Opening the Black Box Appendix

These are the statistical appendices for **Opening the Black Box of International Aid: Understanding Delivery Actors and Democratization** by Caroline Dunton and Jack Hasler.

For questions or comments on these appedices, please contact Jack Hasler at jhasler@gwu.edu.

Appendix A1: Donor Countries

| DonorName | yearly_mean_disbursement_mill | min_recipients | max_recipients |
|-----------------|-------------------------------|----------------|----------------|
| Australia | 440.0528874 | 21 | 75 |
| Austria | 11.5656375 | 17 | 39 |
| Belgium | 77.2602279 | 35 | 59 |
| Canada | 187.3442822 | 44 | 108 |
| Czech Republic | 3.3927799 | 16 | 26 |
| Denmark | 121.7239389 | 1 | 77 |
| Estonia | 1.5611606 | 12 | 15 |
| Finland | 34.7234662 | 26 | 78 |
| France | 87.0695265 | 68 | 102 |
| Germany | 443.5323385 | 61 | 108 |
| Greece | 1.7333526 | 1 | 17 |
| Hungary | 0.1901363 | 15 | 28 |
| Iceland | 0.2750526 | 1 | 4 |
| Ireland | 57.3973553 | 46 | 71 |
| Italy | 32.9352527 | 1 | 67 |
| Japan | 185.0282322 | 21 | 100 |
| Korea | 57.0148506 | 51 | 90 |
| Latvia | 0.3262304 | 6 | 6 |
| Lithuania | 0.4775556 | 6 | 13 |
| Luxembourg | 10.2945917 | 23 | 32 |
| Netherlands | 127.5803917 | 1 | 78 |
| New Zealand | 9.1415673 | 9 | 14 |
| Norway | 226.4750653 | 74 | 88 |
| Poland | 13.4057539 | 9 | 19 |
| Portugal | 5.1771190 | 7 | 24 |
| Slovak Republic | 1.0010950 | 6 | 14 |
| Slovenia | 0.6892109 | 9 | 13 |
| Spain | 141.1016398 | 52 | 78 |
| Sweden | 324.0185736 | 57 | 99 |
| Switzerland | 100.3724773 | 45 | 73 |
| United Kingdom | 635.4025147 | 85 | 100 |
| United States | 1748.1639588 | 92 | 114 |

