

Online Appendix: Exploring the Influence of Tribal
Governance Capacity: Evidence from Internet
Availability in Indian Country

1 Regression Models

Table A1: Effect of Indian Country on Internet Availability at All Thresholds (No Covariates)

<i>Panel A</i>				
Cable Internet Availability				
	10km	5km	2.5km	1km
IC	-0.177*** (0.039)	-0.169*** (0.041)	-0.125*** (0.032)	-0.083*** (0.019)
IC × California	0.165*** (0.039)	0.167*** (0.040)	0.124*** (0.032)	0.083*** (0.019)
IC × OTSA	-0.029 (0.087)	0.012 (0.092)	0.097 (0.089)	0.195 (0.140)
Adjusted R ²	0.602	0.608	0.621	0.639
<i>Panel B</i>				
Fixed Wireless Internet Availability				
IC	-0.012 (0.021)	0.003 (0.014)	0.004 (0.011)	0.005 (0.008)
IC × California	0.011 (0.020)	-0.003 (0.014)	-0.004 (0.011)	-0.005 (0.008)
IC × OTSA	0.027 (0.052)	0.004 (0.057)	0.026 (0.031)	0.052 (0.039)
Adjusted R ²	0.568	0.584	0.626	0.649
Observations	2,900,326	1,272,491	546,227	169,972
Census Blocks	263,666	115,681	49,657	15,452
Geographic Areas	353	348	333	289

All models include geographic area and time period fixed effects.

Standard errors are clustered by geographic area.

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

Table A2: Effect of Indian Country on Cable Availability at All Thresholds (Including Covariates and Interactions)

	<i>Dependent variable:</i>			
	Cable Internet Availability			
	10km	5km	2.5km	1km
IC	-0.103*** (0.024)	-0.106*** (0.025)	-0.080*** (0.024)	-0.062*** (0.016)
IC × California	0.128*** (0.026)	0.132*** (0.029)	0.102*** (0.026)	0.072*** (0.017)
IC × OTSA	0.011 (0.070)	0.027 (0.078)	0.099 (0.094)	0.196 (0.136)
Population (ln)	0.041*** (0.004)	0.036*** (0.005)	0.037*** (0.006)	0.034*** (0.008)
Households (ln)	0.041*** (0.006)	0.047*** (0.008)	0.044*** (0.009)	0.045*** (0.013)
Area (ln)	-0.048*** (0.004)	-0.045*** (0.004)	-0.039*** (0.004)	-0.032*** (0.005)
Ruggedness (ln)	0.003 (0.005)	-0.0003 (0.007)	-0.005 (0.009)	-0.002 (0.015)
5k City Dist. (ln)	-0.075*** (0.011)	-0.049*** (0.014)	-0.054** (0.019)	-0.069** (0.025)
10k City Dist. (ln)	-0.011 (0.012)	-0.032* (0.017)	-0.019 (0.022)	0.005 (0.028)
50k City Dist. (ln)	0.040 (0.022)	0.076** (0.033)	0.043** (0.017)	-0.0004 (0.023)
100k City Dist. (ln)	-0.040 (0.025)	-0.081* (0.036)	-0.082* (0.037)	-0.101* (0.052)
Observations	2,898,797	1,271,809	545,996	169,939
Adjusted R ²	0.692	0.683	0.685	0.689

All models include geographic area and time period fixed effects.
Standard errors are clustered by geographic area.

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

Table A3: Effect of Indian Country on Fixed Wireless Availability at All Thresholds (Including Covariates)

