

**Web Appendix for**  
**U.S. FOOD AID AND CIVIL CONFLICT**

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## 1. Introduction

This appendix accompanies “U.S. Food Aid and Civil Conflict” by Nathan Nunn and Nancy Qian. Section 2 provides a detailed explanation of the data and their sources. Section 3 reports additional tables and figures mentioned in the paper, but not reported explicitly.

## 2. Data and Their Sources

*Conflict.* Our baseline measure of the existence of conflict is constructed using data from the UCDP/PRIO Armed Conflict Dataset, where a conflict is defined as the use of armed force between two parties that results in at least 25 battle deaths in a year. Although we focus on intra-state conflicts (i.e. civil conflicts), we also consider inter-state conflicts and conflicts of all types. An intra-state conflict is defined as a conflict between a government and one or more internal opposition groups, without intervention from other states. An inter-state conflict is defined as a conflict occurring between two or more states. The measure of all conflicts includes intra- and inter-state conflicts, as well as a small number of conflicts labelled by UCDP/PRIO as “extra-systemic” or “internationalized” conflicts. Extra-systemic conflicts are conflicts between a state and non-state group that occur outside of the government’s territory. Internationalized conflicts are conflicts between a state and a non-state group with intervention from another state. In auxiliary regressions, we also use conflict incidence data from the Correlates of War Database. This uses a 1000 death threshold.

*U.S. wheat production.* Annual U.S. wheat production is taken from the United States Department of Agriculture. It is originally reported in metric tons. In the analysis, we measure production in thousands of metric tons.

*U.S. wheat aid.* Wheat aid data are from the FAO’s FAOSTAT Database, accessed in August 2008. The database is located at <http://faostat.fao.org>. The figures are measured in metric tons, and include wheat and wheat flour. The FAO item code is 1945. In the analysis, we measure U.S. wheat aid in thousands of tonnes.

*Monthly country-average temperature and precipitation.* The measures are constructed using country boundaries and monthly weather data measured across grid-cells from the Terrestrial Air Temperature and Precipitation: 1900-2006 Gridded Monthly Time Series, Version 1.10. The

data report daily mean temperature (measured in degrees Celsius) and daily mean precipitation (measured in millimeters) with 0.5 degree by 0.5 degree (approximately 56 km by 56 km) grid-cells globally for each month from 1900 to 2006. For documentation see Kenji Matsuura and Cort Willmott (2007). We construct area-weighted country averages of the monthly temperature and precipitation variables.

*Region fixed effects.* Our region-fixed effects are constructed using the World Bank region classification. Within our sample, which excludes high-income OECD countries, the regions are: East Asia and Pacific, Europe and Central Asia, Latin America and Caribbean, Middle East and North Africa, South Asia, and sub-Saharan Africa.

### **3. Additional Tables**

Table A1: Part 1: Countries and their propensity to receive U.S. food aid.

