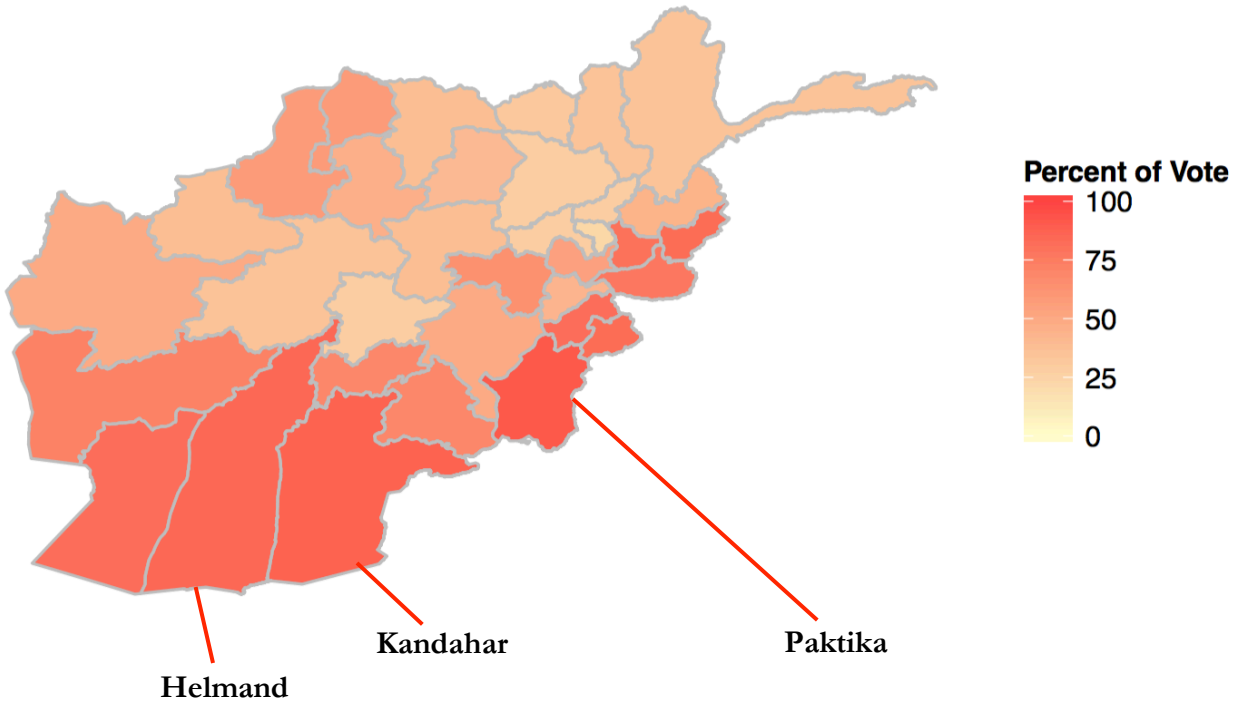
Online Appendix

A Strategic Logic of Attacking Aid Workers: Evidence from Violence in Afghanistan, 2008-2012

The following online appendix contains additional robustness tests described in the text of the paper.

Appendix Figure A1: Map of Vote Share for Karzai in the 2009 Presidential Elections, as a proxy for Civilian Support for the Government across 34 Provinces of Afghanistan



Appendix Table A1: Description and Source of Variables used in Regression Analysis

Variable	Measure
Karzai vote share	Vote share for Karzai in the 2004 and 2009 presidential elections *Source: National Democratic Institute*
Overall level of violence	Number of violent events *Source: WITS*
Total food aid	Food aid distributed to the province, metric tons *Source: Afghanistan Central Statistics Organization*
Development project number	Number of NGO development projects in the province *Source: Afghanistan Central Statistics Organization*
Development expenditure	Total annual expenditure on NGO development projects in the province, in US$ *Source: Afghanistan Central Statistics Organization*
Population size	Province population size *Source: Afghanistan Central Statistics Organization*
Presence of drugs	Opium cultivation, as percent of province territory *Source: United Nations Office on Drugs and Crime and Afghanistan Ministry of Counter Narcotics*

Appendix Table A2: Correlation Coefficients (Years 2008 – 2009)

	JOIIS	CIDNE	ACLED	WITS	iCasualties
JOIIS	1				
CIDNE	0.9791*	1			
ACLED	0.8802*	0.8570*	1		
WITS	0.5762*	0.5250*	0.7258*	1	
iCasualties	0.9495*	0.9331*	0.8566*	0.5148*	1

Note: The table presents correlation coefficients for five independent measurements of political violence across provinces of Afghanistan from 2008-2009. *Correlation significant at 5%.

