

Aid, Policies and Growth: Revisiting with New Data

Shaomeng Jia^a and Claudia R. Williamson^b

Abstract

In a highly influential paper, Burnside and Dollar (2000) conclude that aid promotes growth in the presence of sound policies. With an extended dataset, Easterly, Levine and Roodman (2004) overturn this result. We revisit this highly debated topic by updating the data with an additional 15 years and X countries. Overwhelmingly, our results support ELR. It does not appear that aid is effective at promoting growth even in a good policy environment.

^aShaomeng Jia, Department of Finance and Economics, Mississippi State University, Mississippi State, MS, 39762. sj983@msstate.edu.

^bClaudia R. Williamson, Department of Finance and Economics, Mississippi State University, Mississippi State, MS, 39762. claudia.williamson@msstate.edu. Corresponding Author.

1. Introduction

Burnside and Dollar (2000, henceforth BD) conclude that aid can positively influence growth in healthy policy environments, sparking one of most debated topics in development economics and among policymakers. Easterly, Levine and Roodman (2004, henceforth ELR), using the exact methodology over a larger dataset, overturn BD's findings weakening the significance of the aid-policy-growth relationship.

Since the release of both seminal articles, many academic articles are published on the aid-policy-growth debate: BD (2000) has been cited by 4084 research, ELR (2004) has been cited by 1001 research, and two following up reply and revisiting works of BD (2004) together have been also cited by about 700 research¹. The debate continues, among the literature, studies with pro-ELR conclusions include Brumm (2003), Ram (2004), Islam (2005), Rajan and Subramanian (2008), Minoiu and Reddy (2010), Doucouliagos and Paldam (2011), Tashrifov (2012), and Chatelain and Ralf (2014). However, a number of articles support BD's conclusion (Burnside and Dollar, 2004; Dalgaard, Hansen and Tarp, 2003²; Ali and Isse, 2005; Verschoor and Kalwij, 2006; Alvi, Mukherjee and Shukralla, 2008; Javid and Qayyum, 2011). Contributing to the ambiguity, Dayton-Johnson and Hoddinott (2003) and Kohama, Sawada and Kono (2004) find mixed results.

With the exception of ELR, these follow-up studies carry out variations of BD's original framework using a variety of alternative approaches including different measures of foreign aid and policies, alternative model specifications (for example, GMM, propensity score matching), a variety of additional control variables and instruments, as well as different country samples and time periods. These differences in methodology may partly explain the ambiguity of the findings.

¹ The citation count numbers are up to Sept 20. 2015, and they still grow.

²Burnside and Dollar (2004) and Dalgaard, Hansen and Tarp (2003) switch from a strict policy index and include measures of institutional quality.

In this paper, we do not deviate from the specifications and methodology of BD and ELR. We simply revisit their original work with updated data.³ There are several reasons to do so. First, the importance of replicating major findings as new data is available is becoming increasingly important (Dewald et.al 1986). Replication avoids data manipulation and disagreement over model selection caused by “...usual limitation of choosing a specification without clear guidance from the theory” (ELR 2004, p.774). Additionally, ELR overturn BD’s findings with only four additional years (1994-1997) and 6 additional countries. Our dataset includes an additional 19 years (1966-1969 & 1998-2012) and 13 (under ELR specification) more countries over ELR. In terms of number of observations, we almost double what ELR has. Appendix 3 provides more details. It is possible that the results may differ once we expand the data.

We replicate the findings from both BD and ELR with updated data using multiple specifications: 1) BD years (1970-1993), BD countries and full sample; 2) ELR years (1970-1997), ELR countries and full sample; 3) extended years (1962-2012), BD countries, ELR countries, and full sample; 4) post-Cold war (1990-2012), BD countries, ELR countries, and full sample. We find that BD’s findings are not robust to the updated data. Simply using new data over the same years and countries as BD shows that aid does not promote growth even in a healthy policy environment. Overwhelmingly, our results suggest ELR is correct.

Our work contributes to the long-standing aid-policy-growth academic debate and reminds policymakers that simply providing aid to countries identified as having ‘good’ policies may not create a ‘quick’ growth fix. This is especially important in light of the post-2015 Sustainable Development Goals. Our work also relates to the emerging aid effectiveness literature emphasizing that donors should be more selective in allocating aid to

³ We thank ELR (2004) for publicly sharing their dataset and methodology for replication.

countries with better institutions (Paris Declaration, 2005; High Level Forum, 2008; Easterly and Pfutze, 2008).

2. Empirical Methodology

To investigate the relationship between aid, policy, and growth, BD employ methods of Pooled Ordinary Least Squares (OLS) and Two-Stage Least Squares (2SLS) using a panel dataset with four-year averages. We follow BD's preferred growth regression with controls including a measure of aid/GDP, a policy index, an aid*policy interaction term, log initial GDP, ethnic fractionalization, political assassinations, a fractionalization*assassinations interaction term, a measure of institutional quality, and a measure of financial depth (M2/GDP lagged), regional dummies for Sub-Saharan Africa and fast-growing East Asian countries, and country and time dummies. In some specifications, an aid²*policy term is included. The instruments employed in 2SLS include three extra regional variables Franc Zone countries, Central American countries and Egypt, a lagged arms imports over total imports variable and its interaction term with policy index, a population term, two interactions of population and squared population with policy index, an initial GDP per capita term and its interaction with policy index.

In order to reconstruct the database, we gather all variables from the original sources in BD and ELR and expand the dataset from 1962-2012 and 75 countries (under ELR specification). Appendix 1 contains the specific source and method of calculation for each variable, as well as the correlations between the new data and BD and ELR. Given the length of time between our study and BD and ELR, some of the variables are discontinued. For those variables, we extrapolate based on ELR's data and update by filling in the missing data with the closest observation. Summary statistics are provided in Appendix 2.

We describe the construction of the two main variables, aid and the policy index. Unlike usual aid defined in other literature - OECD's Net Official Development Assistance (ODA),

BD measure aid in terms of Effective Development Assistance (EDA)⁴ over GDP. Basically, they regress EDA on ODA, get the regression coefficient and then multiply it with new ODA data to get the new EDA. We extrapolate in the same way and find the correlations between newly extrapolated aid and BD/ELR aids are quite high, respectively equal to 0.576/0.751 with pair-wise method, with list-wise they are both over 0.8.

The policy index is constructed from measures of budget balance, inflation, and the Sachs-Warner openness index. To reconstruct the policy index⁵, we run the growth regression minus aid and aid*policy but including inflation, budget surplus, and the SW openness index, collect the coefficients to create a beta policy index; then calculate the constant, which is the difference between the mean of GDP growth rate and the mean of the beta policy index⁶; and, lastly, add the constant back to the beta policy index. Our newly constructed policy index has very high correlations with BD/ELR's, respectively are 0.943/0.933. Appendix 1 provides more details about variable specifications. Also refer to Appendix 7 for details of regression setting up.