| Recipient<br>iso code | Recipient country name   | Fraction of years a<br>country received any<br>U.S. wheat aid, 1971-<br>2006 |
|-----------------------|--------------------------|------------------------------------------------------------------------------|
| RUS                   | Russia                   | 0.000                                                                        |
| SAU                   | Saudi Arabia             | 0.000                                                                        |
| QAT                   | Qatar                    | 0.000                                                                        |
| COM                   | Comoros                  | 0.000                                                                        |
| BWA                   | Botswana                 | 0.000                                                                        |
| BHS                   | Bahamas                  | 0.000                                                                        |
| OMN                   | Oman                     | 0.000                                                                        |
| VEN                   | Venezuela, RB            | 0.000                                                                        |
| KWT                   | Kuwait                   | 0.000                                                                        |
| PNG                   | Papua New Guinea         | 0.000                                                                        |
| LBY                   | Libya                    | 0.000                                                                        |
| ZAF                   | South Africa             | 0.000                                                                        |
| ARG                   | Argentina                | 0.000                                                                        |
| CUB                   | Cuba                     | 0.000                                                                        |
| TLS                   | Timor-Leste              | 0.000                                                                        |
| BRN                   | Brunei Darussalam        | 0.000                                                                        |
| ARE                   | United Arab Emirates     | 0.000                                                                        |
| TTO                   | Trinidad and Tobago      | 0.028                                                                        |
| THA                   | Thailand                 | 0.028                                                                        |
| FJI                   | Fiji                     | 0.028                                                                        |
| CMR                   | Cameroon                 | 0.028                                                                        |
| NAM                   | Namibia                  | 0.028                                                                        |
| ROU                   | Romania                  | 0.028                                                                        |
| IRN                   | Iran, Islamic Rep.       | 0.056                                                                        |
| SEN                   | Senegal                  | 0.056                                                                        |
| URY                   | Uruguay                  | 0.056                                                                        |
| NGA                   | Nigeria                  | 0.056                                                                        |
| SLB                   | Solomon Islands          | 0.056                                                                        |
| LVA                   | Latvia                   | 0.067                                                                        |
| BLZ                   | Belize                   | 0.083                                                                        |
| TUR                   | Turkey                   | 0.111                                                                        |
| BTN                   | Bhutan                   | 0.111                                                                        |
| BGR                   | Bulgaria                 | 0.111                                                                        |
| MYS                   | Malaysia                 | 0.111                                                                        |
| LAO                   | Lao PDR                  | 0.111                                                                        |
| MEX                   | Mexico                   | 0.111                                                                        |
| UZB                   | Uzbekistan               | 0.133                                                                        |
| LTU                   | Lithuania                | 0.133                                                                        |
| KAZ                   | Kazakhstan               | 0.133                                                                        |
| CHN                   | China                    | 0.139                                                                        |
| GAB                   | Gabon                    | 0.139                                                                        |
| ZWE                   | Zimbabwe                 | 0.139                                                                        |
| TZA                   | Tanzania                 | 0.167                                                                        |
| CIV                   | Cote d'Ivoire            | 0.167                                                                        |
| CYP                   | Cyprus                   | 0.194                                                                        |
| TGO                   | Togo                     | 0.194                                                                        |
| SYR                   | Syrian Arab Republic     | 0.222                                                                        |
| GMB                   | Gambia                   | 0.222                                                                        |
| AGO                   | Angola                   | 0.222                                                                        |
| KHM                   | Cambodia                 | 0.222                                                                        |
| SUR                   | Suriname                 | 0.222                                                                        |
| GNB                   | Guinea-Bissau            | 0.222                                                                        |
| CPV                   | Cape Verde               | 0.250                                                                        |
| DZA                   | Algeria                  | 0.250                                                                        |
| MNG                   | Mongolia                 | 0.250                                                                        |
| IRQ                   | Iraq                     | 0.250                                                                        |
| UKR                   | Ukraine                  | 0.267                                                                        |
| BLR                   | Belarus                  | 0.267                                                                        |
| PAN                   | Panama                   | 0.278                                                                        |
| CAF                   | Central African Republic | 0.306                                                                        |
| DJI                   | Djibouti                 | 0.306                                                                        |
| BEN                   | Benin                    | 0.306                                                                        |
| PRY                   | Paraguay                 | 0.306                                                                        |

Table A1: Part 2: Countries and their propensity to receive U.S. food aid.

