

Supplement to:

Martin, Isaac W., and Jennifer M. Nations. 2018. "Taxation and Citizen Voice in School District Parcel Tax Elections." Sociological Science 5: 653-668.

Appendix to Taxation and Citizen Voice in School District Parcel Tax Elections Isaac William Martin Jennifer Nations

Table A-1. Descriptive statistics for dependent variables, policy design features, and district-level covariates, in our sample of California parcel tax ballot measures

	All district	s with more			
	than one parcel tax		All districts with at least		
		measure	one parcel tax measure		
Variable	Mean	Std. Dev.	Mean	Std. Dev.	
Ballot measure features					
Affirmative vote share (53.9 to					
88.1)	70.0	7.4	67.8	9.1	
Measure passed? (1=yes)	0.67	0.47	0.59	0.49	
Indirect consultation (1=					
oversight board)	0.43	0.50	0.46	0.50	
Direct Consultation (1 = sunset					
within 5 years)	0.37	0.48	0.41	0.49	
Direct Consultation (1 = sunset					
after ≥ 6 years)	0.51	0.50	0.47	0.50	
Rate of tax (log USD, 2.49 to					
7.57)	4.77	0.82	4.71	0.78	
Continues previous tax increase					
(1=yes)	0.44	0.50	0.35	0.48	
Exempts elderly (1=yes)	0.87	0.34	0.86	0.35	
Contextual factors					
Black students, as share of					
enrolled students (0 to 44.6)	3.9	6.5	4.3	7.4	
Hispanic students, as share of					
enrolled students (0.6 to 77.7)	15.3	14.1	19.6	18.6	
District homeownership rate					
(35.7 to 92. 4)	66.8	12.7	66.1	12.9	
Log Per Capita Inter-					
governmental Revenue (0.01 to					
1.23)	0.34	0.22	0.39	0.25	
N measures	236		301		
N districts	83		145		

 $Table \ A-2. \ Descriptive \ statistics \ for \ district \ covariates, \ over \ all \ years \ with \ nonmissing \ observations, \ 1997-2010$

	All	districts	with observed covariates	All dis		ith at least one el tax measure	All di		th more than one arcel tax measure
Descriptive Statistic	Mean	<u>S.D.</u>	Range	Mean	<u>S.D.</u>	Range	Mean	<u>S.D.</u>	Range
Black students, as share of enrolled students	3.7	6.0	[0, 76.9]	5.0	8.3	[0, 76.9]	3.8	6.5	[0, 50.9]
Hispanic students, as share of enrolled students	35.6	27.5	[0.3, 100]	23.2	20.3	[0.7, 89.4]	15.8	14.3	[0.6, 79.0]
District homeownership rate	65.0	13.1	[5.3, 100]	65.9	12.5	[35.0, 94.6]	67.4	11.8	[35.0, 92.4]
Intergovernmental revenue, ln USD per capita	0.59	0.32	[0, 4.80]	0.41	0.25	[0, 2.38]	0.33	0.21	[0, 1.39]
Budget shortfall, sinh ⁻¹ USD	0.11	3.28	[-5.87, 6.32]	0.75	3.52	[-5.87, 6.32]	0.85	3.43	[-5.23, 5.23]
Enrollment, In students	7.39	1.84	[1.39, 13.52]	8.07	1.58	[3.40, 13.53]	7.83	1.30	[3.40, 10.92]
N districts	919			301			236		
N district – years observed	12,200			2,038			1,177		

Table A-3. Affirmative vote share and passage rate as functions of ballot features and controls: Correlated random effects models, within-district components (N=236)