3. Results

We replicate the findings from both BD and ELR with updated data using multiple specifications: 1) BD years (1970-1993), BD countries and full sample; 2) ELR years (1970-1997), ELR countries and full sample; 3) extended years (1962-2012), BD countries, ELR countries, and full sample; 4) post-Cold war (1990-2012), BD countries, ELR countries, and full sample. We also report the original findings from both BD and ELR. With use of BD and ELR's original datasets, we match our replication with their original works. We do not include the original replication in the paper to save space.

⁴ The EDA definition and data is originally from Chang et al. (1998)

⁵ See Jan Dehn (2000) for a clear explanation on the policy index procedure.

⁶ By doing so, BD claim that "the index can be interpreted as a country's predicted growth rate."(2000, p. 855)

BD and ELR both test their specifications with including and excluding outliers⁷. We follow ELR and use the HADI method to test for outliers and exclude those observations when indicated. All tables below report the main tests with BD and ELR specifications. We first show the results corresponding to the OLS and 2SLS specifications from BD regressions 4 (all countries) and 7 (low-income countries), which includes the outliers and adds an aid²*policy term. Next, we report the findings for OLS and 2SLS for BD regressions 5 (all countries) and 8 (low-income countries) excluding the outliers and dropping the aid²*policy term.⁸

[Insert Table 1]

In Table 1, Panel A, we first test the model under the same time period as BD with newly collected data. BD's original results show positive and significant coefficients on the aid*policy interaction term in six of eight specifications. Once we replicate BD's exact specification (same years and country sample) with the updated data, this result disappears. The interaction term is insignificant in all specifications. This holds when we expand to our full country sample. In Table 1, Panel B, we update ELR's specifications. The interaction term is never positive and significant supporting ELR's original results. In one specification (new data, ELR countries), the interaction term is actually negative and slightly significant.

The most striking finding from this replication is that BD's result disappears only by updating the data but not changing the year or country selection.

[Insert Table 2]

In Table 2, we extend the model to our full time period, 1962-2012 (with a one period lag, 1962-1966). Panel A replicates the BD specifications and Panel B replicates the ELR

⁷ When we apply the HADI method, some of the models have minor difference in the coefficient of Aid*Policy when compared with BD and ELR. In addition, ELR believe that outliers should not change the conclusion; our results also support this claim.

⁸ We follow BD in defining lower income countries as a country with real GDP per capita below \$1,900 constant (1985) U.S. dollars in year of 1970.

specifications.⁹ None of the aid*policy interaction term coefficients is significant. We do not place much weight on this finding as it is also not robust. Collectively, these results suggest that in the long run, we do not observe any evidence supporting a good policy environment favors aid effectiveness. ELR's conclusion holds in the long run period¹⁰.

[Insert Table 3]

Lastly, in Table 3, we examine the post-Cold War period from 1990-2012 as the aid landscape changed significantly during this period (Griffin 2000, Dunning 2004). In both Panel A and Panel B, for the first time, we find 10¹¹ regressions with positive and significant interaction terms out of total 32. But, 5 out of the 10 regression are from lower-income country samples may suggest that BD's 1970 standard of lower income country definition not fitting post-Cold War period well.

Also, 9 of the 10 regressions are from models with Hadi Method may indicate the facts that with post-Cold war data: to some extent, the model does show significant non-linear association beyond what outliers contributed. As many quadratic terms are positive and significant, and once quadratic terms are gone, the effects are pushed to linear term aid*policy. This pattern does not show in either BD or ELR's work.

Does this suggest aid actually works under good policy environment after 1990? To answer this question, Table-3 also adds the coefficients of aid, policy and the marginal effects of aid. Insignificant policy, insignificant or significant but negative coefficients of aid and marginal effects of aid together indicate that even assume presence of good policy condition,

⁹ BD and ELR have slightly different model specifications because they define regional country dummies and low income countries slightly different. See Appendix 6 for differences.

¹⁰ As robustness, we use a new version of ICRGE ranging from 1984-2012, which is also used for post-Cold War period models. The results remain the same, so we do not tabulate in order to save space. They are available upon request.

¹¹ This is under BD's significant level standard, under ELR, the count is 9. Actually, BD and ELR use different significant level standards, for coefficient with p-value greater than 0.05 but less than 0.1, it is considered as significant under BD, but not significant under ELR. This is one potential reason why ELR found way less interaction terms being significant than BD, but not something major.

we fail to reject the hypothesis that aid being ineffectively promoting growth¹². Actually, none of the policy terms are significant¹³- good policy assumption does not hold in the post-Cold War period. Overall, none of the significant interaction terms matter anymore, results do not robustly support that aid can promote growth in a healthy policy environment.

4. Conclusion

In this paper, we extend the BD database to 1962-2012 covering 69 countries. Our results support ELR's conclusion that, we fail to find any evidence that aid may promote growth even in the presence of sound policies, especially in the post-Cold War period, policy becomes irrelevant. This reiteration remains an important finding as policymakers continue to operate as it aid can be made effective if given under the 'right' conditions.

¹² Except for 2 regressions with aid being positive and significant, all the other 94 regressions are not supporting aid being promoting growth.

¹³ As ELR suggested, this may occur as a result of an improvement in the institutional environment of recipient countries. Also, the new data set updates the openness variable, trade openness status change could potentially affect the policy index. Another potential reason could be the new data set incorporates a quite amount of former communist countries, or countries in transition, like Albania and China, etc. Refer to appendices 4 and 8 for more details.

References Fix and add references

- Ali, Abdiweli M., and Hodan S. Isse. "An empirical analysis of the effect of aid on growth." *International Advances in Economic Research* 11.1 (2005): 1-11.
- Alvi, Eskander, Debasri Mukherjee, and Elias Kedir Shukralla. "Aid, policies, and growth in developing countries: a new look at the empirics." *Southern Economic Journal* (2008): 693-706.
- Brumm, Harold J. "Aid, Policies, and Growth: Brauer Was Right." *Cato J.* 23 (2003): 167.
- Burnside, Craig and David Dollar. Aid, Policies, and Growth. *The American Economic Review* Vol. 90, No. 4 (Sep., 2000), pp. 847-868
- Burnside, Craig, and David Dollar. "Aid, policies, and growth: reply." *American economic review* (2004): 781-784.
- Clemens, Michael A., et al. "Counting chickens when they hatch: Timing and the effects of aid on growth." *The Economic Journal* 122.561 (2012): 590-617.
- Chatelain, Jean-Bernard, and Kirsten Ralf. "Spurious regressions and near-multicollinearity, with an application to aid, policies and growth." *Journal of Macroeconomics* 39 (2014): 85-96.
- Dalgaard, Carl - Johan, Henrik Hansen, and Finn Tarp. "On the empirics of foreign aid and growth." *The Economic Journal* 114.496 (2004): F191-F216.
- Dayton-Johnson, Jeff, and John Hoddinott. "Aid, policies, and growth, redux." *Halifax: Department of Economics, Dalhousie University. Mimeo* (2003).
- Dewald, William G., Jerry G. Thursby, and Richard G. Anderson. "Replication in empirical economics: The journal of money, credit and banking project." *The American Economic Review* (1986): 587-603.
- Doucouliaagos, Hristos, and Martin Paldam. "The ineffectiveness of development aid on growth: An update." *European journal of political economy* 27.2 (2011): 399-404.