| Recipient<br>iso code | Recipient country name | Fraction of years a<br>country received any<br>U.S. wheat aid, 1971-<br>2006 |
|-----------------------|------------------------|------------------------------------------------------------------------------|
| NER                   | Niger                  | 0.306                                                                        |
| MDG                   | Madagascar             | 0.333                                                                        |
| ALB                   | Albania                | 0.333                                                                        |
| ERI                   | Eritrea                | 0.333                                                                        |
| SWZ                   | Swaziland              | 0.333                                                                        |
| UGA                   | Uganda                 | 0.333                                                                        |
| NPL                   | Nepal                  | 0.333                                                                        |
| MLI                   | Mali                   | 0.361                                                                        |
| GIN                   | Guinea                 | 0.361                                                                        |
| MWI                   | Malawi                 | 0.389                                                                        |
| ZMB                   | Zambia                 | 0.389                                                                        |
| BDI                   | Burundi                | 0.389                                                                        |
| CHL                   | Chile                  | 0.389                                                                        |
| COG                   | Congo, Rep.            | 0.389                                                                        |
| LBR                   | Liberia                | 0.389                                                                        |
| BRA                   | Brazil                 | 0.417                                                                        |
| COL                   | Colombia               | 0.417                                                                        |
| MUS                   | Mauritius              | 0.444                                                                        |
| LBN                   | Lebanon                | 0.444                                                                        |
| TKM                   | Turkmenistan           | 0.467                                                                        |
| IND                   | India                  | 0.472                                                                        |
| TCD                   | Chad                   | 0.500                                                                        |
| COD                   | Congo, Dem. Rep.       | 0.500                                                                        |
| ETH                   | Ethiopia               | 0.528                                                                        |
| SLE                   | Sierra Leone           | 0.556                                                                        |
| SOM                   | Somalia                | 0.556                                                                        |
| LSO                   | Lesotho                | 0.556                                                                        |
| DOM                   | Dominican Republic     | 0.583                                                                        |
| CRI                   | Costa Rica             | 0.611                                                                        |
| BFA                   | Burkina Faso           | 0.639                                                                        |
| PHL                   | Philippines            | 0.639                                                                        |
| ECU                   | Ecuador                | 0.639                                                                        |
| TUN                   | Tunisia                | 0.639                                                                        |
| RWA                   | Rwanda                 | 0.667                                                                        |
| MDA                   | Moldova                | 0.667                                                                        |
| JAM                   | Jamaica                | 0.694                                                                        |
| AFG                   | Afghanistan            | 0.694                                                                        |
| GHA                   | Ghana                  | 0.722                                                                        |
| MAR                   | Morocco                | 0.750                                                                        |
| KEN                   | Kenya                  | 0.750                                                                        |
| MOZ                   | Mozambique             | 0.750                                                                        |
| EGY                   | Egypt, Arab Rep.       | 0.778                                                                        |
| NIC                   | Nicaragua              | 0.778                                                                        |
| MRT                   | Mauritania             | 0.806                                                                        |
| SLV                   | El Salvador            | 0.806                                                                        |
| GUY                   | Guyana                 | 0.833                                                                        |
| SDN                   | Sudan                  | 0.861                                                                        |
| KGZ                   | Kyrgyz Republic        | 0.867                                                                        |
| JOR                   | Jordan                 | 0.889                                                                        |
| GTM                   | Guatemala              | 0.889                                                                        |
| PAK                   | Pakistan               | 0.917                                                                        |
| ARM                   | Armenia                | 0.933                                                                        |
| AZE                   | Azerbaijan             | 0.933                                                                        |
| LKA                   | Sri Lanka              | 0.944                                                                        |
| IDN                   | Indonesia              | 0.944                                                                        |
| PER                   | Peru                   | 0.944                                                                        |
| BOL                   | Bolivia                | 1.000                                                                        |
| TJK                   | Tajikistan             | 1.000                                                                        |
| HND                   | Honduras               | 1.000                                                                        |
| HTI                   | Haiti                  | 1.000                                                                        |
| GEO                   | Georgia                | 1.000                                                                        |
| BGD                   | Bangladesh             | 1.000                                                                        |

Table A2: Pairwise correlations between country characteristics and the average propensity of a country to receive food aid from 1971-2006.

|                                                     | Correlate of interest: |                  |                   |                   |                   |                  |                   |                     |                       |                     |                   |
|-----------------------------------------------------|------------------------|------------------|-------------------|-------------------|-------------------|------------------|-------------------|---------------------|-----------------------|---------------------|-------------------|
|                                                     | Military aid           | Economic aid     | Cereal imports    | Cereal production | Per capita income | Polity2          | Ethnic diversity  | Ethnic polarization | Resource share of GDP | Alignment with U.S. | Roads per capita  |
| Avg propensity to receive U.S. wheat aid, 1971-2006 | 0.137<br>(0.128)       | 0.256<br>(0.004) | -0.182<br>(0.042) | -0.155<br>(0.084) | -0.317<br>(0.000) | 0.010<br>(0.913) | -0.061<br>(0.503) | -0.166<br>(0.082)   | -0.243<br>(0.006)     | 0.082<br>(0.364)    | -0.304<br>(0.001) |
| Obs                                                 | 125                    | 125              | 125               | 125               | 125               | 120              | 123               | 111                 | 125                   | 124                 | 124               |

*Notes:* The table reports pairwise correlation coefficients between the reported variable and the average propensity of a country to receive food aid from the United States. *P*-values are reported in parenthesis.

Table A3: Pairwise correlations between time-varying characteristics and lagged U.S. wheat production.

|                              | Correlate of interest:   |                      |                                    |                     |
|------------------------------|--------------------------|----------------------|------------------------------------|---------------------|
|                              | U.S. real per capita GDP | Oil price (2011 USD) | Indicator: US Democratic President | Indicator: Cold War |
| Lagged U.S. wheat production | 0.298<br>(0.078)         | 0.198<br>(0.247)     | 0.198<br>(0.247)                   | -0.246<br>(0.149)   |
| Obs                          | 36                       | 36                   | 36                                 | 36                  |

*Notes:* The table reports pairwise correlation coefficients between the reported variable and one-year lagged U.S. wheat production. *P*-values are reported in parenthesis.

