

# Survey September Analysis

Maksim Zubok

2024-10-07

## Contents

Randomisation Check . . . . .	2
Protest Type Effect on Support of Protesters' Actions . . . . .	3
Authorisation Effect on Support of Protesters' Demands . . . . .	5
Interaction Authorisation and Protest Type on Support Arrests . . . . .	7
Descriptions of Protesters . . . . .	8
Unweighted . . . . .	8
Weighted . . . . .	9
Descriptions of Protests . . . . .	10
Unweighted . . . . .	10
Weighted . . . . .	11
Multiple Imputation . . . . .	12
Interaction Authorisation and Protest Type on Support Arrests . . . . .	12
Descriptions of Protesters (Unweighted) . . . . .	13
Descriptions of Protesters (Weighted) . . . . .	14
Descriptions of Protests (Unweighted) . . . . .	15
Descriptions of Protests (Weighted) . . . . .	16

## Randomisation Check

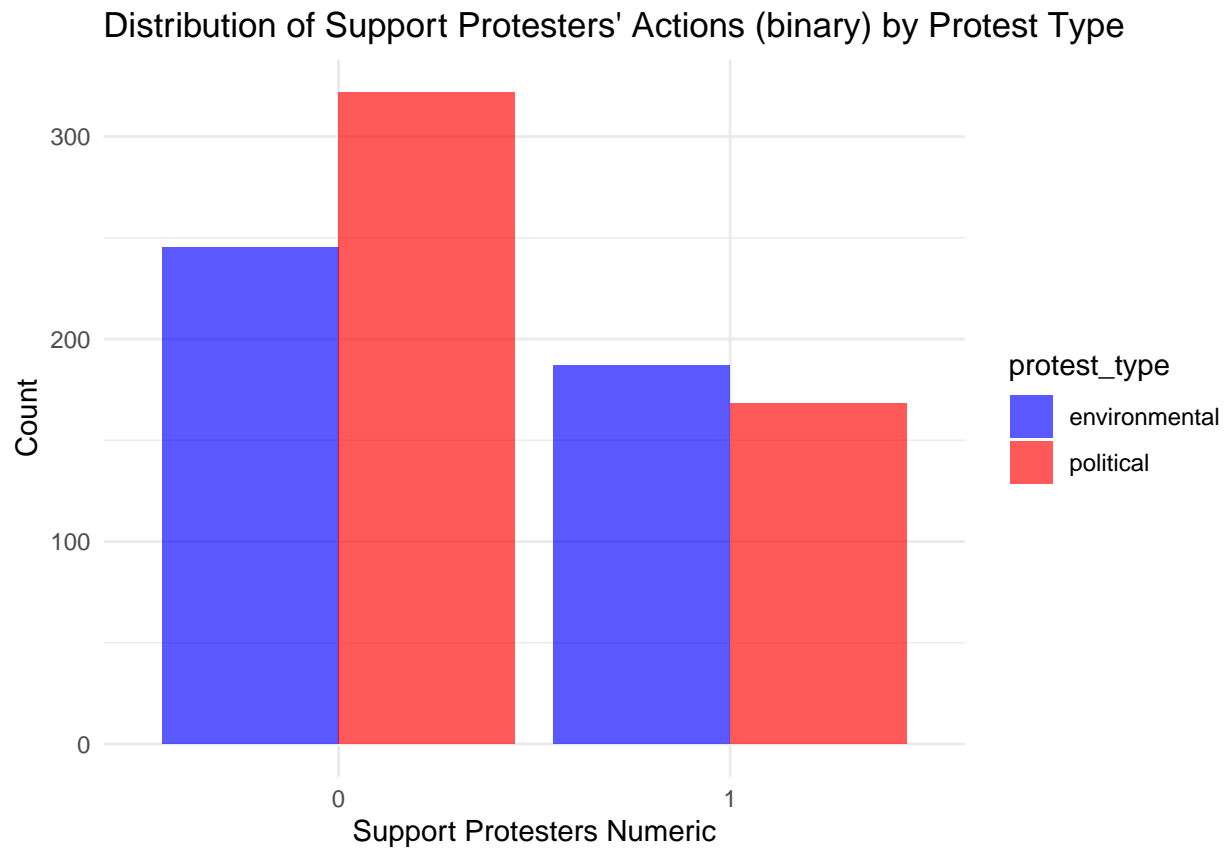
Table 1: Randomisation Check

	<i>Dependent variable:</i>		
	factor(protest_type)	factor(protest_actions)	factor(authorisation)
	(1)	(2)	(3)
age	−0.002 (0.01)	0.004 (0.01)	−0.004 (0.01)
genderWoman	0.12 (0.15)	−0.06 (0.15)	−0.23 (0.15)
university_educationBA+	−0.11 (0.13)	−0.001 (0.13)	0.05 (0.13)
Constant	0.22 (0.27)	−0.05 (0.26)	0.32 (0.27)
Observations	922	922	922
Log Likelihood	−636.22	−637.97	−637.41
Akaike Inf. Crit.	1,280.43	1,283.94	1,282.82