Dunning, Thad. "Conditioning the effects of aid: Cold War politics, donor credibility, and democracy in Africa." *International Organization* 58.02 (2004): 409-423.

Easterly, William, R. Levine and D. Roodman. "New data, new doubts: A Comment on Burnside and Dollar's 'Aid, Policies, and Growth' (2000)." *American Economic Review* 94, 3 (June 2004): 774-780.

Easterly, W. and Pfutze, T. (2008). Where Does the Money Go? Best and Worst Practices in Foreign Aid. *Journal of Economic Perspectives*, 22 (2), 29-52.

Easterly, William. "Can foreign aid buy growth?" *The journal of economic perspectives* 17.3 (2003): 23-48.

Griffin, Keith. "'Foreign aid after the Cold War'." *Development: Critical Concepts in the Social Sciences* 3 (2000): 202.

Islam, Muhammed N. "Regime changes, economic policies and the effect of aid on growth." *The Journal of Development Studies* 41.8 (2005): 1467-1492.

Javid, Muhammad, and Abdul Qayyum. "Foreign aid and growth nexus in Pakistan: The role of macroeconomic policies." *Working Papers & Research Reports* 2011 (2011).

Minoiu, Camelia, and Sanjay G. Reddy. "Development aid and economic growth: A positive long-run relation." *The Quarterly Review of Economics and Finance* 50.1 (2010): 27-39.

OECD. (2005). *2005 Paris Declaration on Aid Effectiveness*. Paris, OECD.

OECD. (2008). *2008 Accra High Level Forum on Aid Effectiveness*. Accra, OECD.

Ram, Rati. "Recipient country's 'policies' and the effect of foreign aid on economic growth in developing countries: additional evidence." *Journal of International Development* 16.2 (2004): 201-211.

- Rajan, Raghuram G., and Arvind Subramanian. "Aid and growth: What does the cross-country evidence really show?" *The Review of economics and Statistics* 90.4 (2008): 643-665.
- Dreher, A., and S. Langlotz. *Aid and Growth: New Evidence Using an Excludable Instrument. Mimeo, University of Heidelberg, 2015.*
- Sawada, Yasuyuki, Hirohisa Kohama, and Hisaki Kono. "Aid, policies, and growth: a further comment." *University of Tokyo, Faculty of Economics* (2004).
- Verschoor, Arjan, and Adriaan Kalwij. "Aid, social policies and pro - poor growth." *Journal of International Development* 18.4 (2006): 519-532.
- Yusuf, Tashrifov. "Foreign financial aid, government policies and economic growth: Does the policy setting in developing countries matter?" *Zagreb International Review of Economics and Business* 15.1 (2012): 1-22.

Appendix 1: Data description

Variable name	Abbreviation	Correlation with BD/ELR	Data source	Notes
Per-capita GDP growth	agdpgrowth	0.934/0.965	WDI 2014	Constant 2005 U.S. dollars.
Initial GDP per capita	linitialagdp	0.824/0.810	WDI 2014	Natural logarithm of GDP per capita for first year of period; constant 2005 U.S. dollars.
Ethnic fractionalization	ethnic	0.701/0.715	Norwegian Social Science Data Services (NSD)- MacroDataGuide 2003	Dataset compiled by Alesina et al. (2003). Measures probability that two individuals will belong to different ethnic groups.
Assassinations	assa	1.000/0.999	Banks, Arthur. 2002. Cross-National Time-Series Data Archive	Website Global Development Network Growth Database. Data range 1960-1993.
Assassinations (filled)	assafilled	1.000/0.999	ELR (2004) and Banks, Arthur. (2002)	Based on ELR's assassination data (1966-97) and our assa data above (1960-93); update the missing years with duplicated closing years observation.
Institutional quality	bdicrge/elricrge	N/A	PRIS Group's IRIS III data set (see Knack and Keefer 1995)	As ELR stated elricrge based on 1982 values, bdicrge based on 1980 values. Computed as the average of five variables. Update the missing years with duplicated existing years value, since there is only one point value for each country.
Institutional quality New	icrge8412	0.504/0.460	PRIS Group International Country Risk Guide	Copyrights 1984-present TABLE 2B: Composite Dataset
M2/GDP, lagged	M2gdplagged	0.820/0.265*	WDI 2014	*Calculated with pairwise correlation, with listwise, they equal to 0.821/0.819.
Sub-Saharan Africa	bdssa/elrssa	N/A	BD(2000)/ELR(2004)	Same as that in BD(2000)/ELR(2004)#
East Asia	bdeasia/elrasia	N/A	BD(2000)/ELR(2004)	Same as that in BD(2000)/ELR(2004)
Franc Zone	bdfrz/ elfrz	N/A	BD(2000)/ELR(2004)	Same as that in BD(2000)/ELR(2004)
Central America	elrcentam/ elrcentam	N/A	BD(2000)/ELR(2004)	Same as that in BD(2000)/ELR(2004)
Egypt	bdegypt/ elgypt	N/A	BD(2000)/ELR(2004)	Same as that in BD(2000)/ELR(2004)