$\#\# {\rm Appendix}$ A2: Recipient Countries

| RecipientName | yearly_mean_disbursement_mill | min_donors | max_donors |
|---------------------------------------|-------------------------------|------------|------------|
| Afghanistan | 1454.5988050 | 20 | 25 |
| Albania | 28.5554133 | 5 | 20 |
| Algeria | 5.4053150 | 4 | 14 |
| Angola | 18.9078871 | 3 | 16 |
| Argentina | 3.9492563 | 2 | 16 |
| Armenia | 21.8520699 | 2 | 18 |
| Azerbaijan | 14.0008915 | 4 | 19 |
| Bangladesh | 86.0097028 | 3 | 20 |
| Belarus | 20.5872266 | 3 | 20 |
| Benin | 25.8190745 | 5 | 14 |
| Bhutan | 4.7590775 | 2 | 10 |
| Bolivia | 56.6474398 | 6 | 20 |
| Botswana | 1.6344430 | 4 | 9 |
| Brazil | 28.6001162 | 6 | 19 |
| Burkina Faso | 32.2047531 | 6 | 17 |
| Burundi | 21.5998049 | 5 | 20 |
| Cabo Verde | 3.1641287 | 4 | 11 |
| Cambodia | 68.5745215 | 5 | 19 |
| Cameroon | 13.9559663 | 3 | 17 |
| Central African Republic | 3.6249119 | 2 | 9 |
| Chad | 4.3630840 | 3 | 11 |
| Chile | 5.9774782 | 5 | 15 |
| China (People's Republic of) | 47.9533944 | 4 | 20 |
| Colombia | 156.9757603 | 6 | 20 |
| Comoros | 0.8484550 | 1 | 3 |
| Congo | 2.3406678 | 1 | 9 |
| Costa Rica | 2.7829063 | 2 | 11 |
| Cote dIvoire | 8.7633801 | 3 | 14 |
| Croatia | 10.8587451 | 4 | 12 |
| Cuba | 15.4430655 | 4 | 14 |
| Democratic Republic of the Congo | 91.4338458 | 6 | 19 |
| Djibouti | 1.7626598 | 1 | 7 |
| Dominican Republic | 12.7146573 | 3 | 12 |
| Ecuador | 20.4083401 | 5 | 17 |
| Egypt | 48.3275946 | 4 | 22 |
| El Salvador | 26.5036880 | 4 | 17 |
| Equatorial Guinea | 0.4801148 | 1 | 5 |
| Eritrea | 2.7852548 | 2 | 10 |
| Ethiopia | 48.2342318 | 6 | 21 |
| Fiji | 6.3788682 | 2 | 9 |
| Former Yugoslav Republic of Macedonia | 21.7824471 | 7 | 18 |
| Gabon | 0.9324397 | 1 | 6 |
| Gambia | 1.8252312 | 1 | 9 |
| Georgia | 44.2521776 | 5 | 20 |
| Georgia Ghana | 47.0745862 | 4 | 20 |
| Guatemala | 61.7343904 | 6 | 20 |
| Guinea | 8.4133248 | 3 | 12 |
| Guinea-Bissau | 2.6027050 | 2 | 10 |
| Guinea-Bissau Guyana | 3.4596139 | 2 | 6 |
| Haiti | 70.6847130 | 4 | 17 |
| Honduras | 31.8183669 | 5 | |
| India | 80.6042903 | 3 | 19 23 |
| India Indonesia | 80.6042903 201.6217122 | 5 | 23 |
| | 4.1153556 | 2 | |
| Iran | 4.1103550 | 2 | 13 |

(continued)

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|----------------------------------|-------------------------------|------------|------------|
| RecipientName | yearly_mean_disbursement_mill | min_donors | max_donors |
| Iraq | 456.9180706 | 13 | 17 |
| Jamaica | 6.3294399 | 2 | 7 |
| Jordan | 117.9180350 | 3 | 20 |
| Kazakhstan | 9.6389152 | 4 | 16 |
| Kenya | 80.1714018 | 6 | 21 |
| Kyrgyzstan | 22.3051994 | 5 | 17 |
| Lao People's Democratic Republic | 15.9992780 | 4 | 16 |
| Lebanon | 46.8039203 | 5 | 18 |
| Lesotho | 7.8773361 | 3 | 9 |
| Liberia | 38.9934898 | 3 | 14 |
| Libya | 7.9510836 | 1 | 17 |
| Madagascar | 11.0539298 | 4 | 12 |
| Malawi | 34.6974273 | 4 | 13 |
| Malaysia | 2.9551220 | 1 | 12 |
| Mali | 50.8584651 | 5 | 18 |
| Mauritania | 11.9195473 | 2 | 11 |
| Mauritius | 0.4265234 | 1 | 6 |
| Mexico | 132.6085961 | 4 | 17 |
| Moldova | 29.5185392 | 6 | 23 |
| Mongolia | 17.2359259 | 3 | 15 |
| Montenegro | 8.8445712 | 8 | 14 |
| Morocco | 23.9511903 | 3 | 19 |
| Mozambique | 87.6945988 | 7 | 20 |
| | 38.0469665 | 3 | 20 |
| Myanmar Namibia | 5.9325416 | 4 | |
| | | | 12 |
| Nepal | 60.7691377 | 3 | 20 |
| Nicaragua | 38.8104418 | 7 | 20 |
| Niger | 17.1756209 | 5 | 15 |
| Nigeria | 85.0738216 | 4 | 17 |
| Oman | 0.3797759 | 1 | 3 |
| Pakistan | 154.7422217 | 2 | 18 |
| Panama | 2.5051635 | 3 | 10 |
| Papua New Guinea | 117.1378629 | 2 | 12 |
| Paraguay | 16.1879296 | 3 | 16 |
| Peru | 63.7063885 | 6 | 19 |
| Philippines | 50.8924215 | 5 | 20 |
| Rwanda | 46.2629052 | 6 | 19 |
| Saudi Arabia | 0.2538672 | 1 | 3 |
| Senegal | 25.6061974 | 4 | 18 |
| Sierra Leone | 28.6801440 | 2 | 14 |
| Solomon Islands | 119.7760372 | 2 | 6 |
| Somalia | 91.2825448 | 13 | 16 |
| South Africa | 39.9234432 | 7 | 21 |
| South Sudan | 100.8168156 | 11 | 16 |
| Sri Lanka | 24.5863051 | 3 | 18 |
| Sudan | 117.6504522 | 4 | 36 |
| Suriname | 4.4668753 | 2 | 6 |
| Swaziland | 1.0041118 | 2 | 10 |
| Syrian Arab Republic | 1.4057986 | 2 | 7 |
| Tajikistan | 18.8086136 | 4 | 16 |
| Tanzania | 113.9272925 | 6 | 19 |
| Thailand | 12.0081322 | 2 | 17 |
| Timor-Leste | | 5 | 17 |
| | 47.5006820 | | |
| Togo | 5.2253727 | 2 | 13 |
| Trinidad and Tobago | 0.3306104 | 2 | 5 |

