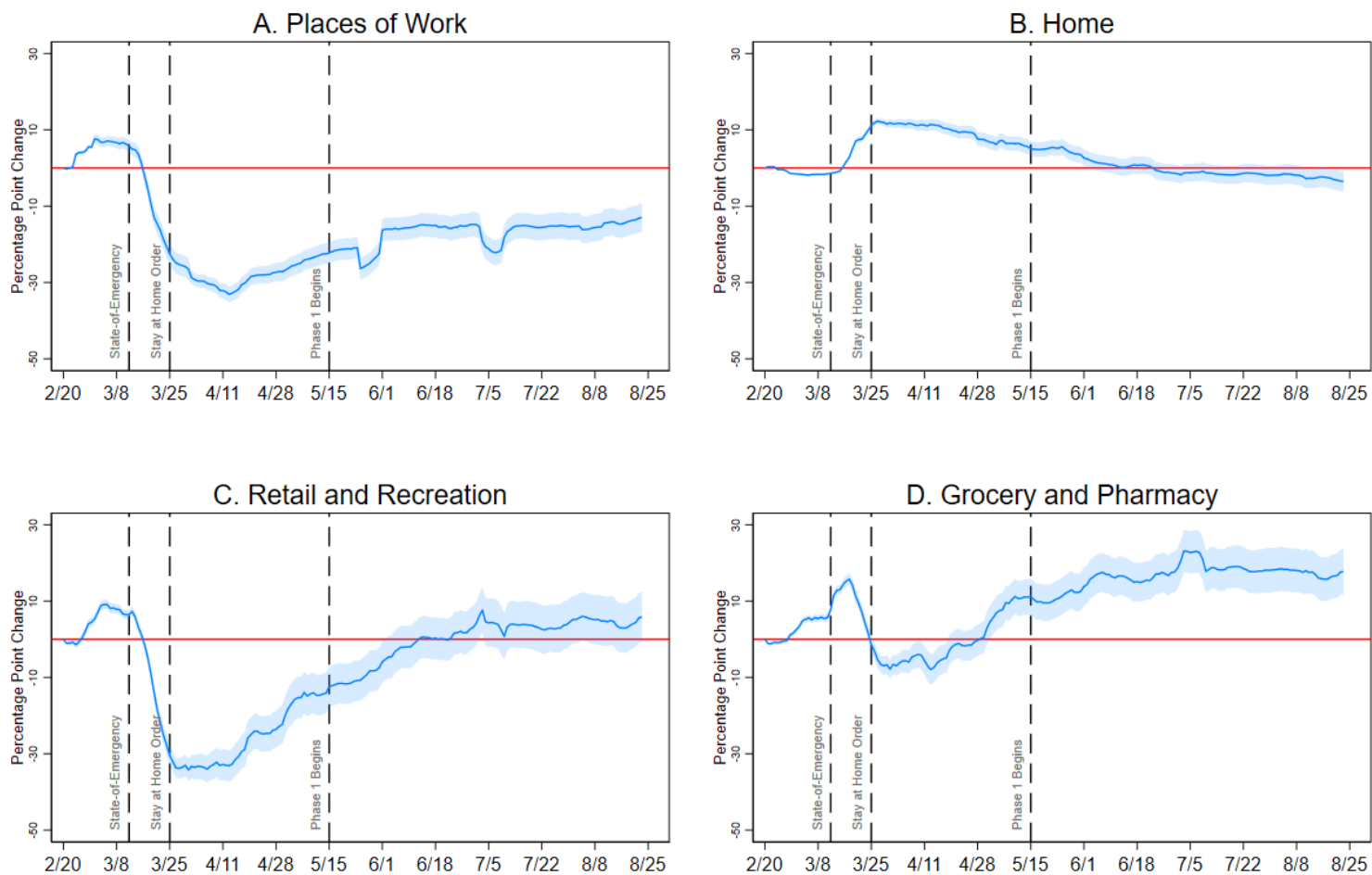
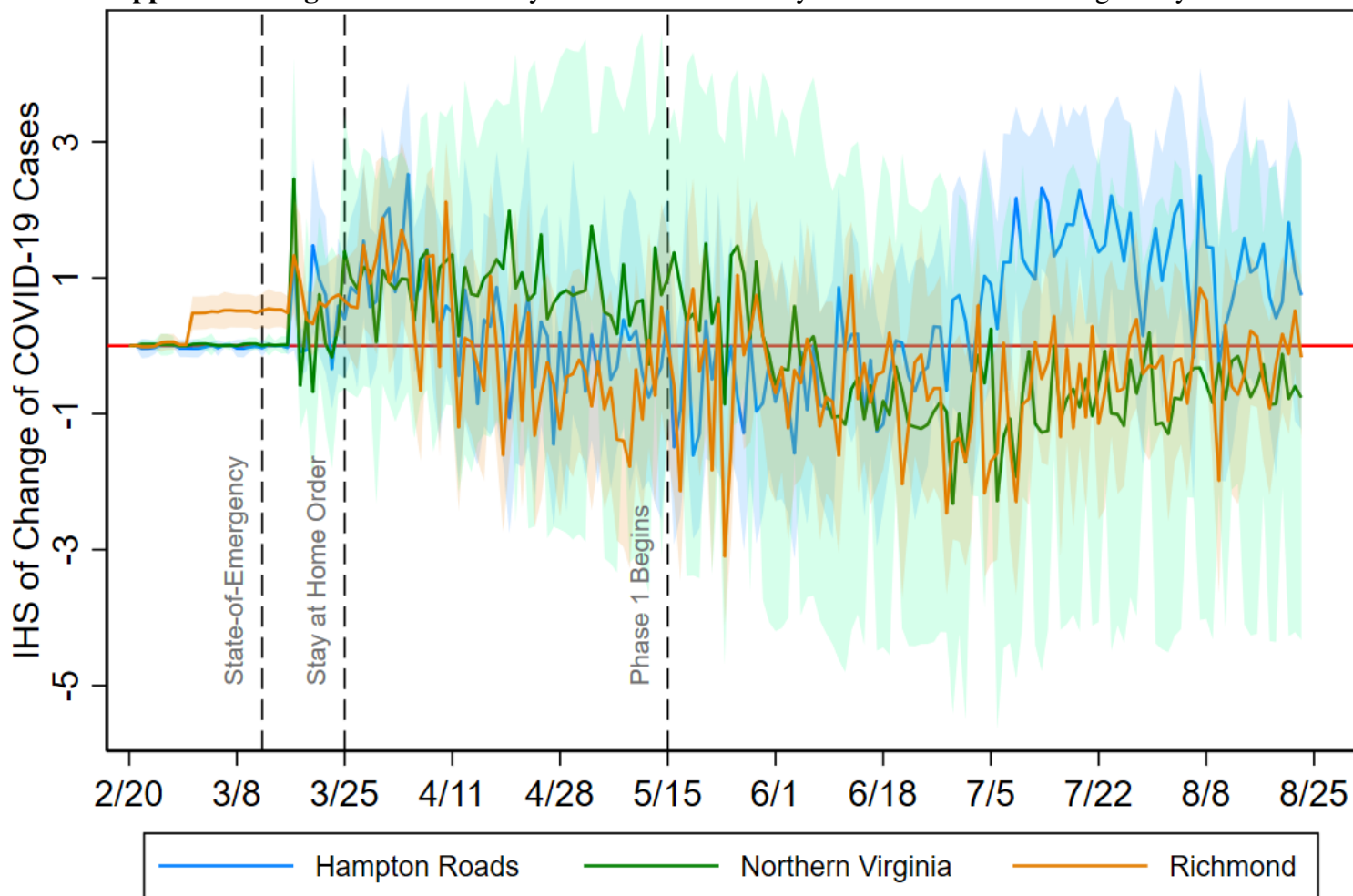


**Supplemental Figure 1: Event-Study Results for Mobility Patterns in Virginia**



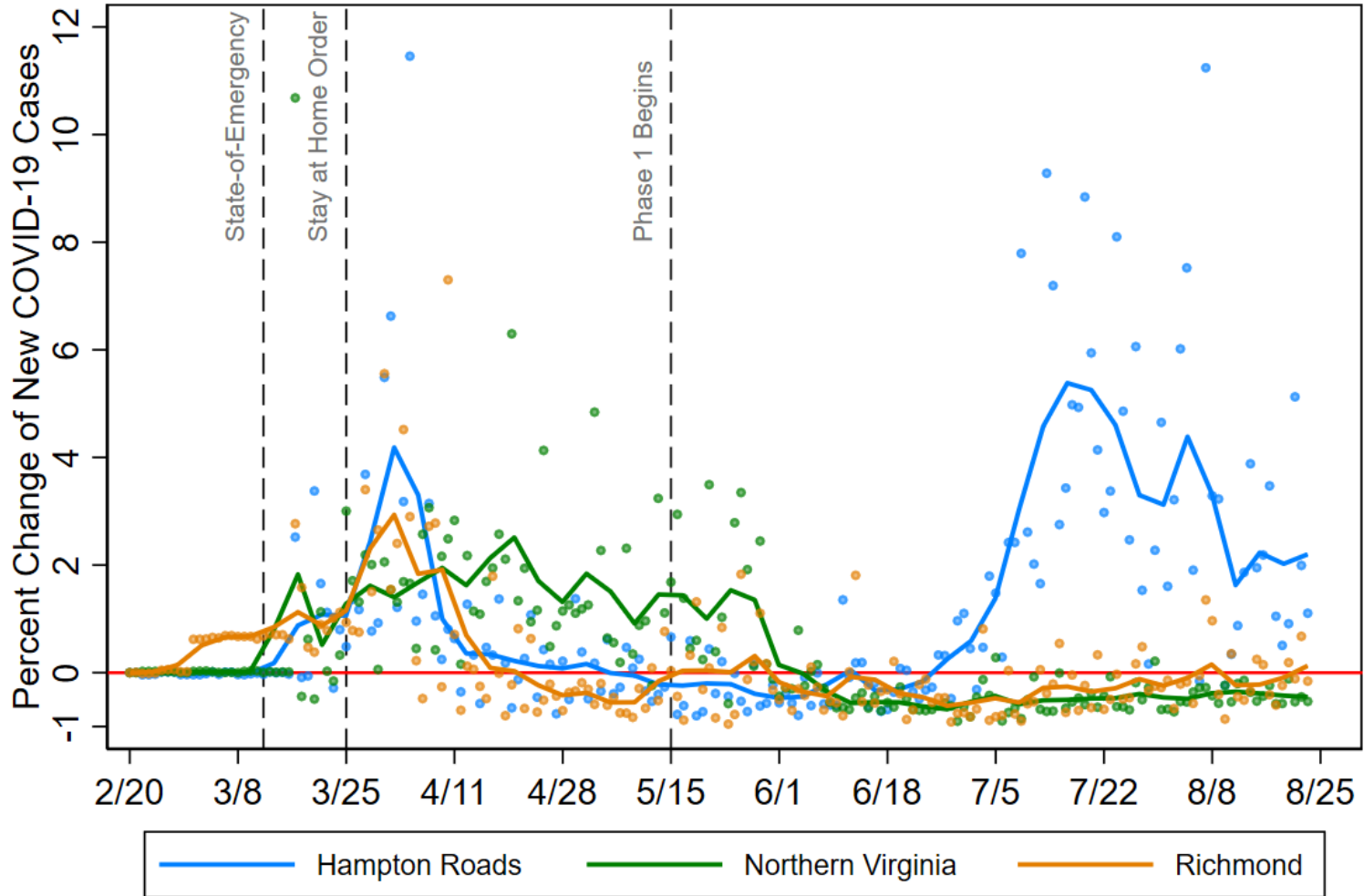
Notes: Each graph represents the results of a separate two-way fixed effect event-study regression of the specified mobility pattern. The solid line represents the point estimates of  $D_{i,t}$  from equation (1). The base date of comparison is February 20, 2020. Controls included in the regressions are the lagged inverse hyperbolic sine of total cases, weather, a month fixed-effect, and a county fixed-effect. The shaded represent a 95% confidence interval of the point estimate clustered at the county level.

**Supplemental Figure 2: Event-Study Results for New Daily COVID-19 Cases in Virginia by MSA**



Notes: Each line in each graph represents the results of a separate two-way fixed effect event-study regression of the inverse hyperbolic sine of new COVID-19 cases per 1,000 people. The solid line represents the point estimates of  $D_{i,t}$  from equation (1). The base date of comparison is February 20, 2020. The point estimates can be converted to elasticities and interpreted as a percent change by applying the following transformation:  $\exp(b)-1$ . Controls included in the regressions are the lagged inverse hyperbolic sine of total cases, weather, a month fixed-effect, and a county fixed-effect. The shaded regions represent a 95% confidence interval of the point estimate clustered at the county level.

**Supplemental Figure 3: Semi-Elasticities of New COVID-19 Cases**



Notes: Each line point represents a semi-elasticity calculated for a given date calculated by applying :  $\exp(b)-1$  to the estimation results of COVID-19 cases per 1,000 people shown in Supplemental Figure 1. The solid line shows an epanechnikov kernel fit with a bandwidth of 2 to highlight the trend. Percent change is in decimal form, so 2 = 200%.

