

**Supplemental Table 1. Description of Unemployment and Foreclosure Rates in California 2008-2012 by County<sup>1</sup>**

County Number	Sample Size	Unemployment			Foreclosure		
		Mean Rate	Range	Standard Deviation	Mean Rate	Range	Standard Deviation
1	58,705	9.7	6.2-11.3	1.8	5.6	3.3-6.5	1.2
2	23	14.1	10.3-15.4	1.6	10.5	1.7-20.2	5.9
3	1,490	11.6	7.6-13.3	2.0	6.6	4.4-8.56	1.6
4	9,052	12.2	8.4-13.9	2.0	4.5	3.7-5.6	0.8
5	1,808	13.3	8.6-15.3	2.3	7.8	5.9-10.3	1.9
6	1,244	18.9	13.8-20.5	2.2	9.4	4.9-13.5	3.7
7	52,221	9.6	6.2-11.1	1.7	6.6	3.8-8.7	1.8
8	1,182	12.1	8.8-13.4	1.7	3.4	1.6-4.3	1.0
9	8,949	10.7	6.9-12.5	2.0	5.6	4.0-6.9	1.2
10	49,879	15.0	10.5-16.9	2.3	7.4	4.4-9.4	1.8
11	1,293	14.3	10.4-15.9	2.0	5.4	4.1-6.7	1.1
12	3,788	10.4	7.2-11.4	1.5	2.4	1.2-2.9	0.6
13	10,762	27.8	22.4-29.9	2.7	9.5	6.1-12.3	2.6
14	585	9.2	6.6-10	1.1	2.5	1.4-3.0	0.5
15	44,069	14.0	9.8-15.9	1.8	9.2	5.3-12.6	2.9
16	8,457	14.8	10.5-16.5	2.2	6.4	4.7-7.8	1.2
17	2,439	15.3	10.6-17.7	2.4	11.3	8.6-14.7	2.4
18	839	12.6	9.5-14	1.5	7.5	2.2-10.0	2.6
19	490,187	11.1	7.5-12.6	1.8	6.3	4.2-8.2	1.3
20	8,775	13.7	9.4-15.6	2.1	10.3	5.6-13.3	2.9
21	8,022	6.9	4.7-8	1.2	2.3	1.81-2.8	0.4
22	670	10.7	7.5-11.9	1.5	4.6	2.3-5.9	1.2
23	3,539	10.0	6.9-11.3	1.5	4.5	2.6-5.1	0.9
24	14,591	17.2	12.5-18.8	1.9	12.9	5.2-23.2	6.0
25	382	13.2	9.6-15	1.8	1.7	0.4-2.9	0.8
26	397	9.2	5.9-10.5	1.7	13.6	3.8-18.3	5.3
27	18,629	11.5	8.4-12.7	1.5	7.5	3.9-11.5	2.6
28	6,302	8.2	5.1-9.7	1.6	4.7	3.0-5.9	1.1
29	3,235	9.8	6.5-11.4	1.7	4.7	3.0-5.9	1.1
30	138,857	8.1	5.3-9.5	1.5	4.3	2.8-5.5	0.9
31	20,275	9.9	6.4-11.5	1.7	5.9	3.7-7.7	1.6
32	645	14.8	10.5-16.7	2.2	7.4	2.9-9.6	2.5
33	133,280	12.7	8.5-14.5	2.0	10.4	6.5-13.7	2.8
34	68,643	11.0	7.2-12.7	1.9	8.4	4.8-10.7	2.2
35	2,687	15.3	9.6-17.2	1.5	7.2	3.8-10.7	2.4

