

## 1 **Early Effects of the New York City Paid Sick Leave Law**

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### 3 **Introduction**

4 Paid sick leave provides a number of benefits for businesses, individuals, families, and  
5 consumers. Those who receive paid sick leave are more likely to take time off for an illness or  
6 injury<sup>1</sup>, and there is growing literature demonstrating that paid sick leave policies promote  
7 recovery from illness. For example, studies have found that those lacking access to paid sick  
8 days on average spent a higher number of days in bed due to illness.<sup>2</sup> Kivimaki et al. found that  
9 the frequency of serious coronary events is twice as high among unhealthy employees who  
10 continue to work while sick compared to those who take at least some time off work for  
11 illness.<sup>3</sup>

12 Paid sick leave not only promotes recovery from illness, it also impacts the prevention and  
13 spread of illness. Kumar et al found that lack of sick leave is responsible for the spread of  
14 influenza-like illnesses.<sup>4</sup> According to the CDC, 70% of reported norovirus outbreaks from  
15 contaminated food come from infected co-workers, recommending that food workers with  
16 contagious illnesses stay home when ill.<sup>5</sup> Another study found that nursing homes with paid sick  
17 leave provisions were less likely to have communicable disease outbreaks.<sup>6</sup>

18 Families and children also benefit from paid sick leave, as it makes it easier for parents and  
19 family members to take time off of work to care for loved ones. It has been found that having  
20 more than three children significantly increases the risk of working while sick.<sup>7</sup> Despite this,  
21 many parents lack such coverage. According to Heymann et al, 36% of mothers who had a child  
22 with a chronic condition did not receive any sick leave, and 38% of parents in poverty did not  
23 receive sick leave benefits.<sup>8</sup>

24 Paid sick leave can also be useful for businesses in helping them attract and keep the most  
25 qualified employees. Earle et al found that paid sick leave had a significant association with  
26 return to work after an illness.<sup>9</sup>

27 While in the US paid sick leave has traditionally been provided at the discretion of the employer  
28 that is not the case in peer countries. In a 2009 report, the Center for Economic and Policy  
29 Research found that out of 22 countries ranked highly in terms of economic and human  
30 development, the US was the only that did not guarantee workers at least a minimal amount of  
31 paid sick leave.<sup>10</sup>

32 Many employers in the US provide paid sick leave voluntarily or through union contracts, but  
33 while such provisions are widespread, disparities are evident by industry type and salary.  
34 According to the Bureau of Labor Statistics (BLS), 81% of full-time workers in private industry  
35 have access to paid sick leave, while only 35% of part-time workers do. There are also  
36 disparities by wage level, in which 43% of workers in the bottom wage quartile had access to  
37 paid sick leave compared to 89% in the top quartile.<sup>11</sup> Associations have been shown between  
38 lower income and worse health for workers and their children, and the smaller likelihood of  
39 low-wage workers having sick days may compound the challenge of poor health.<sup>12, 13</sup>

40 In the absence of a federal law guaranteeing paid sick leave to workers, a number of state and  
41 local governments have passed such laws. Eight states (Arizona, California, Connecticut,  
42 Massachusetts, Oregon, Rhode Island, Vermont, and Washington) as well as Washington D.C.  
43 have passed laws mandating paid sick leave for at least some private employees. In addition to  
44 state laws mandating paid sick leave, a number of major cities such as Seattle<sup>14</sup> and San  
45 Francisco<sup>15</sup> require employers to offer paid sick leave to at least some of their employees.

46 Several studies have suggested that passage of paid sick leave laws in states and localities  
47 across the country have yielded promising results. The percent of businesses that offered sick  
48 leave increased in San Francisco from 73% to 91% during the three years after passage of a  
49 sick leave law, and in Seattle from 67% to 73% after one year post-passage of a sick leave law  
50 <sup>14,15</sup>. These numbers highlight an increase in employers offering paid time off to at least some  
51 employees following the passage of paid sick leave laws. It is worth noting that within-  
52 business inequalities may be hidden in such studies, as these benefits are likely not reaching  
53 all of the employees within firms, especially those earning lower wages<sup>16</sup> or working part-  
54 time.<sup>17</sup> For this reason, it is valuable to focus on the rate of paid sick leave receipt as reported

55 by employees rather than looking simply at the percent of businesses that offer some level of  
56 paid sick leave.