**Supplemental Table 1: Characteristics of Virginia and the United States, 2019**

	<b>United States</b>	<b>Virginia</b>
<b>Age Distribution</b>		
0-17	22.3%	21.8%
18-64	61.2%	62.3%
65+	16.5%	15.9%
<b>Demographics</b>		
White	61.0%	61.2%
Black	13.4%	19.9%
Hispanic	18.5%	9.8%
Asian	5.9%	6.9%
<b>Gender</b>		
Male	49.2%	49.2%
Female	50.8%	50.8%
<b>Median Income</b>		
	\$60,293	\$71,564
Homeownership Rate	66.2%	66.0%
Bachelor's Degree	31.5%	38.2%
Persons per Household	2.6	2.6
Percent without Health Insurance	9.5%	9.3%
Labor Force Participation	62.9%	64.2%
Median Rent	\$1,023	\$1,202
Median Housing Costs with Mortgage	\$1,558	\$1,767
Median House Value	\$204,900	\$264,900

Source: US Census<sup>3</sup>

Supplemental Table 2: Places of Work

	(1) Virginia	(2) Hampton Roads	(3) Richmond	(4) Northern Virginia
regdate=-35	-1.83*** (0.32)	-2.10* (0.84)	-4.24 (2.63)	-1.97* (0.75)
regdate=-33	-0.29 (0.16)	-2.34*** (0.37)	1.71* (0.50)	-0.64 (0.40)
regdate=-32	-0.01 (0.16)	-1.97** (0.47)	1.88** (0.49)	-0.44 (0.45)
regdate=-31	0.24 (0.17)	-1.45* (0.51)	2.13** (0.48)	-0.18 (0.49)
regdate=-30	3.58*** (0.39)	3.42*** (0.60)	9.39** (1.59)	3.59*** (0.58)
regdate=-29	4.02*** (0.25)	3.39*** (0.46)	9.81** (1.80)	3.84*** (0.62)
regdate=-28	4.06*** (0.26)	3.51*** (0.46)	9.66** (1.76)	3.38*** (0.68)
regdate=-27	4.36*** (0.25)	3.95*** (0.41)	9.65** (1.75)	3.85*** (0.53)
regdate=-26	5.51*** (0.26)	7.49*** (0.24)	9.42*** (1.56)	5.24*** (0.46)
regdate=-25	5.45*** (0.27)	7.73*** (0.26)	9.30** (1.62)	5.21*** (0.55)
regdate=-24	7.61*** (0.64)	7.84*** (0.25)	9.17** (1.65)	7.50*** (1.48)
regdate=-23	7.44*** (0.64)	7.82*** (0.25)	9.12** (1.58)	7.49*** (1.43)
regdate=-22	6.76*** (0.67)	7.29*** (0.30)	7.98** (1.62)	7.06*** (1.41)
regdate=-21	6.75*** (0.67)	7.31*** (0.30)	8.14** (1.56)	7.11*** (1.42)
regdate=-20	7.07*** (0.66)	7.26*** (0.32)	7.96** (1.46)	7.26*** (1.38)
regdate=-19	6.96*** (0.68)	7.01*** (0.36)	7.70** (1.37)	7.31*** (1.44)
regdate=-18	6.83*** (0.70)	6.67*** (0.30)	7.84*** (1.31)	7.17*** (1.54)
regdate=-17	6.63*** (0.72)	6.28*** (0.41)	7.51** (1.30)	6.81*** (1.58)
regdate=-16	6.33*** (0.75)	5.83*** (0.62)	6.98** (1.32)	6.40** (1.67)
regdate=-15	6.67*** (0.79)	5.89*** (0.91)	7.66*** (1.17)	6.79*** (1.66)
regdate=-14	6.30*** (0.82)	5.56*** (1.08)	7.06*** (1.13)	6.46** (1.62)
regdate=-13	5.75***	4.90**	5.76**	6.19**

	(0.87)	(1.34)	(1.05)	(1.72)
regdate=-12	4.95***	4.48*	3.27*	5.46**
	(0.95)	(1.48)	(1.06)	(1.71)
regdate=-11	4.73***	3.85*	2.30	5.03*
	(0.96)	(1.62)	(1.06)	(1.77)
regdate=-10	3.63***	2.44	0.85	3.82
	(0.98)	(1.69)	(1.13)	(1.81)
regdate=-9	1.09	-0.38	-4.62**	0.97
	(1.02)	(1.90)	(1.20)	(1.93)
regdate=-8	-2.20*	-3.74	-11.44***	-2.31
	(1.10)	(1.94)	(1.82)	(2.16)
regdate=-7	-5.55***	-7.70**	-21.11**	-5.74*
	(1.16)	(2.29)	(4.75)	(2.45)
regdate=-6	-9.33***	-12.01***	-27.50**	-9.47**
	(1.24)	(2.41)	(5.50)	(2.68)
regdate=-5	-12.92***	-16.73***	-33.07**	-13.40***
	(1.28)	(2.52)	(6.22)	(2.95)
regdate=-4	-14.66***	-19.14***	-36.19***	-14.98***
	(1.32)	(2.84)	(5.95)	(2.87)
regdate=-3	-16.34***	-21.29***	-39.64***	-16.85***
	(1.34)	(3.19)	(6.04)	(2.95)
regdate=-2	-18.70***	-24.14***	-43.03***	-19.49***
	(1.37)	(3.40)	(6.26)	(2.96)
regdate=-1	-20.68***	-26.26***	-45.40***	-21.49***
	(1.38)	(3.45)	(6.43)	(3.05)
regdate=0	-22.51***	-28.20***	-47.71***	-23.26***
	(1.39)	(3.61)	(6.57)	(3.06)
regdate=1	-23.86***	-29.47***	-49.80***	-24.53***
	(1.39)	(3.75)	(6.92)	(3.10)
regdate=2	-24.87***	-30.41***	-51.32***	-25.57***
	(1.38)	(3.98)	(7.20)	(3.15)
regdate=3	-25.28***	-30.70***	-52.68***	-26.01***
	(1.41)	(4.23)	(7.28)	(3.20)
regdate=4	-25.57***	-31.25***	-53.80***	-26.41***
	(1.41)	(4.40)	(7.34)	(3.20)
regdate=5	-25.84***	-31.56***	-54.50***	-26.76***
	(1.43)	(4.56)	(7.55)	(3.22)
regdate=6	-26.54***	-32.28***	-55.53***	-26.88***
	(1.45)	(4.64)	(7.66)	(3.25)
regdate=7	-28.80***	-32.42***	-56.13***	-28.79***
	(0.83)	(4.84)	(7.85)	(1.77)
regdate=8	-29.24***	-32.87***	-57.30***	-29.22***
	(0.84)	(4.95)	(8.00)	(1.91)
regdate=9	-29.62***	-33.44***	-58.05***	-29.41***
	(0.85)	(5.09)	(8.03)	(1.83)
regdate=10	-29.63***	-33.82***	-58.59***	-29.14***
	(0.88)	(5.22)	(8.16)	(1.90)

regdate=11	-29.68*** (0.90)	-34.08*** (5.47)	-59.16*** (8.21)	-28.88*** (1.94)
regdate=12	-30.24*** (0.90)	-34.51*** (5.40)	-59.70*** (8.32)	-29.14*** (1.93)
regdate=13	-30.48*** (0.91)	-34.77*** (5.44)	-60.22*** (8.46)	-29.42*** (1.95)
regdate=14	-30.62*** (0.94)	-34.82*** (5.44)	-60.47*** (8.66)	-29.40*** (2.07)
regdate=15	-31.07*** (0.97)	-35.28*** (5.52)	-60.91*** (8.78)	-29.48*** (2.16)
regdate=16	-32.10*** (0.99)	-35.83*** (5.48)	-61.89*** (8.88)	-30.40*** (2.25)
regdate=17	-32.14*** (1.02)	-35.89*** (5.61)	-62.03*** (9.00)	-30.41*** (2.36)
regdate=18	-32.47*** (1.04)	-36.21*** (5.63)	-62.58*** (9.04)	-30.76*** (2.48)
regdate=19	-33.14*** (1.03)	-36.99*** (5.50)	-63.08*** (9.68)	-31.10*** (2.40)
regdate=20	-32.78*** (1.04)	-36.70*** (5.51)	-63.05*** (9.82)	-30.65*** (2.37)
regdate=21	-32.33*** (1.07)	-36.54*** (5.58)	-62.58*** (9.34)	-30.04*** (2.37)
regdate=22	-31.83*** (1.07)	-36.20*** (5.59)	-62.50*** (9.43)	-29.68*** (2.40)
regdate=23	-30.58*** (1.09)	-35.56*** (5.79)	-62.24*** (9.61)	-28.74*** (2.41)
regdate=24	-30.19*** (1.10)	-35.17*** (5.79)	-62.32*** (9.76)	-28.13*** (2.41)
regdate=25	-29.33*** (1.10)	-34.17*** (5.90)	-61.71*** (9.98)	-27.02*** (2.36)
regdate=26	-28.44*** (1.12)	-33.55*** (6.05)	-61.39*** (10.08)	-26.26*** (2.36)
regdate=27	-28.28*** (1.11)	-33.53*** (6.06)	-62.14** (11.72)	-26.29*** (2.42)
regdate=28	-28.10*** (1.13)	-33.31*** (6.14)	-62.24** (11.77)	-26.15*** (2.53)
regdate=29	-28.03*** (1.14)	-33.13*** (6.18)	-62.26** (11.81)	-26.21*** (2.53)
regdate=30	-28.02*** (1.16)	-32.85*** (6.27)	-62.42** (11.84)	-25.91*** (2.51)
regdate=31	-27.95*** (1.17)	-32.58*** (6.29)	-62.32** (11.92)	-26.06*** (2.54)
regdate=32	-27.91*** (1.18)	-32.56*** (6.25)	-62.73** (12.03)	-26.06*** (2.50)
regdate=33	-27.45*** (1.20)	-31.93*** (6.36)	-62.66** (12.08)	-25.60*** (2.51)
regdate=34	-27.33***	-31.94***	-62.66**	-25.39***

	(1.21)	(6.45)	(12.07)	(2.50)
regdate=35	-27.12***	-31.95***	-62.55**	-25.29***
	(1.23)	(6.49)	(12.19)	(2.52)
regdate=36	-27.18***	-31.99***	-62.66**	-25.27***
	(1.24)	(6.47)	(12.22)	(2.48)
regdate=37	-26.75***	-31.61***	-62.48**	-25.02***
	(1.26)	(6.48)	(12.33)	(2.50)
regdate=38	-26.26***	-31.16***	-62.09**	-24.54***
	(1.28)	(6.54)	(12.50)	(2.55)
regdate=39	-25.70***	-30.76***	-61.65**	-24.22***
	(1.30)	(6.74)	(12.65)	(2.66)
regdate=40	-25.47***	-30.48***	-61.84**	-23.94***
	(1.30)	(6.72)	(12.87)	(2.69)
regdate=41	-25.18***	-30.12***	-61.62**	-23.68***
	(1.31)	(6.73)	(12.87)	(2.73)
regdate=42	-24.90***	-29.94***	-61.49**	-23.35***
	(1.31)	(6.71)	(12.87)	(2.71)
regdate=43	-24.13***	-29.44***	-60.80**	-22.68***
	(1.32)	(6.70)	(12.92)	(2.72)
regdate=44	-23.92***	-29.39***	-60.74**	-22.62***
	(1.33)	(6.77)	(12.92)	(2.76)
regdate=45	-23.76***	-29.32***	-60.77**	-22.17***
	(1.33)	(6.78)	(12.94)	(2.69)
regdate=46	-23.39***	-29.27**	-60.30**	-22.19***
	(1.34)	(6.80)	(13.04)	(2.78)
regdate=47	-23.18***	-29.11***	-59.88**	-22.00***
	(1.34)	(6.72)	(13.05)	(2.82)
regdate=48	-22.84***	-28.74**	-60.02**	-21.78***
	(1.34)	(6.66)	(13.11)	(2.83)
regdate=49	-22.54***	-28.27**	-59.76**	-21.56***
	(1.35)	(6.63)	(13.18)	(2.85)
regdate=50	-22.50***	-28.09**	-59.77**	-21.31***
	(1.36)	(6.62)	(13.24)	(2.89)
regdate=51	-22.27***	-28.08**	-59.30**	-21.08***
	(1.37)	(6.61)	(13.28)	(2.95)
regdate=52	-21.87***	-27.58**	-59.45**	-20.67***
	(1.38)	(6.61)	(13.32)	(3.00)
regdate=53	-21.61***	-27.07**	-59.33**	-20.05***
	(1.39)	(6.61)	(13.39)	(2.94)
regdate=54	-21.44***	-27.08**	-59.39**	-19.87***
	(1.39)	(6.48)	(13.46)	(2.95)
regdate=55	-21.33***	-27.11**	-59.28**	-19.65***
	(1.40)	(6.46)	(13.56)	(2.97)
regdate=56	-21.25***	-27.13**	-59.27**	-19.47***
	(1.41)	(6.47)	(13.59)	(3.00)
regdate=57	-21.17***	-27.04**	-59.41**	-19.33***
	(1.42)	(6.47)	(13.62)	(3.00)



regdate=58	-21.24*** (1.42)	-27.18** (6.46)	-59.36** (13.59)	-19.36*** (2.93)
regdate=59	-20.94*** (1.42)	-27.05** (6.43)	-58.53** (13.72)	-19.34*** (2.93)
regdate=60	-20.89*** (1.42)	-27.12** (6.52)	-58.34** (13.75)	-19.73*** (2.96)
regdate=61	-26.34*** (1.44)	-31.90*** (6.44)	-61.30** (13.68)	-25.32*** (3.07)
regdate=62	-26.01*** (1.45)	-31.54*** (6.51)	-60.98** (13.63)	-25.21*** (3.10)
regdate=63	-25.50*** (1.46)	-31.11*** (6.49)	-60.61** (13.67)	-24.63*** (3.11)
regdate=64	-24.95*** (1.45)	-30.90*** (6.48)	-60.19** (13.82)	-24.22*** (3.08)
regdate=65	-24.14*** (1.46)	-30.13*** (6.44)	-59.51** (13.83)	-23.52*** (3.09)
regdate=66	-23.37*** (1.48)	-29.09*** (6.42)	-58.17** (14.14)	-22.29*** (3.12)
regdate=67	-22.46*** (1.50)	-28.21*** (6.46)	-56.51** (14.35)	-21.07*** (3.15)
regdate=68	-16.29*** (1.48)	-22.41** (6.59)	-52.86* (14.31)	-15.10*** (3.01)
regdate=69	-16.04*** (1.49)	-22.05** (6.64)	-52.57* (14.38)	-14.79*** (3.06)
regdate=70	-16.01*** (1.50)	-21.46** (6.52)	-52.59* (14.37)	-14.73*** (3.21)
regdate=71	-16.07*** (1.50)	-21.03** (6.50)	-52.76* (14.26)	-14.62*** (3.32)
regdate=72	-15.83*** (1.50)	-20.97** (6.62)	-51.68* (14.43)	-14.36*** (3.26)
regdate=73	-16.03*** (1.51)	-21.17** (6.67)	-52.17* (14.37)	-14.83*** (3.34)
regdate=74	-15.93*** (1.52)	-21.25** (6.73)	-52.03* (14.44)	-14.95*** (3.39)
regdate=75	-15.76*** (1.53)	-21.40** (6.80)	-51.79* (14.48)	-14.85*** (3.35)
regdate=76	-15.68*** (1.53)	-21.13** (6.72)	-51.58* (14.44)	-14.81*** (3.37)
regdate=77	-15.64*** (1.54)	-21.04** (6.70)	-51.60* (14.46)	-14.62*** (3.37)
regdate=78	-15.44*** (1.54)	-21.07** (6.71)	-51.08* (14.47)	-14.23*** (3.25)
regdate=79	-15.29*** (1.55)	-21.03** (6.60)	-50.92* (14.49)	-14.28*** (3.23)
regdate=80	-14.97*** (1.55)	-20.43** (6.51)	-50.69* (14.59)	-14.10*** (3.26)
regdate=81	-14.87***	-20.31**	-50.37*	-13.99***