36	130,158	12.3	8-14.2	2.2	10.6	6.4-13.8	2.9
37	141,287	9.1	6-10.5	1.6	5.8	3.1-7.5	1.6
38	15,122	8.0	5.2-9.6	1.6	2.3	1.5-2.8	0.5
39	39,833	15.2	10.4-17.3	2.4	11.2	5.8-16.8	3.8
40	11,025	8.6	5.7-9.9	1.5	4.2	3.0-5.2	0.9
41	22,510	7.5	4.9-8.8	1.4	2.7	1.8-3.2	0.5
42	13,886	8.2	5.4-9.4	1.3	4.8	3.7-5.5	0.6
43	76,733	9.4	6-11	1.8	3.5	1.9-4.7	1.0
44	10,373	11.1	7.3-12.6	1.9	4.2	3.0-4.80	0.7
45	6,920	14.1	10-15.8	1.9	5.5	4.1-6.6	0.9
46	123	14.1	10.5-15.4	1.8	6.2	3.8-8.8	1.8
47	1,033	14.8	10.1-16.6	2.3	4.2	2.4-5.3	1.0
48	18,555	10.3	6.8-12	1.9	8.6	4.6-11.0	2.3
49	16,180	9.0	5.7-10.5	1.7	4.6	3.0-5.4	0.9
50	33,928	15.4	11-17.3	2.2	10.8	5.6-15.7	3.6
51	5,569	17.3	12.3-19.5	2.5	6.5	4.0-8.1	1.4
52	2,893	13.8	9.2-15.6	2.1	5.7	3.7-6.8	1.1
53	267	16.8	12.7-18.4	1.7	1.8	0.5-3.1	0.9
54	29,887	15.3	10.8-16.9	2.1	6.8	4.5-8.2	1.4
55	1,343	11.8	8-13.8	2.1	5.2	3.2-6.5	1.2
56	44,397	9.4	6.3-10.8	1.6	4.5	3.3-5.3	0.7
57	9,434	11.2	7.4-12.7	1.9	5.1	3.2-6.1	1.1
58	4,222	16.9	11.8-19.2	2.6	10.5	6.5-12.6	2.4

<sup>1</sup> Descriptive statistics for the 1,741,712 children included in the primary models. The mean, range and standard deviation reflect all of the observations (3,786,708) over the time period (2008-2012).

**Supplemental Table 2. Individual Fixed-Effects Regression for the Relationship Between Unemployment Rate, Foreclosure Rate and Weight Status<sup>a</sup>**

	N = 1,741,712		
	BMI z-score <sup>b</sup>	Underweight <sup>b,c</sup>	Obesity <sup>b,c</sup>
	$\beta$ (95% Confidence Interval)	Percentage Point (95% Confidence Interval)	Percentage Point (95% Confidence Interval)
Unemployment Rate	0.084 (0.076, 0.091)***	-1.3 (-1.4, -1.1)***	0.94 (0.90, 0.98)***
Foreclosure Rate	-0.0078 (-0.018, 0.0019)	0.030 (-0.13, 0.19)	-0.22 (-0.34, -0.11)***

<sup>a</sup> Estimated using ordinary least squares regression, with individual and county fixed-effects. Models include both county-level unemployment and foreclosure and an age by race/ethnicity interaction to control for race/ethnicity-specific time trends. Beta coefficients for underweight and obesity were multiplied by 100 and can be interpreted as a percentage point change.

<sup>b</sup> p-value for age by race/ethnicity = < 0.001.

<sup>c</sup> Underweight is defined as BMI < 5th percentile and obesity is defined as BMI ≥95th percentile using the 2000 CDC/NCHS growth charts.

\*p < 0.05 \*\*p < 0.01 \*\*\*p < 0.001

**Supplemental Table 3. Individual Fixed-Effects Regression for the Relationship Between Log-transformed Unemployment and Foreclosure Rates and Weight Status<sup>a</sup>**

N = 1,741,712				
	BMI z-score <sup>b</sup>	Underweight <sup>b,c</sup>	Overweight/Obesity <sup>b,c</sup>	Obesity <sup>b,c</sup>
	$\beta$	Percentage Point	Percentage Point	Percentage Point
	(95% Confidence Interval)	(95% Confidence Interval)	(95% Confidence Interval)	(95% Confidence Interval)
Log-transformed Unemployment Rate	0.82 (0.76, 0.88)***	-1.2 (-1.4, -1.1)***	1.4 (1.3, 1.5)***	0.91 (0.83, 0.99)***
Log-transformed Foreclosure Rate	-0.20 (-0.31, -0.10)***	0.25 (0.093, 0.40)**	-0.46 (-0.66, -0.25)***	-0.36 (-0.50, -0.21)***

<sup>a</sup> Estimated using ordinary least squares regression, with individual and county fixed-effects. Models include both county-level unemployment and foreclosure and an age by race/ethnicity interaction to control for race/ethnicity-specific time trends. Beta coefficients for underweight, overweight/obesity, and obesity were multiplied by 10 and can be interpreted as a percentage point change.