Appendix Table A3: Level of Government Support and the Rate of Aid Worker Attacks per year, using alternative measure of Karzai Vote Share (2004 election results used for 2008 and 2009 election results used for 2009, 20010, 2011)

VARIABLES	Model 1 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects*	Model 2 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects*	Model 3 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects*	Model 4 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects (Drop cases of looting/robbery)*	Model 5 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects (Drop cases of looting/robbery)*	Model 6 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects (Drop cases of looting/robbery)*
Karzai Vote Share	0.730***	0.665**	0.640**	0.631***	0.583**	0.532**
	(0.259)	(0.260)	(0.265)	(0.231)	(0.235)	(0.234)
Overall Level of Violence	0.00324***	0.00282***	0.00280***	0.00282***	0.00247***	0.00240***
	(0.000888)	(0.000876)	(0.000886)	(0.000791)	(0.000791)	(0.000783)
Population Size (Logged)	-2.541*	-3.666**	-1.732	-2.751**	-2.856*	-2.049*
	(1.389)	(1.716)	(1.342)	(1.237)	(1.549)	(1.185)
Opium Cultivation	15.07	18.12	27.19	8.795	15.23	20.16
	(28.92)	(28.89)	(28.83)	(25.74)	(26.08)	(25.47)
Total Food Aid Expenditure	-0.0732**			-0.0667**		
	(0.0348)			(0.0310)		
Development Project Number		0.00264*			0.00121	
		(0.00141)			(0.00128)	
Development Expenditure			1.00e-05			1.27e-05*
			(7.79e-06)			(6.88e-06)
Constant	16.43*	22.88**	10.69	17.71**	17.81*	12.69*
	(8.832)	(10.79)	(8.437)	(7.864)	(9.739)	(7.454)
Observations	136	136	136	136	136	136
Provinces	34	34	34	34	34	34
R-squared	0.193	0.186	0.171	0.181	0.150	0.171

Standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

Appendix Table A4: Level of Government Support and the Rate of Aid Worker Attacks per year, using audited Karzai Vote Share

VARIABLES	Model 1 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects*	Model 2 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects*	Model 3 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects*	Model 4 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects (Drop cases of looting/robbery)*	Model 5 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects (Drop cases of looting/robbery)*	Model 6 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects (Drop cases of looting/robbery)*
Karzai Vote Share	0.556***	0.454**	0.443**	0.464***	0.391**	0.337*
	(0.186)	(0.188)	(0.195)	(0.166)	(0.170)	(0.173)
Overall Level of Violence	0.00335***	0.00286***	0.00285***	0.00291***	0.00250***	0.00242***
	(0.000889)	(0.000882)	(0.000893)	(0.000794)	(0.000797)	(0.000791)
Population Size (Logged)	-2.098	-2.999*	-1.250	-2.367*	-2.278	-1.661
	(1.373)	(1.731)	(1.343)	(1.227)	(1.564)	(1.190)
Opium Cultivation	17.42	22.29	30.32	10.95	18.89	22.90
	(28.72)	(28.94)	(28.86)	(25.66)	(26.15)	(25.59)
Total Food Aid Expenditure	-0.0811**			-0.0730**		
	(0.0349)			(0.0312)		
Development Project Number		0.00239*			0.000998	
		(0.00143)			(0.00129)	
Development Expenditure			8.17e-06			1.15e-05
			(7.99e-06)			(7.08e-06)
Constant	13.79	18.79*	7.772	15.43*	14.28	10.36
	(8.744)	(10.90)	(8.463)	(7.811)	(9.848)	(7.502)
Observations	136	136	136	136	136	136
R-squared	0.201	0.180	0.165	0.183	0.143	0.160
Provinces	34	34	34	34	34	34

Standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

Appendix Table A5: Level of Government Support and the Rate of Aid Worker Attacks per year, Dropping Paktika, Kandahar, and Nangarhar where voter fraud was high

VARIABLES	Model 1 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects*	Model 2 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects*	Model 3 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects*	Model 4 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects (Drop cases of looting/robbery)*	Model 5 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects (Drop cases of looting/robbery)*	Model 6 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects (Drop cases of looting/robbery)*
Karzai Vote Share	0.605***	0.514**	0.486**	0.517**	0.453**	0.395*
	(0.223)	(0.226)	(0.230)	(0.202)	(0.207)	(0.206)
Overall Level of Violence	0.00385***	0.00331***	0.00306***	0.00343***	0.00301***	0.00264**
	(0.00110)	(0.00110)	(0.00113)	(0.000997)	(0.00101)	(0.00102)
Population Size (Logged)	-2.891**	-4.075**	-2.087	-3.102**	-3.208*	-2.385*
	(1.423)	(1.796)	(1.394)	(1.287)	(1.647)	(1.252)
Opium Cultivation	14.57	12.08	19.69	10.29	13.25	14.25
	(30.13)	(30.85)	(30.43)	(27.25)	(28.29)	(27.34)
Total Food Aid Expenditure	-0.0808**			-0.0732**		
	(0.0353)			(0.0320)		
Development Project Number		0.00258*			0.00111	
		(0.00144)			(0.00132)	
Development Expenditure			1.38e-05			1.52e-05*
			(8.76e-06)			(7.87e-06)
Constant	18.65**	25.39**	12.93	19.90**	19.97*	14.78*
Observations	124	124	124	124	124	124
R-squared	0.203	0.185	0.179	0.192	0.151	0.179
Provinces	31	31	31	31	31	31

Standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

Appendix Table A6: Level of Government Support and the Rate of Aid Worker Attacks per year, using ACLED data for Overall Violence, 2008 - 2009

VARIABLES	Model 1 (OLS) DV: Avg. Number Aid Worker Attacks	Model 2 (OLS) DV: Avg. Number Aid Worker Attacks	Model 3 (OLS) DV: Avg. Number Aid Worker Attacks	Model 4 (OLS) DV: Avg. Number Aid Worker Attacks *(Drop cases of looting/robbery)*	Model 5 (OLS) DV: Avg. Number Aid Worker Attacks *(Drop cases of looting/robbery)*	Model 6 (OLS) DV: Avg. Number Aid Worker Attacks *(Drop cases of looting/robbery)*
Karzai Vote Share	0.424	0.516*	0.516*	0.343	0.431	0.431
	(0.274)	(0.287)	(0.287)	(0.252)	(0.266)	(0.266)
ACLED Level of Violence	0.000732	0.00680	0.00680	-0.000324	0.00552	0.00552
	(0.00714)	(0.00696)	(0.00696)	(0.00656)	(0.00644)	(0.00644)
Population Size (Logged)	-2.828	-6.846*	-6.846*	-1.947	-5.816*	-5.816*
	(3.689)	(3.384)	(3.384)	(3.390)	(3.132)	(3.132)
Opium Cultivation	-22.26	-15.95	-15.95	-17.88	-11.80	-11.80
	(33.88)	(35.79)	(35.79)	(31.14)	(33.12)	(33.12)
Total Food Aid Expenditure	-0.147**			-0.141**		
	(0.0675)			(0.0620)		
Development Project Number						
Development Expenditure						
Constant	19.20	43.21*	43.21*	13.58	36.69*	36.69*
	(22.93)	(21.31)	(21.31)	(21.07)	(19.72)	(19.72)
Observations	68	68	68	68	68	68
Provinces	34	34	34	34	34	34
R-squared	0.295	0.180	0.180	0.285	0.157	0.157

Standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

Appendix Table A7: Level of Government Support and the Rate of Aid Worker Attacks per year, using JOIIS data for Overall Violence, 2008 - 2009

VARIABLES	Model 1 (OLS) DV: Avg. Number Aid Worker Attacks	Model 2 (OLS) DV: Avg. Number Aid Worker Attacks	Model 3 (OLS) DV: Avg. Number Aid Worker Attacks	Model 4 (OLS) DV: Avg. Number Aid Worker Attacks *(Drop cases of looting/robbery)*	Model 5 (OLS) DV: Avg. Number Aid Worker Attacks *(Drop cases of looting/robbery)*	Model 6 (OLS) DV: Avg. Number Aid Worker Attacks *(Drop cases of looting/robbery)*
Karzai Vote Share	0.391	0.439	0.439	0.331	0.376	0.376
	(0.268)	(0.289)	(0.289)	(0.247)	(0.267)	(0.267)
JOIIS Level of Violence	-3.98e-05	-1.81e-05	-1.81e-05	-2.42e-05	-3.96e-06	-3.96e-06
	(8.57e-05)	(9.21e-05)	(9.21e-05)	(7.89e-05)	(8.50e-05)	(8.50e-05)
Population Size (Logged)	-2.187	-5.225	-5.225	-1.774	-4.602	-4.602
	(3.221)	(3.211)	(3.211)	(2.966)	(2.962)	(2.962)
Opium Cultivation	-28.57	-19.14	-19.14	-21.54	-12.77	-12.77
	(36.23)	(38.92)	(38.92)	(33.37)	(35.90)	(35.90)
Total Food Aid Expenditure	-0.152**			-0.142**		
	(0.0622)			(0.0573)		
Development Project Number						
Development Expenditure						
Constant	15.26	33.08	33.08	12.51	29.11	29.11
	(20.09)	(20.23)	(20.23)	(18.50)	(18.66)	(18.66)
Observations	68	68	68	68	68	68
Provinces	34	34	34	34	34	34
R-squared	0.300	0.155	0.155	0.287	0.136	0.136

Standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

Appendix Table A8: Level of Government Support and the Rate of Aid Worker Attacks per year, using CIDNE data for Overall Violence, 2008 - 2009