	(1.56)	(6.52)	(14.63)	(3.25)
regdate=82	-14.99***	-20.41**	-50.28*	-13.88***
	(1.56)	(6.51)	(14.68)	(3.24)
regdate=83	-14.98***	-20.76**	-50.13*	-13.71***
	(1.57)	(6.56)	(14.72)	(3.20)
regdate=84	-15.10***	-20.91**	-50.01*	-13.84***
	(1.57)	(6.59)	(14.77)	(3.23)
regdate=85	-15.01***	-20.78**	-49.84*	-13.70***
	(1.57)	(6.65)	(14.78)	(3.24)
regdate=86	-15.49***	-21.23**	-50.04*	-14.04***
	(1.58)	(6.72)	(14.75)	(3.29)
regdate=87	-15.48***	-21.71**	-50.05*	-13.70***
	(1.58)	(6.79)	(14.72)	(3.18)
regdate=88	-15.31***	-21.66**	-49.98*	-13.63***
	(1.59)	(6.76)	(14.84)	(3.20)
regdate=89	-15.70***	-21.73**	-50.47*	-14.02***
	(1.60)	(6.70)	(14.85)	(3.33)
regdate=90	-15.91***	-21.62**	-50.39*	-14.20***
	(1.61)	(6.63)	(14.90)	(3.34)
regdate=91	-15.55***	-21.79**	-49.95*	-13.84***
	(1.61)	(6.72)	(14.85)	(3.25)
regdate=92	-15.52***	-21.90**	-49.78*	-13.81***
	(1.62)	(6.69)	(14.76)	(3.24)
regdate=93	-15.07***	-21.33**	-49.58*	-13.22***
	(1.62)	(6.67)	(14.85)	(3.24)
regdate=94	-15.29***	-20.99**	-49.92*	-13.89**
	(1.62)	(6.69)	(14.88)	(3.47)
regdate=95	-15.20***	-20.74**	-49.95*	-13.70**
	(1.63)	(6.78)	(14.88)	(3.56)
regdate=96	-14.84***	-20.47*	-49.46*	-13.18**
	(1.62)	(6.83)	(14.86)	(3.45)
regdate=97	-14.78***	-20.04*	-49.07*	-13.23**
	(1.63)	(6.75)	(14.75)	(3.53)
regdate=98	-14.83***	-20.13*	-48.94*	-13.32**
	(1.63)	(6.80)	(14.76)	(3.54)
regdate=99	-15.31***	-20.58*	-48.98*	-13.70**
	(1.64)	(6.79)	(14.68)	(3.54)
regdate=100	-19.11***	-24.15**	-51.67*	-17.85***
	(1.66)	(6.69)	(14.60)	(3.76)
regdate=101	-20.67***	-26.03**	-53.34**	-19.49***
	(1.65)	(6.67)	(14.28)	(3.57)
regdate=102	-21.17***	-26.79**	-53.93**	-20.27***
	(1.65)	(6.73)	(14.22)	(3.49)
regdate=103	-21.89***	-27.29**	-54.32**	-21.19***
	(1.64)	(6.66)	(14.25)	(3.48)
regdate=104	-22.18***	-27.70**	-54.46**	-21.49***
	(1.65)	(6.78)	(14.24)	(3.42)

regdate=105	-22.03*** (1.65)	-27.98** (6.92)	-54.11** (14.29)	-21.39*** (3.31)
regdate=106	-21.58*** (1.65)	-27.70** (7.03)	-54.18** (14.34)	-21.04*** (3.21)
regdate=107	-18.19*** (1.65)	-23.91** (7.05)	-51.86* (14.39)	-17.37*** (3.18)
regdate=108	-16.65*** (1.67)	-22.10* (7.24)	-50.24* (14.55)	-15.37*** (3.38)
regdate=109	-16.12*** (1.68)	-21.61* (7.29)	-50.12* (14.57)	-14.93*** (3.41)
regdate=110	-15.42*** (1.69)	-21.01* (7.36)	-49.38* (14.64)	-13.99*** (3.38)
regdate=111	-15.20*** (1.69)	-20.96* (7.37)	-49.63* (14.80)	-13.80*** (3.38)
regdate=112	-15.17*** (1.71)	-20.86* (7.51)	-49.67* (14.78)	-13.79*** (3.37)
regdate=113	-15.06*** (1.70)	-21.05* (7.59)	-49.54* (14.67)	-13.68*** (3.42)
regdate=114	-15.11*** (1.70)	-20.88* (7.50)	-49.95* (14.60)	-13.76*** (3.42)
regdate=115	-15.26*** (1.71)	-21.10* (7.53)	-50.11* (14.59)	-13.79*** (3.40)
regdate=116	-15.39*** (1.71)	-21.30* (7.59)	-50.21* (14.62)	-13.87*** (3.43)
regdate=117	-15.55*** (1.71)	-21.43* (7.49)	-50.29* (14.55)	-14.12*** (3.49)
regdate=118	-15.64*** (1.72)	-21.51* (7.60)	-50.21* (14.41)	-14.34*** (3.57)
regdate=119	-15.58*** (1.72)	-21.58* (7.49)	-50.27* (14.38)	-14.18*** (3.59)
regdate=120	-15.48*** (1.72)	-21.56* (7.59)	-50.28* (14.42)	-14.07*** (3.57)
regdate=121	-15.29*** (1.74)	-21.53* (7.63)	-49.70* (14.65)	-13.81*** (3.60)
regdate=122	-15.19*** (1.74)	-21.39* (7.58)	-50.05* (14.49)	-13.99*** (3.64)
regdate=123	-15.22*** (1.76)	-21.40* (7.68)	-50.17* (14.53)	-14.10*** (3.74)
regdate=124	-15.23*** (1.76)	-21.33* (7.79)	-50.27* (14.46)	-14.04*** (3.74)
regdate=125	-15.07*** (1.77)	-21.18* (7.81)	-50.16* (14.52)	-13.75*** (3.71)
regdate=126	-15.13*** (1.78)	-21.37* (7.93)	-50.14* (14.60)	-13.68*** (3.68)
regdate=127	-15.30*** (1.78)	-21.39* (7.91)	-50.29* (14.60)	-13.94*** (3.71)
regdate=128	-15.42***	-21.41*	-50.05*	-14.15***

	(1.78)	(7.87)	(14.69)	(3.70)
regdate=129	-15.30***	-21.61*	-49.95*	-13.82**
	(1.77)	(7.96)	(14.77)	(3.54)
regdate=130	-15.30***	-21.38*	-50.19*	-13.83**
	(1.78)	(7.92)	(14.72)	(3.55)
regdate=131	-15.23***	-21.62*	-49.90*	-13.62**
	(1.79)	(7.96)	(14.72)	(3.49)
regdate=132	-16.16***	-24.68**	-50.43*	-14.92***
	(1.78)	(7.90)	(14.78)	(3.50)
regdate=133	-16.14***	-24.58**	-50.35*	-14.96***
	(1.79)	(7.71)	(14.68)	(3.50)
regdate=134	-16.05***	-24.62**	-50.48*	-15.15***
	(1.78)	(7.76)	(14.77)	(3.53)
regdate=135	-15.76***	-24.77**	-50.23*	-14.96***
	(1.78)	(7.82)	(14.70)	(3.45)
regdate=136	-15.60***	-24.51**	-50.25*	-14.78***
	(1.79)	(7.82)	(14.77)	(3.49)
regdate=137	-15.48***	-24.41**	-50.21*	-14.88***
	(1.80)	(7.87)	(14.77)	(3.54)
regdate=138	-15.46***	-24.07**	-50.41*	-14.94***
	(1.80)	(7.83)	(14.68)	(3.60)
regdate=139	-14.42***	-21.06*	-50.27*	-13.59**
	(1.81)	(7.83)	(14.67)	(3.51)
regdate=140	-14.34***	-20.83*	-50.06*	-13.74**
	(1.81)	(7.90)	(14.84)	(3.52)
regdate=141	-14.17***	-20.99*	-49.67*	-13.52**
	(1.82)	(8.04)	(14.82)	(3.47)
regdate=142	-14.08***	-21.17*	-49.82*	-13.66**
	(1.83)	(8.06)	(14.94)	(3.44)
regdate=143	-14.51***	-21.79*	-50.21*	-14.63***
	(1.84)	(8.10)	(14.90)	(3.53)
regdate=144	-14.73***	-22.16*	-50.44*	-15.15***
	(1.84)	(8.13)	(14.93)	(3.55)
regdate=145	-14.61***	-22.11*	-50.70*	-15.22***
	(1.85)	(8.10)	(15.05)	(3.58)
regdate=146	-14.24***	-21.80*	-50.55*	-15.10***
	(1.85)	(8.24)	(15.09)	(3.58)
regdate=147	-13.95***	-21.84*	-50.33*	-14.79***
	(1.86)	(8.27)	(15.09)	(3.55)
regdate=148	-13.72***	-21.83*	-50.17*	-14.62***
	(1.86)	(8.26)	(15.07)	(3.53)
regdate=149	-13.57***	-21.66*	-50.25*	-14.42***
	(1.85)	(8.28)	(15.08)	(3.50)
regdate=150	-13.18***	-21.05*	-50.01*	-13.56**
	(1.85)	(8.23)	(15.16)	(3.41)
regdate=151	-12.98***	-20.55*	-49.84*	-13.21**
	(1.85)	(8.24)	(15.17)	(3.42)

regdate=152	-13.01*** (1.86)	-20.44* (8.11)	-50.15* (15.16)	-12.98** (3.55)
$\sinh^{-1}(\text{total cases})_{t-1}$	-1.63*** (0.27)	-0.68 (0.90)	1.42 (1.56)	-1.85** (0.46)
Rain	-0.01 (0.08)	-0.12 (0.21)	-0.23 (0.35)	-0.30* (0.12)
Hot	0.50* (0.24)	-0.33 (0.32)	1.15* (0.46)	0.23 (0.54)
Cold	-0.67 (2.56)	0.00 (.)	0.00 (.)	0.00 (.)
Constant	9.70*** (0.70)	2.92 (2.77)	-12.85*** (1.84)	-4.17** (1.23)
Observations	25,020	2,533	1,364	3,103
$R^2$	0.941	0.950	0.973	0.968

Notes: Standard errors clustered at the county level in parentheses. Regdate variables show the date relative to when the stay at home order was issued on March 25th, 2020. All regressions contain county and month fixed effects. \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

**Supplemental Table 3: Time Spent at Home**

	(1) Virginia	(2) Hampton Roads	(3) Richmond	(4) Northern Virginia
regdate=-35	0.27* (0.12)	0.18 (0.39)	0.15 (0.27)	0.29 (0.22)
regdate=-33	0.32*** (0.07)	1.41*** (0.13)	-0.16** (0.02)	0.48* (0.19)
regdate=-32	0.31*** (0.08)	1.39*** (0.15)	-0.16 (0.08)	0.45* (0.18)
regdate=-31	0.29*** (0.08)	1.42*** (0.16)	-0.08 (0.07)	0.41 (0.20)
regdate=-30	-0.42*** (0.08)	0.31 (0.18)	-1.43*** (0.11)	-0.26 (0.15)
regdate=-29	-0.40*** (0.09)	0.55** (0.15)	-1.31** (0.22)	-0.07 (0.19)
regdate=-28	-0.50*** (0.09)	0.34 (0.16)	-1.28** (0.25)	-0.14 (0.19)
regdate=-27	-0.84*** (0.08)	-0.29 (0.18)	-1.29** (0.24)	-0.64** (0.17)
regdate=-26	-1.45*** (0.11)	-2.28*** (0.28)	-1.33*** (0.17)	-1.56*** (0.30)
regdate=-25	-1.48*** (0.11)	-2.49*** (0.26)	-1.28*** (0.18)	-1.59*** (0.29)
regdate=-24	-1.55*** (0.11)	-2.61*** (0.27)	-1.26** (0.21)	-1.62*** (0.29)
regdate=-23	-1.65*** (0.12)	-2.82*** (0.28)	-1.37** (0.21)	-1.82*** (0.30)
regdate=-22	-1.70***	-2.86***	-1.30***	-2.06***