Table A4: First-stage placebo regressions.

|                                                                     | Dependent Variable:      |                                              |                                              |
|---------------------------------------------------------------------|--------------------------|----------------------------------------------|----------------------------------------------|
|                                                                     | U.S. Wheat Aid (1000 MT) | U.S. Wheat Aid (1000 MT), Period <i>t</i> -2 | U.S. Wheat Aid (1000 MT), Period <i>t</i> -3 |
|                                                                     | (1)                      | (2)                                          | (3)                                          |
| Lag U.S. Wheat Production (1000 MT) x Avg Prob of Any U.S. Food Aid | 0.00358<br>(0.00103)     | 0.00052<br>(0.00109)                         | 0.00008<br>(0.00120)                         |
| Observations                                                        | 4,089                    | 3,870                                        | 3,759                                        |
| R-squared                                                           | 0.545                    | 0.558                                        | 0.569                                        |

*Notes:* OLS estimates are reported. The unit of observation is a country in a year. The sample includes 125 non-OECD countries for the years 1971-2006. All regressions include the full set of baseline controls (see Table 2 columns (5)-(7) for a full list). Coefficients are reported, with standard errors clustered at the country level.

Table A5: First-stage estimates for other donor countries.

|                                                                      | Dependent Variable: Donor Wheat Aid (1000 MT) |                      |                      |                      |                      |                       |
|----------------------------------------------------------------------|-----------------------------------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|
|                                                                      | USA                                           | Canada               | European Union       | Australia            | Japan                | Sweden                |
|                                                                      | (1)                                           | (2)                  | (3)                  | (4)                  | (5)                  | (6)                   |
| Lagged Donor Wheat Production (1000 MT) x Avg Prob of Donor Food Aid | 0.00358<br>(0.00103)                          | 0.00199<br>(0.00092) | 0.00000<br>(0.00000) | 0.00021<br>(0.00034) | 0.06242<br>(0.02707) | -0.00180<br>(0.00231) |
| Observations                                                         | 4,089                                         | 4,089                | 4,089                | 4,089                | 4,089                | 4,089                 |
| R-squared                                                            | 0.545                                         | 0.619                | 0.529                | 0.745                | 0.486                | 0.340                 |

Notes: OLS estimates are reported. The unit of observation is a country in a year. The sample includes 125 non-OECD countries for the years 1971-2006. All regressions include the full set of baseline controls (see Table 2 columns (5)-(7) for a full list) except that for non-US countries: (i) average probability of donor food aid interacted with a US Democratic president indicator is omitted, and (ii) the control for U.S. real per capita GDP interacted with average food aid probability is replaced with donor country real per capita GDP interacted with average food aid probability. Coefficients are reported, with standard errors clustered at the country level.

Table A6: Total wheat aid shipments over the sample period 1971–2006.

| Donor name  | Donor's total wheat aid shipments, 1971-2006 | Donor's share of global wheat aid shipments, 1971-2006 |
|-------------|----------------------------------------------|--------------------------------------------------------|
| New Zealand | 2,210                                        | 0.0000                                                 |
| Libya       | 31,757                                       | 0.0002                                                 |
| China       | 128,333                                      | 0.0007                                                 |
| Greece      | 163,599                                      | 0.0009                                                 |
| Austria     | 223,954                                      | 0.0013                                                 |
| Turkey      | 250,077                                      | 0.0014                                                 |
| Argentina   | 402,304                                      | 0.0023                                                 |
| Spain       | 414,761                                      | 0.0024                                                 |
| Norway      | 443,504                                      | 0.0025                                                 |
| Switzerland | 467,210                                      | 0.0027                                                 |
| Finland     | 535,626                                      | 0.0030                                                 |
| India       | 692,449                                      | 0.0039                                                 |
| Sweden      | 2,165,683                                    | 0.0123                                                 |
| Japan       | 3,238,729                                    | 0.0184                                                 |
| Australia   | 7,773,528                                    | 0.0442                                                 |
| EU          | 17,006,556                                   | 0.0968                                                 |
| Canada      | 22,521,286                                   | 0.1281                                                 |
| USA         | 119,290,064                                  | 0.6787                                                 |
| TOTAL       | 175,751,632                                  | 1.0000                                                 |

Notes: The EU includes Belgium, Denmark, France, Germany, Ireland, Italy, Netherlands, and Great Britain. We report separately wheat aid shipments of countries that joined the EU after Jan 1, 1973. These countries include: Austria (joined in 1995), Finland (1995), Greece (1981), Spain (1986), and Sweden (joined in 1995). Wheat aid shipments are measured in thousands of metric tons, and are from the FAO.