<sup>b</sup> p-value for age by race/ethnicity = < 0.001.

<sup>c</sup> Underweight is defined as BMI < 5th percentile; overweight/obesity is defined as BMI ≥85th percentile; and obesity is defined as BMI ≥95th percentile using the 2000 CDC/NCHS growth charts.

\*p < 0.05 \*\*p < 0.01 \*\*\*p < 0.001

**Supplemental Table 4. Individual Fixed-Effects Regression for the Relationship Between Unemployment Rate, Foreclosure Rate, and Weight Status when Excluding Los Angeles County<sup>a</sup>**

N = 1,254,561				
	BMI z-score <sup>b</sup>	Underweight <sup>b,c</sup>	Overweight/Obesity <sup>b,c</sup>	Obesity <sup>b,c</sup>
	$\beta$ (95% Confidence Interval)	Percentage Point (95% Confidence Interval)	Percentage Point (95% Confidence Interval)	Percentage Point (95% Confidence Interval)
Unemployment Rate	0.087 (0.079, 0.095)***	-1.3 (-1.5, -1.1)***	1.5 (1.4, 1.6)***	0.94 (0.89, 0.99)***
Foreclosure Rate	-0.0036 (-0.012, 0.0047)	-0.033 (-0.18, 0.11)	-0.21 (-0.38, -0.047)*	-0.17 (-0.27, -0.072)**

<sup>a</sup> Estimated using ordinary least squares regression, with individual and county fixed-effects. Models include both county-level unemployment and foreclosure and an age by race/ethnicity interaction to control for race/ethnicity-specific time trends. Beta coefficients for underweight, overweight/obesity, and obesity were multiplied by 100 and can be interpreted as a percentage point change.

<sup>b</sup> p-value for age by race/ethnicity = < 0.001.

<sup>c</sup> Underweight is defined as BMI < 5th percentile; overweight/obesity is defined as BMI ≥85th percentile; and obesity is defined as BMI ≥95th percentile using the 2000 CDC/NCHS growth charts.

\*p < 0.05 \*\*p < 0.01 \*\*\*p < 0.001

**Supplemental Table 5. Individual Fixed-Effects Regression for the Relationship Between Unemployment Rate, Foreclosure Rate and Weight Status Among Children not Moving Counties<sup>a</sup>**

	N = 1,670,397			
	BMI z-score <sup>b</sup>	Underweight <sup>b,c</sup>	Overweight/Obesity <sup>b,c</sup>	Obesity <sup>b,c</sup>
	$\beta$	Percentage Point	Percentage Point	Percentage Point
	(95% Confidence Interval)	(95% Confidence Interval)	(95% Confidence Interval)	(95% Confidence Interval)
Unemployment Rate	0.083 (0.076,0.091)***	-1.3 (-1.4,-1.1)***	1.4 (1.3,1.5)***	0.93 (0.89,0.98)***
Foreclosure Rate	-0.0077 (-0.017,0.0021)	0.028 (-0.13,0.19)	-0.29 (-0.48,-0.11)**	-0.22 (-0.33,-0.10)***

<sup>a</sup> Estimated using ordinary least squares regression, with individual and county fixed-effects. Models include both county-level unemployment and foreclosure and an age by race/ethnicity interaction to control for race/ethnicity-specific time trends. Beta coefficients for underweight, overweight/obesity, and obesity were multiplied by 100 and can be interpreted as a percentage point change.

<sup>b</sup> p-value for age by race/ethnicity = < 0.001.

<sup>c</sup> Underweight is defined as BMI < 5th percentile; overweight/obesity is defined as BMI ≥85th percentile; and obesity is defined as BMI ≥95th percentile using the 2000 CDC/NCHS growth charts.