Budget surplus	elrbbfilled	0.740/0.824	BD(2000)/ELR(2004)	Budget surplus data is no longer available post 1997. We fill in the missing years with adjacent year observation.
Inflation	linfl	0.950/0.935	WDI 2014	Ln (1+Inlfation), where inflation is GDP deflator. Updated Sachs-Warner trade openness data to 2010, based on
Sachs-Warner Openness updated	openness	0.945/0.907	Sachs and Warner data sets (1995); Wacziarg and Welch (2008); Clemens et al.(2011)	Wacziarg and Welch (2008) and Clemens et al. (2011) Appendices. Refer to Appendix 7 for a comparison with BD/ELR samples. Aid100= EDA/GDP*100, to match with original works' scale. In BD (2000) and ELR (2004) use pwt 6.1 for GDP data
Aid(Effective Development Assistance)/ GDP)	aid100	0.576**/0.751	Pwt8.0/Chang et al. 1998; IMF 2014; DAC 2014.	(with chain series). Average annual EDA in 2012 US\$/average annual real GDP in 2005 US dollars. From pwt8.0 using chained PPPs, **list-wise correlation is 0.803.
Population	lpop	0.999/1.000	WDI 2014	Natural logarithm of population
Arms imports/total imports lagged	armimports_lag	0.878/ 0.859	WDI 2014	Arms imports (SIPRI trend indicator values). Total imports in 2005 constant US dollars.
Policy Index	policy	0.943/0.933	BD(2000)/ELR(2004);WDI 2014;Sachs and Warner data sets (1995); Wacziarg and Welch (2008); Clemens et al.(2011)	Correlation is calculated between BD data set(1970-1993)/ELR data set(1970-1997) and our full data set(1962-2012)

Notes: # refer to Appendix 6.

Appendix 2: Summary statistics, full sample

Variable	Obs	Mean	Std. Dev.	Min	Max
Per-capita GDP growth	548	2.100	3.297	-11.52	18.00
Initial GDP per capita (log)	548	7.286	1.042	4.803	9.927
Ethnic fractionalization	548	0.530	0.252	0.00200	0.930
Institutional quality	548	4.502	1.632	1.600	9.500
M2/GDP, lagged	548	52.49	299.9	4.623	6,798
Budget surplus filled	548	-0.0297	0.0423	-0.306	0.147
Inflation	548	0.153	0.332	-0.0945	3.598
Sachs-Warner Openness updated	548	0.488	0.485	0	1
Aid/GDP*100	548	1.798	2.408	-0.104	19.07
Arms imports/total imports lagged	548	0.0245	0.0600	0	0.667
Population	548	16.56	1.584	12.63	21.01
Assassinations filled	548	0.493	1.216	0	11.50
Policy Index	548	2.126	0.832	-4.418	3.684
Aid*policy	548	3.639	5.183	-12.46	41.16
Aid^2*policy	548	18.08	54.29	-35.14	784.9

Notes: 1. Observations under ELR specification used in 2SLS model; with OLS, it increases to 687.

2. Under BD specification, 2SLS has 485 observations; with OLS, increases it to 601.

Appendix 3 - Difference in sample between BD, ELR and new data set

Panel A: Difference in sample between BD and new data set

	BD data set	New data set, BD specification
Obs unique to	BOL3 GUY5 LKA5 NIC5 SYR4	BGD5 ETH8 MLT4 PAN8 SGP8 ZAF8
set 1970-1993	DZA3 GUY6 LKA6 NIC6 TTO5	BGD6 MLI4 MLT6 SGP5 TUN3 ZWE5
	DZA4 GUY7 MDG8 NIC7 TTO7	BGD7 MLI5 PAN6 SGP6 TUN4
	GHA3 GUY8 MWI5 NIC8 TZA6	BWA8 MLI6 PAN7 SGP7 TUN5
	GHA4 HTI3 MWI6 PRY3 TZA7	
	GHA5 HTI4 MWI7 PRY4 VEN3	
	GHA6 HTI5 MWI8 PRY5 VEN4	
	GHA7 HTI6 NER4 PRY6 ZAR3	
	GHA8 HTI7 NER5 PRY7 ZAR4	
	GMB4 JAM4 NGA3 PRY8 ZAR5	
	GMB5 JAM5 NGA4 SLE3 ZAR6	
	GMB7 JAM6 NGA5 SOM4 ZAR7	
	GUY3 LKA3 NIC3 SOM5 ZMB8	
	GUY4 LKA4 NIC4 SYR3	
Obs for 1962-69	None	ARG2 CIV11 ETH11 LKA9 NER12 SEN13 TUR9
& 1994-2012*		ARG9 CIV12 ETH12 LKA10 NGA9 SGP9 TUR10
		ARG10 CMR2 GAB2 LKA11 NGA10 SLE9 TUR11
		ARG11 CMR9 GAB9 LKA12 NGA11 SLE10 TUR12
		ARG12 CMR10 GAB12 LKA13 NGA12 SLE11 TUR13
		BGD9 CMR11 GAB13 MAR2 NGA13 SLE13 URY2
		BGD10 CMR12 GHA12 MAR9 PAK2 SLV2 URY9
		BGD11 CMR13 GMB12 MAR10 PAK9 SLV9 URY10
		BGD12 COL2 GMB13 MAR11 PAK10 SLV10 URY11
		BGD13 COL9 GTM2 MAR12 PAK11 SLV11 URY12
		BOL9 COL10 GTM9 MAR13 PAK12 SLV12 URY13
		BOL10 COL11 GTM10 MDG2 PAK13 SLV13 VEN9
		BOL11 COL12 GTM11 MDG10 PAN9 SYR9 VEN10
		BOL12 COL13 GTM13 MDG13 PAN10 SYR10 VEN11
		BOL13 CRI2 HND2 MEX2 PAN12 SYR11 VEN12
		BRA2 CRI9 HND13 MEX9 PAN13 SYR12 VEN13
		BRA9 DOM2 IDN9 MEX10 PER2 TGO2 ZAF9
		BRA10 DOM10 IDN10 MEX11 PER9 TGO9 ZAF10
		BRA11 DOM11 IDN11 MEX12 PER10 TGO10 ZAF11
		BRA12 DOM12 IDN12 MEX13 PER11 THA2 ZAF12
		BRA13 DOM13 IDN13 MLI9 PER12 THA9 ZAF13
		BWA9 ECU2 IND2 MLI10 PER13 THA10 ZMB2
		BWA10 ECU9 IND9 MLI11 PHL2 THA11 ZMB10

BWA11 ECU10 IND10 MLI12 PHL9 THA12 ZMB11
 BWA12 ECU11 IND11 MLI13 PHL10 THA13 ZMB12
 BWA13 ECU12 IND12 MLT9 PHL11 TTO2 ZMB13
 CHL2 ECU13 IND13 MLT10 PHL12 TTO11 ZWE9
 CHL9 EGY2 KEN2 MLT11 PHL13 TTO12 ZWE11
 CHL10 EGY9 KEN9 MWI13 PRY9 TTO13 ZWE12
 CHL11 EGY10 KEN10 MYS2 PRY10 TUN2
 CHL12 EGY11 KEN11 MYS9 PRY11 TUN9
 CHL13 EGY12 KEN13 MYS10 PRY12 TUN10
 CIV2 EGY13 KOR2 MYS11 SEN2 TUN11
 CIV9 ETH9 KOR9 MYS12 SEN10 TUN12
 CIV10 ETH10 KOR10 MYS13 SEN12 TUN13

Number of Obs 275 601

Notes: * 1962-1965 observations are lagged for one period in the model.

