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Aid and Trade: An Assessment of the United States Economic Aid to Developing Nations

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KANSAS STATE UNIVERSITY

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Introduction		
A larger percentage of foreign aid/grants are from developed nations to developing/underdeveloped counterparts. Understanding the influence of aid on the recipient country's policies is very important.	Trad Com Aid o	imod
This study examined the impact of aid from the United States (developed nation) on the agricultural bilateral trade with the sub-Saharan African nations (developing/underdeveloped).	The PW7	
The main objective of this study is to determine if the developed nations economic aid has an influence on trade policy in the developing countries.	- AI	-
This study focused mainly on the United States (U.S) as a donor country to the sub-Saharan Africa (SSA) countries. The United States aid to the sub-Saharan African are mostly on the need basis and sometimes influenced by investment/economic decisions.	d (2000 - 2014) 3 4	_
I estimated 3SLS model for U.S import, export, and gross trade values with SSA. We also included SSA import and export values to the whole world as a basis of comparison.	Log total aid (2000 - 2 3	_
Methodology		Comor
We treated aid as an endogenous variable in a 3SLS model.		L

The models are as follow:

$$T_{ipt} = \gamma A_{ipt} + X_{ipt} \Gamma + c_i + \varepsilon_{ipt}$$
(1)

$$A_{ipt} = \beta_1 RC + \beta_2 CS + X_{ipt} \Gamma + c_i + \varepsilon_{ipt}$$
(2)

where equation (1) is the second stage model that examined the influence of aid on trade volume. Equation (2) is the first stage model.

T_{ipt} is the volume of trade from country i on commodity **p** at given year t with the United States.

 A_{ipt} is the amount of aid received from the U.S.

 X_{ipt} is the vector of other exogenous variables a affecting trade flow.

RC and **CS** are the real consumption and capital stock of the aid recipient country respectively.

 c_i = Country fixed effect.

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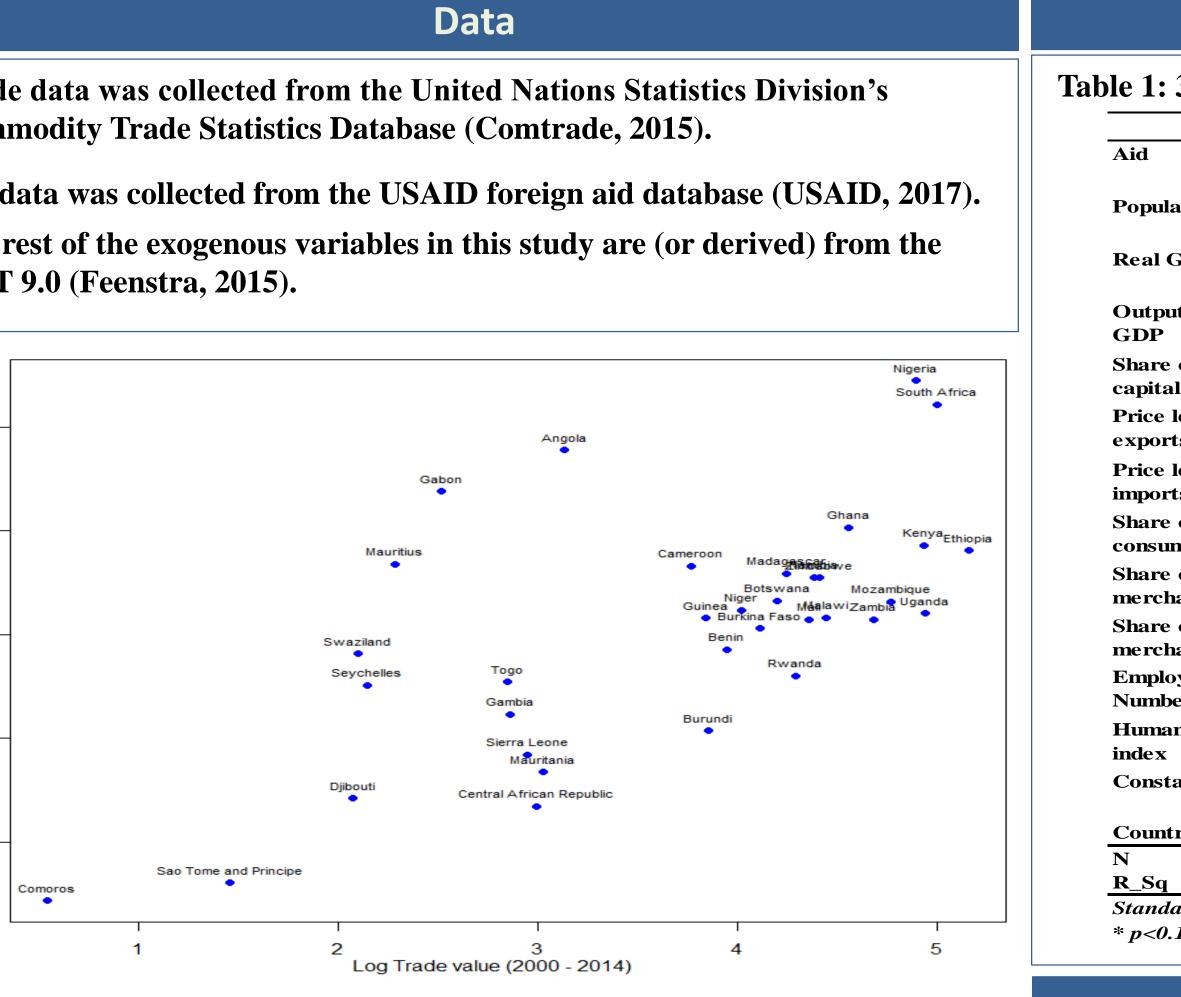