	(0.13)	(0.28)	(0.18)	(0.32)
regdate=-21	-1.81***	-2.76***	-1.46***	-2.20***
	(0.13)	(0.25)	(0.17)	(0.31)
regdate=-20	-1.89***	-2.71***	-1.41***	-2.17***
	(0.11)	(0.27)	(0.14)	(0.31)
regdate=-19	-1.71***	-2.29***	-1.27***	-1.88***
	(0.10)	(0.25)	(0.12)	(0.27)
regdate=-18	-1.70***	-2.20***	-1.28***	-1.90***
	(0.10)	(0.26)	(0.11)	(0.28)
regdate=-17	-1.67***	-2.23***	-1.26***	-1.91***
	(0.10)	(0.27)	(0.11)	(0.28)
regdate=-16	-1.66***	-2.17***	-1.14***	-1.85***
	(0.10)	(0.27)	(0.10)	(0.27)
regdate=-15	-1.69***	-2.15***	-1.24***	-1.82***
	(0.10)	(0.24)	(0.12)	(0.24)
regdate=-14	-1.52***	-2.10***	-0.93**	-1.68***
	(0.10)	(0.22)	(0.18)	(0.24)
regdate=-13	-1.40***	-2.11***	-0.42	-1.61***
	(0.12)	(0.19)	(0.37)	(0.23)
regdate=-12	-1.28***	-2.04***	0.32	-1.43***
	(0.15)	(0.21)	(0.44)	(0.30)
regdate=-11	-1.07***	-1.77***	0.97	-1.22**
	(0.17)	(0.25)	(0.59)	(0.35)
regdate=-10	-0.77***	-1.35**	1.90	-0.88
	(0.20)	(0.30)	(0.76)	(0.46)
regdate=-9	0.34	-0.06	3.89**	0.29
	(0.23)	(0.30)	(0.89)	(0.51)
regdate=-8	1.65***	1.60**	6.39**	1.64*
	(0.28)	(0.35)	(1.02)	(0.53)
regdate=-7	2.83***	3.54***	8.01**	2.96***
	(0.27)	(0.48)	(1.84)	(0.41)
regdate=-6	5.05***	5.77***	10.75**	4.62***
	(0.30)	(0.68)	(1.87)	(0.43)
regdate=-5	7.03***	7.97***	12.94**	6.54***
	(0.32)	(0.83)	(2.06)	(0.47)
regdate=-4	7.44***	8.89***	13.97**	7.05***
	(0.36)	(0.88)	(2.28)	(0.61)
regdate=-3	7.54***	9.20***	14.54**	7.26***
	(0.37)	(0.95)	(2.62)	(0.70)
regdate=-2	8.68***	10.70***	16.38**	8.57***
	(0.40)	(1.01)	(2.48)	(0.84)
regdate=-1	9.84***	11.67***	17.41**	9.58***
	(0.39)	(1.01)	(2.54)	(0.75)
regdate=0	11.13***	12.94***	18.70***	10.71***
	(0.40)	(1.09)	(2.42)	(0.81)
regdate=1	11.80***	13.71***	19.09**	11.39***
	(0.39)	(1.16)	(2.83)	(0.72)

regdate=2	12.27*** (0.40)	14.34*** (1.24)	19.64** (2.98)	12.16*** (0.68)
regdate=3	12.05*** (0.43)	14.34*** (1.36)	19.91** (3.18)	12.12*** (0.81)
regdate=4	11.91*** (0.43)	14.20*** (1.40)	19.97** (3.37)	11.92*** (0.85)
regdate=5	11.48*** (0.45)	14.01*** (1.48)	19.54** (3.63)	11.61*** (0.82)
regdate=6	11.81*** (0.49)	14.53*** (1.57)	20.01** (3.73)	12.16*** (0.85)
regdate=7	11.54*** (0.50)	14.46*** (1.67)	19.75** (3.96)	11.74*** (0.82)
regdate=8	11.60*** (0.53)	14.66*** (1.73)	20.17** (4.02)	11.57*** (1.00)
regdate=9	11.72*** (0.56)	14.83*** (1.75)	20.56** (4.06)	11.67*** (1.00)
regdate=10	11.59*** (0.60)	14.97*** (1.80)	20.55** (4.17)	11.27*** (0.97)
regdate=11	11.39*** (0.62)	15.13*** (1.91)	20.64** (4.30)	11.13*** (1.05)
regdate=12	11.71*** (0.63)	15.54*** (1.96)	20.93** (4.27)	11.57*** (1.06)
regdate=13	11.54*** (0.65)	15.42*** (1.97)	20.97** (4.36)	11.41*** (1.07)
regdate=14	11.20*** (0.67)	15.26*** (2.01)	20.83** (4.46)	11.25*** (1.05)
regdate=15	11.11*** (0.68)	15.24*** (1.99)	20.88** (4.45)	11.14*** (1.00)
regdate=16	11.35*** (0.69)	15.44*** (2.00)	21.08** (4.52)	11.38*** (1.02)
regdate=17	11.18*** (0.72)	15.30*** (2.00)	20.91** (4.57)	11.38*** (1.11)
regdate=18	11.02*** (0.73)	15.33*** (2.04)	20.90** (4.65)	11.26*** (1.11)
regdate=19	11.43*** (0.75)	15.81*** (2.09)	21.37** (4.50)	11.77*** (1.13)
regdate=20	11.24*** (0.75)	15.70*** (2.10)	21.20** (4.62)	11.61*** (1.14)
regdate=21	11.17*** (0.77)	15.83*** (2.12)	21.15** (4.68)	11.48*** (1.15)
regdate=22	10.97*** (0.77)	15.58*** (2.12)	21.05** (4.80)	11.30*** (1.18)
regdate=23	10.46*** (0.78)	15.13*** (2.10)	20.75** (4.96)	10.71*** (1.21)
regdate=24	10.33*** (0.79)	15.29*** (2.12)	20.74** (5.01)	10.45*** (1.13)
regdate=25	10.16***	15.06***	20.53**	10.33***

	(0.81)	(2.14)	(5.04)	(1.14)
regdate=26	9.80***	14.95***	20.01*	10.02***
	(0.82)	(2.15)	(5.27)	(1.12)
regdate=27	9.67***	15.00***	19.97*	9.92***
	(0.82)	(2.20)	(5.29)	(1.14)
regdate=28	9.29***	14.50***	19.82*	9.51***
	(0.82)	(2.20)	(5.38)	(1.10)
regdate=29	9.44***	14.65***	19.92*	9.70***
	(0.83)	(2.21)	(5.41)	(1.13)
regdate=30	9.47***	14.78***	20.10*	9.82***
	(0.84)	(2.22)	(5.36)	(1.15)
regdate=31	9.33***	14.59***	19.88*	9.80***
	(0.85)	(2.22)	(5.38)	(1.15)
regdate=32	9.30***	14.56***	20.01*	9.79***
	(0.85)	(2.21)	(5.47)	(1.15)
regdate=33	8.96***	14.13***	19.91*	9.43***
	(0.86)	(2.25)	(5.53)	(1.12)
regdate=34	7.61***	12.94***	19.09*	8.15***
	(0.90)	(2.22)	(5.55)	(1.25)
regdate=35	7.49***	12.74***	18.84*	7.94***
	(0.89)	(2.27)	(5.57)	(1.32)
regdate=36	7.47***	13.00***	19.12*	8.05***
	(0.92)	(2.27)	(5.49)	(1.31)
regdate=37	7.07***	12.78***	18.62*	7.66***
	(0.93)	(2.27)	(5.60)	(1.29)
regdate=38	6.75***	12.51***	18.25*	7.31***
	(0.93)	(2.25)	(5.56)	(1.24)
regdate=39	6.60***	12.27***	18.03*	7.09***
	(0.94)	(2.24)	(5.58)	(1.25)
regdate=40	6.17***	11.84***	17.75*	6.74***
	(0.94)	(2.25)	(5.60)	(1.22)
regdate=41	7.12***	12.80***	18.23*	7.69***
	(0.95)	(2.27)	(5.65)	(1.21)
regdate=42	7.19***	12.97***	18.51*	7.75***
	(0.95)	(2.25)	(5.62)	(1.16)
regdate=43	6.43***	12.28***	17.51*	7.01***
	(0.95)	(2.30)	(5.84)	(1.18)
regdate=44	6.46***	12.12***	17.53*	7.03***
	(0.94)	(2.28)	(5.91)	(1.19)
regdate=45	6.46***	12.15***	17.65*	7.06***
	(0.94)	(2.28)	(5.95)	(1.21)
regdate=46	6.35***	11.97***	17.29*	6.90***
	(0.96)	(2.25)	(5.92)	(1.20)
regdate=47	6.46***	12.06***	17.29*	6.97***
	(0.96)	(2.25)	(5.94)	(1.19)
regdate=48	6.15***	11.80***	17.23*	6.68***
	(0.96)	(2.24)	(6.01)	(1.18)



regdate=49	5.79*** (0.96)	11.47*** (2.26)	16.72* (6.08)	6.27*** (1.26)
regdate=50	5.60*** (0.96)	11.34** (2.28)	16.69* (6.08)	6.09*** (1.19)
regdate=51	5.05*** (0.97)	10.97** (2.31)	16.17* (6.13)	5.66*** (1.13)
regdate=52	4.87*** (0.97)	10.79** (2.33)	15.95* (6.14)	5.53*** (1.12)
regdate=53	4.85*** (0.97)	10.84** (2.32)	16.06* (6.19)	5.57*** (1.12)
regdate=54	4.81*** (0.98)	11.22** (2.37)	15.95* (6.19)	5.67*** (1.10)
regdate=55	4.88*** (0.98)	11.28** (2.36)	15.87 (6.23)	5.82*** (1.14)
regdate=56	5.00*** (0.99)	11.44** (2.35)	15.83 (6.25)	6.07*** (1.13)
regdate=57	5.21*** (0.99)	11.49** (2.35)	15.72 (6.18)	6.29*** (1.21)
regdate=58	5.37*** (1.00)	11.60** (2.34)	16.00* (6.10)	6.39*** (1.26)
regdate=59	5.22*** (1.01)	11.61** (2.39)	15.81* (6.07)	6.27*** (1.27)
regdate=60	5.16*** (1.02)	11.50** (2.35)	15.54 (6.05)	6.16*** (1.27)
regdate=61	5.57*** (1.03)	11.88** (2.36)	15.73* (6.08)	6.44*** (1.30)
regdate=62	4.90*** (1.03)	11.36** (2.38)	15.31 (6.18)	5.84** (1.24)
regdate=63	4.37*** (1.03)	10.88** (2.39)	15.05 (6.28)	5.18** (1.32)
regdate=64	4.00*** (1.03)	10.80** (2.40)	15.08 (6.28)	5.04** (1.30)
regdate=65	3.73*** (1.04)	10.75** (2.42)	14.49 (6.48)	4.85** (1.29)
regdate=66	3.66*** (1.06)	10.83** (2.42)	14.24 (6.45)	4.80** (1.29)
regdate=67	3.46** (1.06)	10.79** (2.46)	14.02 (6.43)	4.53** (1.28)
regdate=68	2.58* (1.06)	9.55** (2.45)	13.37 (6.42)	3.77* (1.26)
regdate=69	2.40* (1.06)	9.33** (2.41)	13.26 (6.45)	3.49* (1.36)
regdate=70	2.01 (1.06)	9.00** (2.31)	13.02 (6.49)	3.06 (1.43)
regdate=71	1.70 (1.05)	8.56** (2.29)	12.68 (6.46)	2.62 (1.41)
regdate=72	1.43	8.26**	12.45	2.40

	(1.07)	(2.36)	(6.45)	(1.42)
regdate=73	1.30	8.06**	12.34	2.26
	(1.06)	(2.35)	(6.44)	(1.42)
regdate=74	1.20	7.96*	12.23	2.15
	(1.07)	(2.38)	(6.44)	(1.42)
regdate=75	1.07	7.84*	12.08	2.03
	(1.08)	(2.39)	(6.49)	(1.43)
regdate=76	0.88	7.61*	11.88	1.81
	(1.08)	(2.38)	(6.50)	(1.43)
regdate=77	0.82	7.44*	11.74	1.71
	(1.07)	(2.39)	(6.45)	(1.43)
regdate=78	0.66	7.50*	11.54	1.84
	(1.08)	(2.45)	(6.46)	(1.40)
regdate=79	0.31	7.27*	10.99	1.58
	(1.08)	(2.48)	(6.52)	(1.38)
regdate=80	0.18	7.09*	10.79	1.41
	(1.09)	(2.47)	(6.48)	(1.38)
regdate=81	0.15	7.04*	10.64	1.35
	(1.10)	(2.45)	(6.46)	(1.38)
regdate=82	0.32	7.33*	10.49	1.70
	(1.11)	(2.43)	(6.44)	(1.41)
regdate=83	0.55	7.88*	10.31	2.15
	(1.12)	(2.48)	(6.47)	(1.39)
regdate=84	0.82	8.04*	10.43	2.64
	(1.13)	(2.46)	(6.38)	(1.38)
regdate=85	0.68	7.65*	10.12	2.30
	(1.14)	(2.43)	(6.37)	(1.43)
regdate=86	0.76	7.45*	10.22	2.41
	(1.14)	(2.42)	(6.32)	(1.42)
regdate=87	0.80	7.61*	10.33	2.45
	(1.14)	(2.42)	(6.35)	(1.41)
regdate=88	0.64	7.48*	10.24	2.30
	(1.14)	(2.42)	(6.33)	(1.41)
regdate=89	0.47	7.23*	10.31	2.03
	(1.13)	(2.38)	(6.36)	(1.35)
regdate=90	0.04	6.52*	10.14	1.38
	(1.12)	(2.37)	(6.34)	(1.41)
regdate=91	-0.64	6.17*	9.55	0.65
	(1.13)	(2.43)	(6.42)	(1.40)
regdate=92	-0.79	6.33*	9.39	0.59
	(1.13)	(2.48)	(6.49)	(1.38)
regdate=93	-1.05	6.24*	9.05	0.35
	(1.13)	(2.45)	(6.59)	(1.37)
regdate=94	-1.19	5.79*	8.82	0.19
	(1.12)	(2.42)	(6.52)	(1.34)
regdate=95	-1.12	5.89*	8.91	0.31
	(1.13)	(2.43)	(6.56)	(1.36)