57 New York City joined the list of US cities that implemented paid sick leave laws in 2014 with  
58 the Earned Sick Time Act<sup>18</sup>, which was expanded in 2018 to become the Paid Safe and Sick  
59 Leave Law adding “domestic violence or unwanted sexual contact, stalking, or human  
60 trafficking”<sup>19</sup> to the situations for which paid leave could be used.

61 This paper aims to examine the prevalence and uptake of paid sick leave before and after the  
62 passage of the law. In this paper, we describe the data and methods used to analyze changes  
63 over time in paid sick leave-taking in NYC, and then provide evidence of the effects of NYC’s  
64 paid sick leave law on leave-taking behavior.

## 65 **Data and Methods**

### 66 **Sample**

67 Our analyses utilize data from the New York City Longitudinal Survey of Wellbeing (NYC-LWS),  
68 which has data on two distinct representative samples (one collected pre- implementation of  
69 the law, and the other post-law) of adults in New York City. These samples are pooled in the  
70 presented analyses. Both data collection projects were approved by Columbia University’s  
71 Institutional Review Board.

72 The first sample, or “pre-law sample”, was collected in late 2012. Sampling methods can be  
73 found in Hall’s paper, “Workers not paid for Sick Leave after Implementation of the New York  
74 City Paid Sick Leave Law”<sup>17</sup>.

75 The second sample, or “post-law sample” was collected in Spring 2015 after respondents  
76 participated in the Community Health Survey administered by the NYC Department of Health  
77 and Mental Hygiene (DOHMH), which was also sampled using RDD. Again, this sample contains  
78 an additional subsample from Robin Hood funded social service agencies designed to provide  
79 an oversample of New Yorkers engaged in social services. Survey weights were applied to  
80 ensure both samples are representative of the New York City population.

81 **Measures**

82 Both samples constituted two longitudinal panel studies, which were conducted quarterly by  
83 phone, online, or by paper. To collect data about use of sick leave, we asked the following  
84 questions:

- 85 1. During the past 12 months, about how many days did you miss work at a job or business  
86 because you or someone you care for was ill or injured?
- 87 2. Were you paid for the days you missed because of illness or injury? (Respondents could  
88 reply that they were paid for all, some, or none of the days missed.)
- 89 3. During the past 12 months, about how many days did you go to work feeling sick  
90 because you could not afford to lose pay?

91 In the first panel these questions were fielded between February 2014 and July 2014, all prior  
92 to implementation of the NYC paid sick leave law. In the second panel, the same questions  
93 were fielded between April 2016 and August 2017, after implementation of the law. Note that  
94 while the samples were first collected in 2012 and 2015 respectively, the questions regarding  
95 paid sick leave were asked in future survey waves. Using these questions, respondents are  
96 coded into one of three mutually exclusive groups based on their responses; took some paid  
97 sick leave (paid for all or some sick days), took only unpaid sick leave (took sick leave but not  
98 paid for any sick days), or no sick days taken.

99 In addition to measures of paid sick leave, we included a number of demographic and  
100 employment-related characteristics that may be related to receipt and use of paid sick leave as  
101 potential confounders. These are gender, race/ethnicity, education, age, foreign-born status,  
102 marital status, presence of children in the household, income-to-needs ratio (logged), number  
103 of months worked in the past year, and whether the respondent worked full-time or part-time.  
104 We also tested sensitivity to inclusion of month and season of survey, neither of which altered  
105 results presented here and were thus dropped from the analyses.

106 **Statistical Analysis**

107 In the analyses that follow, we examine the percent of working New Yorkers who were paid (for  
108 some or all) and unpaid for their sick leave usage. We test for significant predictors of paid sick  
109 leave uptake using a multinomial logistic regression in which the outcome variable indicates the  
110 respondent took (in the last 12-months) sick leave and was paid for at least some of their time  
111 off, the respondent took sick leave and wasn't paid for any of their time off, and that the  
112 respondent didn't take any sick leave. To test whether the change in the percentage of each  
113 outcome was significant ( $p < .05$ ) we ran weighted logistic regressions. To assess who is or is not  
114 utilizing sick leave, we predict marginal probabilities of being paid for sick days with respect to a  
115 number of demographic characteristics pre- and post-law. Finally to analyze whether there is a  
116 significant difference ( $p < .05$ ) in the percent that work while sick we ran a logistic regression  
117 with the outcome being whether the respondent worked while sick. These analyses were all  
118 preformed using STATA 15 (College Station, Texas).

