-quarter fixed effects, state $x$ border fixed effects (both in period $t$ ), and for rural status, family size, number of members less than 15 years old, number of members over 65 years old, and the age, years of schooling, gender, and marital status (married or living together) of the head of household in period $t-1$.

Table S10. Effects on the Poverty Gap and the Poverty Gap Squared, Conditional on

$$
\text { Being Poor (year } \leq 2019 \text { ) [table 5]. }
$$

|  | Poverty Gap |  | Poverty Gap Squared |  |
| :--- | :---: | :---: | :---: | :---: |
|  | Rest of the <br> country | Rest of <br> northern <br> region | Rest of the <br> country | Rest of <br> northern <br> region |
| A. CONEVAL Sample | 0.032 | 0.030 | 0.036 |  |
| DID estimate | 0.029 | 0.032 | $[.0079]$ | $[.0088]$ |
| s.e. | $[.0068]$ | $[.0083]$ | 0.226 | 0.352 |
| Adj. $R^{2}$ | 0.204 | 0.311 | 529,949 | 89,038 |
| $N$ | 529,949 | 89,038 |  |  |
| B. Hotdeck sample |  |  | 0.023 | 0.026 |
| DID estimate | 0.026 | $[.0041]$ | $[.0063]$ | $[.0055]$ |
| s.e. | 0.223 | 0.315 | 0.256 | $[.007]$ |
| Adj. $R^{2}$ | 498,419 | 90,943 | 498,419 | 0.357 |
| $N$ |  |  |  |  |

Notes: Authors' calculations (period 2016-2019). Robust and clustered standard errors in brackets (at the state x border level). Panel A uses the households in the CONEVAL sample to calculate poverty, and panel B uses the sample obtained from the hotdeck procedure. Estimations restricted to poor households. Regression controls for year-quarter fixed effects, state $x$ border fixed effects, and for rural status, family size, number of members under 15 years old, number of members over 65 years old, and age, years of schooling, gender, and marital status (married or living together) of the household head.

Table S11. Results for Poverty Gap and Poverty Gap Squared, Restricted to Households with Positive Labor Income (year $\leq 2019$ ) [table S4].

|  | Poverty Gap |  | Poverty Gap Squared |  |
| :--- | :---: | :---: | :---: | :---: |
|  | Rest of the <br> country | Rest of <br> northern <br> region | Rest of the <br> country | Rest of <br> northern <br> region |
| A. CONEVAL sample | -0.012 | 0.008 | 0.010 |  |
| DID estimate | 0.013 | $[.0095]$ | $[.0062]$ | $[.0071]$ |
| s.e. | $[.0073]$ | 0.054 | 0.191 | 0.057 |
| Adj. $R^{2}$ | 0.165 | 42,707 | 300,495 | 42,707 |
| $N$ | 300,495 |  |  |  |
| B. Hotdeck sample | 0.014 | 0.009 | 0.009 | 0.007 |
| DID estimate | $[.0050]$ | $[.0061]$ | $[.0044]$ | $[.0045]$ |
| s.e. | 0.128 | 0.050 | 0.150 | 0.052 |
| Adj. $R^{2}$ | 289,082 | 45,193 | 289,082 | 45,193 |
| $N$ |  |  |  |  |

Notes: Authors' calculations (period 2016-2019). Robust and clustered standard errors in brackets (at the state x border level). Panel A uses the households in the CONEVAL sample to calculate poverty, and panel B uses the sample obtained from the hotdeck procedure.

Table S12. Effects on Poverty Incidence, Poverty Gap, and Poverty Gap Squared, Adjusting the Poverty Line by Region (year $\leq 2019$ ) [table 7].