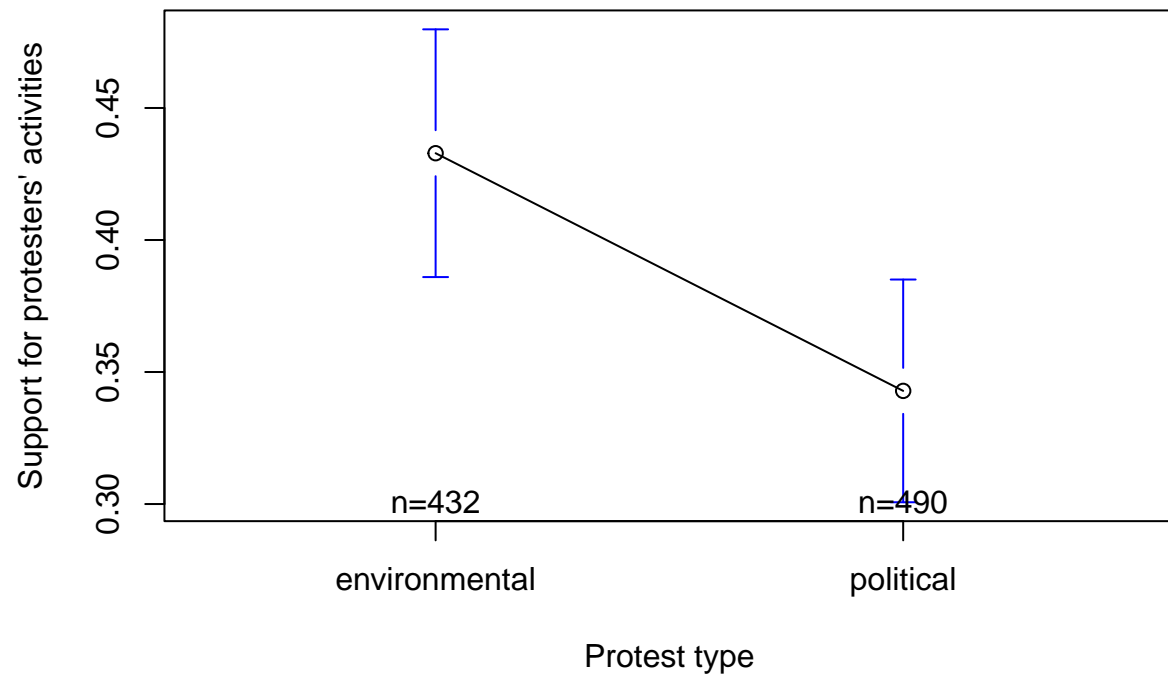
*Note:*

\*p<0.1; \*\*p<0.05; \*\*\*p<0.01

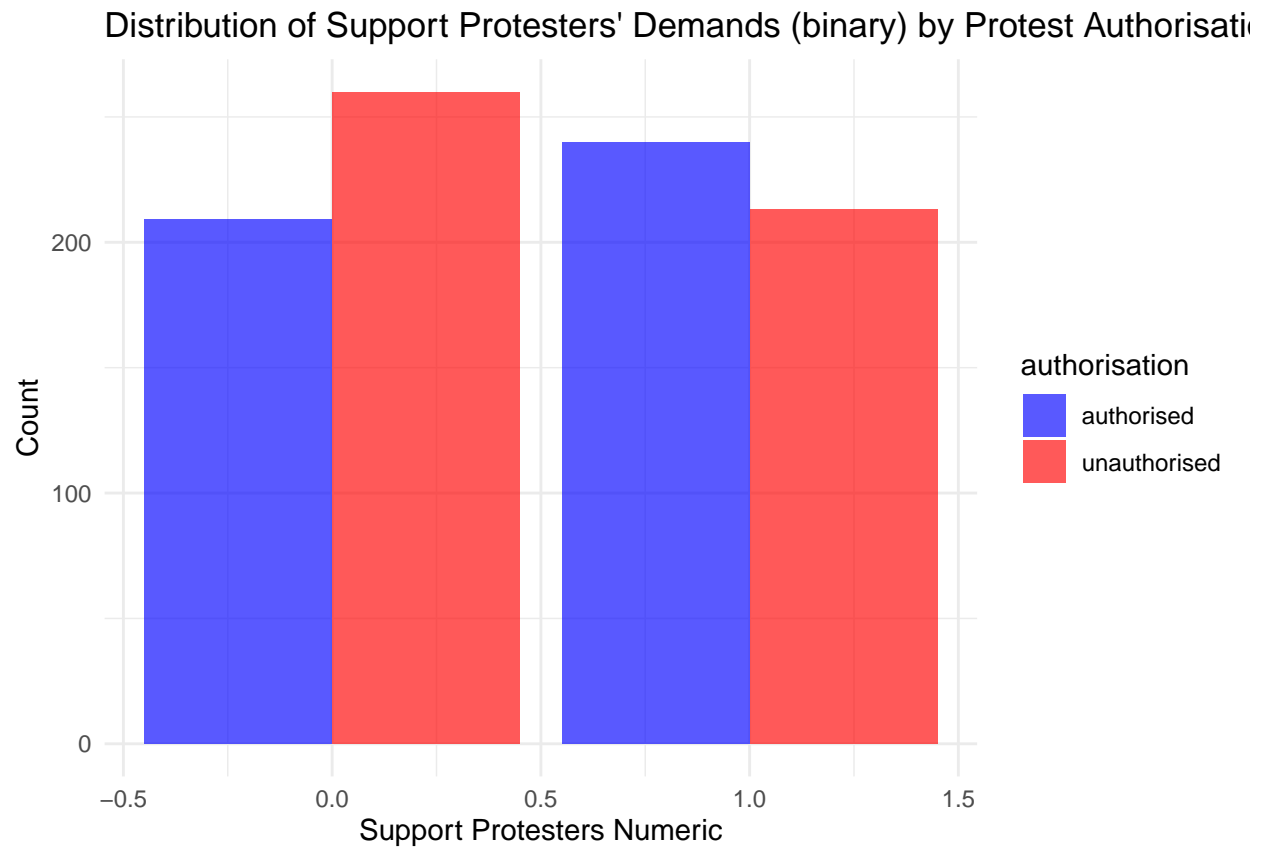
## Protest Type Effect on Support of Protesters' Actions



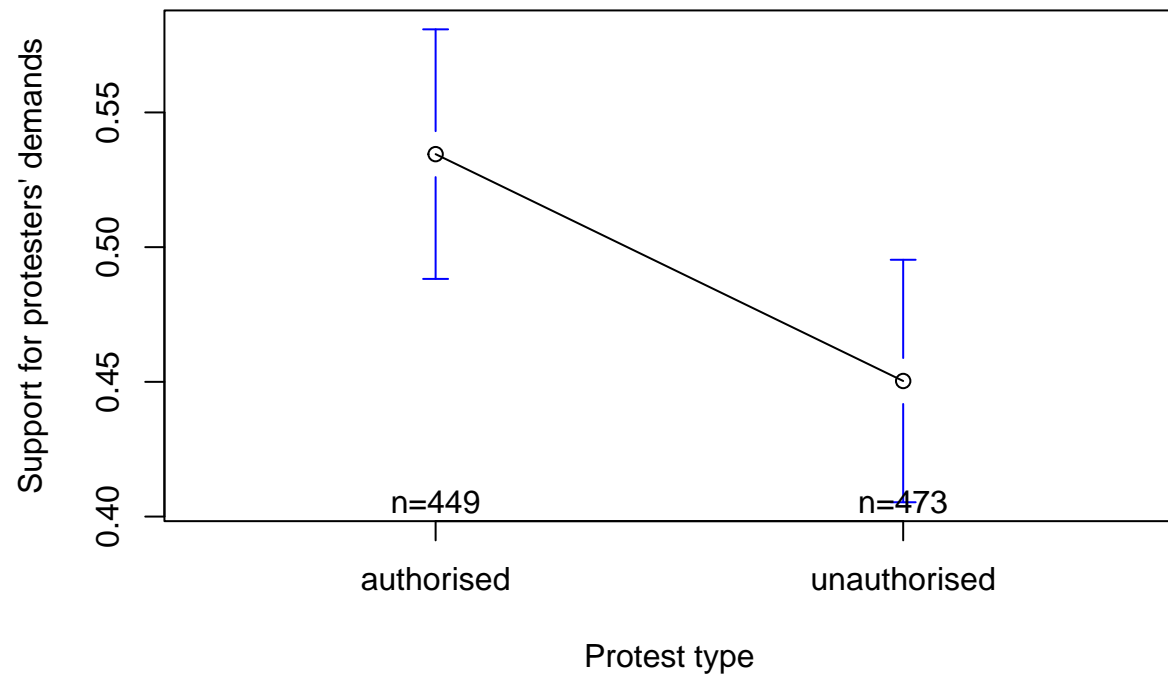
- The variable “support for protesters’ actions” has 196 missing values. **Missing values are treated as disagreement (lack of support).**
- The difference between mean support of protesters actions is 0.0900132 (2.8 standard errors away from zero), which is our effect of interest here.