119 Both samples, which were recruited similarly, use weights to adjust for the sample design.  
120 These weights were created by first adjusting for the probability of being included in the sample  
121 (adjusting for oversampling of poorer households, and the sample inclusion for a random digit  
122 dial). The baseline waves for both samples were raked separately to a combined American  
123 Community Sample (ACS) relevant to when the baseline wave was collected (the pre-law  
124 sample was adjusted to the 2011-2013 ACS, the post law to the 2014-2015 ACS<sup>1</sup>). Multi-year  
125 ACS estimates were used for stability. The raking variables include household demographics  
126 (like the number of children, the number of working adults), age, sex, race, education level,  
127 poverty status and months worked. The data used in these analyses were collected in waves  
128 after baseline. The weights for the relevant waves were created by first adjusting for non-  
129 response from the baseline wave, and then re-raking to the relevant baseline population. We  
130 re-ran all results restricted to only the RDD sample from both panels (results available upon  
131 request) and found no substantive differences in the pattern of results presented here.

## 132 **Results**

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<sup>1</sup> The post-law ACS was raked to a two year ACS because the 2016 ACS had only just been made available when the survey weights were calculated.

133 Our findings indicate that since passage of the law there has been over a 10 percentage point  
134 increase in the rate of being paid for at least some of the sick days taken by workers in NYC (as  
135 opposed to not being paid at all while on sick leave, or not taking sick time). During this time  
136 there was a 5-percentage point decrease in the rate of not being paid for any sick days. We also  
137 found that the percent of New Yorkers not taking any sick days decreased from 54% pre-law to  
138 48% post-law (Figure 1). Using weighted logistic regressions to compare pre and post-law rates  
139 of paid sick leave uptake, unpaid sick leave uptake, and not taking sick leave we find the  
140 difference in the proportion of paid sick leave uptake (pre and post-law) is significant  
141 ( $p=0.0001$ ), as is the difference in the proportion taking only unpaid sick leave ( $p=0.0283$ ) and  
142 not taking any sick leave ( $p=0.0466$ ).

143 Table 1 presents the results of a multinomial logistic regression model, which shows that post-  
144 law, respondents are significantly less likely to be unpaid for sick days and less likely to not take  
145 any sick days relative to being paid for some or all of their sick days taken. We also see that  
146 some groups seem to remain more or less likely than others to be paid for sick days.  
147 Specifically, we predict those with a college education, those with higher incomes, those who  
148 work more months of the year, those who work full-time, and males as more likely to be paid  
149 for their sick days. We found no significant differences (pre/post-law) in the likelihood of going  
150 to work while sick although some groups remained more likely than others to work while sick  
151 such as females, blacks and Hispanics (see Appendix).

152 Figure 2 illustrates the predicted probability (using a multinomial logistic regression) of being  
153 paid for some or all sick days, not being paid for any sick days, and not taking any sick days pre-  
154 and post-law when controlling for the demographics in Table 1. We see that, post-law,  
155 respondents are 14 percentage points more likely to be paid for some or all sick days and 5  
156 percentage points less likely to not be paid for any sick days. The share of New Yorkers not  
157 taking any sick days decreased by 9 percentage points.

158 We next examine which demographic groups in New York City did or did not experience an  
159 increase in paid sick leave. Table 2 shows marginal probabilities of being paid for sick days  
160 pre/post passage by demographic groups. These were calculated using five individual

161 multinomial logistic regression models with the same controls as the regression in table 1  
162 (including an added control for the interaction between the demographic and the pre/post-law  
163 indicator). Overall, as shown in Figure 2, we see an increase in paid sick leave receipt, a  
164 decrease in not being paid for sick leave, and a decrease in no sick leave taken. When  
165 comparing the marginal predictions by demographic group we see some groups experience a  
166 greater increase in their utilization of paid sick time than others. The largest increases in paid  
167 sick leave receipt we observed was among women, Hispanics, Whites, college graduates, full-  
168 time workers, and those 18-35 years old. Specifically, women reported a 15 percentage point  
169 increase in paid sick leave receipt when comparing their pre-law receipt to their post law  
170 receipt; Hispanics reported a 15 percentage point increase; Whites reported a 15 percentage  
171 point increase; college graduates reported a 19 percentage point increase; full-time workers  
172 reported an 17 percentage point increase; and 18-35 year olds reported a 20 percentage point  
173 increase from pre- to post-law, net of other variables included in our models. It is important to  
174 note that we are only comparing marginal probabilities here and not whether these  
175 demographics differences pre- and post-law are statistically significant.

176 Part-time workers exhibited a smaller probability of paid sick leave taking post-law  
177 implementation, indicating that the effects of the law may have not reached all groups equally.