(continued)

| RecipientName | yearly_mean_disbursement_mill | min_donors | max_donors |
|---------------|-------------------------------|------------|------------|
| Tunisia | 27.8908622 | 4 | 20 |
| Turkey | 20.0261200 | 5 | 18 |
| Turkmenistan | 2.8889970 | 2 | 8 |
| Uganda | 81.5923011 | 7 | 20 |
| Ukraine | 81.5269930 | 4 | 26 |
| Uruguay | 1.5824601 | 1 | 10 |
| Uzbekistan | 6.7342377 | 2 | 12 |
| Venezuela | 6.9438789 | 5 | 13 |
| Yemen | 28.3589591 | 5 | 15 |
| Zambia | 47.5677902 | 4 | 14 |
| Zimbabwe | 54.4750888 | 4 | 17 |

Appendix B1: ECM Model

One of the things you can test for with an error correction model is endogeneity resulting from reverse causality. This is possible if we believe countries are likely to systematically change their method of delivering aid and how much they give based changes in a country's level of democracy. The following ecm model should have coefficients that are 0 for all but the lagged dependent variables. Some are significantly different from 0, which is bad, but the coefficients are very small. As a result, we can say that some endogeneity does appear to be present.

% Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harvard.edu % Date and time: Sun, Sep 09, 2018 - 2:00:25 PM

Table 2:

| | | Dep | pendent varie | able: | |
|---|--------------------------|---------------------------|---------------------------|--------------------------|--------------------------|
| | NGO | IGO | CORP | DONOR | RECIP |
| lag_ngo | 0.495*** (0.007) | | | | |
| lag_igo | | 0.310*** (0.009) | | | |
| lag_corp | | | 0.123*** (0.034) | | |
| $ m lag_gov_d$ | | | | 0.554*** (0.008) | |
| lag_gov_r | | | | | 0.385*** (0.010) |
| lag_polity2 | 0.009*** (0.002) | 0.009*** (0.002) | 0.002*** (0.001) | 0.001 (0.002) | 0.002 (0.002) |
| $ m lag_gdp$ | 0.039*** (0.014) | -0.027 (0.016) | -0.013^* (0.007) | 0.090*** (0.015) | 0.066*** (0.015) |
| lag_pop | -0.055 (0.055) | -0.069 (0.062) | 0.117*** (0.026) | 0.199*** (0.057) | 0.281*** (0.057) |
| lag_urban | -0.001 (0.002) | $0.002 \\ (0.002)$ | 0.004*** (0.001) | 0.008*** (0.002) | 0.005** (0.002) |
| diff_polity2 | 0.004** (0.002) | 0.006*** (0.002) | $0.0001 \\ (0.001)$ | 0.002 (0.002) | 0.001 (0.002) |
| diff_gdp | 0.018 (0.019) | -0.010 (0.022) | 0.024*** (0.009) | 0.133*** (0.020) | 0.083*** (0.020) |
| diff_pop | -0.213 (0.295) | -0.113 (0.339) | -0.021 (0.141) | 0.106 (0.309) | -0.139 (0.307) |
| diff_urban | -0.005 (0.011) | -0.0001 (0.013) | $0.005 \\ (0.005)$ | 0.004 (0.012) | 0.005 (0.012) |
| Observations R^2 Adjusted R^2 | 13,513 0.296 0.172 | 13,513 0.103 -0.054 | 13,513 0.011 -0.163 | 13,513 0.321 0.202 | 13,513 0.153 0.004 |
| $\underline{F \text{ Statistic (df} = 9; 11495)}$ | 535.762*** | 146.918*** | 13.798*** | 604.591*** | 230.730** |