## Authorisation Effect on Support of Protesters' Demands



- The difference between mean support of protesters actions for authorised vs unauthorised is 0.084204 ( $t=2.56$ ), which is our effect of interest here. Difference in means is significantly different from zero.



## Interaction Authorisation and Protest Type on Support Arrests

- People are more likely to support arrests of protesters when protests are unauthorised.
- Effects for political protest and the interaction between political and authorised are not significant.
- Weighting by population size of key strata (gender x education x age\_group) makes protest type significant and increases magnitude of the effects.

Table 2: Arrests are justified (Linear Prob. Model, Binary Outcome)

	<i>Dependent variable:</i>	
	support arrests	
	(1)	(2)
factor(authorisation)unauthorised	0.10** (0.05)	0.24*** (0.04)
factor(protest_type)political	−0.01 (0.04)	0.08* (0.04)
factor(protest_actions)demonstration	−0.07** (0.03)	−0.16*** (0.03)
factor(authorisation)unauthorised:factor(protest_type)political	0.08 (0.06)	−0.01 (0.06)
Constant	0.32*** (0.04)	0.26*** (0.03)
Observations	922	922
R <sup>2</sup>	0.03	0.09
Adjusted R <sup>2</sup>	0.03	0.09
Residual Std. Error (df = 917)	0.47	0.45
F Statistic (df = 4; 917)	7.95***	23.21***
<i>Note:</i>	*p<0.1; **p<0.05; ***p<0.01	

## Descriptions of Protesters

Unweighted

Table 3: Protesters Described As...(Linear Prob. Model for Binary Outcome)

	<i>Dependent variable:</i>				
	Aggressive	Law Abiding	Trustworthy	Think about Me	Dangerous
	(1)	(2)	(3)	(4)	(5)
authorisation (unauthorised)	0.02 (0.05)	−0.16*** (0.05)	−0.13*** (0.05)	−0.04 (0.05)	0.0004 (0.04)
type (political)	0.09** (0.05)	−0.03 (0.05)	−0.07 (0.05)	−0.06 (0.05)	0.06 (0.04)
actions (demonstation)	−0.12*** (0.03)	0.10*** (0.03)	0.04 (0.03)	0.08** (0.03)	−0.06* (0.03)
auth x type	0.005 (0.06)	0.03 (0.07)	0.02 (0.07)	−0.04 (0.07)	0.03 (0.06)
Constant	0.37*** (0.04)	0.52*** (0.04)	0.53*** (0.04)	0.53*** (0.04)	0.29*** (0.04)
Observations	922	922	922	922	922
R <sup>2</sup>	0.02	0.03	0.02	0.02	0.01
Adjusted R <sup>2</sup>	0.02	0.03	0.02	0.01	0.01
Residual Std. Error (df = 917)	0.48	0.49	0.49	0.50	0.46
F Statistic (df = 4; 917)	5.70***	7.89***	4.94***	4.00***	2.84**