Country codes refer to International Standards Organization (ISO) 3-digit alphabetic codes; numbers represent different 4-year period, starts in 1962. For example, BOL3 means Bolivia 1970-1973

Panel B: Difference in sample between ELR and new data set

	ELR data set			New data set, ELR specification						
Obs unique to	BOL3	HTI7	MMR7 PNG5 TUR5	BFA3	BRA4	COG6	MLT6	SGP6	ZAF8	
set 1970-1997	BWA4	HTI8	MMR8 PNG6 TUR6	BFA4	CHN6	IRN3	MLT9	SGP7	ZMB3	
	DOM9	HTI9	MMR9 PNG7 TUR7	BFA5	CHN7	IRN4	PAN6	SGP8	ZMB4	
	DZA9	JAM4	MWI5 PNG8 UGA6	BGD5	CHN8	MLI4	PAN7	SGP9	ZMB5	
	GHA3	JAM5	MWI6 PNG9 UGA9	BGD6	CHN9	MLI5	PAN8	TUN3	ZMB6	
	GHA4	JAM6	MWI7 PRY3 VEN3	BGD7	COG3	MLI6	PAN9	TUN4		
	GHA5	JAM8	MWI8 PRY4 VEN4	BRA3	COG5	MLT4	SGP5	TUN5		
	GHA6	JAM9	NER4 PRY5 ZAR3							
	GHA7	JOR4	NER5 PRY6 ZAR4							
	GHA8	LKA3	NGA3 PRY7 ZAR5							
	GHA9	LKA4	NGA4 PRY8 ZAR6							
	GMB4	LKA5	NGA5 SLE3 ZAR7							
	GMB5	LKA6	NIC3 SYR3 ZAR8							
	GUY9	MDG8	NIC4 SYR4 ZAR9							
	HND9	MDG9	NIC5 TTO5 ZMB8							
	HTI3	MMR3	NIC6 TTO7 ZMB9							
	HTI4	MMR4	NIC7 TTO9							
	HTI5	MMR5	NIC8 TUR3							
	HTI6	MMR6	NIC9 TUR4							
Obs for 1962-69	None			ALB10	CHN10	ECU13	IRN11	MLI12	PRY10	TUN13

& 1998-2012

ALB12 CHN11 EGY2 IRN12 MLI13 PRY11 TUR10
 ALB13 CHN12 EGY10 IRN13 MLT10 PRY12 TUR11
 ARG2 CHN13 EGY11 JOR10 MLT11 SEN2 TUR12
 ARG10 CIV2 EGY12 JOR11 MWI13 SEN10 TUR13
 ARG11 CIV10 EGY13 JOR12 MYS2 SEN12 UGA10
 ARG12 CIV11 ETH10 JOR13 MYS10 SEN13 UGA11
 BFA2 CIV12 ETH11 KEN2 MYS11 SLE10 UGA12
 BFA11 CMR2 ETH12 KEN10 MYS12 SLE11 UGA13
 BFA12 CMR10 GAB2 KEN11 MYS13 SLE13 URY2
 BFA13 CMR11 GAB12 KEN13 NER12 SLV2 URY10
 BGD10 CMR12 GAB13 KOR2 NGA10 SLV10 URY11
 BGD11 CMR13 GHA12 KOR10 NGA11 SLV11 URY12
 BGD12 COG2 GIN12 LBR11 NGA12 SLV12 URY13
 BGD13 COG10 GMB12 LKA10 NGA13 SLV13 VEN10
 BOL10 COG11 GMB13 LKA11 PAK2 SYR10 VEN11
 BOL11 COG12 GTM2 LKA12 PAK10 SYR11 VEN12
 BOL12 COG13 GTM10 LKA13 PAK11 SYR12 VEN13
 BOL13 COL2 GTM11 MAR2 PAK12 TGO2 ZAF10
 BRA2 COL10 GTM13 MAR10 PAK13 TGO10 ZAF11
 BRA10 COL11 HND2 MAR11 PAN10 THA2 ZAF12
 BRA11 COL12 HND13 MAR12 PAN12 THA10 ZAF13
 BRA12 COL13 IDN10 MAR13 PAN13 THA11 ZMB2
 BRA13 CRI2 IDN11 MDG2 PER2 THA12 ZMB10
 BWA10 DOM2 IDN12 MDG10 PER10 THA13 ZMB11
 BWA11 DOM10 IDN13 MDG13 PER11 TTO2 ZMB12
 BWA12 DOM11 IND2 MEX2 PER12 TTO11 ZMB13
 BWA13 DOM12 IND10 MEX10 PER13 TTO12 ZWE11
 CHL2 DOM13 IND11 MEX11 PHL2 TTO13 ZWE12
 CHL10 ECU2 IND12 MEX12 PHL10 TUN2
 CHL11 ECU10 IND13 MEX13 PHL11 TUN10
 CHL12 ECU11 IRN2 MLI10 PHL12 TUN11
 CHL13 ECU12 IRN10 MLI11 PHL13 TUN12

Number of Obs 356

687

Notes: * 1962-1965 observations are lagged for one period in the model.

Country codes refer to International Standards Organization (ISO) 3-digit alphabetic codes; numbers represent different 4-year period, starts in 1962. For example, BOL3 means Bolivia 1970-1973

Appendix 4 – Country differences in BD/ELR samples and post-1990 new sample

BD 70-93 sample versus post-1990 new sample *		ELR 70-97 sample versus post-1990 new sample #	
BD unique countries	NEW unique countries	ELR unique countries	NEW unique countries
Algeria	Albania	Algeria	Albania
Guyana	Azerbaijan	Guyana	Azerbaijan
Haiti	Burkina Faso	Haiti	Bangladesh
Jamaica	Bangladesh	Jamaica	Belarus
Nicaragua	Belarus	Myanmar	China
Somalia	China	Nicaragua	Guinea
Tanzania	Congo, Rep.	Papua New Guinea	Croatia
Congo, Dem. Rep.	Guinea	Congo, Dem. Rep.	Kazakhstan
	Croatia		Liberia
	Iran, Islamic Rep.		Moldova
	Jordan		Malta
	Kazakhstan		Panama
	Liberia		Singapore
	Moldova		
	Malta		
	Panama		
	Singapore		
	Uganda		
	South Africa		

Notes: *observations under BD specification; # observations under ELR specification.