Note:

##Appendix C1: Other Types of Democracy Measures For space reasons, the egalitarian and deliberative measures in VDem were not included in the main results, but they are presented here. They provide even stronger support for our theory.

Table 3: All VDem Results

| | Dependent variable: | | | | |
|-----------------------------|---------------------|-------------|---------------|--------------|-------------|
| | Electoral | Liberal | Participatory | Deliberative | Egalitarian |
| Donor Gov | 0.019 | 0.022 | 0.015 | 0.040** | 0.014 |
| | (0.018) | (0.015) | (0.011) | (0.018) | (0.011) |
| Target Gov | 0.019 | 0.031^{*} | 0.012 | 0.026 | 0.009 |
| | (0.020) | (0.017) | (0.012) | (0.020) | (0.013) |
| NGO | 0.069*** | 0.048*** | 0.056*** | 0.090*** | 0.051*** |
| | (0.017) | (0.015) | (0.011) | (0.017) | (0.011) |
| IGO | 0.033* | 0.022 | 0.017 | 0.036** | 0.028** |
| | (0.017) | (0.015) | (0.011) | (0.018) | (0.011) |
| Corporation | 0.060 | 0.070^{*} | 0.048 | 0.040 | 0.013 |
| _ | (0.048) | (0.041) | (0.030) | (0.048) | (0.031) |
| Other | 0.065*** | 0.052*** | 0.036*** | 0.069*** | 0.042*** |
| | (0.014) | (0.012) | (0.008) | (0.014) | (0.009) |
| $\log(\text{GDP})$ | 0.328*** | 0.187*** | 0.151*** | 0.204*** | 0.161*** |
| - , | (0.028) | (0.024) | (0.017) | (0.028) | (0.018) |
| Urban | -0.036*** | -0.032*** | -0.028*** | -0.062*** | -0.029*** |
| | (0.004) | (0.004) | (0.003) | (0.004) | (0.003) |
| log(Population) | 0.247** | 0.486*** | 0.363*** | -0.122 | 0.069 |
| S(1) | (0.108) | (0.093) | (0.067) | (0.109) | (0.069) |
| Observations | 15,798 | 15,798 | 15,798 | 15,798 | 15,798 |
| \mathbb{R}^2 | 0.018 | 0.013 | 0.017 | 0.032 | 0.018 |
| Adjusted R ² | -0.149 | -0.155 | -0.150 | -0.133 | -0.148 |
| F Statistic (df = 9; 13504) | 27.268*** | 19.457*** | 26.146*** | 49.334*** | 27.859*** |

Note: *p<0.1; **p<0.05; ***p<0.01

##Appendix C2: Freedom House As stated in the paper, VDem was chosen for its comprehensive appraoch and clear rating guidelines while polity was chosen for its ubiquity in the discipline. Freedom House can be somewhat more opaque in its ratings which are based on expert answers to questions rather than a cohesive overview. That said, they are still a useful robustness check to make sure our results are not dependent on a particular rating of democracy.