VARIABLES	Model 1 (OLS) DV: Avg. Number Aid Worker Attacks	Model 2 (OLS) DV: Avg. Number Aid Worker Attacks	Model 3 (OLS) DV: Avg. Number Aid Worker Attacks	Model 4 (OLS) DV: Avg. Number Aid Worker Attacks *(Drop cases of looting/robbery)*	Model 5 (OLS) DV: Avg. Number Aid Worker Attacks *(Drop cases of looting/robbery)*	Model 6 (OLS) DV: Avg. Number Aid Worker Attacks *(Drop cases of looting/robbery)*
Karzai Vote Share	0.403	0.454	0.454	0.338	0.385	0.385
	(0.266)	(0.286)	(0.286)	(0.245)	(0.264)	(0.264)
CIDNE Level of Violence	-2.80e-05	7.93e-06	7.93e-06	-1.82e-05	1.52e-05	1.52e-05
	(8.12e-05)	(8.61e-05)	(8.61e-05)	(7.47e-05)	(7.94e-05)	(7.94e-05)
Population Size (Logged)	-2.431	-5.431*	-5.431*	-1.914	-4.704	-4.704
	(3.136)	(3.111)	(3.111)	(2.885)	(2.867)	(2.867)
Opium Cultivation	-28.29	-14.78	-14.78	-21.64	-9.070	-9.070
	(37.84)	(40.38)	(40.38)	(34.81)	(37.22)	(37.22)
Total Food Aid Expenditure	-0.153**			-0.143**		
	(0.0631)			(0.0580)		
Development Project Number						
Development Expenditure						
Constant	16.79	34.36*	34.36*	13.39	29.73	29.73
	(19.56)	(19.62)	(19.62)	(18.00)	(18.08)	(18.08)
Observations	68	68	68	68	68	68
Provinces	34	34	34	34	34	34
R-squared	0.193	0.186	0.171	0.181	0.150	0.171

Standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

Appendix Table A9: Level of Government Support and the Rate of Aid Worker Attacks per year, using iCasualties data on ISAF coalition casualties to measure Overall Violence, 2008 - 2009

VARIABLES	Model 1 (OLS) DV: Avg. Number Aid Worker Attacks	Model 2 (OLS) DV: Avg. Number Aid Worker Attacks	Model 3 (OLS) DV: Avg. Number Aid Worker Attacks	Model 4 (OLS) DV: Avg. Number Aid Worker Attacks *(Drop cases of looting/robbery)*	Model 5 (OLS) DV: Avg. Number Aid Worker Attacks *(Drop cases of looting/robbery)*	Model 6 (OLS) DV: Avg. Number Aid Worker Attacks *(Drop cases of looting/robbery)*
Karzai Vote Share	0.409	0.449	0.449	0.346	0.384	0.384
	(0.265)	(0.285)	(0.285)	(0.244)	(0.263)	(0.263)
iCasualities Level of Violence	-0.000816	-7.87e-05	-7.87e-05	2.81e-05	0.000713	0.000713
	(0.00348)	(0.00373)	(0.00373)	(0.00320)	(0.00344)	(0.00344)
Population Size (Logged)	-2.557	-5.393*	-5.393*	-2.040	-4.676	-4.676
	(3.103)	(3.096)	(3.096)	(2.854)	(2.853)	(2.853)
Opium Cultivation	-26.49	-16.78	-16.78	-17.67	-8.646	-8.646
	(38.03)	(40.76)	(40.76)	(34.98)	(37.55)	(37.55)
Total Food Aid Expenditure	-0.151**			-0.140**		
	(0.0623)			(0.0573)		
Development Project Number						
Development Expenditure						
Constant	17.55	34.13*	34.13*	14.15	29.56	29.56
	(19.37)	(19.53)	(19.53)	(17.82)	(17.99)	(17.99)
Observations	68	68	68	68	68	68
Provinces	34	34	34	34	34	34
R-squared	0.296	0.154	0.154	0.285	0.138	0.138

Standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

Appendix Table A10: Level of Government Support (Karzai Vote Share) and the Rate of Aid Worker Attacks per year across 34 Afghan Provinces, April 2008-December 2011. Negative Binomial Estimation.