regdate=96	-1.34 (1.13)	5.57 (2.46)	8.57 (6.59)	0.06 (1.38)
regdate=97	-1.42 (1.13)	5.48 (2.41)	8.42 (6.61)	0.03 (1.35)
regdate=98	-1.51 (1.14)	5.63 (2.50)	8.30 (6.58)	-0.00 (1.34)
regdate=99	-1.81 (1.15)	5.32 (2.55)	7.93 (6.58)	-0.40 (1.38)
regdate=100	-1.33 (1.15)	5.72 (2.51)	8.34 (6.43)	-0.12 (1.44)
regdate=101	-1.22 (1.16)	6.07* (2.53)	8.47 (6.45)	-0.08 (1.44)
regdate=102	-1.28 (1.17)	6.08* (2.55)	8.33 (6.42)	-0.15 (1.44)
regdate=103	-1.18 (1.17)	6.19* (2.49)	8.46 (6.39)	-0.02 (1.47)
regdate=104	-1.15 (1.18)	6.38* (2.49)	8.56 (6.38)	-0.01 (1.46)
regdate=105	-1.12 (1.18)	6.42* (2.56)	8.62 (6.37)	0.15 (1.45)
regdate=106	-0.86 (1.19)	6.70* (2.52)	8.96 (6.38)	0.60 (1.39)
regdate=107	-1.26 (1.17)	6.23* (2.48)	8.61 (6.52)	0.31 (1.35)
regdate=108	-1.37 (1.17)	5.98* (2.52)	8.52 (6.47)	0.23 (1.35)
regdate=109	-1.38 (1.17)	5.92* (2.48)	8.61 (6.51)	0.22 (1.34)
regdate=110	-1.57 (1.18)	5.89* (2.50)	8.45 (6.57)	0.05 (1.32)
regdate=111	-1.63 (1.18)	5.93* (2.55)	8.37 (6.60)	-0.05 (1.35)
regdate=112	-1.69 (1.18)	5.83 (2.55)	8.33 (6.66)	-0.24 (1.35)
regdate=113	-1.78 (1.18)	5.73 (2.60)	8.22 (6.68)	-0.34 (1.35)
regdate=114	-1.80 (1.18)	5.75 (2.58)	8.21 (6.66)	-0.34 (1.33)
regdate=115	-1.82 (1.19)	5.76 (2.61)	8.17 (6.65)	-0.34 (1.34)
regdate=116	-1.82 (1.19)	5.82 (2.62)	8.20 (6.68)	-0.34 (1.34)
regdate=117	-1.71 (1.20)	6.01 (2.63)	8.31 (6.60)	-0.20 (1.37)
regdate=118	-1.57 (1.20)	6.11* (2.61)	8.45 (6.54)	-0.02 (1.35)
regdate=119	-1.42	6.28*	8.71	0.11

	(1.21)	(2.65)	(6.52)	(1.34)
regdate=120	-1.31	6.50*	8.75	0.21
	(1.22)	(2.67)	(6.50)	(1.34)
regdate=121	-1.35	6.48*	8.81	0.10
	(1.23)	(2.68)	(6.51)	(1.37)
regdate=122	-1.41	6.42*	8.73	0.07
	(1.23)	(2.68)	(6.48)	(1.37)
regdate=123	-1.46	6.32*	8.66	-0.02
	(1.23)	(2.68)	(6.48)	(1.37)
regdate=124	-1.58	6.17	8.47	-0.17
	(1.23)	(2.71)	(6.52)	(1.37)
regdate=125	-1.68	6.15	8.33	-0.29
	(1.24)	(2.73)	(6.52)	(1.38)
regdate=126	-1.88	6.16	7.96	-0.37
	(1.25)	(2.77)	(6.52)	(1.39)
regdate=127	-1.96	5.85	7.89	-0.49
	(1.25)	(2.72)	(6.53)	(1.41)
regdate=128	-1.94	5.90	7.89	-0.45
	(1.26)	(2.76)	(6.52)	(1.41)
regdate=129	-1.90	6.06	7.92	-0.43
	(1.27)	(2.80)	(6.54)	(1.42)
regdate=130	-1.89	6.02	7.99	-0.46
	(1.27)	(2.77)	(6.56)	(1.42)
regdate=131	-1.79	6.13	8.18	-0.35
	(1.28)	(2.88)	(6.46)	(1.45)
regdate=132	-1.50	6.84	8.69	0.10
	(1.30)	(3.01)	(6.37)	(1.43)
regdate=133	-1.63	6.44	8.60	0.07
	(1.30)	(2.95)	(6.41)	(1.42)
regdate=134	-1.59	6.59	8.81	0.26
	(1.30)	(2.96)	(6.37)	(1.36)
regdate=135	-1.81	6.51	8.58	0.14
	(1.30)	(3.04)	(6.42)	(1.34)
regdate=136	-1.89	6.39	8.55	0.06
	(1.30)	(3.03)	(6.42)	(1.34)
regdate=137	-1.95	6.28	8.48	-0.01
	(1.30)	(3.03)	(6.43)	(1.33)
regdate=138	-2.24	5.96	8.22	-0.21
	(1.29)	(2.95)	(6.49)	(1.28)
regdate=139	-2.77*	5.15	7.57	-0.79
	(1.27)	(2.85)	(6.56)	(1.29)
regdate=140	-2.67*	5.40	7.80	-0.74
	(1.28)	(2.86)	(6.50)	(1.31)
regdate=141	-2.73*	5.38	7.89	-0.97
	(1.29)	(2.90)	(6.47)	(1.39)
regdate=142	-2.64*	5.58	7.85	-0.88
	(1.30)	(2.92)	(6.50)	(1.40)

regdate=143	-2.43 (1.31)	5.88 (2.87)	7.98 (6.54)	-0.57 (1.43)
regdate=144	-2.33 (1.31)	6.01 (2.88)	8.14 (6.59)	-0.48 (1.45)
regdate=145	-2.42 (1.31)	6.01 (2.89)	8.07 (6.61)	-0.55 (1.45)
regdate=146	-2.54 (1.31)	5.84 (2.85)	7.99 (6.61)	-0.74 (1.47)
regdate=147	-2.72* (1.33)	5.88 (2.92)	7.83 (6.61)	-0.91 (1.47)
regdate=148	-3.05* (1.33)	5.69 (2.93)	7.35 (6.72)	-1.14 (1.45)
regdate=149	-3.20* (1.32)	5.29 (2.93)	7.21 (6.76)	-1.29 (1.45)
regdate=150	-3.43* (1.32)	4.96 (2.95)	7.06 (6.71)	-1.59 (1.41)
regdate=151	-3.54** (1.32)	4.69 (2.89)	6.86 (6.69)	-1.78 (1.40)
regdate=152	-3.53** (1.31)	4.52 (2.89)	6.96 (6.70)	-1.93 (1.35)
$\sinh^{-1}(\text{total cases})_{t-1}$	1.32*** (0.20)	0.22 (0.34)	0.61 (0.66)	1.02*** (0.19)
Rain	0.04 (0.04)	-0.11 (0.07)	0.06 (0.10)	-0.04 (0.04)
Hot	-0.04 (0.10)	0.09 (0.14)	-0.06 (0.28)	0.06 (0.11)
Cold	1.73 (1.10)	0.00 (.)	0.00 (.)	0.00 (.)
Constant	-1.79*** (0.35)	0.29 (0.87)	5.06** (1.14)	1.13 (0.52)
Observations	11,075	1,752	1,169	1,721
$R^2$	0.960	0.978	0.985	0.977

Notes: Standard errors clustered at the county level in parentheses. Regdate variables show the date relative to when the stay at home order was issued on March 25th, 2020. All regressions contain county and month fixed effects. \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

**Supplemental Table 4: Retail and Recreation**

	(1) Virginia	(2) Hampton Roads	(3) Richmond	(4) Northern Virginia
regdate=-35	2.15*** (0.44)	3.09* (1.23)	0.92** (0.17)	2.05** (0.64)
regdate=-33	-1.08*** (0.19)	-2.61*** (0.24)	-0.56** (0.10)	-1.59*** (0.35)
regdate=-32	-1.02*** (0.28)	-2.87*** (0.45)	-0.17 (0.25)	-0.77* (0.28)
regdate=-31	-0.76* (0.35)	-3.32** (0.87)	-0.29 (1.14)	-0.30 (0.52)

	(0.33)	(0.83)	(0.36)	(0.32)
regdate=-30	-1.43**	-4.40**	-2.03*	-1.50*
	(0.45)	(1.25)	(0.69)	(0.63)
regdate=-29	-0.68	-4.31**	-1.97	-1.58*
	(0.52)	(1.36)	(0.92)	(0.60)
regdate=-28	0.40	-3.14	-1.97	-0.46
	(0.56)	(1.50)	(0.90)	(0.66)
regdate=-27	2.10***	-0.54	-1.76	1.80*
	(0.61)	(1.65)	(0.91)	(0.77)
regdate=-26	4.05***	3.32	-1.42	4.41***
	(0.56)	(1.99)	(0.71)	(1.00)
regdate=-25	4.48***	4.62	-1.46	5.29***
	(0.56)	(2.25)	(0.75)	(1.03)
regdate=-24	5.33***	6.19*	-1.21	6.35***
	(0.59)	(2.52)	(0.82)	(1.04)
regdate=-23	7.03***	7.93*	-0.85	8.27***
	(0.60)	(2.67)	(0.85)	(1.29)
regdate=-22	8.81***	9.78**	0.28	10.08***
	(0.66)	(2.82)	(0.75)	(1.24)
regdate=-21	9.10***	9.68**	0.56	10.14***
	(0.64)	(2.80)	(0.93)	(1.10)
regdate=-20	9.11***	9.28**	0.92	9.95***
	(0.62)	(2.68)	(0.89)	(1.15)
regdate=-19	8.09***	7.82**	0.88	9.30***
	(0.63)	(2.50)	(0.97)	(1.03)
regdate=-18	8.20***	7.54*	1.19	9.03***
	(0.66)	(2.49)	(1.06)	(1.05)
regdate=-17	7.87***	7.35*	1.07	8.90***
	(0.64)	(2.42)	(1.03)	(1.02)
regdate=-16	7.76***	7.15*	1.48	8.66***
	(0.63)	(2.34)	(1.16)	(0.97)
regdate=-15	6.67***	6.05*	0.65	7.84***
	(0.61)	(2.21)	(1.38)	(0.99)
regdate=-14	6.45***	5.62*	0.63	7.73***
	(0.62)	(2.11)	(1.39)	(1.07)
regdate=-13	6.50***	6.00*	0.88	7.83***
	(0.59)	(2.06)	(1.50)	(1.11)
regdate=-12	7.29***	6.55*	0.92	8.01***
	(0.62)	(2.25)	(1.71)	(1.23)
regdate=-11	5.79***	5.25	-1.40	6.59***
	(0.66)	(2.49)	(2.01)	(1.35)
regdate=-10	3.08***	2.11	-4.99	3.24*
	(0.72)	(2.74)	(2.27)	(1.45)
regdate=-9	1.09	-0.48	-7.45*	1.20
	(0.76)	(2.89)	(2.67)	(1.61)
regdate=-8	-1.48	-3.57	-10.53*	-1.93
	(0.83)	(3.21)	(2.95)	(1.92)

regdate=-7	-4.84*** (0.85)	-5.96 (3.26)	-16.06* (4.52)	-5.24* (1.97)
regdate=-6	-9.06*** (0.95)	-10.70* (3.52)	-21.15** (4.84)	-9.31*** (2.12)
regdate=-5	-13.93*** (1.00)	-15.45** (3.75)	-26.36** (5.30)	-13.63*** (2.26)
regdate=-4	-18.48*** (1.11)	-19.90*** (3.71)	-30.91** (5.36)	-19.03*** (2.65)
regdate=-3	-21.72*** (1.14)	-22.73*** (4.04)	-34.56*** (5.75)	-22.90*** (2.85)
regdate=-2	-25.12*** (1.22)	-25.91*** (4.12)	-38.89*** (6.00)	-27.25*** (2.98)
regdate=-1	-27.64*** (1.26)	-28.03*** (4.24)	-42.07*** (6.20)	-29.59*** (2.98)
regdate=0	-30.44*** (1.31)	-30.48*** (4.25)	-44.78*** (6.24)	-32.96*** (3.19)
regdate=1	-32.06*** (1.34)	-31.78*** (4.37)	-46.97*** (6.49)	-35.32*** (3.33)
regdate=2	-33.69*** (1.32)	-32.75*** (4.50)	-48.92*** (6.67)	-37.20*** (3.20)
regdate=3	-33.82*** (1.37)	-32.26*** (4.50)	-50.62*** (6.86)	-37.28*** (3.19)
regdate=4	-33.56*** (1.40)	-31.30*** (4.60)	-51.44*** (7.08)	-36.30*** (3.30)
regdate=5	-33.04*** (1.42)	-30.47*** (4.61)	-51.21*** (7.10)	-35.73*** (3.31)
regdate=6	-34.22*** (1.48)	-31.52*** (4.67)	-52.57*** (7.22)	-36.42*** (3.46)
regdate=7	-33.31*** (1.56)	-30.40*** (4.87)	-52.91*** (7.16)	-34.80*** (3.55)
regdate=8	-33.57*** (1.60)	-30.18*** (4.91)	-53.63*** (7.13)	-34.13*** (3.69)
regdate=9	-33.27*** (1.64)	-29.83*** (5.07)	-54.31*** (7.31)	-32.93*** (3.95)
regdate=10	-33.33*** (1.70)	-29.65*** (5.31)	-54.73*** (7.42)	-32.47*** (4.24)
regdate=11	-33.59*** (1.73)	-29.88*** (5.36)	-55.36*** (7.63)	-32.72*** (4.51)
regdate=12	-34.04*** (1.77)	-30.59*** (5.26)	-56.65*** (7.77)	-33.19*** (4.50)
regdate=13	-33.26*** (1.83)	-29.90*** (5.29)	-56.74*** (8.05)	-32.84*** (4.72)
regdate=14	-32.84*** (1.89)	-29.30*** (5.31)	-56.86*** (8.19)	-32.33*** (5.03)
regdate=15	-32.19*** (1.96)	-28.58*** (5.43)	-56.93*** (8.26)	-31.25*** (5.35)
regdate=16	-33.09***	-27.56***	-56.79***	-32.03***