In the results below, the scales for civil liberties, political rights and status are inverted from the other measures in the table and those in vdem and polity. For these, a lower score means that the country in question is more free, not less. As such, all but the rule of law model suppo our arugment to some degree. This is not surprising as our coding as "democratic purpose" excludes some types of aid that might be targetted at rule of law, such as aid to police forces and prisons.

It is worth noting that for civil liberties and personal autonomy, the coefficient for aid delivered by the recipient country is statistically significant, contradicting our theory. While the effect is not robust to other specifications of the dependent variable, it does present some cause for caution.

Table 4: All Freedom House Results

| | | Dependent variable: | | | | |
|-----------------------------------|-----------------|---------------------|------------------|-------------|------------|--|
| | Civil Liberties | Personal Autonomy | Political Rights | Rule of Law | Status | |
| Donor Gov | -0.002 | -0.029 | 0.001 | -0.018 | 0.011 | |
| | (0.011) | (0.020) | (0.018) | (0.024) | (0.008) | |
| Target Gov | -0.025^{*} | 0.049** | -0.028 | 0.008 | 0.005 | |
| | (0.013) | (0.023) | (0.021) | (0.028) | (0.009) | |
| NGO | -0.034*** | 0.047** | -0.093*** | 0.019 | -0.022*** | |
| | (0.011) | (0.019) | (0.017) | (0.023) | (0.008) | |
| IGO | -0.001 | -0.039** | -0.039** | -0.021 | -0.014^* | |
| | (0.011) | (0.019) | (0.017) | (0.023) | (0.008) | |
| Corporation | 0.060 | -0.105 | 0.124 | 0.031 | 0.096 | |
| _ | (0.100) | (0.177) | (0.158) | (0.214) | (0.070) | |
| Other | -0.024^{***} | 0.047*** | -0.025^* | 0.058*** | -0.006 | |
| | (0.008) | (0.015) | (0.013) | (0.018) | (0.006) | |
| $\log(\text{GDP})$ | -0.135^{***} | 0.689*** | -0.238*** | 0.201*** | -0.046*** | |
| | (0.017) | (0.030) | (0.027) | (0.036) | (0.012) | |
| Urban | 0.026*** | -0.079*** | 0.010** | -0.051*** | 0.023*** | |
| | (0.003) | (0.005) | (0.004) | (0.006) | (0.002) | |
| log(Population) | 1.197*** | -0.234^{*} | 0.934*** | -2.273*** | 0.101** | |
| , | (0.071) | (0.126) | (0.113) | (0.152) | (0.050) | |
| Observations | 14,201 | 14,201 | 14,201 | 14,201 | 14,201 | |
| \mathbb{R}^2 | 0.070 | 0.056 | 0.017 | 0.064 | 0.025 | |
| Adjusted R ² | -0.103 | -0.120 | -0.167 | -0.111 | -0.157 | |
| F Statistic (df = 9 ; 11967) | 100.136*** | 78.651*** | 22.642*** | 91.046*** | 34.265*** | |