VARIABLES	Model 1 (Negative Binomial) DV: Avg. Number Aid Worker Attacks	Model 2 (Negative Binomial) DV: Avg. Number Aid Worker Attacks	Model 3 (Negative Binomial) DV: Avg. Number Aid Worker Attacks	Model 4 (Negative Binomial) DV: Avg. Number Aid Worker Attacks *(Drop cases of looting/robbery)*	Model 5 (Negative Binomial) DV: Avg. Number Aid Worker Attacks *(Drop cases of looting/robbery)*	Model 6 (Negative Binomial) DV: Avg. Number Aid Worker Attacks *(Drop cases of looting/robbery)*
Karzai Vote Share	1.193**	1.264**	1.321**	1.179*	1.342**	1.345**
	(0.594)	(0.622)	(0.620)	(0.604)	(0.629)	(0.637)
Overall Level of Violence	0.00178	0.00154	0.00118	0.00233	0.00177	0.00152
	(0.00257)	(0.00269)	(0.00273)	(0.00252)	(0.00266)	(0.00267)
Population Size (Logged)	0.549***	0.621***	0.679***	0.497***	0.658***	0.663***
	(0.0857)	(0.140)	(0.161)	(0.0923)	(0.140)	(0.158)
Opium Cultivation	-218.5**	-230.7**	-228.6**	-199.8**	-208.3**	-207.5**
	(110.0)	(109.9)	(110.1)	(101.2)	(100.4)	(100.4)
Total Food Aid Expenditure	0.0959			0.0908		
	(0.122)			(0.127)		
Development Project Number		-0.000221			-0.00131	
		(0.00146)			(0.00187)	
Development Expenditure			-3.79e-06			-5.84e-06
			(6.22e-06)			(6.19e-06)
Constant	-5.827***	-5.484***	-5.839***	-5.702***	-5.946***	-5.980***
	(1.219)	(0.953)	(1.051)	(1.368)	(0.926)	(1.027)
Observations	98	98	98	98	98	98
Log pseudolikelihood	-64.4948	-64.6567	-64.6333	-56.9208	-56.9684	-56.9684

Standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

Appendix Table A11: Level of Government Support (Karzai Vote Share) and the Rate of Aid Worker Attacks per year across 34 Afghan Provinces, April 2008-December 2011. Poisson Estimation.

VARIABLES	Model 1 (Poisson) DV: Avg. Number Aid Worker Attacks	Model 2 (Poisson) DV: Avg. Number Aid Worker Attacks	Model 3 (Poisson) DV: Avg. Number Aid Worker Attacks	Model 4 (Poisson) DV: Avg. Number Aid Worker Attacks *(Drop cases of looting/robbery)*	Model 5 (Poisson) DV: Avg. Number Aid Worker Attacks *(Drop cases of looting/robbery)*	Model 6 (Poisson) DV: Avg. Number Aid Worker Attacks *(Drop cases of looting/robbery)*
Karzai Vote Share	1.193**	1.264**	1.321**	1.179*	1.342**	1.345**
	(0.594)	(0.622)	(0.620)	(0.604)	(0.629)	(0.637)
Overall Level of Violence	0.00178	0.00154	0.00118	0.00233	0.00177	0.00152
	(0.00257)	(0.00269)	(0.00273)	(0.00252)	(0.00266)	(0.00267)
Population Size (Logged)	0.549***	0.621***	0.679***	0.497***	0.658***	0.663***
	(0.0857)	(0.140)	(0.161)	(0.0923)	(0.140)	(0.158)
Opium Cultivation	-218.5**	-230.7**	-228.6**	-199.8**	-208.3**	-207.5**
	(110.0)	(109.9)	(110.1)	(101.2)	(100.4)	(100.4)
Total Food Aid Expenditure	0.0959			0.0908	0.0908	
	(0.122)			(0.127)	(0.127)	
Development Project Number		-0.000221			-0.00131	
		(0.00146)			(0.00187)	
Development Expenditure			-3.79e-06			-5.84e-06
			(6.22e-06)			(6.19e-06)
Constant	-5.827***	-5.484***	-5.839***	-5.702***	-5.946***	-5.980***
	(1.219)	(0.953)	(1.051)	(1.368)	(0.926)	(1.027)
Observations	98	98	98	98	98	98
Log pseudolikelihood	-64.4948	-64.6567	-64.6333	-56.9208	-56.9684	-56.9890

Standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

Table A12: Level of Government Support (Karzai Vote Share) and the Rate of Aid Worker Attacks per year across 34 Afghan Provinces, April 2008-November 2011. Two-Stage Residual Inclusion Estimation to address endogeneity

VARIABLES	Model 1 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects*	Model 2 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects*	Model 3 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects*
Karzai Vote Share	0.598***	0.553**	0.544**
	(0.226)	(0.221)	(0.233)
Overall Level of Violence	0.00374	0.00129	0.00164
	(0.00425)	(0.00100)	(0.00102)
Population Size (Logged)	-3.587	-1.844	0.128
	(7.774)	(1.778)	(1.576)
Opium Cultivation	8.978	34.32	41.78
	(70.87)	(28.57)	(29.07)
Total Food Aid	-0.107		
	(0.212)		
Development Project Number		0.00334**	
		(0.00143)	
Development Expenditure			7.27e-06
			(7.92e-06)
Endog. Bias Gov. Support/Aid Attacks	1.637	-5.022***	-3.848**
	(11.31)	(1.885)	(1.886)
Constant	22.48	14.18	1.142
	(44.67)	(10.89)	(9.414)
Observations	136	136	136
Provinces	34	34	34
R-squared	0.187	0.229	0.192

Standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

Note: We first estimated a model using the endogenous variable (the level of civilian support for the Karzai Government, in this case) as the dependent variable, with exogenous regressors to predict civilian support for the Government, including polling data for the percentage of respondents in each district who reported that the security condition is good/excellent, and separately, the ethnic composition across districts. Next, we computed the residuals from this model and then included these in the second-stage model predicting attacks against aid workers. This has the benefit of explicitly testing for endogeneity as well as generating unbiased coefficients for the endogenous regressors (Findley and Young 2011).

Appendix Table A13: Level of Government Support and the Rate of Aid Worker Attacks per year, using Percentage of Population that Voted as an alternative measure of Government Support.

VARIABLES	Model 1 (OLS) DV: Avg. Number Aid Worker Attacks	Model 2 (OLS) DV: Avg. Number Aid Worker Attacks	Model 3 (OLS) DV: Avg. Number Aid Worker Attacks	Model 4 (OLS) DV: Avg. Number Aid Worker Attacks *(Drop cases of looting/robbery)*	Model 5 (OLS) DV: Avg. Number Aid Worker Attacks *(Drop cases of looting/robbery)*	Model 6 (OLS) DV: Avg. Number Aid Worker Attacks *(Drop cases of looting/robbery)*
Percent of Population that Turned out to Vote	1.27e-06*	1.84e-06**	1.26e-06*	1.03e-06	1.36e-06*	1.00e-06
	(7.63e-07)	(7.78e-07)	(7.66e-07)	(6.79e-07)	(7.07e-07)	(6.76e-07)
Overall Level of Violence	0.00338***	0.00323***	0.00301***	0.00292***	0.00274***	0.00256***
	(0.000946)	(0.000920)	(0.000939)	(0.000843)	(0.000837)	(0.000829)
Population Size (Logged)	-1.135	-2.847	-0.520	-1.585	-2.222	-1.072
	(1.524)	(1.742)	(1.467)	(1.357)	(1.584)	(1.295)
Opium Cultivation	19.34	15.81	29.51	12.61	14.14	22.18
	(29.59)	(29.11)	(29.26)	(26.35)	(26.48)	(25.83)
Total Food Aid Expenditure	-0.0638*			-0.0586*		
	(0.0356)			(0.0317)		
Development Project Number		0.00374**			0.00205	
		(0.00147)			(0.00134)	
Development Expenditure			1.21e-05			1.44e-05**
			(7.84e-06)			(6.92e-06)
Constant	7.598	17.64	3.104	10.40	13.81	6.583
	(9.760)	(10.98)	(9.308)	(8.690)	(9.992)	(8.216)
Observations	136	136	136	136	136	136
Provinces	34	34	34	34	34	34
R-squared	0.151	0.178	0.144	0.138	0.129	0.146

Standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

Table A14: Level of Government Support and the Rate of Aid Worker Attacks per year, controlling for the opportunity to attack Aid workers using (1) Road Coverage per Square Kilometer, (2) Bridges per Square Kilometer.

VARIABLES	Model 1 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects*	Model 2 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects*	Model 3 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects*	Model 4 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects (Drop robbery)*	Model 5 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects (Drop robbery)*	Model 6 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects (Drop robbery)*
Karzai Vote Share	0.745***	0.680**	0.649**	0.682***	0.632**	0.579**
	(0.271)	(0.273)	(0.281)	(0.236)	(0.242)	(0.245)
Overall Level of Violence	0.00346***	0.00298***	0.00293***	0.00315***	0.00275***	0.00262***
	(0.000934)	(0.000928)	(0.000947)	(0.000814)	(0.000822)	(0.000825)
Population Size (Logged)	-3.016**	-3.832**	-2.036	-3.435***	-3.140**	-2.527**
	(1.440)	(1.779)	(1.397)	(1.256)	(1.576)	(1.217)
Opium Cultivation	13.83	17.66	25.37	4.986	13.18	15.67
	(30.86)	(31.14)	(31.05)	(26.91)	(27.58)	(27.06)
Total Food Aid	-0.0774**			-0.0720**		
	(0.0352)			(0.0307)		
Development Project Number	-0.457	-0.311	-0.114	-0.626	-0.538	-0.231
	(1.331)	(1.348)	(1.394)	(1.161)	(1.193)	(1.215)
Development Expenditure	0.867	0.590	0.328	1.482	1.342	0.854
	(2.168)	(2.197)	(2.273)	(1.890)	(1.945)	(1.981)
Road Coverage per Sq. Mile		0.00239			0.000834	
		(0.00148)			(0.00131)	
Bridges per Sq. Mile			7.68e-06			9.25e-06
			(8.46e-06)			(7.38e-06)
Constant	19.40**	23.87**	12.59	21.99***	19.54*	15.66**
	(9.133)	(11.16)	(8.766)	(7.964)	(9.883)	(7.640)
Observations	131	131	131	131	131	131
Provinces	33	33	33	33	33	33
R-squared	0.203	0.184	0.168	0.208	0.164	0.175

Standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

Table A15: Level of Government Support and the Rate of Aid Worker Attacks per year, controlling for the presence of foreign military using number of ISAF Bases in each province over time.