Table A7: Relationship between U.S. wheat aid shipped in different periods and civil conflict in year  $t$ .

|                           | Dependent Variable: Incidence of Civil Conflict in year $t$ |                          |                          |                          |                        |                          |                          |                          |                          |
|---------------------------|-------------------------------------------------------------|--------------------------|--------------------------|--------------------------|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                           | U.S. Wheat Aid ( $t-4$ )                                    | U.S. Wheat Aid ( $t-3$ ) | U.S. Wheat Aid ( $t-2$ ) | U.S. Wheat Aid ( $t-1$ ) | U.S. Wheat Aid ( $t$ ) | U.S. Wheat Aid ( $t+1$ ) | U.S. Wheat Aid ( $t+2$ ) | U.S. Wheat Aid ( $t+3$ ) | U.S. Wheat Aid ( $t+4$ ) |
|                           | (1)                                                         | (2)                      | (3)                      | (4)                      | (5)                    | (6)                      | (7)                      | (8)                      | (9)                      |
| U.S. Wheat Aid (1,000 MT) | 0.00033<br>(0.00110)                                        | 0.00091<br>(0.00097)     | 0.00184<br>(0.00107)     | 0.00250<br>(0.00117)     | 0.00254<br>(0.00088)   | 0.00151<br>(0.00113)     | 0.00102<br>(0.00183)     | 0.00063<br>(0.00417)     | -0.00024<br>(0.00280)    |
| Observations              | 3,647                                                       | 3,759                    | 3,870                    | 3,980                    | 4,089                  | 3,964                    | 3,839                    | 3,714                    | 3,589                    |

Notes: 2SLS estimates are reported. The sample includes 125 non-OECD countries for the years 1971-2006. In all columns, U.S. Wheat Aid is instrumented by U.S. wheat production in the previous year  $x$  the frequency of receiving any U.S. food aid during 1971-2006. The regressions include the full set of baseline controls. See Table 2, columns (5)-(7) for a list. Coefficients are reported with standard errors clustered at the country level in parentheses.

Table A8: Duration estimates. Heterogeneous effects I.

|                               | Logistic Discrete Time Hazard Model. Dep var: Offset of civil conflict |                   |           |                     |                  |
|-------------------------------|------------------------------------------------------------------------|-------------------|-----------|---------------------|------------------|
|                               | Income                                                                 | Natural resources | Polity    | Ethnic polarization | Ethnic diversity |
|                               | (1)                                                                    | (2)               | (3)       | (4)                 | (5)              |
| Panel A. High value subsample |                                                                        |                   |           |                     |                  |
| U.S. Wheat Aid (1000 MT):     |                                                                        |                   |           |                     |                  |
| Coefficient                   | -0.00026                                                               | -0.00130          | -0.00029  | -0.00107            | -0.00059         |
| Standard error                | (0.00033)                                                              | (0.00036)         | (0.00035) | (0.00040)           | (0.00035)        |
| Observations                  | 277                                                                    | 388               | 370       | 384                 | 342              |
| First-stage $F$ -stat         | 15.46                                                                  | 36.66             | 29.88     | 37.03               | 31.97            |
| Panel B. Low value subsample  |                                                                        |                   |           |                     |                  |
| U.S. Wheat Aid (1000 MT):     |                                                                        |                   |           |                     |                  |
| Coefficient                   | -0.00070                                                               | -0.00004          | -0.00062  | -0.00009            | -0.00016         |
| Standard error                | (0.00032)                                                              | (0.00028)         | (0.00029) | (0.00023)           | (0.00025)        |
| Observations                  | 432                                                                    | 316               | 338       | 317                 | 333              |
| First-stage $F$ -stat         | 9.22                                                                   | 8.79              | 8.20      | 7.90                | 7.23             |

Notes: In all specifications, U.S. Wheat Aid in year  $t$  is instrumented by U.S. wheat production in year  $t-1$   $x$  the probability of receiving any U.S. food aid between 1971 and 2006. The table reports estimates of a discrete time hazard model for the incidence of civil war offset. In this setting, survival is continued conflict. The coefficients reported are marginal effects evaluated at means. The control function approach is used to generate IV estimates for the hazard models. Panel A reports estimates for observations above the median value of the characteristic reported in the column heading. Panel B reports estimates for observations below the median value of the characteristic reported in the column heading.