|  | Poverty |  | Poverty Gap |  | Poverty Gap <br> Squared |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Rest of <br> the <br> country | Rest of <br> northern <br> region | Rest of <br> the <br> country | Rest of <br> northern <br> region | Rest of <br> the <br> country | Rest of <br> northern <br> region |
| A. CONEVAL Sample |  |  |  |  |  |  |
| DID estimate | -0.040 | -0.029 | 0.031 | 0.033 | 0.034 | 0.039 |
| s.e. | $[.013]$ | $[.012]$ | $[.008]$ | $[.009]$ | $[.009]$ | $[.009]$ |
| Adj. $R^{2}$ |  |  | 0.204 | 0.311 | 0.226 | 0.351 |
| $N$ | $1,457,050$ | 321,914 | 529,943 | 89,243 | 529,943 | 89,243 |
| B. Hotdeck sample |  |  |  |  |  |  |
| DID estimate | -0.035 | -0.033 | 0.028 | 0.024 | 0.029 | 0.027 |
| s.e. | $[.011]$ | $[.009]$ | $[.004]$ | $[.006]$ | $[.006]$ | $[.007]$ |
| Adj. $R^{2}$ |  |  | 0.223 | 0.314 | 0.256 | 0.356 |
| $N$ | $1,619,678$ | 379,950 | 498,436 | 91,178 | 498,436 | 91,178 |

Notes: Authors' calculations (period 2016-2019). Robust and clustered standard errors in brackets (at the state $x$ border level). Panel A uses the households in the CONEVAL sample to calculate poverty, and panel B uses the sample obtained from the hotdeck procedure. Estimations for the poverty gap and its square are restricted to poor households. Poverty line for rest of northern region is the same as for the rest of the country. Regression controls for year-quarter fixed effects, state $x$ border fixed effects, and for rural status, family size, number of members under 15 years old, number of members over 65 years old, and the age, years of schooling, gender, and marital status (married or living together) of the household head.

Table S13. Adjusting Poverty Lines by Region: Effects on the Probability of Poverty in $t$
Given That the Household Is Poor or Non-poor in $t-1$ (year $\leq 2019$ ) [table S4].

|  | $\operatorname{Pr}($ Poor in $t \mid$ Poor in $t-1)$ | $\operatorname{Pr}($ Poor in $t \mid$ Non-poor in $t-1)$ |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | Rest of the <br> country | Rest of <br> northern <br> region | Rest of the <br> country | Rest of <br> northern <br> region |
| A. CONEVAL Sample -0.003 -0.044 -0.028  <br> DID estimate 0.014 $[.074]$ $[.015]$ $[.011]$ <br> s.e. $[.057]$ 9,499 101,676 23,059 <br> Adj. $R^{2}$    -0.038 <br> $N$ 61,362 0.014 -0.025  <br> B. Hotdeck sample  $[.056]$ $[.005]$ $[.005]$ <br> DID estimate <br> s.e. 0.027 10,416 139,030 33,669 <br> Adj. $R^{2}$     <br> $N$     | 58,635 |  |  |  |

Notes: Authors' calculations (period 2016-2019). The regressions report the marginal effect from a probit. Robust and clustered standard errors in brackets (at the state x border level). Panel A uses the households in the CONEVAL sample to calculate poverty, and panel B uses the sample obtained from the hotdeck procedure. Regressions restricted to households either poor or non-poor in period $t$-1. Regression controls for year-quarter fixed effects, state $x$ border fixed effects (both in period $t$ ), for rural status, family size, number of members under 15 years old, number of members over 65 years old, and the age, years of schooling, gender, and marital status (married or living together) of the household head (in period $t-1$ ).

Figure S3. Unconditional quantile effects estimated from 2016-2020 vs 2016-2019.


Notes: Authors' calculations. 95 percent confidence intervals in gray using robust and clustered standard errors at the state x northern border level.

Figure S4. Densities of income per capita for 2018 and 2019 and their difference.


Notes: Kernel density calculated with Epanechnikov at 1500 points and with a bandwidth of 0.169 . Hotdeck sample considered. Dash line in panel B is the median poverty line in 2019.

Figure S5. Formality across households and household income per capita.
A. Percent of household heads that have formal employment

B. Percent of household income obtained in formal sector

C. Percent of household hours worked
in formal sector


Notes: Authors' calculations. Hotdeck sample (period 2016-2020). Figure calculated with 25 groups of income per capita. Solid line is smoothed with lowess. Dash line is the median poverty line in 2019.

Figure S6. Effect on prices: Change in the value of the poverty line.
A. Rural sector
B. Urban sector



Notes: Authors' calculations. We follow the methodology of CONEVAL (2019) to construct poverty lines at the regional level.