## 178 **Discussion**

179 These findings add to the growing literature on the effects of local paid sick leave laws on leave-  
180 taking among affected workers. We find that since passage and implementation of the paid sick  
181 leave law in NYC, there has been an overall increase in payment for sick time taken, and an  
182 increase in the likelihood of taking time off when workers were ill or injured or someone those  
183 workers care for was ill or injured.

184 However, while these findings are promising, the majority of working New Yorkers (64%) as of  
185 August 2017 were still either not being paid for the sick days they took (16%) or were not taking  
186 sick days at all (48%). Furthermore, some groups continue to be more likely to fall into these  
187 categories: those with less than a HS degree, and those working part-time jobs are two

188 prominent examples of the limitations of the law's reach. It is important that future laws (and  
189 enforcement of the current law) focus on expanding access to these groups.

190 We observe that specific demographic groups - women, Whites, Hispanics, college graduates,  
191 those 18-35 years old, and full-time workers -- saw particularly high increases in their rates of  
192 taking paid sick leave. However, other groups do not appear to experience as high increases in  
193 their likelihood of taking sick leave. Future laws might consider how to include a larger share of  
194 workers. Future studies should also consider the longer-range impacts of paid sick leave laws as  
195 they unfold in states and localities over time.

196 There are important limitations to note regarding these analyses. One limitation is that we  
197 don't know the rate of illness among respondents. This means we are not able to distinguish  
198 non-sick leave users who were sick from those who weren't sick. We also don't know the  
199 specific amount of sick time or sick days respondents' were/weren't paid for. Another limitation  
200 is related to the fact that the sample stems from two distinct panels, collected at different time  
201 points. Thus the city may have changed between 2012 and 2015 in ways that would explain the  
202 change in sick leave usage. This is to say way don't know the mechanism by which paid sick  
203 leave uptake is changing, only the estimated pre- and post-law rates.

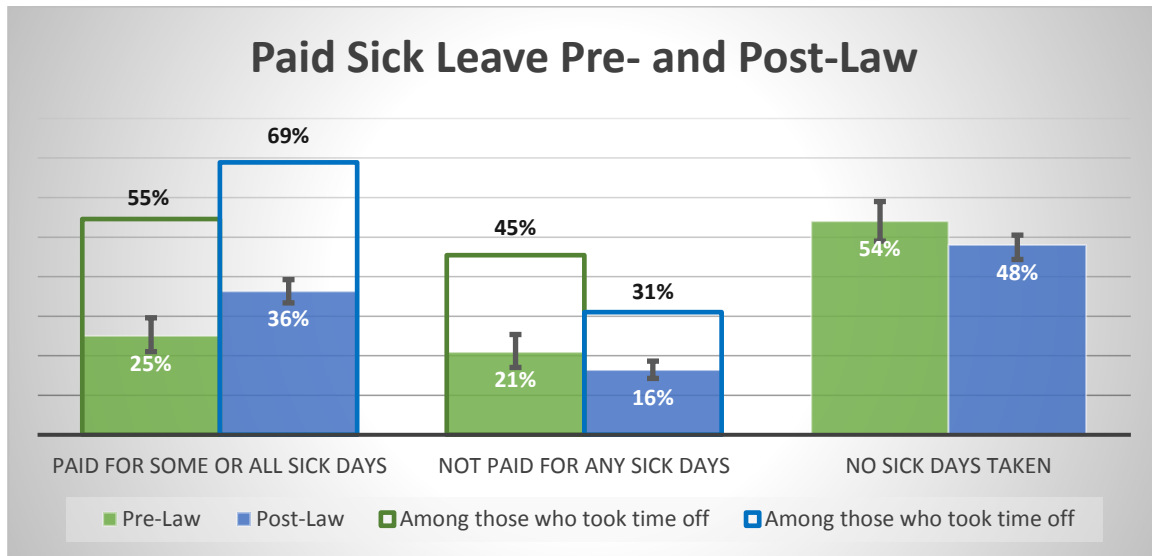
#### 204 **Public Health Implications**

205 As more New Yorkers are paid for sick leave, we anticipate a number of benefits, both to  
206 individual workers and to the public health. With more workers staying home, we expect faster  
207 recovery for employees and their families, and a decrease in the spread of contagious illnesses.  
208 However, to maximize these benefits, the impact of paid sick leave laws must be felt more  
209 evenly across all categories of workers, including those working part-time and those with less-  
210 education, who remain disadvantaged in NYC relative to more advantaged workers. It would  
211 be valuable for future studies to look at receipt of paid sick leave in specific industries, as some  
212 are more likely than others to be places where illnesses are transmitted more frequently,  
213 raising important public health concerns.