Table A9: Duration estimates. Heterogeneous effects II.

| Logistic Discrete Time Hazard Model. Dep var: Offset of civil conflict |                                                       |                                                                   |              |           |                       |
|------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------|--------------|-----------|-----------------------|
|                                                                        | Average per capita<br>cereal production,<br>1971-2006 | Per capita cereal<br>production relative to<br>historical average | Road density | Cold War  | Alignment with the US |
|                                                                        | (1)                                                   | (2)                                                               | (3)          | (4)       | (5)                   |
| High value subsample                                                   |                                                       |                                                                   |              |           |                       |
| U.S. Wheat Aid (1000 MT):                                              |                                                       |                                                                   |              |           |                       |
| Coefficient                                                            | -0.00026                                              | -0.00071                                                          | -0.00020     | -0.00054  | -0.00018              |
| Standard error                                                         | (0.00020)                                             | (0.00031)                                                         | (0.00094)    | (0.00018) | (0.00110)             |
| Observations                                                           | 408                                                   | 339                                                               | 148          | 337       | 244                   |
| First-stage <i>F</i> -stat                                             | 11.83                                                 | 11.06                                                             | 4.62         | 12.44     | 7.45                  |
| Low value subsample                                                    |                                                       |                                                                   |              |           |                       |
| U.S. Wheat Aid (1000 MT):                                              |                                                       |                                                                   |              |           |                       |
| Coefficient                                                            | -0.00105                                              | 0.00018                                                           | -0.00036     | -0.00007  | -0.00043              |
| Standard error                                                         | (0.00069)                                             | (0.00044)                                                         | (0.00023)    | 0.00060   | (0.00019)             |
| Observations                                                           | 301                                                   | 322                                                               | 498          | 372       | 461                   |
| First-stage <i>F</i> -stat                                             | 16.62                                                 | 25.71                                                             | 12.62        | 27.85     | 12.95                 |

*Notes:* In all specifications, U.S. Wheat Aid in year  $t$  is instrumented by U.S. wheat production in year  $t-1$  x the probability of receiving any U.S. food aid between 1971 and 2006. The table reports estimates of a discrete time hazard model for the incidence of civil war offset. In this setting, survival is continued conflict. The coefficients reported are marginal effects evaluated at means. The control function approach is used to generate IV estimates for the hazard models. Panel A reports estimates for observations above the median value of the characteristic reported in the column heading. Panel B reports estimates for observations below the median value of the characteristic reported in the column heading. In column (4), Panel A reports estimates for Cold War years, while Panel B reports estimates for years after the Cold War.

4. Additional Figures

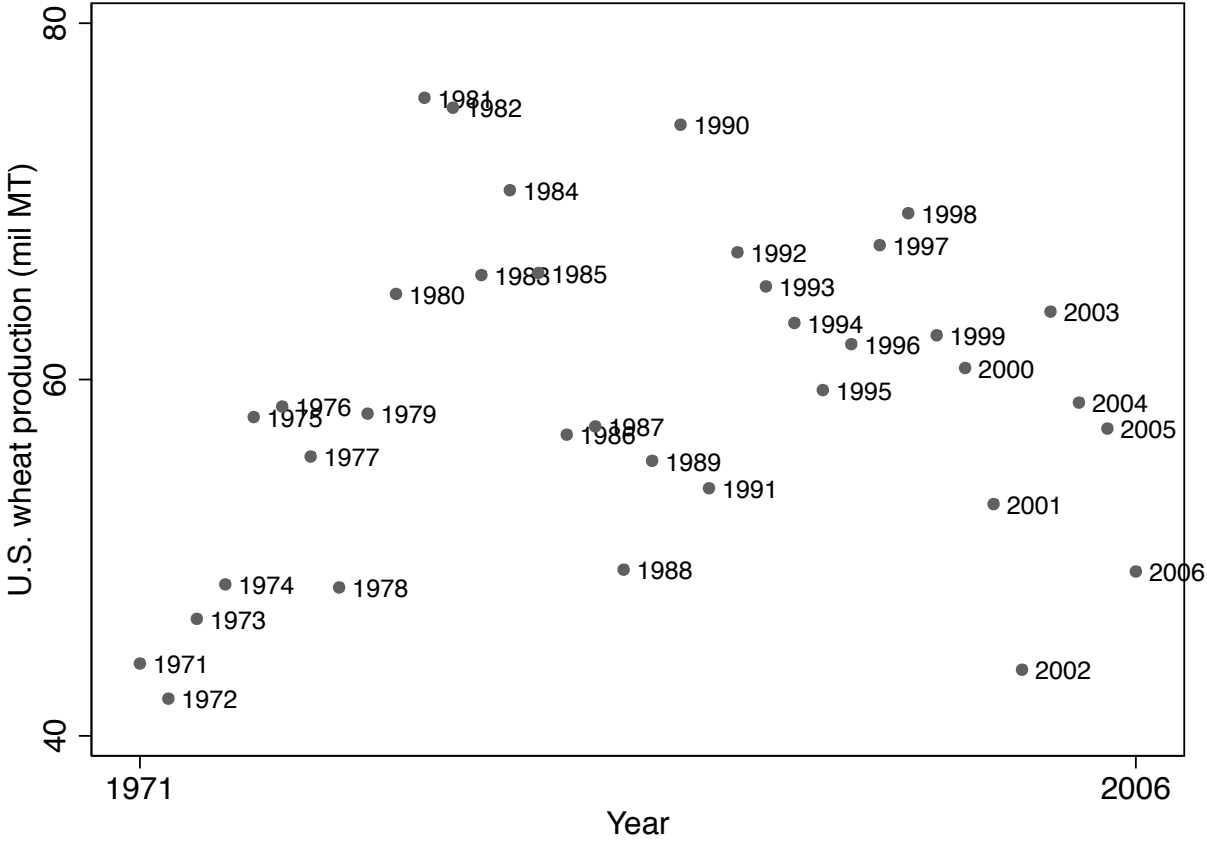


Figure A1: Aggregate U.S. wheat production over time, 1971–2006.