	(2.03)	(5.61)	(8.14)	(5.65)
regdate=17	-32.79***	-26.89***	-56.33***	-31.04***
	(2.05)	(5.70)	(8.20)	(6.52)
regdate=18	-33.02***	-27.91***	-57.90***	-29.93***
	(2.05)	(6.08)	(8.20)	(5.65)
regdate=19	-33.15***	-28.80***	-58.98***	-30.91***
	(2.06)	(6.03)	(8.63)	(5.62)
regdate=20	-32.70***	-27.96***	-59.02***	-30.38***
	(2.09)	(6.06)	(8.62)	(5.73)
regdate=21	-31.50***	-27.00**	-58.56***	-28.62***
	(2.14)	(6.26)	(8.44)	(5.84)
regdate=22	-30.75***	-26.23**	-58.19***	-27.50***
	(2.15)	(6.30)	(8.50)	(5.89)
regdate=23	-29.42***	-25.31**	-57.98***	-26.57***
	(2.19)	(6.38)	(8.63)	(5.86)
regdate=24	-28.86***	-26.30**	-58.10***	-26.28***
	(2.26)	(6.29)	(8.61)	(5.93)
regdate=25	-25.86***	-23.66**	-56.45***	-23.23**
	(2.31)	(6.41)	(8.75)	(5.94)
regdate=26	-24.99***	-23.11**	-55.61***	-22.35**
	(2.32)	(6.46)	(8.72)	(6.00)
regdate=27	-24.11***	-23.16**	-55.77**	-21.76**
	(2.32)	(6.29)	(9.60)	(6.07)
regdate=28	-24.09***	-22.65**	-55.76**	-21.62**
	(2.32)	(6.25)	(9.71)	(6.17)
regdate=29	-24.65***	-23.09**	-56.06**	-22.20**
	(2.33)	(6.27)	(9.78)	(6.17)
regdate=30	-24.83***	-23.29**	-56.05**	-22.60**
	(2.36)	(6.30)	(9.89)	(6.17)
regdate=31	-24.63***	-22.30**	-55.65**	-22.72**
	(2.36)	(6.38)	(9.95)	(6.19)
regdate=32	-24.67***	-22.05**	-55.93**	-22.65**
	(2.38)	(6.45)	(9.98)	(6.27)
regdate=33	-23.88***	-21.01**	-55.85**	-21.55**
	(2.41)	(6.40)	(9.98)	(6.37)
regdate=34	-23.59***	-20.58**	-55.91**	-21.10**
	(2.42)	(6.44)	(10.09)	(6.46)
regdate=35	-22.85***	-20.17**	-55.80**	-20.47**
	(2.45)	(6.33)	(10.20)	(6.51)
regdate=36	-22.29***	-20.70**	-56.30**	-20.49**
	(2.53)	(6.43)	(10.37)	(6.59)
regdate=37	-19.83***	-18.93*	-55.64**	-17.88*
	(2.61)	(6.62)	(10.37)	(6.66)
regdate=38	-17.99***	-16.67*	-54.90**	-16.36*
	(2.68)	(6.86)	(10.34)	(6.75)
regdate=39	-16.81***	-15.60*	-54.40**	-15.17*
	(2.71)	(6.87)	(10.36)	(6.88)



regdate=40	-15.75*** (2.75)	-14.30 (6.92)	-53.63** (10.48)	-14.09 (6.87)
regdate=41	-15.29*** (2.76)	-13.66 (7.00)	-52.62** (10.49)	-13.48 (6.86)
regdate=42	-15.32*** (2.77)	-13.74 (7.00)	-52.84** (10.64)	-13.30 (6.85)
regdate=43	-13.94*** (2.74)	-12.19 (6.84)	-51.55** (10.67)	-11.58 (6.89)
regdate=44	-14.88*** (2.69)	-12.72 (6.77)	-51.74** (10.65)	-12.12 (6.91)
regdate=45	-14.30*** (2.70)	-12.16 (6.88)	-51.81** (10.66)	-11.69 (6.89)
regdate=46	-14.05*** (2.67)	-11.30 (6.84)	-50.49** (10.69)	-11.55 (6.84)
regdate=47	-14.69*** (2.66)	-11.75 (6.76)	-51.01** (10.61)	-12.18 (6.88)
regdate=48	-14.70*** (2.67)	-11.81 (6.69)	-50.92** (10.62)	-12.33 (6.92)
regdate=49	-14.35*** (2.66)	-11.20 (6.66)	-50.11** (10.49)	-12.16 (6.95)
regdate=50	-14.13*** (2.66)	-11.32 (6.58)	-50.25** (10.37)	-12.80 (6.55)
regdate=51	-12.44*** (2.63)	-10.37 (6.45)	-50.00** (10.42)	-11.13 (6.73)
regdate=52	-12.13*** (2.64)	-9.88 (6.39)	-49.70** (10.43)	-10.50 (6.86)
regdate=53	-11.84*** (2.67)	-9.42 (6.55)	-50.36** (10.46)	-10.04 (6.93)
regdate=54	-11.58*** (2.68)	-10.29 (6.54)	-49.92** (10.58)	-10.38 (6.72)
regdate=55	-11.53*** (2.67)	-10.12 (6.55)	-49.65** (10.73)	-10.23 (6.70)
regdate=56	-11.71*** (2.67)	-10.26 (6.63)	-49.36** (10.79)	-10.24 (6.71)
regdate=57	-11.66*** (2.66)	-9.83 (6.67)	-48.52** (10.73)	-9.83 (6.69)
regdate=58	-11.44*** (2.68)	-9.41 (6.64)	-48.24** (10.91)	-9.52 (6.63)
regdate=59	-11.00*** (2.68)	-9.11 (6.46)	-48.05** (10.93)	-9.31 (6.68)
regdate=60	-10.82*** (2.67)	-8.59 (6.38)	-47.65** (10.93)	-9.27 (6.76)
regdate=61	-10.70*** (2.66)	-7.16 (6.18)	-47.23** (10.92)	-9.18 (6.90)
regdate=62	-10.03*** (2.69)	-6.38 (6.14)	-46.92** (10.86)	-8.77 (6.88)
regdate=63	-9.31***	-5.52	-46.72**	-7.95

	(2.71)	(6.11)	(10.85)	(7.02)
regdate=64	-8.25**	-5.37	-46.60**	-7.70
	(2.75)	(6.12)	(10.87)	(7.06)
regdate=65	-8.30**	-5.65	-46.12**	-7.87
	(2.71)	(6.17)	(10.79)	(7.15)
regdate=66	-8.13**	-5.66	-45.23**	-7.45
	(2.70)	(6.22)	(10.79)	(7.20)
regdate=67	-7.46**	-5.00	-44.04**	-6.22
	(2.71)	(6.09)	(10.88)	(7.48)
regdate=68	-5.91*	-3.23	-42.80**	-4.11
	(2.73)	(6.28)	(10.83)	(7.53)
regdate=69	-5.27	-2.20	-42.01**	-3.11
	(2.74)	(6.44)	(10.78)	(7.52)
regdate=70	-4.65	-0.58	-41.11**	-1.77
	(2.80)	(6.73)	(10.68)	(7.56)
regdate=71	-4.59	0.56	-40.26**	-0.68
	(2.84)	(6.79)	(10.51)	(7.57)
regdate=72	-3.28	1.20	-40.57**	-0.13
	(2.81)	(6.47)	(10.71)	(7.61)
regdate=73	-2.64	2.41	-40.08**	0.37
	(2.83)	(6.53)	(10.64)	(7.63)
regdate=74	-2.07	3.20	-39.74*	0.44
	(2.82)	(6.45)	(10.81)	(7.54)
regdate=75	-2.07	3.31	-39.60*	0.03
	(2.81)	(6.38)	(10.94)	(7.52)
regdate=76	-2.00	4.40	-39.28*	0.18
	(2.82)	(6.52)	(10.98)	(7.47)
regdate=77	-2.02	5.04	-38.87*	0.32
	(2.82)	(6.62)	(10.97)	(7.37)
regdate=78	-1.26	5.08	-38.52*	0.60
	(2.81)	(6.40)	(11.19)	(7.48)
regdate=79	-0.51	5.85	-37.41*	1.21
	(2.77)	(6.32)	(11.14)	(7.59)
regdate=80	0.34	6.97	-36.55*	2.00
	(2.77)	(6.36)	(10.98)	(7.86)
regdate=81	0.65	7.87	-36.06*	2.80
	(2.77)	(6.45)	(10.94)	(7.94)
regdate=82	0.47	7.43	-35.68*	2.19
	(2.77)	(6.49)	(10.98)	(7.82)
regdate=83	0.43	6.14	-35.06*	1.62
	(2.77)	(6.27)	(11.03)	(7.86)
regdate=84	0.08	5.97	-34.99*	1.06
	(2.76)	(6.24)	(10.89)	(7.82)
regdate=85	0.31	7.09	-34.42*	1.60
	(2.76)	(6.34)	(10.85)	(7.82)
regdate=86	0.04	7.53	-34.62*	1.34
	(2.77)	(6.35)	(10.70)	(7.74)

regdate=87	0.21 (2.77)	6.84 (6.35)	-34.67* (10.72)	1.67 (7.63)
regdate=88	0.00 (2.77)	6.92 (6.29)	-34.41* (10.44)	0.98 (7.64)
regdate=89	-0.18 (2.79)	7.13 (6.52)	-34.83* (10.25)	1.64 (7.79)
regdate=90	0.40 (2.80)	9.21 (6.51)	-34.87* (10.26)	2.45 (7.80)
regdate=91	1.63 (2.79)	9.66 (6.06)	-34.14* (10.23)	3.34 (7.96)
regdate=92	1.70 (2.80)	9.36 (6.02)	-34.14* (10.16)	2.91 (8.03)
regdate=93	2.11 (2.79)	9.53 (6.15)	-33.69* (10.17)	3.29 (8.01)
regdate=94	1.65 (2.83)	10.62 (6.38)	-33.58* (10.04)	3.20 (8.02)
regdate=95	1.73 (2.84)	10.02 (6.41)	-33.58* (10.15)	3.30 (8.05)
regdate=96	2.62 (2.84)	11.50 (6.24)	-32.66* (10.17)	4.04 (7.99)
regdate=97	3.09 (2.86)	12.21 (6.51)	-32.14* (10.10)	4.54 (8.00)
regdate=98	4.07 (2.87)	12.26 (6.29)	-31.71* (10.11)	5.02 (7.93)
regdate=99	6.13* (2.90)	14.24* (5.99)	-30.37* (10.18)	6.94 (8.01)
regdate=100	7.61* (2.96)	16.47* (6.67)	-29.22* (10.14)	8.31 (8.06)
regdate=101	4.59 (3.16)	14.11* (6.36)	-30.95* (10.18)	5.53 (8.10)
regdate=102	4.29 (3.18)	13.96* (6.21)	-31.84* (10.02)	5.12 (8.26)
regdate=103	4.42 (3.22)	14.74* (6.61)	-32.07* (9.95)	5.44 (8.31)
regdate=104	4.19 (3.22)	14.06 (6.45)	-32.69* (9.98)	5.11 (8.34)
regdate=105	3.88 (3.18)	13.65* (6.19)	-33.23* (9.89)	4.75 (8.44)
regdate=106	2.42 (3.15)	12.03 (6.30)	-34.25* (9.82)	3.05 (8.28)
regdate=107	0.79 (3.11)	10.88 (6.43)	-35.09* (9.79)	2.19 (8.15)
regdate=108	3.27 (3.09)	13.20 (6.65)	-32.87* (9.84)	5.13 (8.22)
regdate=109	3.94 (3.07)	13.96 (6.87)	-31.94* (9.95)	6.03 (8.09)
regdate=110	3.96	13.55	-31.89*	5.60

	(3.06)	(6.86)	(9.94)	(8.05)
regdate=111	3.75	13.71	-31.44*	5.72
	(3.08)	(6.82)	(9.85)	(8.10)
regdate=112	3.74	13.99	-31.26*	5.89
	(3.09)	(6.89)	(9.89)	(8.14)
regdate=113	3.89	14.04	-31.25*	6.20
	(3.09)	(6.65)	(10.00)	(8.18)
regdate=114	3.80	14.48	-30.86*	5.91
	(3.12)	(6.96)	(9.88)	(8.21)
regdate=115	3.73	14.54	-30.81*	6.13
	(3.16)	(6.97)	(9.83)	(8.27)
regdate=116	3.64	14.49	-30.69*	5.96
	(3.15)	(7.00)	(9.79)	(8.32)
regdate=117	3.27	14.27	-31.08*	5.84
	(3.17)	(6.98)	(9.87)	(8.32)
regdate=118	3.04	14.10	-31.42*	5.50
	(3.17)	(7.06)	(9.93)	(8.32)
regdate=119	2.58	13.87	-32.57*	5.13
	(3.17)	(7.03)	(9.97)	(8.26)
regdate=120	2.48	13.48	-32.38*	5.08
	(3.16)	(7.09)	(9.97)	(8.34)
regdate=121	2.82	13.52	-32.75*	5.27
	(3.12)	(6.99)	(10.02)	(8.30)
regdate=122	2.89	13.94	-32.42*	5.34
	(3.12)	(7.12)	(10.05)	(8.33)
regdate=123	2.75	14.25	-32.12*	5.66
	(3.15)	(7.27)	(9.96)	(8.40)
regdate=124	2.86	14.57	-31.71*	5.70
	(3.17)	(7.28)	(9.94)	(8.39)
regdate=125	2.97	14.61	-31.50*	5.84
	(3.18)	(7.27)	(9.79)	(8.41)
regdate=126	3.68	14.52	-30.27*	6.00
	(3.17)	(7.08)	(9.63)	(8.44)
regdate=127	3.82	15.20	-30.42*	6.06
	(3.19)	(7.35)	(9.61)	(8.38)
regdate=128	4.54	14.89	-30.73*	6.53
	(3.18)	(7.40)	(9.82)	(8.50)
regdate=129	5.22	14.53	-30.83*	6.72
	(3.18)	(7.24)	(9.70)	(8.51)
regdate=130	5.18	14.84	-30.66*	6.87
	(3.19)	(7.39)	(9.65)	(8.48)
regdate=131	5.63	14.99	-31.23*	7.51
	(3.20)	(7.07)	(9.86)	(8.53)
regdate=132	6.02	14.40	-31.49*	7.31
	(3.19)	(6.91)	(10.02)	(8.60)
regdate=133	5.85	15.10	-31.55*	7.17
	(3.21)	(7.32)	(10.09)	(8.60)

regdate=134	5.46 (3.23)	14.33 (7.31)	-31.76* (10.09)	6.44 (8.61)
regdate=135	5.27 (3.24)	14.32 (7.01)	-31.62* (9.94)	5.88 (8.54)
regdate=136	5.12 (3.25)	14.61 (7.17)	-31.45* (9.88)	5.63 (8.48)
regdate=137	5.19 (3.28)	14.94 (7.27)	-31.35* (9.90)	5.72 (8.57)
regdate=138	4.77 (3.29)	15.02 (7.54)	-30.65* (9.76)	5.06 (8.48)
regdate=139	4.78 (3.30)	15.68 (7.67)	-30.15* (9.59)	5.22 (8.48)
regdate=140	4.62 (3.28)	15.03 (7.57)	-30.70* (9.55)	4.65 (8.39)
regdate=141	4.93 (3.27)	15.07 (7.13)	-31.16* (9.82)	4.95 (8.42)
regdate=142	4.62 (3.27)	14.58 (7.07)	-31.37* (9.87)	4.67 (8.57)
regdate=143	3.51 (3.26)	13.30 (7.05)	-31.61* (9.96)	2.91 (8.65)
regdate=144	3.01 (3.25)	12.45 (7.07)	-31.79* (9.95)	2.41 (8.53)
regdate=145	2.94 (3.27)	12.43 (7.07)	-31.84* (9.87)	2.62 (8.63)
regdate=146	2.97 (3.26)	12.87 (7.18)	-31.85* (9.87)	2.79 (8.65)
regdate=147	3.48 (3.28)	12.74 (6.97)	-31.74* (10.02)	3.24 (8.76)
regdate=148	3.99 (3.28)	13.07 (6.95)	-31.18* (9.82)	3.66 (8.70)
regdate=149	4.37 (3.28)	13.65 (7.13)	-30.94* (9.78)	4.09 (8.64)
regdate=150	5.55 (3.29)	15.16 (7.24)	-30.89* (9.78)	6.08 (8.61)
regdate=151	5.92 (3.31)	16.21 (7.52)	-30.69* (9.78)	6.74 (8.92)
regdate=152	5.55 (3.34)	15.99 (7.62)	-30.72* (9.64)	7.22 (8.90)
$\sinh^{-1}(\text{total cases})_{t-1}$	-2.14*** (0.47)	-3.18** (1.03)	0.65 (1.06)	-2.60* (1.20)
Rain	-0.20 (0.17)	0.18 (0.27)	0.06 (0.39)	0.05 (0.32)
Hot	0.92 (0.60)	-0.61 (1.15)	-0.68 (0.84)	-0.29 (0.56)
Cold	4.59* (2.08)	0.00 (.)	0.00 (.)	0.00 (.)
Constant	22.88***	4.75	-11.99*	4.56**

	(1.20)	(3.16)	(3.69)	(1.44)
Observations	17,823	2,118	1,365	2,300
R <sup>2</sup>	0.884	0.880	0.962	0.939

Notes: Standard errors clustered at the county level in parentheses. Regdate variables show the date relative to when the stay at home order was issued on March 25th, 2020. All regressions contain county and month fixed effects. \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

**Supplemental Table 5: Grocery and Pharmacy**

	(1) Virginia	(2) Hampton Roads	(3) Richmond	(4) Northern Virginia
regdate=-35	-0.62** (0.21)	-1.77 (0.86)	-0.15 (0.47)	-2.52*** (0.56)
regdate=-33	-1.14*** (0.14)	-2.59*** (0.15)	-0.33* (0.11)	-1.48*** (0.22)
regdate=-32	-1.18*** (0.20)	-3.18*** (0.43)	0.52 (0.24)	-1.34** (0.34)
regdate=-31	-0.79*** (0.23)	-3.26** (0.83)	1.05* (0.38)	-0.83 (0.41)
regdate=-30	-0.90*** (0.25)	-3.64** (0.89)	0.25 (0.79)	-1.19* (0.42)
regdate=-29	-0.79** (0.29)	-3.88*** (0.55)	0.26 (0.75)	-1.28** (0.42)
regdate=-28	-0.44 (0.31)	-3.74*** (0.71)	0.18 (0.81)	-1.11* (0.49)
regdate=-27	-0.36 (0.36)	-4.54*** (0.76)	0.26 (0.85)	-1.53* (0.65)
regdate=-26	1.11** (0.34)	-1.96 (1.05)	0.37 (1.03)	0.34 (0.78)
regdate=-25	1.58*** (0.33)	-0.79 (1.10)	0.49 (1.14)	1.14 (0.78)
regdate=-24	2.49*** (0.38)	0.59 (1.20)	1.27 (1.44)	2.14* (0.83)
regdate=-23	3.43*** (0.38)	1.54 (1.15)	1.79 (1.67)	3.16** (0.89)
regdate=-22	4.82*** (0.41)	3.14* (1.14)	3.26 (1.94)	4.59*** (1.00)
regdate=-21	5.23*** (0.42)	3.92** (1.09)	4.44 (2.10)	4.98*** (0.97)
regdate=-20	5.60*** (0.43)	3.74** (1.10)	4.86 (2.02)	5.26*** (0.95)
regdate=-19	5.07*** (0.44)	3.17* (1.18)	5.49* (2.24)	4.94*** (0.82)
regdate=-18	5.65*** (0.48)	3.02* (1.24)	6.25* (2.39)	5.31*** (0.84)
regdate=-17	5.40*** (0.47)	2.06 (1.10)	6.10* (2.31)	5.29*** (0.79)

regdate=-16	5.79*** (0.47)	2.05 (1.16)	7.25* (2.51)	5.61*** (0.78)
regdate=-15	5.41*** (0.48)	1.65 (1.08)	8.03* (2.79)	5.27*** (0.76)
regdate=-14	5.68*** (0.50)	2.14 (1.03)	9.36* (3.34)	5.55*** (0.77)
regdate=-13	7.70*** (0.53)	4.62** (1.14)	13.13* (4.09)	7.66*** (0.86)
regdate=-12	11.53*** (0.57)	9.14*** (0.97)	17.97* (5.22)	10.91*** (0.96)
regdate=-11	12.83*** (0.59)	11.21*** (1.27)	19.19* (5.31)	11.60*** (0.96)
regdate=-10	13.02*** (0.63)	11.82*** (1.63)	18.44* (5.28)	11.43*** (1.07)
regdate=-9	14.34*** (0.67)	13.16*** (2.20)	19.24* (5.22)	12.64*** (1.25)
regdate=-8	15.24*** (0.74)	14.22*** (2.72)	19.28** (5.16)	13.09*** (1.41)
regdate=-7	15.74*** (0.79)	15.29*** (3.07)	14.12* (4.93)	13.81*** (1.64)
regdate=-6	14.09*** (0.84)	13.23** (3.30)	9.66 (4.73)	12.11*** (1.71)
regdate=-5	11.27*** (0.86)	10.52* (3.63)	4.18 (4.79)	9.90*** (1.96)
regdate=-4	9.32*** (0.93)	8.13* (3.68)	0.53 (5.03)	8.20** (2.35)
regdate=-3	7.09*** (0.96)	6.05 (3.74)	-3.28 (5.47)	6.10* (2.66)
regdate=-2	4.17*** (1.03)	2.83 (3.89)	-8.12 (5.80)	3.36 (2.88)
regdate=-1	1.62 (1.05)	0.48 (3.99)	-12.25 (6.25)	1.32 (3.00)
regdate=0	-1.38 (1.08)	-2.69 (4.08)	-16.50 (6.83)	-1.29 (3.13)
regdate=1	-3.06** (1.11)	-4.09 (4.08)	-19.48* (7.00)	-3.06 (3.32)
regdate=2	-5.31*** (1.13)	-6.53 (4.09)	-22.90* (7.26)	-5.37 (3.36)
regdate=3	-6.59*** (1.14)	-6.58 (4.12)	-25.64* (7.50)	-6.64 (3.35)
regdate=4	-6.95*** (1.19)	-6.44 (4.39)	-27.12* (7.80)	-6.67 (3.50)
regdate=5	-6.67*** (1.21)	-5.77 (4.42)	-26.46* (8.03)	-6.60 (3.44)
regdate=6	-7.81*** (1.24)	-6.81 (4.44)	-28.56* (8.32)	-6.89 (3.65)
regdate=7	-6.59***	-5.19	-28.27*	-5.16

	(1.29)	(4.69)	(8.19)	(3.83)
regdate=8	-6.96***	-5.21	-29.66*	-4.76
	(1.33)	(4.69)	(8.44)	(4.03)
regdate=9	-6.25***	-4.58	-30.29*	-3.68
	(1.39)	(4.96)	(8.50)	(4.20)
regdate=10	-5.68***	-4.51	-30.57*	-2.82
	(1.47)	(5.33)	(8.75)	(4.48)
regdate=11	-5.62***	-4.46	-31.23*	-2.40
	(1.53)	(5.43)	(9.16)	(4.69)
regdate=12	-5.95***	-4.79	-32.93*	-2.68
	(1.57)	(5.46)	(9.23)	(4.94)
regdate=13	-4.64**	-4.10	-33.18*	-1.55
	(1.64)	(5.53)	(9.41)	(5.07)
regdate=14	-4.30*	-3.94	-34.03*	-1.43
	(1.73)	(5.53)	(9.99)	(5.38)
regdate=15	-3.95*	-4.46	-34.85*	-1.81
	(1.77)	(5.61)	(10.32)	(5.42)
regdate=16	-4.19*	-5.47	-36.42*	-2.20
	(1.83)	(5.51)	(11.21)	(5.53)
regdate=17	-5.57**	-6.54	-36.59*	-1.83
	(1.85)	(4.81)	(11.86)	(5.48)
regdate=18	-6.95***	-4.31	-35.10*	0.08
	(2.04)	(6.08)	(11.19)	(6.03)
regdate=19	-7.96***	-6.58	-36.14*	-0.64
	(1.99)	(6.63)	(11.28)	(6.06)
regdate=20	-7.42***	-5.47	-36.82*	-0.67
	(1.97)	(6.61)	(11.44)	(6.10)
regdate=21	-6.28**	-4.84	-37.09*	0.38
	(1.96)	(6.72)	(11.55)	(6.10)
regdate=22	-5.52**	-4.18	-37.38*	1.12
	(1.94)	(6.62)	(11.66)	(6.06)
regdate=23	-5.13**	-5.39	-37.81*	1.15
	(1.93)	(6.31)	(11.83)	(5.99)
regdate=24	-4.90*	-5.85	-37.82*	1.29
	(1.93)	(6.32)	(11.88)	(6.24)
regdate=25	-2.83	-4.13	-36.57*	2.50
	(1.92)	(6.40)	(11.90)	(5.78)
regdate=26	-1.87	-3.33	-36.10*	2.94
	(1.92)	(6.44)	(11.97)	(5.82)
regdate=27	-1.34	-2.75	-36.01*	3.10
	(1.93)	(6.66)	(11.99)	(5.78)
regdate=28	-1.09	-2.25	-36.35*	3.09
	(1.94)	(6.65)	(12.10)	(5.77)
regdate=29	-1.63	-2.72	-36.90*	2.50
	(1.97)	(6.69)	(12.20)	(5.80)
regdate=30	-1.75	-3.23	-37.13*	2.17
	(1.97)	(6.64)	(12.30)	(5.87)



regdate=31	-1.54 (2.00)	-2.64 (6.65)	-37.11* (12.46)	2.32 (5.77)
regdate=32	-1.53 (2.03)	-2.56 (6.69)	-37.52* (12.58)	2.60 (5.91)
regdate=33	-0.69 (2.05)	-1.33 (6.67)	-37.47* (12.61)	3.46 (5.97)
regdate=34	-0.28 (2.06)	-1.13 (6.59)	-37.71* (12.73)	3.99 (5.97)
regdate=35	0.18 (2.09)	-0.23 (6.67)	-37.29* (12.80)	4.51 (5.97)
regdate=36	0.57 (2.11)	-0.71 (6.78)	-38.12* (13.19)	4.29 (5.99)
regdate=37	2.96 (2.17)	3.21 (7.53)	-37.17* (13.32)	7.42 (6.38)
regdate=38	4.59* (2.17)	4.26 (7.42)	-36.90* (13.61)	9.30 (6.28)
regdate=39	5.69* (2.22)	5.09 (7.35)	-36.77* (13.68)	11.12 (6.82)
regdate=40	6.92** (2.23)	6.68 (7.29)	-35.89* (13.92)	11.92 (6.78)
regdate=41	7.50** (2.25)	7.55 (7.33)	-34.87* (14.03)	12.52 (6.88)
regdate=42	7.74*** (2.26)	7.37 (7.33)	-35.18* (14.16)	12.92 (6.90)
regdate=43	9.62*** (2.27)	10.58 (7.49)	-32.93 (13.81)	14.89* (6.73)
regdate=44	9.37*** (2.29)	10.60 (7.42)	-33.05 (14.04)	14.89* (6.94)
regdate=45	10.43*** (2.31)	11.94 (7.44)	-32.20 (13.86)	16.25* (6.91)
regdate=46	11.22*** (2.31)	12.26 (7.29)	-31.69 (14.29)	17.49* (6.77)
regdate=47	10.64*** (2.31)	11.63 (7.37)	-32.28 (14.14)	17.38* (6.84)
regdate=48	10.74*** (2.31)	11.76 (7.26)	-32.50 (14.37)	17.03* (6.56)
regdate=49	11.09*** (2.32)	12.35 (7.23)	-31.53 (14.38)	17.27* (6.61)
regdate=50	11.01*** (2.37)	12.58 (7.36)	-31.59 (14.31)	17.03* (6.64)
regdate=51	11.16*** (2.38)	12.19 (7.24)	-31.05 (14.19)	16.49* (6.37)
regdate=52	10.40*** (2.37)	10.56 (7.13)	-32.26 (14.46)	15.51* (6.38)
regdate=53	9.77*** (2.38)	9.55 (7.13)	-33.24 (14.25)	14.67* (6.51)
regdate=54	9.86***	8.48	-32.79	14.21