*Note:*

\*p<0.1; \*\*p<0.05; \*\*\*p<0.01



Table 4: Protesters Described As...(Linear Prob. Model for Binary Outcome. Weighted)

	<i>Dependent variable:</i>				
	Aggressive	Law Abiding	Trustworthy	Think about Me	Dangerous
	(1)	(2)	(3)	(4)	(5)
authorisation (unauthorised)	0.04 (0.04)	-0.15*** (0.05)	-0.17*** (0.05)	-0.07 (0.04)	-0.05 (0.04)
type (political)	0.22*** (0.04)	-0.12** (0.05)	-0.18*** (0.05)	-0.20*** (0.05)	0.10** (0.04)
actions (demonstation)	-0.07** (0.03)	0.07** (0.03)	0.09*** (0.03)	0.15*** (0.03)	-0.04 (0.03)
auth x type	-0.03 (0.06)	-0.04 (0.07)	0.03 (0.07)	-0.07 (0.06)	0.08 (0.06)
Constant	0.27*** (0.04)	0.60*** (0.04)	0.59*** (0.04)	0.60*** (0.04)	0.28*** (0.03)
Observations	922	922	922	922	922
R <sup>2</sup>	0.05	0.05	0.05	0.09	0.03
Adjusted R <sup>2</sup>	0.05	0.04	0.05	0.08	0.02
Residual Std. Error (df = 917)	0.47	0.49	0.49	0.48	0.45
F Statistic (df = 4; 917)	12.16***	11.14***	12.36***	21.66***	6.89***

*Note:*

\*p&lt;0.1; \*\*p&lt;0.05; \*\*\*p&lt;0.01

## Descriptions of Protests

### Unweighted

Table 5: Protest Described As...(Linear Prob. Model for Binary Outcome))

	<i>Dependent variable:</i>		
	Violent	Law-Abiding	Lifethreatening
	(1)	(2)	(3)
authorisation (unauthorised)	−0.05 (0.04)	−0.29*** (0.04)	−0.002 (0.05)
type (political)	0.01 (0.04)	−0.02 (0.04)	0.002 (0.04)
actions (demonstation)	−0.09*** (0.02)	0.14*** (0.03)	−0.14*** (0.03)
auth x type	0.13*** (0.05)	−0.02 (0.06)	0.17*** (0.06)
Constant	0.21*** (0.03)	0.47*** (0.04)	0.40*** (0.04)
Observations	922	922	922
R <sup>2</sup>	0.03	0.12	0.05
Adjusted R <sup>2</sup>	0.03	0.12	0.04
Residual Std. Error (df = 917)	0.38	0.46	0.47
F Statistic (df = 4; 917)	7.89***	32.04***	11.66***

*Note:*

\*p<0.1; \*\*p<0.05; \*\*\*p<0.01

## Weighted

Table 6: Protest Described As...(Linear Prob. Model for Binary Outcome. Weighted)

	<i>Dependent variable:</i>		
	Violent	Law-Abiding	Lifethreatening
	(1)	(2)	(3)
authorisation (unauthorised)	−0.02 (0.03)	−0.26*** (0.04)	0.08* (0.04)
type (political)	0.06 (0.03)	−0.12*** (0.04)	0.06 (0.04)
actions (demonstation)	−0.07*** (0.02)	0.13*** (0.03)	−0.09*** (0.03)
auth x type	0.10** (0.05)	−0.12* (0.06)	0.16*** (0.06)
Constant	0.15*** (0.03)	0.58*** (0.03)	0.30*** (0.04)
Observations	922	922	922
R <sup>2</sup>	0.04	0.15	0.06
Adjusted R <sup>2</sup>	0.04	0.14	0.06
Residual Std. Error (df = 917)	0.35	0.46	0.46
F Statistic (df = 4; 917)	9.38***	39.04***	15.07***

*Note:*

\*p<0.1; \*\*p<0.05; \*\*\*p<0.01

## Multiple Imputation

- We impute missing values via multiple imputation, with the `mice` package. We use default parameter specification for imputation: `five datasets` and `10 iterations`. We work with the binary version of the variables, where all “refuse” and “do not know” replies are taken as NA and are imputed.
- Imputation results align with the no imputation results

## Interaction Authorisation and Protest Type on Support Arrests

Term	Unweighted	Weighted
authorisation (unauthorised)	0.05 [0.06; 0.77]	0.23 [0.08; 2.81]
protest type (political)	-0.03 [0.05; -0.62]	0.07 [0.06; 1.07]
protest actions (demonstration)	-0.1 [0.03; -2.89]	-0.15 [0.04; -3.84]
authorisation * protest type	0.13 [0.08; 1.7]	0 [0.09; 0]
Note: Estimates are displayed as Estimate [SE; t-value].		