	Share of vote affirmative	Passage
Ballot features		
Indirect Consultation, $1 = yes$	3.71 (1.37)*	0.31 (0.09)**
Direct Consultation , 1 = sunset within 5 years	5.69 (1.74)**	0.32 (0.13)*
Direct Consultation, $1 = \text{sunset after} \ge 6$ years	1.49 (1.65)	0.14 (0.12)
Continues previous tax increase, $1 = yes$,	5.79 (1.23)**	0.12 (0.10)
Elderly Exemption, $1 = yes$	2.96 (2.58)	0.44 (0.18)*
Rate of tax, ln USD	-2.48 (1.94)	-0.21 (0.10)*
Contextual factors		
Black students, as share of enrolled students	0.23 (0.23)	0.03 (0.02)
Hispanic students, as share of enrolled students	0.20 (0.15)	0.01 (0.01)
District homeownership rate	0.85 (0.21)**	0.06 (0.02)*
Intergovernmental revenue, ln USD per capita	8.07 (4.18)	0.31 (0.25)
Sample selection adjustment		
Estimated nonselection hazard	-1.64 (4.23)	-0.26 (0.30)
Within-district R ²	0.38	0.28

p-value: **.005 *.05

Standard errors in parentheses.

Models include year-specific intercepts and between-district components omitted from this table.

Table A-4. Summary of coefficients and fit statistics from cross-sectional probit models of ballot selection used to predict non-selection hazard (N=14 models)

	Avg.			
	Coeff.	Std. Dev.	Min	Max
Longitudinal component (de-meaned)				
Black students, as share of enrolled				
students	-0.04	0.13	-0.33	0.18
Hispanic students, as share of enrolled				
students	-0.01	0.04	-0.13	0.06
District homeownership rate	0.33	0.75	-0.69	1.85
Intergovernmental revenue, ln USD per				
capita	-1.46	4.38	-14.03	3.33
Budget shortfall, sinh ⁻¹ USD	-0.01	0.06	-0.13	0.09
Enrollment, In students	-0.22	1.56	-2.55	3.80
Cross-sectional component (group mean)				
Black students, as share of enrolled				
students	-0.02	0.06	-0.18	0.04
Hispanic students, as share of enrolled				
students	-0.03	0.02	-0.07	0.00
District homeownership rate	-0.01	0.02	-0.03	0.03
Intergovernmental revenue, ln USD per				
capita	-2.36	2.22	-9.69	-0.75
Budget shortfall, sinh ⁻¹ USD	0.13	0.12	-0.06	0.29
Enrollment, In students	0.17	0.11	-0.05	0.38
McKelvey and Zavoina's pseudo-R ²	0.61	0.13	0.41	0.91

Table A-5. Affirmative vote share and passage rate as functions of ballot features and controls: Fixed effects models (N=236)

	Share of vote affirmative	Passage
Ballot features		
Indirect Consultation, 1 = yes	3.62 (1.34)*	0.30 (0.09)**
Direct Consultation , 1 = sunset within 5 years	5.33 (1.71)**	0.28 (0.13)*
Direct Consultation, $1 = \text{sunset after} \ge 6$ years	1.28 (1.66)	0.12 (0.12)
Continues previous tax increase, $1 = yes$,	5.61 (1.18)**	0.09(0.09)
Elderly Exemption, 1 = yes	2.98 (2.64)	0.44 (0.19)*
Rate of tax, ln USD	-2.59 (1.87)	-0.22 (0.09)*
Contextual factors		
Black students, share of enrolled students	0.39 (0.21)	0.05 (0.02)*
Hispanic students, share of enrolled students	0.22 (0.14)	0.02 (0.01)
District homeownership rate	0.64 (0.38)**	0.04 (0.02)*
Intergovernmental revenue, ln USD per capita	8.45 (4.87)	0.32 (0.33)
Within-district R ²	0.38	0.29

p-value: **.005 *.05

Standard errors in parentheses.

Models include year-specific intercepts omitted from this table.