#### 214 **Figures and Tables**



215 *Figure 1*



216

217 *Table 1 - Change in Paid Sick Leave Outcomes Post-Law – Results from Multinomial Logistic*  
 218 *Regression*

	Reference: Paid for Some or All Sick Days	
	Not Paid for Any Sick Days	No Sick Days Taken
	RRR	RRR
	SE	SE
	CI	CI
Post-Law	0.488***	0.536***
	-0.08	-0.06
	0.360,0.662	0.426,0.674
Female	1.410*	0.785*
	-0.24	-0.09
	1.011,1.967	0.622,0.990
Black	1.08	1.1
	-0.23	-0.17

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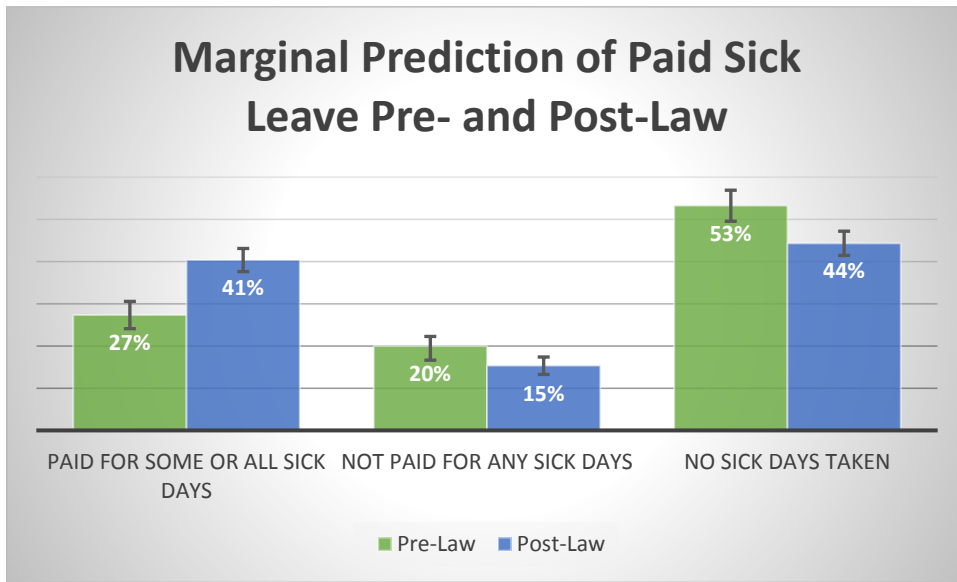
	0.705,1.654	0.812,1.489
Other/Multi-Racial	1.029	1.22
	-0.31	-0.26
	0.567,1.867	0.806,1.846
Hispanic	1.238	1.118
	-0.27	-0.18
	0.806,1.902	0.819,1.528
Some College/VoTech	0.675	0.679*
	-0.14	-0.12
	0.452,1.008	0.485,0.950
College Graduate	0.373***	0.646**
	-0.08	-0.1
	0.249,0.559	0.473,0.883
36-45	0.88	0.844
	-0.18	-0.13
	0.593,1.307	0.624,1.142
46-55	0.774	1.013
	-0.16	-0.15
	0.519,1.155	0.754,1.362
56-65	0.656	1.06
	-0.15	-0.17
	0.414,1.041	0.773,1.454
Foreign born	1.061	1.134*
	-0.09	-0.07
	0.902,1.249	1.003,1.282
Has Spouse or Partner	0.946	1.076
	-0.17	-0.14
	0.669,1.337	0.839,1.382

Has Biological or Step Child	1.129	0.780*
	-0.19	-0.1
	0.809,1.576	0.610,0.997
Log (SPM) Income to Needs	0.836*	1
	-0.07	-0.07
	0.708,0.988	0.875,1.143
Number of Months Worked in Past 12 Months	0.853***	0.851***
	-0.03	-0.02
	0.802,0.908	0.806,0.899
Works Full-time	0.329***	0.450***
	-0.06	-0.08
	0.225,0.483	0.324,0.625
_cons	14.668***	30.507***
	-6.58	-11.51
	6.086,35.350	14.566,63.892
R2=.087		
N=1810		

219 \* Indicates significant at 95% CL, \*\* indicates significant at 99% CL, and \*\*\* indicates significant  
 220 at 99.99% CL.