VARIABLES	Model 1 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects*	Model 2 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects*	Model 3 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects*	Model 4 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects*	Model 5 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects*	Model 6 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects*
Karzai Vote Share	0.597***	0.496**	0.477**	0.521**	0.450**	0.385*
	(0.225)	(0.227)	(0.235)	(0.200)	(0.204)	(0.207)
Overall Level of Violence	0.00326***	0.00285***	0.00284***	0.00287***	0.00253***	0.00246***
	(0.000906)	(0.000899)	(0.000909)	(0.000805)	(0.000809)	(0.000802)
Population Size (Logged)	-2.576*	-3.553**	-1.728	-2.806**	-2.781*	-2.072*
	(1.403)	(1.739)	(1.360)	(1.246)	(1.564)	(1.200)
Opium Cultivation	4.743	6.385	14.95	-3.300	2.019	6.194
	(34.34)	(34.64)	(34.65)	(30.50)	(31.16)	(30.56)
Total Food Aid	-0.0758**			-0.0687**		
	(0.0352)			(0.0312)		
Development Project Number		0.00248*			0.00106	
		(0.00143)			(0.00129)	
Development Expenditure			8.83e-06			1.18e-05*
			(8.02e-06)			(7.08e-06)
ISAF Base Count	-0.0619	-0.0712	-0.0704	-0.0678	-0.0755	-0.0757
	(0.0835)	(0.0841)	(0.0849)	(0.0742)	(0.0757)	(0.0749)
Constant	17.14*	22.72**	11.22	18.57**	17.90*	13.41*
	(8.984)	(11.00)	(8.637)	(7.979)	(9.897)	(7.618)
Observations	136	136	136	136	136	136
Provinces	34	34	34	34	34	34
R-squared	0.191	0.178	0.163	0.183	0.148	0.166

Standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

Note: Data on ISAF military commands were accessed from the NATO ISAF website (http://www.rs.nato.int/) on November 20 2013, presently the successor NATO Resolute Support website as of January 1, 2015.

Table A16: Level of Government Support and the Rate of Aid Worker Attacks per year, controlling for the Ethnic Composition across provinces using percentage Pashtun

VARIABLES	Model 1 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects*	Model 2 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects*	Model 3 (OLS) DV: Avg. Number Aid Worker Attacks *Fixed Effects*
Karzai Vote Share	0.567**	0.627**	0.627**
	(0.260)	(0.272)	(0.272)
Overall Level of Violence	0.00410**	0.00500**	0.00500**
	(0.00197)	(0.00202)	(0.00202)
Population Size (Logged)	-8.781**	-12.41***	-12.41***
	(4.230)	(4.037)	(4.037)
Opium Cultivation	-42.08	-41.31	-41.31
	(33.34)	(35.10)	(35.10)
Total Food Aid	-0.124*		
	(0.0608)		
Development Project Number			
Development Expenditure			
Percentage *Ethnic Pashtun*	0.0185	-0.246	-0.246
	(0.838)	(0.872)	(0.872)
Constant	56.28**	78.16***	78.16***
	(26.45)	(25.43)	(25.43)
Observations	136	136	136
Provinces	34	34	34
R-squared	0.302	0.302	0.328

Standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

Note: Data on Afghan National Quarterly Assessment Report (ANQAR) household surveys

Codebook
A Strategic Logic of Attacking Aid Workers: Evidence from Violence in Afghanistan, 2008-2012

Dependent Variables

INSOeventavg =
Average monthly number of INSO events reported in the province

totalofVictimsavg =
Average monthly number of victims in attacks on aid workers reported in the province

killedavg =
Average monthly number of individuals killed in attacks on aid workers in the province

INSOeventavg_noRob =
Average monthly number of INSO events reported in the province that did not involve robbery

A note on how I constructed the variable:
INSOeventcounter - TACTICRobbery = number of incidents in the province year that do ***not*** involve robbery ("INSOeventcounter_noRob")

Then, to calculate the average monthly incidents for each province:
INSOeventavg_noRob = INSOeventcounter_noRob/12 for the years 2009-2011
INSOeventavg_noRob = INSOeventcounter_noRob/8 for the year 2008
INSOeventavg_noRob = INSOeventcounter_noRob/9 for the year 2012