Table 7: Pooled Results for Support for Arrests

### Descriptions of Protesters (Unweighted)

Term	aggressive	law_abiding	trustworthy	think_about_me	dangerous
authorisation (unauthorised)	0.01 [0.05; 0.28]	-0.2 [0.05; -4.22]	-0.16 [0.05; -3.24]	-0.11 [0.05; -2.18]	-0.03 [0.05; -0.53]
protest type (political)	0.04 [0.05; 0.76]	-0.07 [0.05; -1.51]	-0.08 [0.05; -1.53]	-0.07 [0.05; -1.6]	0.03 [0.05; 0.55]
protest actions (demonstration)	-0.12 [0.04; -3.4]	0.1 [0.03; 2.96]	0.07 [0.03; 2.08]	0.07 [0.04; 1.76]	-0.08 [0.03; -2.39]
authorisation * protest type	0.06 [0.07; 0.86]	0.07 [0.07; 0.96]	0.06 [0.07; 0.85]	0.02 [0.07; 0.36]	0.07 [0.07; 0.98]
Note: Estimates are displayed as Estimate [SE; t-value].					

Table 8: Pooled Results for Descriptions of Protesters (Unweighted)

## Descriptions of Protesters (Weighted)

Term	aggressive	law_abiding	trustworthy	think_about_me	dangerous
authorisation (unauthorised)	0.01 [0.04; 0.26]	-0.18 [0.05; -3.71]	-0.18 [0.05; -3.93]	-0.08 [0.05; -1.61]	-0.09 [0.05; -1.85]
protest type (political)	0.19 [0.05; 3.99]	-0.13 [0.05; -2.4]	-0.14 [0.06; -2.53]	-0.14 [0.05; -2.9]	0.08 [0.05; 1.52]
protest actions (demonstration)	-0.1 [0.03; -3.06]	0.07 [0.03; 2.17]	0.09 [0.04; 2.42]	0.13 [0.04; 3.43]	-0.07 [0.04; -2.11]
authorisation * protest type	0.04 [0.07; 0.6]	-0.02 [0.07; -0.24]	0.04 [0.07; 0.63]	-0.1 [0.07; -1.38]	0.14 [0.06; 2.17]
Note: Estimates are displayed as Estimate [SE; t-value].					

Table 9: Pooled Results for Descriptions of Protesters (Weighted)

## Descriptions of Protests (Unweighted)

Term	is_violent	is_lawabiding	is_lifethreatening
authorisation (unauthorised)	-0.05 [0.04; -1.26]	-0.3 [0.05; -6.09]	0.02 [0.05; 0.4]
protest type (political)	-0.01 [0.04; -0.17]	-0.04 [0.05; -0.76]	0 [0.05; -0.08]
protest actions (demonstration)	-0.11 [0.03; -3.92]	0.13 [0.04; 3.79]	-0.15 [0.03; -4.65]
authorisation * protest type	0.14 [0.06; 2.53]	-0.03 [0.07; -0.51]	0.15 [0.07; 2.06]
Note: Estimates are displayed as Estimate [SE; t-value].			

Table 10: Pooled Results for Descriptions of Protests (Weighted)

### Descriptions of Protests (Weighted)

Term	is_violent	is_lawabiding	is_lifethreatening
authorisation (unauthorised)	-0.02 [0.05; -0.49]	-0.29 [0.05; -5.94]	0.08 [0.06; 1.53]
protest type (political)	0.05 [0.05; 0.98]	-0.15 [0.05; -2.9]	0.06 [0.05; 1.17]
protest actions (demonstration)	-0.1 [0.03; -3.67]	0.11 [0.04; 3.03]	-0.11 [0.03; -3.18]
authorisation * protest type	0.13 [0.06; 2.04]	-0.13 [0.07; -1.9]	0.16 [0.07; 2.32]
Note: Estimates are displayed as Estimate [SE; t-value].			

Table 11: Pooled Results for Descriptions of Protests (Weighted)