Appendix 5 - Outliers excluded from regressions

Regressions	Outliers
1 BD original,1970-93	GAM7 GAM8 GUY8 NIC7 NIC8
2 New data, BD countries,1970-93	BWA5 BWA6 GAB4 GMB7 GMB8 SLV6 SLV8 ZMB7 ZMB8
3 New data, full sample,1970-93	BWA5 BWA7 GMB7 MLI6 SLV8 ZMB8 BWA6 GAB4 GMB8 SLV6 ZMB7
4 ELR original,1970-97	BRA7 BRA8 GAB4 GAM8 GUY9 JOR5 NIC7
5 New data, ELR countries,1970-97	BRA7 BWA6 GAB4 MLI8 SLV9 ZMB8 BWA5 BWA7 GMB8 SLV8 ZMB7 ZMB9
6 New data, full sample,1970-97	BRA7 BWA6 GAB4 MLI8 SLV9 ZMB8 BWA5 BWA7 GMB8 SLV8 ZMB7 ZMB9
7 New data, BD countries,1962-2012	BWA5 BWA6 GAB4 GMB7 SLV8 ZMB7 ZMB8
8 New data, full sample, BD specification,1962-2012	BWA5 BWA6 GAB4 GMB7 MLI6 SLV8 ZMB7 ZMB8
9 New data, ELR countries,1962-2012	BWA5 BWA6 GAB4 GMB7 IRN5 SLV8 ZMB7 ZMB8
10 New data, full sample, ELR specification,1962-2012	BRA7 BWA5 BWA7 GMB7 LBR12 LBR8 MLI8 SLV8 ZMB7 BRA8 BWA6 GAB4 IRN5 LBR13 LBR9 SLV7 SLV9 ZMB8
11 New data, BD countries,1990-2012	ARG8 MWI10 MWI13 NER8 SLE11 TGO8 ZMB8 BRA8 MWI11 MWI9 NGA11 SLV8 TGO9
12 New data, full sample, BD specification,1990-2012	AZE12 GNB8 JOR8 LBR8 SLV8 ZMB8 GMB8 GNB9 LBR13 LBR9 SLV9
13 New data, ELR countries,1990-2012	ARG8 BRA8 MWI11 NGA11 TGO8 BFA8 MWI10 MWI13 SLE11 TGO9
14 New data, full sample, ELR specification,1990-2012	AZE12 GNB10 GNB9 LBR9 SLV9 GMB8 GNB8 LBR8 SLV8 ZMB8

Note: Country codes refer to International Standards Organization (ISO) 3-digit alphabetic codes; numbers represent different 4-year period, starts in 1962. For example, BOL3 means Bolivia 1970-1973

Appendix 6- List of BD and ELR country dummy variables

Variable Name	Abbreviation	BD(2000)			ELR(2004)		
Sub-Saharan Africa	Botswana	Ghana	Senegal	Botswana	Gambia	Senegal	
	Cameroon	Kenya	Sierra Leone	Burkina Faso	Ghana	Sierra Leone	
	Congo, Dem. Rep.	Madagascar	Somalia	Cameroon	Kenya	South Africa	
	Cote d'Ivoire	Malawi	Tanzania	Congo, Dem. Rep.	Madagascar	Togo	
	Ethiopia	Mali	Togo	Congo, Rep.	Malawi	Uganda	
	Gabon	Niger	Zambia	Cote d'Ivoire	Mali	Zambia	
	Gambia	Nigeria	Zimbabwe	Ethiopia	Niger	Zimbabwe	
East Asia	Indonesia	Malaysia	Thailand	Indonesia	Malaysia	Thailand	
	Korea, Rep.	Philippines		Korea, Rep.	Philippines		
Franc Zone	Cameroon	Mali	Togo	Burkina Faso	Cote d'Ivoire	Niger	
	Cote d'Ivoire	Niger		Cameroon	Gabon	Senegal	
	Gabon	Senegal		Congo, Rep.	Mali	Togo	
Central America	Costa Rica	Guatemala	Nicaragua	Costa Rica	Guatemala	Nicaragua	
	El Salvador	Honduras		El Salvador	Honduras		

Appendix 7-Regression and specification setting up

To investigate the relation of aid-policy-growth, BD employ methods of Pooled Ordinary Least Squares (OLS) and Two-Stage Least Squares (2SLS). The model specification is, GDP growth rate being the LHS variable; initial real GDP, amount of international aid, policy index, interaction term of aid and policy and other control variables being the RHS variables.

This expresses as the following equation:

$$g_{it} = y_{it}\beta_y + a_{it}\beta_a + p_{it}\beta_p + a_{it}p_{it}\beta_1 + z_{it}\beta_z + g_t + \varepsilon_{it}^g \quad (1)$$

$$a_{it} = y_{it}\gamma_y + p_{it}\gamma_p + z_{it}\gamma_z + a_t + \varepsilon_{it}^a \quad (2)$$

Where i denotes countries, t denotes period, g_{it} is per capita real GDP growth, y_{it} is natural logarithm of per capita real GDP, a_{it} is international aid received relative to its total GDP, g_t and a_t are fixed-time effects, z_{it} is a vector of other exogenous variables,

p_{it} is the policy index vector constructed by BD¹⁴, which basically leave the weights of different policies to the gross regression. It follows the steps:

i) Run equation (1) without aid and aid*policy terms, and collect the policy coefficients

$$g_{it} = y_{it}\beta_y + p_{it}\beta_p + z_{it}\beta_z + g_t + \varepsilon_{it}^g \quad (3)$$

ii) Construct a variable called "Policy⁰", with coefficients collected from step i), and calculate the mean of Policy⁰

$$p_{it}^0 = \beta_b \text{BudgetSurplus} + \beta_i \text{Inflation} + \beta_o \text{Openness} \quad \text{and get } \bar{p} \quad (4)$$

iii) Calculate the constant of the policy index, which is the difference between the mean of GDP growth rate and the mean of Policy⁰¹⁵, $\text{Constant } t = \bar{g} - \bar{p}$ (5)

iv) At last, we add the constant term up to p_{it}^0 , and get the policy index;

$$p_{it} = p_{it}^0 + \text{constant } t \quad (6)$$

¹⁴ This is known as "Burnside & Dollar Policy Index", which Jan Dehn (2000) has clear statement about the procedure.

¹⁵ By doing so, BD claim that "the index can be interpreted as a country's predicted growth rate."(2000,p. 855)

Appendix 8- Countries with trade openness status changed between BD/ELR samples and post-90 sample

Comparisons	Countries		
Compared with BD sample	Argentina	Honduras	Senegal
	Bangladesh	Kenya	Sierra Leone
	Brazil	Sri Lanka	Syrian Arab Republic
	Côte D'ivoire	Madagascar	Trinidad And Tobago
	Cameroon	Niger	South Africa
	Dominican Republic	Nigeria	Zambia
	Ecuador	Pakistan	Zimbabwe
	Egypt, Arab Rep.	Panama	
	Ethiopia	Peru	
Compared with ELR sample	Albania	Honduras	Panama
	Argentina	Iran, Islamic Rep.	Senegal
	Burkina Faso	Kenya	Syrian Arab Republic
	Bangladesh	Liberia	Trinidad And Tobago
	China	Madagascar	Uganda
	Côte D'ivoire	Malta	Uruguay
	Congo, Rep.	Niger	Zambia
	Dominican Republic	Nigeria	Zimbabwe
	Ethiopia	Pakistan	

Notes: Countries listed here include: either BD/ELR do not have that country, or trade openness status has changed after 1993/1997.

Table 1 - Replication with new data 1970-93/97, BD and ELR regressions 4, 7, 5, 8

Notes: Robust standard errors are reported in parentheses *** p<0.01, ** p<0.05, * p<0.1. Country and time fixed effects are included in all regressions. Each specification includes a constant term, measure of aid/GDP, a policy index, an aid*policy interaction term, log initial GDP, ethnic fractionalization, political assassinations, a fractionalization*assassinations interaction term, a measure of institutional quality, and a measure of financial depth (M2/GDP lagged), regional dummies for Sub-Saharan Africa and fast-growing East Asian countries. See Appendix 1 for detailed data description. ELR original does not report results for 4/2SLS and 7/2SLS. Regression numbers are matched with BD/ ELR original works. Regression and specification set up refer to Appendix 6

		Outliers included				Hadi Method, outliers excluded			
		All countries		Lower income countries		All countries		Lower income countries	
		4/OLS	4/2SLS	7/OLS	7/2SLS	5/OLS	5/2SLS	8/OLS	8/2SLS
Panel A: BD 1970-1993, coefficients for Aid*Policy and Aid²*policy term									
Aid*policy	BD original	0.20**	0.37	0.27**	0.43	0.19**	0.18*	0.26**	0.25**
		(0.09)	(0.33)	(0.12)	(0.49)	(0.07)	(0.10)	(0.08)	(0.01)
	New data, BD countries	0.10	0.35	0.12	0.03	0.04	-0.02	0.00	-0.10
		(0.10)	(0.31)	(0.12)	(0.24)	(0.12)	(0.13)	(0.12)	(0.15)
	New data, full sample	0.14	0.41	0.12	0.05	-0.08	-0.08	-0.01	-0.14
		(0.09)	(0.33)	(0.12)	(0.24)	(0.10)	(0.12)	(0.12)	(0.16)
Aid ² *policy	BD original	-0.02*	-0.04	-0.02**	-0.04				
		(0.01)	(0.04)	(0.01)	(0.05)				
	New data, BD countries	0.00	-0.04	-0.01	0.00				
		(0.01)	(0.04)	(0.01)	(0.02)				
	New data, full sample	-0.01	-0.05	-0.01	-0.01				
		(0.01)	(0.04)	(0.01)	(0.02)				
Observation	BD original	275	275	189	189	270	270	184	184
		261	215	173	138	252	208	167	135
	New data, BD countries	283	228	177	141	272	219	171	138
	New data, full sample								
Panel B: ELR 1970-1997, coefficients for Aid*Policy and Aid²*policy term									
Aid*policy	ELR original	-0.14		-0.27		-0.15	0.01	-0.20	-0.20
		(1.31)		(1.89)		(1.09)	(0.05)	(1.26)	(0.65)
	New data, ELR countries	0.00	0.24	0.06	0.05	-0.12*	-0.20*	-0.04	-0.15
		(0.09)	(0.22)	(0.10)	(0.24)	(0.07)	(0.09)	(0.08)	(0.14)
	New data, full sample	0.05	0.29	0.12	0.23	-0.08	-0.19*	0.06	0.04
							*		

		(0.08)	(0.24)	(0.10)	(0.25)	(0.07)	(0.09)	(0.08)	(0.16)
Aid ² *policy	ELR original	0.03**		0.03**					
		(2.25)		(2.35)					
	New data, ELR countries	0.00	-0.04	0.00	-0.01				
		(0.01)	(0.03)	(0.01)	(0.02)				
	New data, full sample	0.00	-0.04	0.00	-0.01				
		(0.01)	(0.03)	(0.01)	(0.02)				
Observation	ELR original	356	356	244	244	345	345	236	236
	New data, ELR countries	338	285	226	185	326	275	222	182
	New data, full sample	362	297	238	192	350	287	234	189

Draft Do Not Cite

Table 2 - Full sample 1962-2012, BD and ELR regressions 4, 7, 5, 8

Notes: Robust standard errors are reported in parentheses *** p<0.01, ** p<0.05, * p<0.1. Country and time fixed effects are included in all regressions. Each specification includes a constant term, measure of aid/GDP, a policy index, an aid*policy interaction term, log initial GDP, ethnic fractionalization, political assassinations, a fractionalization*assassinations interaction term, a measure of institutional quality, and a measure of financial depth (M2/GDP lagged), regional dummies for Sub-Saharan Africa and fast-growing East Asian countries. BD and ELR specifications differ in their definitions of regional dummies and low-income. See Appendix 1 for detailed data description. # The region dummies are different for BD and ELR, refer to Appendix 6.

		Outliers included				Hadi Method, outliers excluded			
		All countries		Lower income countries		All countries		Lower income countries	
		4/OLS	4/2SLS	7/OLS	7/2SLS	5/OLS	5/2SLS	8/OLS	8/2SLS
Panel A: BD 1962-2012, coefficients for Aid*Policy and Aid²*policy term									
Aid*policy	New data, BD countries	0.04 (0.07)	0.07 (0.19)	0.06 (0.08)	-0.10 (0.26)	0.01 (0.06)	0.08 (0.09)	0.01 (0.07)	0.04 (0.14)
	New data, full sample#	0.05 (0.06)	0.07 (0.18)	0.04 (0.07)	-0.09 (0.22)	0.00 (0.06)	0.08 (0.08)	-0.03 (0.07)	0.02 (0.14)
Aid ² *policy	New data, BD countries	0.00 (0.01)	0.01 (0.03)	0.00 (0.01)	0.03 (0.03)				
	New data, full sample	0.00 (0.00)	0.01 (0.03)	0.00 (0.01)	0.02 (0.02)				
Observation	New data, BD countries	558	453	380	298	551	448	375	295
	New data, full sample	601	485	389	307	593	479	384	303
Panel B: ELR 1962-2012, coefficients for Aid*Policy and Aid²*policy term									
Aid*policy	New data, ELR countries	0.03 (0.06)	0.14 (0.17)	0.07 (0.08)	0.02 (0.23)	0.01 (0.06)	0.06 (0.08)	0.01 (0.07)	0.00 (0.14)
	New data, full sample#	0.04 (0.07)	0.07 (0.17)	0.06 (0.10)	0.09 (0.27)	0.04 (0.07)	0.09 (0.10)	0.11 (0.10)	0.16 (0.19)
Aid ² *policy	New data, ELR countries	0.00 (0.01)	-0.01 (0.03)	0.00 (0.01)	0.00 (0.03)				
	New data, full sample	0.01** (0.00)	0.02 (0.03)	0.01** (0.00)	0.02 (0.02)				
Observation	New data, ELR countries	617	509	421	336	609	503	416	333
	New data, full sample	687	548	459	355	669	536	449	351