221 Note: Income-to-needs is measured using total Supplemental Poverty Measure resources (post-  
 222 tax cash income plus in-kind benefits, minus non-discretionary work, child care, and medical  
 223 expenses), divided by the SPM poverty line, logged to account for greater effects of income at  
 224 lower levels of income to needs.

225 *Figure 2*



226

227 *Table 2 – Predicted Probabilities of Paid Sick Leave Outcomes by Selected Variables*

	Paid For Some or All Sick Days			Not Paid For Any Sick Days			No Sick Days Taken		
	Pre-Law	Post-Law	Difference	Pre-Law	Post-Law	Difference	Pre-Law	Post-Law	Difference
<b>Gender</b>									
Male	28%	38%	<b>10%</b>	15%	12%	<b>-3%</b>	57%	50%	<b>-7%</b>
Female	27%	42%	<b>15%</b>	22%	17%	<b>-5%</b>	51%	41%	<b>-10%</b>
<b>Race</b>									
White	28%	43%	<b>15%</b>	20%	14%	<b>-6%</b>	53%	43%	<b>-10%</b>
Black	28%	39%	<b>10%</b>	17%	17%	<b>0%</b>	55%	44%	<b>-10%</b>
Hispanic	25%	40%	<b>15%</b>	23%	15%	<b>-8%</b>	52%	45%	<b>-7%</b>
<b>Education</b>									
Graduated High School or Less	23%	30%	<b>7%</b>	25%	20%	<b>-5%</b>	51%	50%	<b>1%</b>

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Some College/VoTech	31%	37%	<b>6%</b>	22%	18%	<b>-4%</b>	47%	45%	<b>-2%</b>
College Graduate	27%	46%	<b>19%</b>	14%	11%	<b>-3%</b>	58%	43%	<b>-15%</b>
<b>Age</b>									
18-35	22%	42%	<b>20%</b>	22%	17%	<b>-5%</b>	56%	41%	<b>-15%</b>
36-45	35%	39%	<b>4%</b>	22%	16%	<b>-6%</b>	43%	45%	<b>2%</b>
46-55	27%	40%	<b>13%</b>	18%	14%	<b>-4%</b>	55%	46%	<b>-9%</b>
56-65	28%	40%	<b>12%</b>	14%	13%	<b>-1%</b>	58%	48%	<b>-10%</b>
<b>Job Status</b>									
Part-time	26%	20%	<b>-6%</b>	21%	24%	<b>3%</b>	53%	56%	<b>3%</b>
Full-Time	28%	45%	<b>17%</b>	19%	12%	<b>-7%</b>	53%	43%	<b>-10%</b>

228

229 **Appendix**

Table A1 – Change in Working While Sick Outcomes Post-Law – Results from Logistic Regression Reference: Did Not Work While Sick	
	Worked While Sick
	OR
	SE
	CI
Post-Law	0.944
	-0.1

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	0.767,1.163
Female	1.508***
	-0.17
	1.212,1.877
Black	1.475**
	-0.22
	1.107,1.967
Other/Multi-racial	1.567*
	-0.3
	1.072,2.289
Hispanic	1.869***
	-0.28
	1.399,2.497
Some College/VoTech	0.784
	-0.11
	0.596,1.031
College Graduate	0.484***
	-0.07
	0.370,0.632
36-55	0.889
	-0.13

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	0.673,1.175
46-55	1.011
	-0.14
	0.770,1.327
56-65	0.932
	-0.14
	0.690,1.259
Foreign Born	0.947
	-0.05
	0.847,1.058
Has Spouse or Partner	0.847
	-0.1
	0.669,1.071
Has Biological or Step Child	1.434**
	-0.17
	1.142,1.801
Log (SPM) Income to Needs	0.769***
	-0.05
	0.683,0.867
Number of Months Worked in Past 12 Months	1.009
	-0.02

	0.972,1.047
Works Full-time	1.036
	-0.13
	0.803,1.336
_cons	0.553*
	-0.15
	0.327,0.937
R2=.0834	
N=1878	

230

231 \* Indicates significant at 95% CL, \*\* indicates significant at 99% CL, and \*\*\* indicates significant  
 232 at 99.99% CL. Income-to-needs is measured using total Supplemental Poverty Measure  
 233 resources (post-tax cash income plus in-kind benefits, minus non-discretionary work, child care,  
 234 and medical expenses), divided by the SPM poverty line, logged to account for greater effects  
 235 of income at lower levels of income to needs.

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