	<i>Dependent variable:</i>			
	Fixed Wireless Internet Availability			
	10km	5km	2.5km	1km
IC	-0.012 (0.020)	0.003 (0.014)	0.004 (0.012)	0.006 (0.008)
IC × California	0.018 (0.020)	-0.005 (0.014)	-0.004 (0.012)	-0.0003 (0.009)
IC × OTSA	0.027 (0.052)	-0.017 (0.061)	0.015 (0.025)	0.049 (0.039)
Population (ln)	0.007 (0.004)	0.004 (0.005)	0.007 (0.004)	0.010 (0.005)
Households (ln)	-0.005 (0.005)	-0.001 (0.006)	-0.009** (0.004)	-0.013* (0.007)
Area (ln)	0.005* (0.002)	0.004 (0.003)	0.009*** (0.002)	0.005* (0.003)
Ruggedness (ln)	-0.002 (0.006)	-0.002 (0.007)	-0.007 (0.006)	-0.009 (0.008)
5k City Dist. (ln)	0.033** (0.012)	0.040** (0.015)	0.029* (0.013)	0.015 (0.018)
10k City Dist. (ln)	-0.058*** (0.017)	-0.056** (0.018)	-0.042** (0.016)	-0.045 (0.025)
50k City Dist. (ln)	0.053 (0.032)	0.075 (0.043)	0.045 (0.032)	0.022 (0.027)
100k City Dist. (ln)	-0.037 (0.037)	-0.056 (0.050)	-0.059 (0.050)	-0.031 (0.051)
Observations	2,898,797	1,271,809	545,996	169,939
Adjusted R ²	0.574	0.591	0.630	0.652

All models include geographic area and time period fixed effects.
Standard errors are clustered by geographic area.

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

Table A4: Governance Capacity Models at 1km (All Variables Listed)

	<i>Dependent variable:</i>			
	Cable Internet Available			
	Casino	BIA	Self-Gov	REFI
IC	-0.031 (0.019)	-0.001 (0.152)	-0.089*** (0.019)	-0.006 (0.139)
IC × California	0.068*** (0.017)	0.069*** (0.018)	0.084*** (0.019)	0.085*** (0.023)
IC × OTSA	0.199 (0.136)	0.183 (0.122)	0.158 (0.122)	
IC × Casino	-0.034 (0.021)			
BIA Funding per capita (ln)		-0.009 (0.014)		
IC × BIA Funding per capita (ln)		-0.008 (0.021)		
Self-Governance			-0.039*** (0.010)	
IC × Self-Governance			0.103*** (0.032)	
IC × REFI				-0.009 (0.018)
Population (ln)	0.034*** (0.008)	0.034*** (0.008)	0.034*** (0.008)	0.042*** (0.011)
Households (ln)	0.045*** (0.013)	0.046*** (0.013)	0.046*** (0.013)	0.039** (0.017)
Area (ln)	-0.032*** (0.005)	-0.032*** (0.005)	-0.032*** (0.005)	-0.043*** (0.008)
Ruggedness (ln)	-0.003 (0.015)	-0.002 (0.015)	-0.002 (0.015)	-0.001 (0.023)

5k City Dist. (ln)	-0.062** (0.022)	-0.060** (0.022)	-0.060** (0.021)	-0.061 (0.038)
10k City Dist. (ln)	0.003 (0.026)	0.002 (0.026)	0.002 (0.026)	0.024 (0.040)
50k City Dist. (ln)	0.001 (0.022)	0.001 (0.022)	0.001 (0.022)	0.016 (0.012)
100k City Dist. (ln)	-0.100* (0.051)	-0.100* (0.051)	-0.101* (0.050)	-0.059 (0.076)
Observations	169,939	167,570	169,939	81,972
Census Blocks	15,449	15,389	15,449	7,452
Geographic Areas	289	286	289	83
Adjusted R ²	0.689	0.695	0.690	0.718

All models include geographic area and time period fixed effects.

Standard errors are clustered by geographic area.

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

Table A5: Governance Capacity Models at 10km (All Variables Listed)

	<i>Dependent variable:</i>			
	Cable Internet Available			
	Casino	BIA	Self-Gov	REFI
IC	-0.099** (0.032)	-0.171 (0.235)	-0.140*** (0.027)	-0.139 (0.195)
IC × California	0.131*** (0.029)	0.127*** (0.032)	0.146*** (0.030)	0.136** (0.043)
IC × OTSA	0.011 (0.072)	0.025 (0.070)	-0.051 (0.057)	
IC × Casino	-0.006 (0.039)			
BIA Funding per capita (ln)		-0.004		

			(0.005)	
IC ×			0.010	
BIA Funding per capita (ln)			(0.033)	
Self-Governance			−0.015***	
			(0.003)	
IC × Self-Governance			0.141**	
			(0.047)	
IC × REFI				0.004
				(0.026)
Population (ln)	0.042***	0.042***	0.042***	0.044***
	(0.004)	(0.005)	(0.004)	(0.006)
Households (ln)	0.042***	0.043***	0.042***	0.042***
	(0.006)	(0.006)	(0.006)	(0.011)
Area (ln)	−0.049***	−0.049***	−0.049***	−0.051***
	(0.004)	(0.004)	(0.004)	(0.005)
Ruggedness (ln)	0.002	0.003	0.003	0.004
	(0.005)	(0.005)	(0.005)	(0.008)
5k City Dist. (ln)	−0.068***	−0.068***	−0.067***	−0.083***
	(0.010)	(0.010)	(0.010)	(0.017)
10k City Dist. (ln)	−0.011	−0.011	−0.011	0.011
	(0.012)	(0.012)	(0.012)	(0.019)
50k City Dist. (ln)	0.038	0.037	0.036	0.014
	(0.021)	(0.021)	(0.021)	(0.016)
100k City Dist. (ln)	−0.039	−0.039	−0.037	0.013
	(0.024)	(0.025)	(0.024)	(0.020)
Observations	2,898,797	2,839,864	2,898,797	1,228,975
Adjusted R ²	0.691	0.688	0.692	0.698

All models include geographic area and time period fixed effects.

Standard errors are clustered by geographic area.

* $p < 0.1$; ** $p < 0.05$; *** $p < 0.01$

2 Data Figures

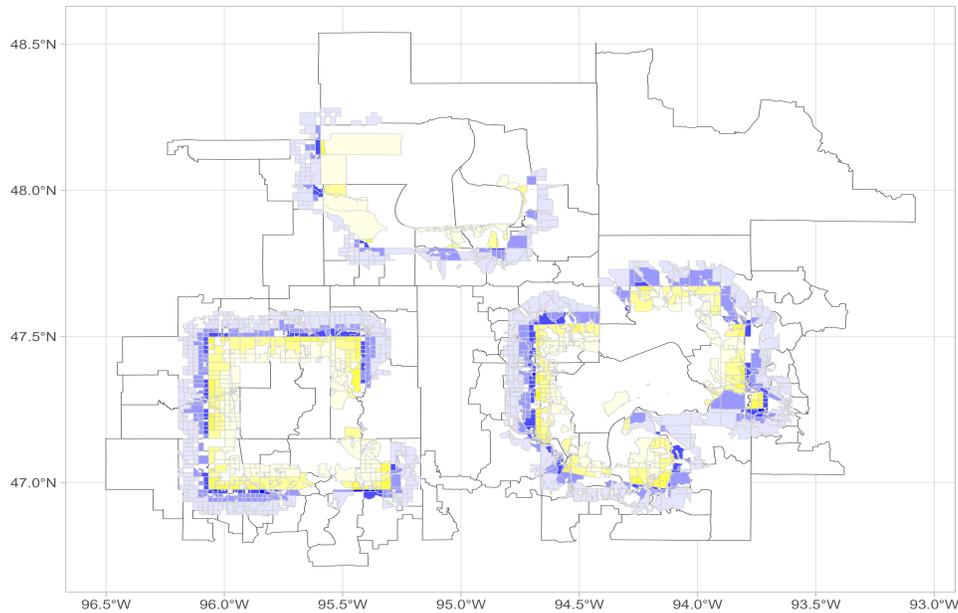


Figure A1: Comparison of geographic data used in this study to Bauer, Feir and Gregg (2022). Figure includes the White Earth, Red Lake, and Leech Lake Reservations, as represented in my data (small blue and yellow polygons) and Bauer, Feir and Gregg (2022) data (large black and white polygons). Blue polygons represent non-IC census blocks, yellow polygons represent IC census blocks. The intensity of the color represents what the smallest distance threshold the block is included in. This plot includes slightly more polygons than what was actually included in Bauer, Feir and Gregg (2022), and thus this figure should only be used to roughly compare the relative size and number of polygons between the two, not as an exact comparison.

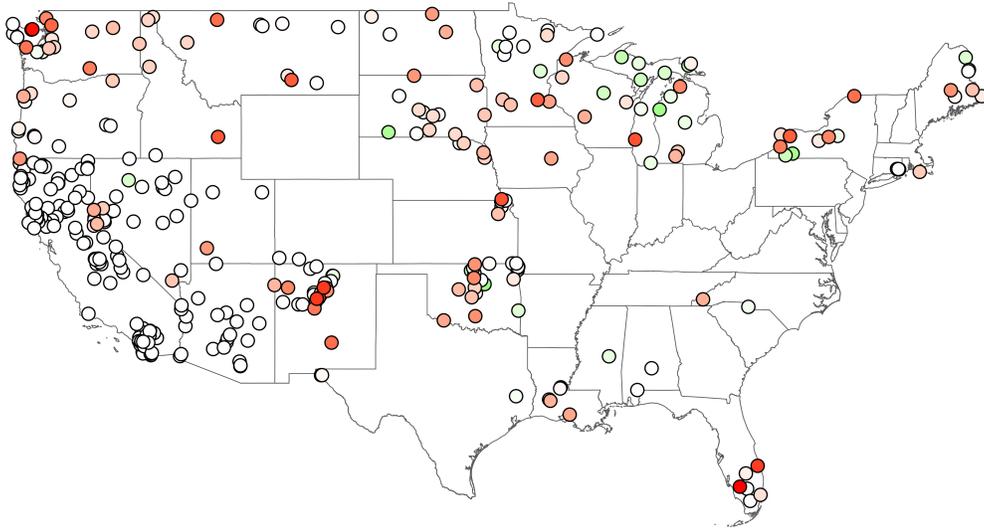


Figure A2: **Average difference in cable internet availability by geographic area, averaged across all time periods, at the 10km threshold.** Each circle is located at the center of each geographic area. The color of each circle indicates the difference in availability between all non-IC blocks and all IC blocks at the geographic area. Redder circles represent geographic areas where non-IC blocks had greater cable internet availability, greener circles represent geographic areas where IC blocks had greater cable internet availability, and white circles represent areas where there was no difference in availability.

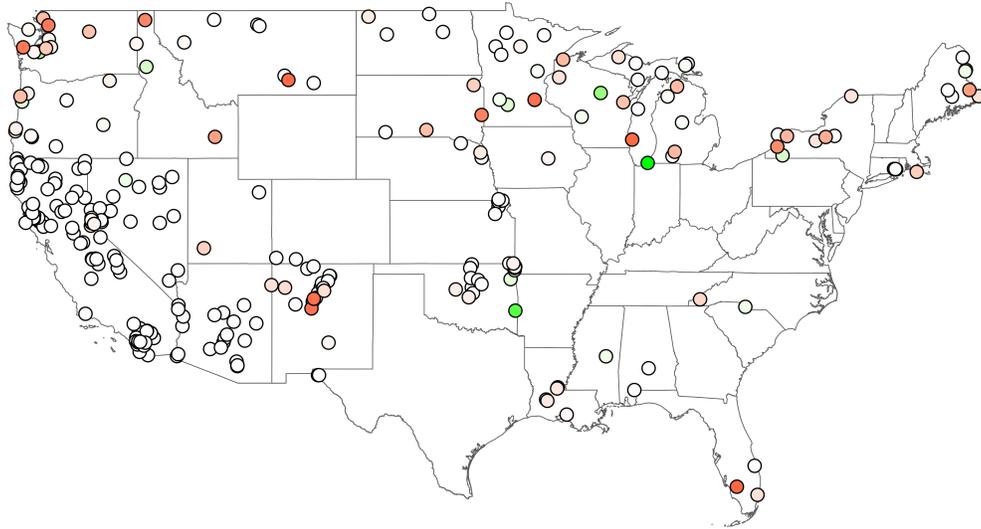


Figure A3: **Average difference in cable internet availability by geographic area, averaged across all time periods, at the 1km threshold.** Each circle is located at the center of each geographic area. The color of each circle indicates the difference in availability between all non-IC blocks and all IC blocks at the geographic area. Redder circles represent geographic areas where non-IC blocks had greater cable internet availability, greener circles represent geographic areas where IC blocks had greater cable internet availability, and white circles represent areas where there was no difference in availability.