Table 3 - Full sample 1990-2012, BD and ELR regressions 4, 7, 5, 8

Notes: Robust standard errors are reported in parentheses *** p<0.01, ** p<0.05, * p<0.1. Country and time fixed effects are included in all regressions. Each specification includes a constant term, measure of aid/GDP, a policy index, an aid*policy interaction term, log initial GDP, ethnic fractionalization, political assassinations, a fractionalization*assassinations interaction term, a measure of institutional quality, and a measure of financial depth (M2/GDP lagged), regional dummies for Sub-Saharan Africa and fast-growing East Asian countries. BD and ELR specifications differ in their definitions of regional dummies and low-income. See Appendix 1 for detailed data description. # The region dummies are different for BD and ELR, refer to Appendix 6.

		Outliers included				Hadi Method, outliers excluded			
		All countries		Lower income countries		All countries		Lower income countries	
		4/OLS	4/2SLS	7/OLS	7/2SLS	5/OLS	5/2SLS	8/OLS	8/2SLS
Panel A: BD 1990-2012, coefficients for Aid*Policy and Aid²*policy term									
Aid*policy	New data, BD countries	0.29 (0.26)	0.68 (0.84)	0.35 (0.26)	0.22 (1.05)	0.18 (0.26)	1.01* (0.52)	0.67** (0.28)	1.66** (0.45)
	New data, full sample*	-0.10 (0.30)	-0.54 (0.54)	-0.17 (0.40)	-0.62 (0.63)	0.07 (0.26)	0.58 (0.50)	0.10 (0.16)	0.58 (0.43)
Aid ² *policy	New data, BD countries	0.03** (0.01)	0.03 (0.05)	0.03*** (0.01)	0.07 (0.04)				
	New data, full sample	0.01** (0.00)	0.07* (0.04)	0.01* (0.00)	0.07** (0.03)				
Aid	New data, BD countries	-1.05* * (0.52)	-2.24 (1.53)	-1.11* * (0.50)	-1.62 (1.87)	-0.47 (0.53)	-2.56* * (1.12)	-1.23* * (0.53)	-3.51** (0.87)
	New data, full sample	-0.02 (0.61)	-0.25 (1.09)	0.19 (0.79)	-0.09 (1.32)	-0.20 (0.58)	-1.77 (1.20)	-0.21 (0.39)	-1.52 (0.94)
Policy	New data, BD countries	0.12 (0.59)	0.43 (0.72)	-0.67 (0.90)	0.52 (1.45)	0.30 (0.51)	0.07 (0.57)	-1.15 (0.85)	-1.04 (1.09)
	New data, full sample	0.62 (0.95)	1.02 (0.76)	1.61 (1.69)	2.35 (1.47)	0.18 (0.67)	0.23 (0.74)	0.70 (0.80)	0.73 (1.08)
Marginal Effects of Aid	New data, BD countries	-0.35* * (0.13)	-0.82** (0.36)	-0.22 (0.14)	-0.71** (0.29)	-0.14 (0.09)	-0.66* * (0.23)	0.04 (0.10)	-0.33** (0.13)
	New data, full sample	-0.17 (0.11)	-0.91** (0.33)	-0.09 (0.12)	-0.77** (0.22)	-0.07 (0.10)	-0.61* * (0.26)	0.00 (0.08)	-0.32** (0.14)
Observation	New data, BD countries	282	232	194	153	269	224	192	151

		382	309	262	203	371	304	252	199
New data, full sample									
Panel B: ELR 1990-2012, coefficients for Aid*Policy and Aid²*policy term									
Aid*policy	New data, ELR countries	0.29 (0.20)	0.35 (0.52)	0.44* (0.24)	0.23 (0.84)	0.24 (0.19)	0.76** (0.37)	0.62** (0.25)	1.28** (0.47)
	New data, full sample*	0.03 (0.18)	-0.38 (0.42)	0.14 (0.25)	-0.50 (0.45)	0.22* (0.12)	0.46 (0.33)	0.20* (0.10)	0.67** (0.30)
Aid ² *policy	New data, ELR countries	0.01 (0.01)	0.03 (0.04)	0.01 (0.01)	0.06 (0.04)				
	New data, full sample	0.00** (0.00)	0.08 (0.05)	0.00 (0.00)	0.07** (0.03)				
Aid	New data, ELR countries	-0.92* *	-1.49	-1.12* *	-1.52	-0.55	-1.92* *	-1.22* *	-2.74**
	New data, full sample	(0.43)	(0.98)	(0.49)	(1.45)	(0.39)	(0.81)	(0.48)	(0.98)
Policy	New data, ELR countries	-0.23 (0.37)	-0.53 (0.83)	-0.35 (0.49)	-0.27 (0.97)	-0.51 (0.32)	-1.49* (0.88)	-0.43 (0.28)	-1.68** (0.69)
	New data, full sample	0.08 (0.45)	0.25 (0.54)	-0.71 (0.84)	0.25 (1.47)	0.15 (0.41)	-0.01 (0.42)	-0.88 (0.79)	-1.34 (1.09)
Marginal Effects of Aid	New data, ELR countries	0.45 (0.59)	0.73 (0.49)	-0.23 (1.21)	0.86 (1.16)	0.16 (0.37)	0.22 (0.49)	-0.33 (0.48)	-0.71 (0.84)
	New data, full sample	-0.25* *	-0.63**	-0.11	-0.51**	-0.06	-0.42* *	0.03	-0.15
Observation	New data, ELR countries	(0.11)	(0.29)	(0.11)	(0.25)	(0.07)	(0.16)	(0.08)	(0.12)
	New data, full sample	-0.13 (0.11)	-0.87** (0.39)	-0.03 (0.13)	-0.67** (0.21)	-0.07 (0.09)	-0.56* (0.26)	-0.02 (0.07)	-0.30** (0.14)
Observation	New data, ELR countries	318	266	218	175	308	258	216	173
	New data, full sample	382	309	247	189	372	305	242	187