

Online Supplement: North Carolina [Un]incorporated: Race, Place, and Local Environmental Inequity  
 Danielle M. Purifoy

Supplemental Table 1  
*Logistic Regression Analysis of the Probability of Grocery Stores in North Carolina by Race and Incorporation*

	White		Black/ Latinx		White		Black		Latinx	
<b>Grocery</b>	<b>1</b>		<b>2</b>		<b>(3)</b>		<b>(4)</b>		<b>(5)</b>	
Incorporated	1.386***	(3.63)	1.403***	(3.79)	1.085	(0.38)	1.588***	(4.84)	1.468***	(4.37)
White	0.995**	(-3.10)			0.993**	(-3.20)				
Black			1.003	(1.60)			1.006**	(2.95)		
Latinx			1.021***	(6.32)					1.023***	(4.53)
Population Density	0.956***	(-5.37)	0.952***	(-5.92)	0.958***	(-5.19)	0.961***	(-4.93)	0.954***	(-5.90)
Income	0.989***	(-5.22)	0.990***	(-4.95)	0.989***	(-5.15)	0.988***	(-5.61)	0.989***	(-5.48)
Unemployed	0.997	(-0.88)	0.999	(-0.37)	0.998	(-0.69)	0.999	(-0.15)	1.001	(0.22)
Incorporated #White					1.003	(1.34)				
Incorporated #Black							0.994*	(-2.34)		
Incorporated #Latinx									0.997	(-0.49)
Observations	5958		5958		5958		5958		5958	

Odds ratios; z-scores in parentheses. Data Source: CHD Expert and NHGIS; \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ ; Interaction models #3-5 in parentheses.

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Supplemental Table 2

*Logistic Regression Analysis of the Probability of Doctor's Offices in North Carolina by Race and Incorporation*

<b>Doctor</b>	White		Black/ Latinx		White		Black		Latinx	
	<b>1</b>		<b>2</b>		<b>(3)</b>		<b>(4)</b>		<b>(5)</b>	
Incorporated	2.840***	(10.15)	2.864***	(10.22)	1.370	(1.19)	3.381***	(11.18)	3.153***	(9.28)
White	1.006**	(3.24)			1.000	(0.09)				
Black			0.993***	(-3.83)			0.999	(-0.46)		
Latinx			0.997	(-0.52)					1.012	(1.69)
Population Density	0.972*	(-2.57)	0.972**	(-2.60)	0.976*	(-2.15)	0.974*	(-2.40)	0.968**	(-3.01)
Income	0.997	(-1.50)	0.997	(-1.64)	0.996	(-1.80)	0.997	(-1.88)	0.999	(-0.81)
Unemployed	0.995	(-1.37)	0.996	(-1.10)	0.996	(-0.94)	0.997	(-0.77)	0.990**	(-2.60)
Incorporated #White					1.010**	(3.21)				
Incorporated #Black							0.990**	(-2.68)		
Incorporated #Latinx									0.979**	(-2.59)
Observations	5958		5958		5958		5958		5958	

Odds Ratios; *z-scores* in parentheses. Source: NC Medical Board and NHGIS; \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ ; Interaction models #3-5 in parentheses.

Supplemental Table 3  
*Logistic Regression Analysis of the Probability of Landfills in North Carolina by Race and Incorporation*

Landfill	White		Black/ Latinx		White		Black		Latinx	
	1		2		(3)		(4)		(5)	
Incorporated	1.206	(1.43)	1.196	(1.36)	1.586	(1.61)	1.178	(1.04)	1.187	(1.12)
White	0.989 <sup>***</sup>	(-5.19)			0.991 <sup>***</sup>	(-3.73)				
Black			1.011 <sup>***</sup>	(4.88)			1.010 <sup>***</sup>	(3.61)		
Latinx			1.024 <sup>***</sup>	(4.40)					1.018 <sup>*</sup>	(2.53)
Population Density	0.869 <sup>***</sup>	(-8.19)	0.864 <sup>***</sup>	(-8.49)	0.866 <sup>***</sup>	(-8.19)	0.872 <sup>***</sup>	(-7.91)	0.874 <sup>***</sup>	(-7.95)
Income	1.003	(1.29)	1.004	(1.83)	1.003	(1.43)	1.002	(0.99)	1.001	(0.47)
Unemployed	0.994	(-0.93)	0.994	(-0.93)	0.994	(-1.06)	0.994	(-0.98)	1.001	(0.23)
Incorporated #White					0.996	(-1.07)				
Incorporated #Black							1.001	(0.27)		
Incorporated #Latinx									1.008	(0.82)
Observations	5958		5958		5958		5958		5958	

Odds ratios; *z-scores* in parentheses. Source: NC DEQ and NHGIS \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ ; Interaction models #3-5 in parentheses.