Note: *p<0.1; **p<0.05; ***p<0.01

Table 5: Main Results with Lagged DV

| | Dependent variable: | | | | |
|--|--|---|--|---|--|
| | Electoral | Liberal | Participatory | PolityI | |
| Donor Gov | -0.010 (0.013) | -0.008 (0.010) | -0.007 (0.008) | 0.014 (0.037) | |
| Target Gov | -0.006 (0.015) | -0.006 (0.012) | -0.004 (0.009) | 0.019 (0.041) | |
| NGO | $0.025^* \ (0.013)$ | 0.012 (0.010) | 0.017** (0.007) | 0.077** (0.036) | |
| IGO | 0.030** (0.013) | $0.009 \\ (0.010)$ | 0.013* (0.007) | 0.121*** (0.036) | |
| Corporation | -0.024 (0.035) | -0.016 (0.028) | -0.013 (0.020) | -0.010 (0.098) | |
| Other | -0.001 (0.010) | -0.002 (0.008) | -0.003 (0.006) | 0.013 (0.028) | |
| $\log(\text{GDP})$ | 0.176*** (0.020) | 0.102*** (0.016) | 0.052*** (0.012) | 0.024 (0.057) | |
| Urban | -0.022^{***} (0.003) | -0.020^{***} (0.002) | -0.013^{***} (0.002) | -0.004 (0.009) | |
| $\log(\text{Population})$ | -0.055 (0.080) | 0.163** (0.063) | 0.038 (0.046) | 0.415* (0.222) | |
| lagpoly | 6.583*** (0.062) | | | | |
| laglib | | 7.358*** (0.059) | | | |
| lagpartip | | | 7.459*** (0.060) | | |
| lag_polity | | | | 0.660** (0.007) | |
| Observations R ² | 15,798 0.464 | 15,798 0.545 | 15,798 0.540 | 15,757 0.424 | |
| Adjusted R ² F Statistic | 0.373 $1,168.129^{***} (df = 10; 13503)$ | 0.467 $1,614.893^{****} (df = 10; 13503)$ | 0.461 $1,582.961^{***} (df = 10; 13503)$ | $0.324 \\ 0.326 \\ 990.367^{***} (df =$ | |

Note: *p<0.1; **p<0.05;

Lagged VDEM

Oneway (individual) effect Within Model

Call: $plm(formula = as.formula(paste("polity2", paste(c(ind.vars.total.controlled, "lag_polity2"), collapse = "+"), sep = "-")), data = working, index = c("DyadName"), method = "random")$

```
Unbalanced Panel: n = 2694, T = 1-12, N = 17263
```

Residuals: Min. 1st Qu. Median 3rd Qu. Max. -10.2416396 -0.0638133 0.0012202 0.0654451 8.4441346

Coefficients: Estimate Std. Error t-value $\Pr(>|t|) \log(\text{gov_d_total} + 1) \ 0.0190183 \ 0.0371153 \ 0.5124 \ 0.608371 \log(\text{gov_r_total} + 1) \ -0.0283556 \ 0.0240445 \ -1.1793 \ 0.238298 \log(\text{ngo_total} + 1) \ 0.0936884 \ 0.0363109 \ 2.5802 \ 0.009885 \log(\text{igo_total} + 1) \ 0.1023593 \ 0.0324059 \ 3.1587 \ 0.001588 \log(\text{corp_total} + 1) \ 0.0490349 \ 0.0910375 \ 0.5386 \ 0.590155 \log(\text{other_total} + \text{gov_o_total} + 1) \ 0.0247007 \ 0.0253471 \ 0.9745 \ 0.329827 \log(\text{gdp}) \ -0.0543295 \ 0.0594298 \ -0.9142 \ 0.360638 \ \text{urban} \ 0.0015956 \ 0.0093299 \ 0.1710 \ 0.864206 \log(\text{pop}) \ 0.6073608 \ 0.2363207 \ 2.5701 \ 0.010178 \log \text{polity2} \ 0.6149028 \ 0.0069107 \ 88.9786 \ < 2.2\text{e}-16$

```
log(gov_d_total + 1)
log(gov_r_total + 1)
log(ngo_total + 1) ** log(igo_total + 1) ** log(corp_total + 1)
log(other_total + gov_o_total + 1)
log(gdp)
urban
log(pop) *
lag_polity2 *** — Signif. codes: 0 '' 0.001 '' 0.01 '' 0.05 ': 0.1 '' 1
```

Total Sum of Squares: 33648 Residual Sum of Squares: 21461 R-Squared: 0.36219 Adj. R-Squared: 0.24377 F-statistic: 826.744 on 10 and 14559 DF, p-value: < 2.22e-16