Figure 1: Aid and bilateral trade between U.S and SSA countries (2000-2014)

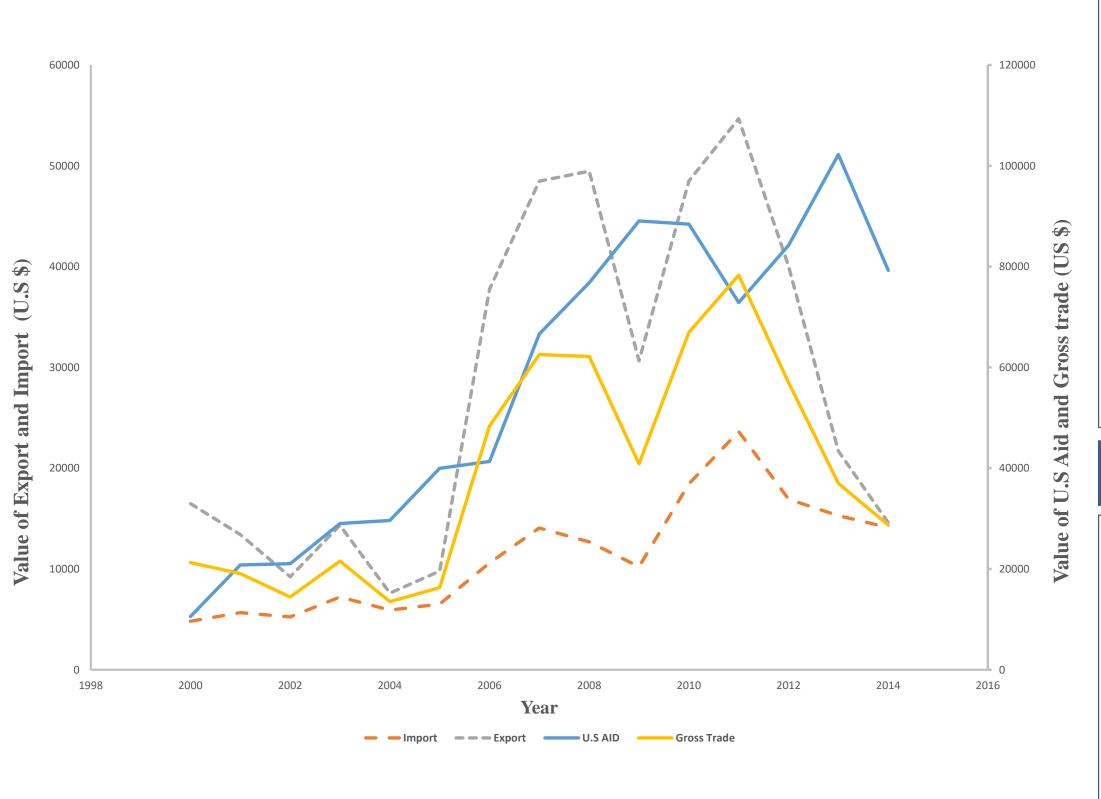


Table 1: 3SL

Population

Real GDP

Output-sid Share of gr capital form **Price level** exports **Price level** imports

Share of ho consumptio Share of merchandis Share of merchandis Employme Number

Human cap Constant

Country F.

The three U.S models showed no significant impacts of aid on agric. trade.

U.S economic aid have significant impact on the volume of agric. trade by the sub-Saharan African countries at 10 percent level.

No relationship between U.S economic aid and bilateral agricultural trade.

This study confirmed that the United States aid to the sub-Saharan African countries are mostly on the need basis and not necessarily to influence the trade policy of the developing nations with the United States.

Figure 2: Total aid vs trade for all the countries (2000 – 2014)



Results

	Export (US)	Import (US)	Trade (US)	Export (World)	Import (World)
	-0.106	1.467	0.391	2.367*	0.897*
	(1.458)	(1.354)	(0.939)	(1.276)	(0.536)
l	-1.155	4.422	1.292	4.193	-0.219
	(4.521)	(4.198)	(2.912)	(3.957)	(1.662)