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Supplemental Table 4  
*Logistic Regression Analysis of the Probability of Brownfields in North Carolina by Race and Incorporation*

	White		Black/ Latinx		White		Black		Latinx	
	<b>1</b>		<b>2</b>		<b>(3)</b>		<b>(4)</b>		<b>(5)</b>	
<b>Brownfield</b>										
Incorporated	1.674*	(2.35)	1.697*	(2.40)	1.167	(0.38)	1.695	(1.79)	2.240***	(3.10)
White	0.986***	(-4.21)			0.982***	(-3.63)				
Black			1.014***	(3.94)			1.015**	(2.58)		
Latinx			0.994	(-0.64)					0.998	(-0.10)
Population Density	0.997	(-0.21)	1.002	(0.12)	0.999	(-0.06)	1.000	(0.00)	1.012	(0.83)
Income	0.975***	(-4.03)	0.973***	(-4.32)	0.975***	(-4.09)	0.974***	(-4.27)	0.965***	(-5.92)
Unemployed	1.020*	(2.31)	1.018*	(2.05)	1.021*	(2.44)	1.018*	(2.07)	1.027***	(3.30)
Incorporated #White					1.006	(1.02)				
Incorporated #Black							1.000	(-0.06)		
Incorporated #Latinx									0.986	(-0.70)
Observations	5958		5958		5958		5958		5958	

Odds ratios; *z-scores* in parentheses. Source: US EPA, NC DEQ, and NHGIS; \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ ; Interaction models #3-5 in parentheses.

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Supplemental Table 5  
*Two-Step Regression Analysis of Probability and Proximity of Grocery Stores in North Carolina*

Grocery	White		Black				Latinx					
	1	(2)	3	(4)	5	(6)						
Incorporated	0.721***	(-3.63)	0.020	(0.05)	0.708***	(-3.93)	0.199	(0.47)	0.698***	(-4.02)	0.353	(0.92)
White	1.004**	(3.10)	-0.008	(-1.22)								
Population Density	1.046***	(5.37)	-0.107	(-1.88)	1.043***	(5.07)	-0.118*	(-2.22)	1.048***	(6.10)	-0.146**	(-2.95)
Income	1.011***	(5.22)	-0.018	(-1.80)	1.012***	(5.66)	-0.025*	(-2.23)	1.011***	(5.52)	-0.027**	(-3.00)
Unemployed	1.003	(0.88)	-0.009	(-1.75)	1.001	(0.43)	-0.007	(-1.36)	0.999	(-0.22)	-0.002	(-0.43)
Pr (grocery) <sup>1</sup>		9.31*	(1.94)				11.00*	(2.34)			12.79**	(3.19)
Black					0.997	(-1.46)	0.0004	(0.97)				
Latinx									0.979***	(-6.20)	0.047*	(2.14)
Observations	5958		3217		5958		3217		5958		3217	

Two-step model: first step (logistic (z-scores)), second step [log-transformed distance] (OLS (t-scores)) in parentheses;  
 \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ ; 1: predicted probability of the absence of grocery stores. Two-step model with interaction terms not shown.

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Supplemental Table 6  
*Two Step Regression Analysis of Probability and Proximity of Doctor's Offices in North Carolina*

Doctor	White		Black				Latinx					
	1	(2)	3	(4)	5	(6)						
Incorporated	0.352***	(-10.2)	0.340	(0.86)	0.349***	(-10.18)	0.081	(0.21)	0.367***	(-9.16)	0.429	(0.67)
White	0.994**	(-3.24)	0.006*	(2.25)								
Population Density	1.029*	(2.57)	-0.06***	(-4.71)	1.029***	(3.84)	-0.057***	(-4.48)	1.035**	(3.18)	-0.733**	(-2.76)
Income	1.003	(1.50)	-0.005**	(-3.37)	1.003	(1.62)	-0.004**	(-2.86)	1.001	(0.66)	-0.003***	(-3.61)
Unemployed	1.006	(1.37)	-0.004	(-1.55)	1.004	(1.11)	-0.003	(-1.04)	1.010	(2.63)	-0.009	(-1.50)
Pr (grocery) <sup>1</sup>		6.55**	(2.73)				4.99*	(2.15)			7.39	(1.87)
Black					1.008***	(3.84)	-0.005	(-1.54)				
Latinx									1.002	(0.44)	-0.004	(-1.31)
Observations	5958		4796		5958		4796		5958		4796	

Two-step model: first step (logistic (z-scores)), second step [log-transformed distance] (OLS (t-scores)) in parentheses;  
 \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ ; 1: predicted probability of the absence of doctor's offices. Two-step model with interaction terms not shown.

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Supplemental Table 7  
*Two Step Regression Analysis of Probability and Proximity of Landfills in North Carolina*

<b>Landfill</b>	White				Black				Latinx			
	<b>1</b>		<b>(2)</b>		<b>3</b>		<b>(4)</b>		<b>5</b>		<b>(6)</b>	
Incorporated	0.829	(-1.43)	-0.308***	(-9.56)	0.829	(-1.42)	-0.309***	(-9.59)	0.789	(-1.57)	-0.359***	(-11.43)
White	1.011***	(5.19)	0.007***	(8.80)								
Population Density	1.150***	(8.19)	0.021***	(3.68)	1.145***	(8.01)	-0.021***	(3.75)	1.143***	(5.20)	0.016**	(2.84)
Income	0.997	(-1.29)	-0.003***	(-5.97)	0.998	(-0.96)	-0.003***	(-5.28)	0.999	(-0.35)	-0.002***	(-4.07)
Unemployed	1.006	(0.93)	0.004**	(2.63)	1.006	(0.96)	0.004**	(2.74)	0.999	(-0.23)	-0.001	(-0.85)
Pr (grocery) <sup>1</sup>			-4.96***	(-6.94)			-5.38***	(-7.25)			-4.71***	(-5.99)
Black					0.989***	(-4.71)	-0.007***	(-8.55)				
Latinx									0.978***	(-4.98)	-0.016***	(-7.60)
Observations	5958		5371		5958		5371		5958		5371	

Two-step model: first step (logistic (z-scores)), second step [log-transformed distance] (OLS (t-scores)) in parentheses;  
 \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ ; 1: predicted probability of the absence of landfills. Two-step model with interaction terms not shown.

Supplemental Table 8  
*Two Step Regression Analysis of Probability and Proximity of Brownfields in North Carolina*

<b>Brownfield</b>	White				Black				Latinx			
	<b>1</b>		<b>(2)</b>		<b>3</b>		<b>(4)</b>		<b>5</b>		<b>(6)</b>	
Incorporated	0.597*	(-2.35)	-0.346***	(-6.26)	0.597*	(-2.36)	-0.363***	(-6.60)	0.495**	(-3.34)	-0.386***	(-6.61)
White	1.015***	(4.21)	0.009***	(7.73)								
Population Density	1.003	(0.21)	-0.033***	(-7.29)	1.000	(0.00)	-0.036***	(-8.04)	0.988	(-0.80)	-0.041	(-0.17)
Income	1.026***	(4.03)	-0.001	(-1.48)	1.027***	(4.27)	-0.001	(-0.68)	1.036***	(5.92)	0.0007	(0.59)
Unemployed	0.981*	(-2.31)	0.008**	(2.61)	0.982*	(-2.08)	0.006*	(2.30)	0.973**	(-3.32)	0.005	(0.150)
Pr (grocery) <sup>1</sup>			8.67***	(6.30)			7.46***	(5.44)			10.63***	(7.87)
Black					0.986***	(-4.16)	-0.011***	(-7.75)				
Latinx									1.013	(1.37)	-0.0004	(-0.17)
Observations	5958		5786		5958		5786		5958		5786	

Two-step model: first step (logistic (z-scores)), second step [log-transformed distance] (OLS (t-scores)) in parentheses;  
 \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ ; 1: predicted probability of the absence of brownfields. Two-step model with interaction terms not shown.