Table 6: Main Results

| | | Depende | ent variable: | |
|-----------------------------|-----------|-----------|---------------|-----------|
| | Electoral | Liberal | Participatory | PolityIV |
| Donor Gov | 0.018 | 0.024* | 0.014 | 0.043 |
| | (0.017) | (0.015) | (0.010) | (0.045) |
| Target Gov | 0.036*** | 0.029*** | 0.019*** | 0.040 |
| | (0.010) | (0.009) | (0.007) | (0.028) |
| NGO | 0.065*** | 0.044*** | 0.052*** | 0.242*** |
| | (0.016) | (0.013) | (0.010) | (0.042) |
| IGO | 0.039*** | 0.023* | 0.022** | 0.184*** |
| | (0.014) | (0.012) | (0.009) | (0.038) |
| Corporation | 0.046 | 0.073** | 0.037 | 0.324*** |
| • | (0.043) | (0.037) | (0.027) | (0.115) |
| Other | 0.053*** | 0.044*** | 0.028*** | 0.133*** |
| | (0.011) | (0.009) | (0.007) | (0.029) |
| $\log(\text{GDP})$ | 0.297*** | 0.165*** | 0.138*** | 0.242*** |
| , | (0.024) | (0.021) | (0.015) | (0.064) |
| Urban | -0.034*** | -0.029*** | -0.027*** | -0.006 |
| | (0.004) | (0.003) | (0.002) | (0.010) |
| log(Population) | 0.222** | 0.429*** | 0.355*** | 1.832*** |
| | (0.095) | (0.082) | (0.059) | (0.253) |
| Observations | 20,408 | 20,408 | 20,408 | 20,408 |
| \mathbb{R}^2 | 0.016 | 0.011 | 0.016 | 0.017 |
| Adjusted R ² | -0.165 | -0.171 | -0.165 | -0.164 |
| F Statistic (df = 9; 17235) | 31.667*** | 21.624*** | 30.703*** | 32.599*** |

Note:

##Appendix C5: Analysis by Recipient-Year Aggregating by recipient pools together variation that might exist on the donor level. By using the dyad level, however, we may be artifically increasing the importance of recipients that receive aid from numerous sources. As a robustness check, we aggregate by the recipient in the models below. The results generally also support our argument, that less fungible sources like NGOs and IGOs increase democratization more. Under this specification, corporations increase democracy by a significant but smaller amount for two of the four dependent variables.

Table 7: Main Results

| | | Depend | lent variable: | |
|----------------------------|-------------|----------|----------------|----------|
| | Electoral | Liberal | Participatory | PolityIV |
| Donor Gov | 0.012 | 0.016 | 0.012 | -0.035 |
| | (0.026) | (0.022) | (0.016) | (0.068) |
| Target Gov | -0.005 | 0.010 | -0.001 | 0.079 |
| | (0.030) | (0.025) | (0.018) | (0.078) |
| NGO | 0.068^{*} | 0.048 | 0.047^{*} | 0.132 |
| | (0.040) | (0.034) | (0.024) | (0.105) |
| IGO | 0.080** | 0.073** | 0.039^{*} | 0.393*** |
| | (0.035) | (0.029) | (0.021) | (0.091) |
| Corporation | 0.067 | 0.097** | 0.058^{*} | 0.290** |
| | (0.054) | (0.045) | (0.033) | (0.141) |
| Other | 0.058^{*} | 0.070*** | 0.041** | 0.121 |
| | (0.031) | (0.026) | (0.018) | (0.080) |
| $\log(\text{GDP})$ | 0.132 | 0.039 | 0.019 | -0.198 |
| | (0.094) | (0.079) | (0.057) | (0.245) |
| Urban | -0.015 | -0.016 | -0.017^{**} | 0.015 |
| | (0.014) | (0.011) | (0.008) | (0.035) |
| log(Population) | 0.010 | 0.121 | 0.246 | 1.464 |
| | (0.352) | (0.294) | (0.212) | (0.917) |
| Observations | 1,362 | 1,362 | 1,362 | 1,362 |
| \mathbb{R}^2 | 0.035 | 0.040 | 0.035 | 0.061 |
| Adjusted R ² | -0.065 | -0.060 | -0.065 | -0.037 |
| F Statistic (df = 9; 1233) | 4.956*** | 5.707*** | 5.008*** | 8.833*** |

Note:

Appendix C6: Effect of All Aid on Democratization

Table 8: Main Results

| | $Dependent\ variable:$ | | | | |
|-----------------------------------|------------------------|-----------|---------------|-------------|--|
| | Electoral | Liberal | Participatory | PolityIV | |
| Donor Gov | 0.019** | 0.017*** | 0.015*** | 0.059*** | |
| | (0.008) | (0.006) | (0.005) | (0.020) | |
| Target Gov | -0.005 | -0.001 | 0.001 | 0.028 | |
| | (0.006) | (0.006) | (0.004) | (0.018) | |
| NGO | 0.032*** | 0.029*** | 0.027*** | 0.219*** | |
| | (0.010) | (0.009) | (0.006) | (0.028) | |
| IGO | 0.001 | -0.003 | 0.003 | -0.004 | |
| | (0.009) | (0.007) | (0.005) | (0.023) | |
| Corporation | -0.034^* | -0.023 | -0.015 | -0.061 | |
| • | (0.019) | (0.016) | (0.012) | (0.051) | |
| Other | 0.014** | 0.011** | 0.010** | 0.032^{*} | |
| | (0.006) | (0.005) | (0.004) | (0.017) | |
| $\log(\text{GDP})$ | 0.295*** | 0.166*** | 0.124*** | 0.184*** | |
| | (0.021) | (0.018) | (0.013) | (0.056) | |
| Urban | -0.030*** | -0.028*** | -0.025*** | -0.008 | |
| | (0.003) | (0.003) | (0.002) | (0.009) | |
| log(Population) | 0.356*** | 0.525*** | 0.442*** | 2.205*** | |
| , | (0.084) | (0.071) | (0.051) | (0.226) | |
| Observations | 25,897 | 25,897 | 25,897 | 25,897 | |
| \mathbb{R}^2 | 0.014 | 0.010 | 0.014 | 0.019 | |
| Adjusted R ² | -0.134 | -0.137 | -0.134 | -0.127 | |
| F Statistic (df = 9 ; 22531) | 34.581*** | 26.231*** | 34.866*** | 49.284*** | |

Note:

Appendix C7: Effect of Broader Dem Aid Coding on Democratization

Table 9: Main Results

| | | Depende | ent variable: | |
|-----------------------------------|-----------|-----------|---------------|-----------|
| | Electoral | Liberal | Participatory | PolityIV |
| Donor Gov | 0.002 | 0.008 | 0.009 | 0.008 |
| | (0.013) | (0.011) | (0.008) | (0.034) |
| Target Gov | 0.012 | 0.012 | 0.012^{*} | 0.109*** |
| | (0.010) | (0.009) | (0.006) | (0.028) |
| NGO | 0.057*** | 0.045*** | 0.047*** | 0.213*** |
| | (0.014) | (0.012) | (0.009) | (0.038) |
| IGO | 0.049*** | 0.038*** | 0.033*** | 0.179*** |
| | (0.012) | (0.011) | (0.008) | (0.033) |
| Corporation | -0.030 | -0.019 | -0.011 | 0.030 |
| | (0.028) | (0.024) | (0.017) | (0.074) |
| Other | 0.036*** | 0.029*** | 0.025*** | 0.079*** |
| | (0.009) | (0.008) | (0.006) | (0.024) |
| $\log(\text{GDP})$ | 0.302*** | 0.173*** | 0.129*** | 0.261*** |
| | (0.024) | (0.021) | (0.015) | (0.065) |
| Urban | -0.033*** | -0.030*** | -0.025*** | -0.015 |
| | (0.004) | (0.003) | (0.002) | (0.010) |
| log(Population) | 0.345*** | 0.528*** | 0.416*** | 2.133*** |
| -, - , | (0.096) | (0.083) | (0.059) | (0.257) |
| Observations | 20,191 | 20,191 | 20,191 | 20,191 |
| \mathbb{R}^2 | 0.016 | 0.013 | 0.017 | 0.020 |
| Adjusted R ² | -0.135 | -0.139 | -0.134 | -0.131 |
| F Statistic (df = 9 ; 17498) | 32.554*** | 24.707*** | 33.585*** | 39.860*** |

Note: