Supplemental Table 1: Decomposition of the explained variance

|  |  |  |
| --- | --- | --- |
|  | **Percentage point change in food deprivation (%)** | |
| Covariates | Standardized coefficient | Shapley % of *R2* |
| Per 1% rise in food prices above rise in wages | 0.38 | 54.32% |
| $100 annual increase in GDP per capita | 0.23 | 7.09% |
| 1ppt rise in unemployment rate | 0.37 | 38.59% |
|  |  |  |
| Observations | 166 |  |
| *R2* | 0.26 |  |

*Notes:* Decomposition of the explained variance is conducted according to the Shapley method.

Supplemental Table 2: The price-wage disconnect and food deprivation by welfare regime, full model

|  |  |
| --- | --- |
|  | **Percentage point change in food deprivation (%)** |
| **Variables** | (1) |
| Per 1% rise in food prices above rise in wages | -0.0025 (0.015) |
|  |  |
| Welfare\_regime (baseline = Social democratic) |  |
| Corporatist | -0.20 (0.15) |
|  |  |
| Liberal Market | -0.22 (0.31) |
|  |  |
| Mediterranean | -0.72\*\* (0.12) |
|  |  |
| Eastern European | -1.78\*\* (0.46) |
|  |  |
| Per 1% rise in food prices above rise in wages x welfare regime |  |
| Corporatist | 0.031 (0.024) |
|  |  |
| Liberal Market | 0.057\*\* (0.019) |
|  |  |
| Mediterranean | 0.12\* (0.044) |
|  |  |
| Eastern European | 0.078\*\* (0.021) |
|  |  |
| $100 annual increase in GDP per capita | 0.022 (0.012) |
|  |  |
| 1ppt rise in unemployment rate | 0.26 (0.14) |
|  |  |
| Country-years | 166 |
| Countries | 21 |
| *R*2 | 0.39 |

*Notes:* Source: OECD and EuroStat. Constant (which in a difference model estimates the average annual change in food deprivation) is estimated but not shown. Standard errors reported in parentheses and are calculated to account for repeated observations within the same country.

\* *p* < 0.05, \*\* *p* < 0.01

Supplemental Table 3: The price-wage disconnect, austerity, and food deprivation by welfare regime

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Percentage point change in food deprivation (%)** | | |
| **Variables** | | (1) |
| Per 1% rise in food prices above rise in wages | | 0.00055 (0.015) |
|  | |  |
| Welfare regime (baseline = Social democratic) | |  |
| Corporatist | | -0.28 (0.17) |
|  | |  |
| Liberal Market | | -0.53 (0.35) |
|  | |  |
| Mediterranean | | -0.91\*\* (0.16) |
|  | |  |
| Eastern European | | -1.80\*\* (0.46) |
|  | |  |
| Per 1% rise in food prices above rise in wages x welfare regime | |  |
| Corporatist | | 0.023 (0.022) |
|  | |  |
| Liberal Market | | 0.048\* (0.017) |
|  | |  |
| Mediterranean | | 0.10\* (0.042) |
|  | |  |
| Eastern European | | 0.065\*\* (0.023) |
|  | |  |
| $100 annual increase in GDP per capita | | 0.025 (0.012) |
|  | |  |
| 1ppt rise in unemployment rate | | 0.23 (0.14) |
|  | |  |
| Announced and begun implementing austerity (Yes = 1) | | 0.63 (0.30) |
|  | |  |
| Country-years | | 166 |
| Countries | | 21 |
| *R*2 | | 0.41 |

*Notes:* Source: OECD and EuroStat. Constant (which in a difference model estimates the average annual change in food deprivation) is estimated but not shown. Standard errors reported in parentheses and are calculated to account for repeated observations within the same country.

\* *p* < 0.05, \*\* *p* < 0.01

Supplemental Table 4: Food deprivation, poverty, and decomposing the price-wage disconnect in 21 EU countries, 2004 and 2012.

|  |  |  |
| --- | --- | --- |
|  | **Percentage point change in food deprivation (%)** | |
| **Variables** | (1) | (2) |
| Per 1% rise in food prices above rise in wages | 0.060\*\* (0.014) | \_\_ |
|  |  |  |
| $100 annual increase in GDP per capita | 0.029\* (0.014) | 0.029\* (0.014) |
|  |  |  |
| 1ppt rise in unemployment rate | 0.38\* (0.11) | 0.39\*\* (0.11) |
|  |  |  |
| Per 1% rise in food prices | \_\_ | 0.059\*\*  (0.015) |
|  |  |  |
| Per 1% rise in wages | \_\_ | -0.068\*  (0.025) |
|  |  |  |
| Country-years | 166 | 166 |
| Countries | 21 | 21 |
| *R*2 | 0.28 | 0.28 |

*Notes:* Source: OECD and EuroStat. Constant (which in a difference model estimates the average annual change in food insecurity) is estimated but not shown. Standard errors reported in parentheses and are calculated to account for repeated observations within the same country.

\* *p* < 0.05, \*\* *p* < 0.01

Supplemental Table 5: Food deprivation, the price-wage disconnect across food, energy, and housing in 21 EU countries, 2004 and 2012.

|  |  |  |
| --- | --- | --- |
|  | **Percentage point change in food deprivation (%)** | |
| **Variables** | (1) | (2) |
| Per 1% rise in food prices above rise in wages | 0.060\*\* (0.014) | 0.060\* (0.025) |
|  |  |  |
| $100 annual increase in GDP per capita | 0.029\* (0.014) | 0.029\* (0.014) |
|  |  |  |
| 1ppt rise in unemployment rate | 0.38\*\* (0.11) | 0.38\*\* (0.12) |
|  |  |  |
| Per 1% rise in energy prices above rise in wages | \_\_ | 0.0033 (0.011) |
|  |  |  |
| Per 1% rise in cost of housing above rise in wages | \_\_ | -0.0073 (0.014) |
|  |  |  |
| Country-years | 166 | 166 |
| Countries | 21 | 21 |
| *R*2 | 0.28 | 0.28 |

*Notes:* Source: OECD and EuroStat. Constant (which in a difference model estimates the average annual change in food insecurity) is estimated but not shown. Standard errors reported in parentheses and are calculated to account for repeated observations within the same country. Energy prices include heating, coal, gas, and electricity. Cost of housing includes housing services as well as rents.

\* *p* < 0.05, \*\* *p* < 0.01

Supplemental Table 6: Share of income spent on food and the price-wage disconnect in 21 EU countries, 2004 and 2012.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Percentage point change in share of household income spent of food (%)** | | |
| **Variables** | (1) | (2) | (3) |
| Per 1% rise in food prices above rise in wages | 0.0071\*\* (0.0024) | 0.0060\* (0.0023) | 0.0062\*\* (0.0021) |
|  |  |  |  |
| $100 annual increase in GDP per capita |  | -0.0051 (0.0030) | -0.0019 (0.0020) |
|  |  |  |  |
| 1ppt rise in unemployment rate |  |  | 0.061\*\* (0.015) |
|  |  |  |  |
| Country-years | 165 | 165 | 165 |
| Countries | 21 | 21 | 21 |
| *R*2 | 0.035 | 0.062 | 0.11 |

*Notes:* Source: OECD and EuroStat. Constant (which in a difference model estimates the average annual change in food insecurity) is estimated but not shown. Standard errors reported in parentheses and are calculated to account for repeated observations within the same country.

\* *p* < 0.05, \*\* *p* < 0.01

Supplemental Table 7: Food deprivation, relative poverty, and the price-wage disconnect in 21 EU countries, 2004 and 2012.

|  |  |  |
| --- | --- | --- |
|  | **Percentage point change in food deprivation (%)** | |
| **Variables** | (1) | (2) |
| Per 1% rise in food prices above rise in wages | 0.060\*\* (0.014) | 0.058\*\* (0.014) |
|  |  |  |
| $100 annual increase in GDP per capita | 0.029\* (0.014) | 0.029\* (0.012) |
|  |  |  |
| 1ppt rise in unemployment rate | 0.38\*\* (0.11) | 0.37\*\* (0.11) |
|  |  |  |
| 1ppt rise in relative poverty (60% of median income) | \_\_ | 0.36\* (0.16) |
|  |  |  |
| Country-years | 166 | 166 |
| Countries | 21 | 21 |
| *R*2 | 0.28 | 0.31 |

*Notes:* Source: OECD and EuroStat. Constant (which in a difference model estimates the average annual change in food insecurity) is estimated but not shown. Standard errors reported in parentheses and are calculated to account for repeated observations within the same country.

\* *p* < 0.05, \*\* *p* < 0.01

Supplemental Table 8: Food deprivation and the price-wage disconnect in 20 EU countries (excluding outliers), 2004 and 2012.

|  |  |  |
| --- | --- | --- |
|  | **Percentage point change in food deprivation (%)** | |
| **Variables** | Includes outliers | Excludes outliers |
| Per 1% rise in food prices above rise in wages | 0.060\*\* (0.014) | 0.052\*\* (0.011) |
|  |  |  |
| $100 annual increase in GDP per capita | 0.029\* (0.014) | 0.024 (0.012) |
|  |  |  |
| 1ppt rise in unemployment rate | 0.38\*\* (0.11) | 0.39\*\* (0.11) |
|  |  |  |
| Country-years | 166 | 159 |
| Countries | 21 | 21 |
| *R*2 | 0.26 | 0.28 |

*Notes:* Source: OECD and EuroStat. Constant (which in a difference model estimates the average annual change in food deprivation) is estimated but not shown. Standard errors reported in parentheses and are calculated to account for repeated observations within the same country. Outliers are defined as those observations with a standardized residual greater than |2|.

\* *p* < 0.05, \*\* *p* < 0.01

Supplemental Table 9: Food deprivation and the price-wage disconnect in 21 EU countries, including time dummies, 2004 and 2012.

|  |  |  |
| --- | --- | --- |
|  | **Percentage point change in food deprivation (%)** | |
| **Variables** | (1) | (2) |
| Per 1% rise in food prices above rise in wages | 0.060\*\* (0.014) | 0.046\*\* (0.013) |
|  |  |  |
| $100 annual increase in GDP per capita | 0.029\* (0.014) | 0.010 (0.013) |
|  |  |  |
| 1ppt rise in unemployment rate | 0.38\*\* (0.11) | 0.44\*\* (0.14) |
|  |  |  |
| Time Dummies included | N | Y |
|  |  |  |
| Country-years | 166 | 166 |
| Countries | 21 | 21 |
| *R*2 | 0.28 | 0.33 |

*Notes:* Source: OECD and EuroStat. In model 1, constant (which in a difference model estimates the average annual change in food deprivation) is estimated but not shown. In model 2, the constant becomes the first time dummy (i.e., 2004). Standard errors reported in parentheses and are calculated to account for repeated observations within the same country.

\* *p* < 0.05, \*\* *p* < 0.01