\*p < 0.05 \*\*p < 0.01 \*\*\*p < 0.001

**Supplemental Table 6. Individual Fixed-Effects Regression for the Relationship Between Unemployment Rate, Foreclosure Rate, and Weight Status from 2008-2010<sup>a</sup>**

N = 1,282,534				
	BMI z-score <sup>b</sup>	Underweight <sup>b,c</sup>	Overweight/Obesity <sup>b,c</sup>	Obesity <sup>b,c</sup>
	$\beta$	Percentage Point	Percentage Point	Percentage Point
	(95% Confidence Interval)	(95% Confidence Interval)	(95% Confidence Interval)	(95% Confidence Interval)
Unemployment Rate	0.073 (0.067, 0.078)***	-1.0 (-1.1, -0.93)***	1.3 (1.2, 1.5)***	0.89 (0.78, 1.0)***
Foreclosure Rate	0.0068 (-0.0021, 0.016)	-0.15 (-0.31, 0.0038)	0.013 (-0.18, 0.20)	-0.014 (-0.12, 0.091)

<sup>a</sup> Estimated using ordinary least squares regression, with individual and county fixed-effects. Models include both county-level unemployment and foreclosure and an age by race/ethnicity interaction to control for race/ethnicity-specific time trends. Beta coefficients for underweight, overweight/obesity, and obesity were multiplied by 100 and can be interpreted as a percentage point change.

<sup>b</sup> p-value for age by race/ethnicity = < 0.001.

<sup>c</sup> Underweight is defined as BMI < 5th percentile; overweight/obesity is defined as BMI ≥85th percentile; and obesity is defined as BMI ≥95th percentile using the 2000 CDC/NCHS growth charts.

\*p < 0.05 \*\*p < 0.01 \*\*\*p < 0.001

**Supplemental Table 7. Individual Fixed-Effects Regression for the Relationship Between Unemployment Rate, Foreclosure Rate, and Overweight/Obesity when Excluding Children with Extreme Changes in BMI z-score<sup>a,b,c</sup>**

	N = 1,740,584
	Percentage Point (95% Confidence Interval)
Unemployment Rate <sup>d</sup>	1.4 (1.3, 1.5)***
Foreclosure Rate <sup>d</sup>	-0.29 (-0.48, -0.10)**

<sup>a</sup> Estimated using ordinary least squares regression, with individual and county fixed-effects. Models include both county-level unemployment and foreclosure and an age by race/ethnicity interaction to control for race/ethnicity-specific time trends. Beta coefficients for were multiplied by 100 and can be interpreted as a percentage point change.

<sup>b</sup> An extreme change in BMI z-score was defined as a change in BMI z-score > 5 (n =1,128) between 2008 to 2012.

<sup>c</sup> Overweight/obesity is defined as BMI ≥85th percentile using the 2000 CDC/NCHS growth charts.

<sup>d</sup> p-value for age by race/ethnicity = < 0.001.

\*p < 0.05 \*\*p < 0.01 \*\*\*p < 0.001

**Supplemental Table 8. Mixed- and Between-Effects Regression for the Relationship Between Unemployment Rate, Foreclosure Rate, and Overweight/Obesity <sup>a,b</sup>**

		N = 1,741,712
		Percentage Point (95% Confidence Interval)
Mixed Effects Models		
Unemployment Rate		1.4 (1.4, 1.5)***
Foreclosure Rate		-0.31(-0.41, -0.22)***
Between Effects Models		
Unemployment Rate		1.8 (1.7, 1.9)***
Foreclosure Rate		-0.22 (-0.30, -0.14)***

<sup>a</sup> Estimated using ordinary least squares regression. Models include both county-level unemployment and foreclosure and an age by race/ethnicity interaction to control for race/ethnicity-specific time trends. Beta coefficients were multiplied by 100 and can be interpreted as a percentage point change.

<sup>b</sup> Overweight/obesity is defined as BMI  $\geq$ 85th percentile using the 2000 CDC/NCHS growth charts.

\*p < 0.05 \*\*p < 0.01 \*\*\*p < 0.001