Independent Variables

foodaid = "foods dispatched and aid requirement to vulnerable rural population" in metric tons; in 2010-2011 and 2011-2012, listed as "allocation of food aid requirement to vulnerable rural population" in metric tons

From the Afghanistan Central Statistics Organization, Statistical Yearbooks, 2008-2009, 2009-2010, 2010-2011, 2011-2012. Available online at: cso.gov.af
Data are available for 2007-2008, 2008-2009, 2009-2010, and so on. Data for 2007-2008 are listed in the 2008-2009 Yearbook, in the same table as data for 2008-2009. The rest of the data are provided in the corresponding yearbook. For the year 2008, used data from 2007-2008; for the year 2009, used data from 2008-2009; for the year 2010, used data from 2009-2010; for the year 2011, used data from 2010-2011; for the year 2012, used data from 2011-2012.

opiumha = land used for opium cultivation, in hectare acres

From the United Nations Office on Drugs and Crime (UNODC) and Islamic Republic of Afghanistan Ministry of Counter Narcotics, Afghanistan Opium Survey 2011 (December 2011). Data taken from Annex I: Opium Poppy Cultivation Per Province (HA), 2002-2011.

Data for 2012 taken from the United Nations Office on Drugs and Crime (UNODC) and Islamic Republic of Afghanistan Ministry of Counter Narcotics, Afghanistan Opium Survey 2012: Summary Findings (November 2012). Data taken from Table 1: Opium cultivation (2006-2012) and eradication (2011-2012) in Afghanistan (Hectares). Both reports available online at: http://www.unodc.org/unodc/en/crop-monitoring/index.html?tag=Afghanistan

opiumpct = percent of province territory used for opium cultivation (opiumha/areaha).

population = total province population, in thousands

From the Afghanistan Central Statistics Organization, Statistical Yearbooks, 2008-2009, 2009-2010, 2010-2011, 2011-2012. Available online at: cso.gov.af
Data is available for 2008-2009, 2009-2010, and so on. For the year 2008, used data from 2008-2009; for the year 2009, used data from 2009-2010; for the year 2010, used data from 2010-2011; for the years 2011 and 2012, used data from 2011-2012.

Karzai0409_pct=
For year 2008 = percent of the provincial vote received by Karzai in the 2004 presidential election

For years 2009, 2010, 2011 = percent of the provincial vote received by Karzai in the 2009 presidential election

Karzai0409_pct2 =
For years 2008, 2009 = percent of the provincial vote received by Karzai in the 2004 presidential election

For years 2010, 2011 = percent of the provincial vote received by Karzai in the 2009 presidential election

eventcountACLEDavg =
Average monthly number of ACLED events reported in the province

devprojects =
number of NGO development projects in the province

From the Afghanistan Central Statistics Organization, Statistical Yearbooks, 2009-2010, 2010-2011, 2011-2012 (data not provided in the 2008-2009 Yearbook). Data are in the "Donor Assistance" section of the Yearbook, under the table labeled: "Number and Expenditure in Development Projects by Non-Governmental Organization by Sector and Province." Available online at: cso.gov.af

For the years 2008 and 2009, used data from 2009-2010; for the years 2010 and 2011, used data from 2010-2011; for the year 2012, used data from 2011-2012.

devexp =
total expenditure on NGO development projects in the province, in US$

From the Afghanistan Central Statistics Organization, Statistical Yearbooks, 2009-2010, 2010-2011, 2011-2012 (data not provided in the 2008-2009 Yearbook). Data are in the "Donor Assistance" section of the Yearbook, under the table labeled: "Number and Expenditure in Development Projects by Non-Governmental Organization by Sector and Province." Available online at: cso.gov.af

For the years 2008 and 2009, used data from 2009-2010; for the years 2010 and 2011, used data from 2010-2011; for the year 2012, used data from 2011-2012.

devexp2 =
devexp/1000

roadcoverage =
total kilometers of secondary and tertiary roads built per square kilometer of territory in the province

bridges =
total kilometers of secondary and tertiary bridges built per square kilometer of territory in the province

Data on road and bridge construction are from Afghanistan's National Rural Access Program (NRAP) Annual Reports 1387, 1388, 1389, 1390, and 1391 (for the years 2008-2012). Available online at: www.nrap.gov.af

ISAFCommand =
Number of ISAF military installations in the province

Data include airbases, forward operating bases, main operating bases, combat outposts, firebases, and patrol bases. Data are from the NATO ISAF website, available online at: http://www.rs.nato.int/.

percentPashtun =
Percent of the surveyed population reported as Pashtun in the province

Data are from the Afghan National Quarterly Assessment Report (ANQAR) household surveys (Berman, Callen, Felter, and Shapiro 2011).