Table A-6. Sensitivity analysis: Affirmative vote share and passage rate as functions of ballot features and controls including temporal sequence, fixed-effects models (N=236)

	Share of vote affirmative	<u>Passage</u>
Ballot features		
Indirect Consultation, $1 = yes$	3.54 (1.29)**	0.30 (0.09)**
Direct Consultation , $1 = \text{sunset within 5 years}$	5.59 (1.77)**	0.29 (0.13)*
Direct Consultation, $1 = \text{sunset after} \ge 6 \text{ years}$	1.39 (1.70)	0.12 (0.12)
Continues previous tax increase, $1 = yes$,	5.53 (1.20)**	0.09 (0.09)
Exempts elderly, $1 = yes$	2.78 (2.59)	0.43 (0.18)*
Rate of tax, ln USD	-2.37 (1.88)	-0.21 (0.10)
First ballot measure in district, 1= yes	-1.78 (0.87)*	-0.08 (0.09)
Contextual factors		
Black students, share of enrolled students	0.36 (0.20)	0.05 (0.02)*
Hispanic students, share of enrolled students	0.17 (0.15)	0.02 (0.01)
District homeownership rate	0.62 (.40)	0.04 (0.02)*
Intergovernmental revenue, ln USD per capita	8.42 (4.91)	0.32 (0.32)
Within R-sq.	0.39	0.29

p-value: **.005 *.05

Standard errors in parentheses.

Models include year-specific intercepts omitted from this table.

Table A-7. Sensitivity analysis: Affirmative vote share and passage rate as functions of ballot features and controls including temporal sequence, correlated random-effects models, within-district components only (N=236)

	Share of vote affirmative	Passage
Ballot features		
Indirect Consultation, $1 = yes$	3.58 (1.34)**	0.31 (.09)**
Direct Consultation, $1 = sunset$	5.87 (1.78)**	0.32 (0.14)*
within 5 years		
Direct Consultation, $1 = \text{sunset}$	1.54 (1.69)	0.14 (0.12)
after \geq 6 years		
Continues previous tax increase,	5.64 (1.25)**	0.12 (0.10)
1 = yes,		
Elderly Exemption, $1 = yes$	2.81 (2.56)	0.43 (0.18)*
Rate of tax, ln USD	-2.39 (1.96)	-0.21 (0.10)*
Contextual factors		
Black students, share of enrolled	0.21 (0.23)	0.03 (0.02)
students		
Hispanic students, share of enrolled students	0.17 (0.16)	0.01 (0.01)
District homeownership rate	0.82 (.20)**	0.06 (0.02)*
Intergovernmental revenue, ln USD per	8.28 (4.27)	0.32 (0.25)
capita		
First district-year of proposed	-1.37 (0.85)	-0.04 (0.07)
tax increase, 1= yes		
Sample selection adjustment		
Estimated nonselection hazard	-1.35 (4.09)	-0.25 (0.29)
Within-district R ²	0.38	0.28

p-value **.005 *.05

Standard errors in parentheses.

Models include year-specific intercepts and between-district components, omitted from this table.

Table A-8. Passage rate as a function of ballot features and controls: Correlated random effects logistic regression model, within-district components only (N=229)

	Passage
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Ballot features	
Indirect Consultation, $1 = yes$	3.46 (1.26)*
Direct Consultation , $1 = \text{sunset within 5}$	4.19 (1.54)*
years	
Direct Consultation, $1 = \text{sunset after} \ge 6$	2.64 (1.16)
vears	
Continues previous tax increase, $1 = yes$,	1.55 (0.88)
Elderly exemption, $1 = yes$	6.07 (2.10)**
Rate of tax, ln USD	-2.62 (1.00)*
Contextual factors	()
Black students, as share of enrolled	0.55 (0.30)
students	0.55 (0.50)
Hispanic students, as share of enrolled	0.16 (0.09)
students	0.10 (0.07)
	0.62 (0.54)*
District homeownership rate	0.63 (0.54)*
Intergovernmental revenue, ln USD per	3.63 (3.41)
capita	
1 ** 005 * 05	

p-value **.005 *.05

Standard errors in parentheses.

Models include year-specific intercepts omitted from this table.

Seven observations for 1998 are perfectly predicted and are dropped from the model.