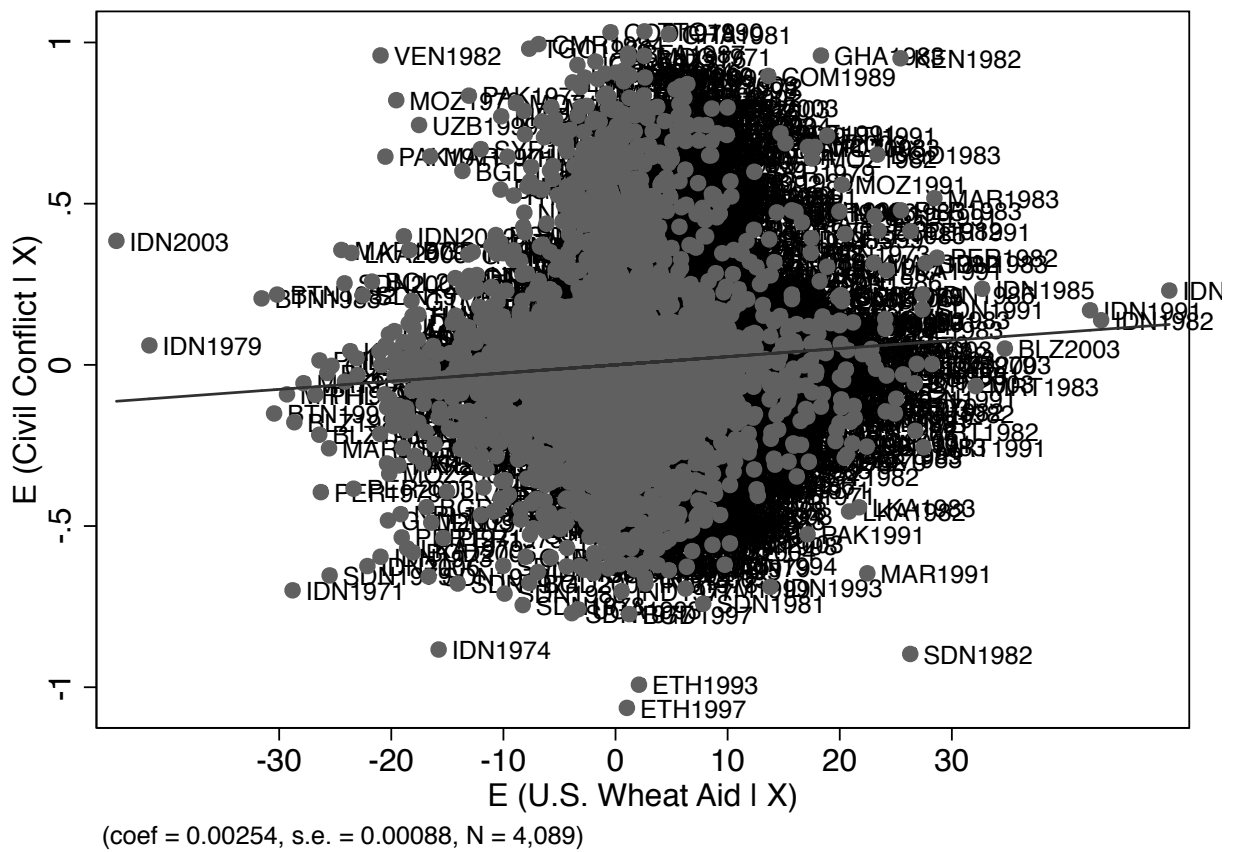
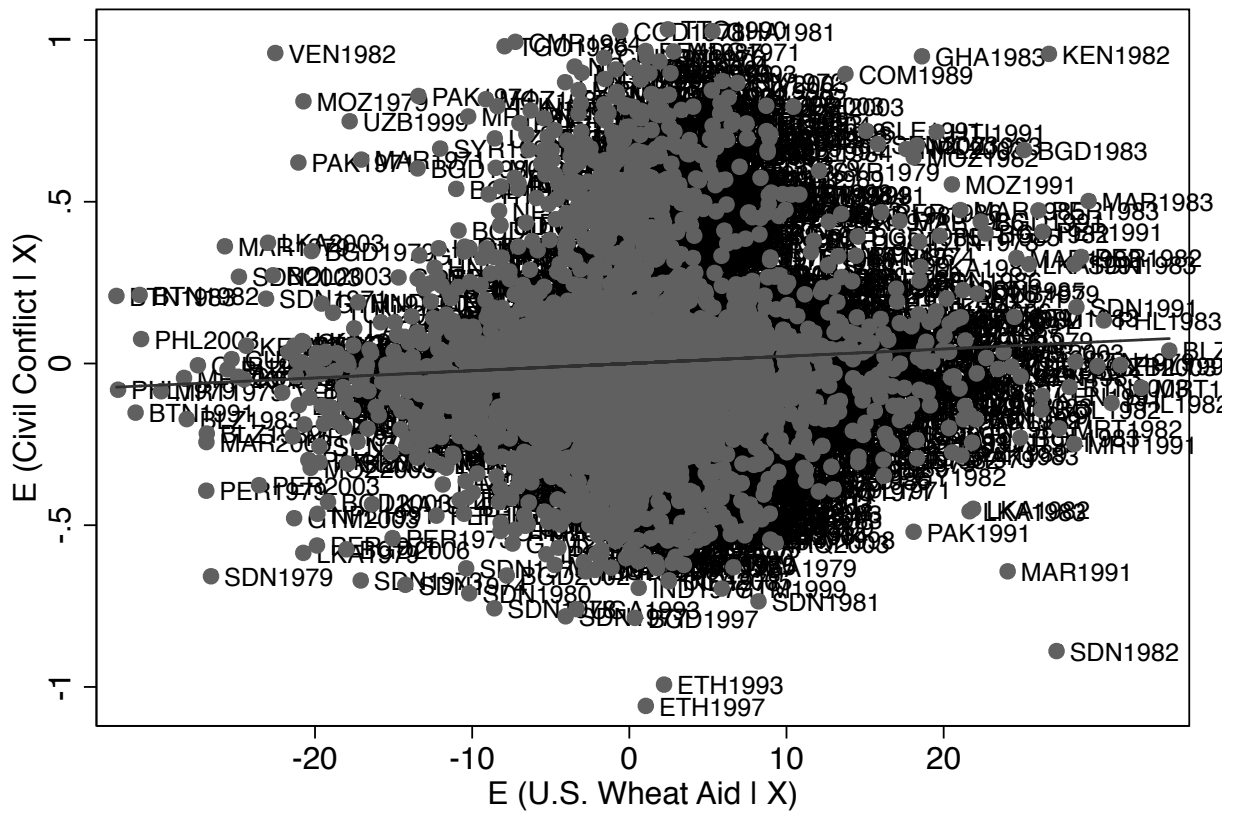


Figure A2: Partial correlate plot: Baseline estimate.



(coef = 0.00224, s.e. = 0.00093, N = 4,053)

Figure A3: Partial correlate plot: Omitting Indonesia (IDN).

## References

**Matsuura, Kenji, and Cort Willmott.** 2007. "Terrestrial Air Temperature and Precipitation: 1900-2006 Gridded Monthly Time Series, Version 1.01." University of Delaware. <http://climate.geog.udel.edu/climate/>.