	-2.527	1.201	0.617	-1.640	1.057
	(1.864)	(1.731)	(1.201)	(1.632)	(0.685)
le real	2.702***	-1.438*	0.112	0.363	-0.250
	(0.932)	(0.865)	(0.600)	(0.816)	(0.342)
ross	1.335	-0.912	0.150	0.201	-0.737**
mation	(0.818)	(0.759)	(0.527)	(0.716)	(0.301)
of	0.277	0.0270	1.010	-2.383	-0.00183
	(2.240)	(2.080)	(1.443)	(1.961)	(0.823)
of	0.456	-0.347	-1.217	1.775	0.486
	(1.872)	(1.739)	(1.206)	(1.639)	(0.688)
ousehold	0.451	0.0179	0.340	0.219	-0.368***
on	(0.360)	(0.334)	(0.232)	(0.315)	(0.132)
	1.414*	1.069	1.324***	0.961	0.278
se	(0.742)	(0.689)	(0.478)	(0.649)	(0.273)
	1.076	1.234	1.384***	1.259*	-0.228
se	(0.824)	(0.765)	(0.531)	(0.721)	(0.303)
nt	2.214	-3.659	-1.170	-3.467	-0.857
	(3.043)	(2.826)	(1.961)	(2.664)	(1.119)
oital	-0.744***	-0.340	-0.327**	-0.264	-0.115
	(0.240)	(0.223)	(0.154)	(0.210)	(0.0881)
	60.40	-92.35*	-29.12	-49.31	-15.93
	(50.84)	(47.22)	(32.76)	(44.51)	(18.69)
E	Yes	Yes	Yes	Yes	Yes
	383	383	383	383	383
	0.790	0.644	0.806	0.338	0.782

Standard errors in parentheses

* p<0.1 ** p<0.05 *** p<0.01

Discussion and Conclusions

References

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