	(2.39)	(7.24)	(14.42)	(6.67)
regdate=55	9.56***	8.09	-32.68	13.90
	(2.39)	(7.25)	(14.79)	(6.58)
regdate=56	9.52***	7.57	-32.52	14.17
	(2.40)	(7.14)	(14.85)	(6.86)
regdate=57	9.55***	7.54	-31.86	14.33
	(2.40)	(7.15)	(14.80)	(6.88)
regdate=58	9.96***	7.83	-31.64	14.82
	(2.40)	(7.12)	(14.94)	(6.92)
regdate=59	10.46***	8.60	-30.86	14.89*
	(2.40)	(7.25)	(14.90)	(6.87)
regdate=60	10.76***	8.52	-30.99	15.04*
	(2.41)	(7.01)	(15.02)	(6.78)
regdate=61	11.29***	9.88	-30.64	15.75*
	(2.42)	(7.05)	(15.34)	(6.72)
regdate=62	12.00***	10.15	-30.60	16.17*
	(2.44)	(7.04)	(15.32)	(6.87)
regdate=63	12.42***	10.84	-30.80	16.86*
	(2.46)	(7.14)	(15.35)	(7.01)
regdate=64	12.95***	10.66	-30.72	16.55*
	(2.46)	(7.13)	(15.22)	(7.07)
regdate=65	12.31***	10.03	-30.98	15.69*
	(2.47)	(7.09)	(15.07)	(7.06)
regdate=66	12.21***	9.42	-31.08	15.82*
	(2.49)	(7.11)	(15.12)	(7.13)
regdate=67	12.54***	10.24	-30.52	16.22*
	(2.50)	(7.32)	(15.30)	(7.08)
regdate=68	13.83***	11.68	-30.30	17.60*
	(2.53)	(7.25)	(15.29)	(7.02)
regdate=69	14.34***	12.33	-29.85	18.70*
	(2.52)	(7.13)	(15.35)	(7.02)
regdate=70	15.77***	12.73	-29.25	21.69*
	(2.56)	(6.71)	(15.39)	(7.63)
regdate=71	16.31***	14.09	-28.73	23.17**
	(2.61)	(6.75)	(15.33)	(7.58)
regdate=72	16.96***	15.44	-28.40	23.45**
	(2.56)	(7.23)	(15.32)	(7.45)
regdate=73	17.30***	16.22*	-27.87	23.59**
	(2.57)	(7.13)	(15.26)	(7.56)
regdate=74	17.54***	16.92*	-27.78	23.62**
	(2.57)	(7.25)	(15.22)	(7.39)
regdate=75	17.03***	16.65*	-27.90	22.78**
	(2.57)	(7.26)	(15.27)	(7.32)
regdate=76	16.97***	16.44*	-27.88	23.05**
	(2.56)	(7.01)	(15.03)	(7.45)
regdate=77	16.37***	15.87*	-27.83	22.62**
	(2.54)	(6.97)	(14.79)	(7.45)

regdate=78	16.09*** (2.54)	15.67 (7.32)	-27.58 (14.74)	21.35* (7.44)
regdate=79	16.61*** (2.55)	15.98 (7.47)	-27.03 (14.76)	21.40* (7.37)
regdate=80	16.62*** (2.55)	16.28* (7.35)	-27.35 (14.85)	21.49* (7.34)
regdate=81	16.44*** (2.56)	16.17* (7.26)	-27.37 (14.89)	21.41* (7.38)
regdate=82	15.98*** (2.57)	15.37 (7.37)	-27.36 (14.87)	21.08* (7.52)
regdate=83	15.52*** (2.58)	14.47 (7.73)	-27.12 (15.12)	19.96* (7.49)
regdate=84	14.91*** (2.57)	14.01 (7.72)	-27.52 (14.93)	19.41* (7.50)
regdate=85	15.10*** (2.57)	14.25 (7.59)	-27.27 (14.87)	19.73* (7.49)
regdate=86	14.88*** (2.56)	14.71 (7.53)	-27.79 (14.93)	19.41* (7.41)
regdate=87	15.11*** (2.56)	14.35 (7.56)	-27.56 (15.06)	19.75* (7.43)
regdate=88	15.51*** (2.57)	14.83 (7.56)	-27.64 (15.13)	19.83* (7.43)
regdate=89	15.36*** (2.57)	13.83 (7.12)	-28.44 (15.19)	20.62* (7.74)
regdate=90	16.03*** (2.57)	15.77* (7.19)	-28.23 (15.08)	21.12* (7.71)
regdate=91	17.12*** (2.61)	17.07* (7.62)	-27.17 (14.90)	21.02* (7.49)
regdate=92	17.06*** (2.62)	16.70 (7.76)	-27.48 (15.00)	20.27* (7.50)
regdate=93	17.50*** (2.62)	16.40 (7.63)	-26.98 (14.91)	20.71* (7.49)
regdate=94	17.16*** (2.65)	16.14* (7.24)	-27.42 (14.75)	21.12* (7.78)
regdate=95	16.67*** (2.66)	15.65 (7.40)	-27.80 (14.85)	20.55* (7.86)
regdate=96	17.51*** (2.67)	17.77* (7.67)	-26.95 (14.82)	21.67* (7.75)
regdate=97	17.64*** (2.67)	17.04* (7.24)	-27.17 (14.79)	21.87* (7.61)
regdate=98	18.66*** (2.68)	18.08* (7.74)	-26.82 (14.72)	21.97* (7.46)
regdate=99	20.63*** (2.68)	21.26* (8.13)	-25.62 (14.76)	23.42** (7.33)
regdate=100	23.14*** (2.77)	22.47* (7.48)	-24.20 (15.17)	27.85** (7.88)
regdate=101	23.03***	23.13*	-24.66	27.80**

	(2.78)	(7.86)	(15.44)	(7.92)
regdate=102	22.73***	23.31*	-26.05	27.27**
	(2.80)	(8.35)	(15.30)	(7.83)
regdate=103	22.87***	22.75*	-26.11	27.64**
	(2.81)	(7.91)	(15.30)	(7.95)
regdate=104	23.06***	23.00*	-26.21	27.79**
	(2.81)	(8.18)	(15.32)	(8.10)
regdate=105	22.66***	23.45*	-26.42	27.00**
	(2.80)	(8.69)	(15.38)	(8.00)
regdate=106	20.92***	21.16*	-27.75	25.70**
	(2.80)	(8.47)	(15.43)	(8.20)
regdate=107	17.79***	18.59*	-29.56	22.23*
	(2.75)	(8.33)	(15.12)	(7.99)
regdate=108	18.30***	18.70*	-28.87	22.71*
	(2.78)	(8.20)	(14.74)	(8.02)
regdate=109	18.84***	19.20*	-27.70	23.48*
	(2.77)	(7.97)	(14.86)	(7.95)
regdate=110	18.60***	18.87*	-27.33	22.84*
	(2.76)	(8.15)	(14.69)	(8.00)
regdate=111	18.21***	18.74*	-27.38	22.21*
	(2.76)	(8.23)	(14.68)	(7.78)
regdate=112	18.15***	18.91*	-27.69	22.29*
	(2.76)	(8.16)	(14.76)	(7.77)
regdate=113	18.23***	19.71*	-27.72	22.33*
	(2.76)	(8.53)	(14.82)	(7.68)
regdate=114	18.84***	19.19*	-27.46	22.82**
	(2.75)	(8.20)	(14.87)	(7.64)
regdate=115	18.93***	19.36*	-27.45	22.98**
	(2.78)	(8.43)	(14.93)	(7.67)
regdate=116	19.03***	19.23*	-27.54	22.90**
	(2.79)	(8.39)	(15.10)	(7.65)
regdate=117	19.08***	19.57*	-27.73	23.74**
	(2.81)	(8.52)	(14.95)	(7.63)
regdate=118	18.96***	19.47*	-27.94	23.85**
	(2.83)	(8.52)	(14.93)	(7.76)
regdate=119	18.50***	19.33*	-29.10	23.48**
	(2.82)	(8.63)	(15.02)	(7.70)
regdate=120	18.20***	18.71	-29.02	23.06*
	(2.83)	(8.64)	(15.18)	(7.76)
regdate=121	17.73***	18.87	-29.38	22.66*
	(2.83)	(8.77)	(15.21)	(7.84)
regdate=122	17.71***	18.90	-29.46	22.54*
	(2.84)	(8.78)	(15.26)	(7.88)
regdate=123	17.69***	18.97	-29.52	22.65*
	(2.87)	(8.79)	(15.40)	(7.89)
regdate=124	17.88***	19.08	-29.19	22.76*
	(2.89)	(8.88)	(15.53)	(7.91)

regdate=125	17.86*** (2.90)	18.77 (9.01)	-29.04 (15.51)	22.85* (7.98)
regdate=126	18.13*** (2.93)	18.94 (9.35)	-27.67 (15.52)	22.96* (8.12)
regdate=127	18.02*** (2.94)	18.65 (8.91)	-27.79 (15.33)	23.07* (8.10)
regdate=128	18.14*** (2.91)	18.35 (8.96)	-27.75 (15.44)	23.07* (8.08)
regdate=129	18.20*** (2.90)	18.47 (9.13)	-27.57 (15.44)	22.95* (7.97)
regdate=130	18.32*** (2.92)	18.29 (8.80)	-27.41 (15.45)	23.54* (7.99)
regdate=131	18.50*** (2.90)	20.30* (9.18)	-27.83 (15.40)	24.31** (7.95)
regdate=132	18.27*** (2.90)	19.11 (9.48)	-28.15 (15.57)	23.41** (7.84)
regdate=133	18.34*** (2.89)	18.17 (9.09)	-28.33 (15.54)	23.51** (7.80)
regdate=134	18.08*** (2.88)	17.12 (9.25)	-28.93 (15.57)	23.27* (7.89)
regdate=135	18.11*** (2.87)	17.70 (9.56)	-29.11 (15.49)	23.33** (7.78)
regdate=136	18.01*** (2.88)	17.12 (9.53)	-29.75 (15.42)	23.23* (7.81)
regdate=137	17.93*** (2.88)	16.72 (9.36)	-30.25 (15.51)	22.98* (7.94)
regdate=138	17.54*** (2.90)	14.32 (9.01)	-29.96 (15.35)	22.72* (8.10)
regdate=139	17.97*** (2.89)	15.45 (8.76)	-29.38 (15.03)	23.13* (8.35)
regdate=140	17.50*** (2.87)	15.22 (8.79)	-29.78 (15.08)	22.55* (8.22)
regdate=141	17.66*** (2.87)	16.49 (9.14)	-29.90 (15.12)	22.41* (8.15)
regdate=142	17.02*** (2.88)	15.80 (9.07)	-29.93 (15.13)	21.02* (7.94)
regdate=143	16.05*** (2.87)	14.18 (8.92)	-30.19 (15.22)	19.95* (8.01)
regdate=144	15.85*** (2.87)	13.69 (8.86)	-30.30 (15.19)	19.98* (7.98)
regdate=145	15.74*** (2.87)	13.60 (8.83)	-30.17 (15.26)	19.49* (7.98)
regdate=146	15.79*** (2.88)	13.74 (8.75)	-30.20 (15.23)	19.93* (8.00)
regdate=147	16.34*** (2.90)	14.21 (9.06)	-29.83 (15.03)	20.19* (8.08)
regdate=148	16.60***	14.45	-29.37	20.65*

	(2.92)	(9.22)	(15.04)	(8.01)
regdate=149	16.68***	14.75	-29.29	20.78*
	(2.94)	(9.24)	(15.26)	(8.10)
regdate=150	17.59***	16.39	-28.80	22.23*
	(2.97)	(9.47)	(15.18)	(8.13)
regdate=151	17.75***	16.14	-28.77	22.40*
	(2.98)	(9.19)	(15.33)	(8.09)
regdate=152	17.54***	16.32	-28.81	23.60*
	(3.03)	(9.23)	(15.37)	(8.23)
$\sinh^{-1}(\text{total cases})_{t-1}$	-2.17***	-2.17	2.03	-2.93**
	(0.43)	(1.29)	(1.68)	(0.90)
Rain	-0.17	-0.22	-0.45	-0.16
	(0.15)	(0.45)	(0.51)	(0.25)
Hot	-0.11	0.97	-0.03	-1.78
	(0.68)	(0.97)	(0.50)	(1.17)
Cold	2.73	0.00	0.00	0.00
	(2.36)	(.)	(.)	(.)
Constant	14.76***	17.01***	-6.18	-8.20***
	(0.92)	(2.12)	(2.98)	(1.31)
Observations	17,160	2,100	1,226	2,357
$R^2$	0.756	0.725	0.900	0.718

Notes: Standard errors clustered at the county level in parentheses. Regdate variables show the date relative to when the stay at home order was issued on March 25th, 2020. All regressions contain county and month fixed effects. \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

**Supplemental Table 6: COVID-19 Cases per 1000 People**

	(1)	(2)	(3)	(4)
	Virginia	Hampton Roads	Richmond	Northern Virginia
regdate=-35	-0.00	-0.02	0.01	0.01
	(0.00)	(0.04)	(0.02)	(0.01)
regdate=-33	0.00	0.00	0.00	0.01
	(0.01)	(0.01)	(0.00)	(0.02)
regdate=-32	-0.01	-0.04	0.02	-0.01
	(0.01)	(0.06)	(0.03)	(0.02)
regdate=-31	-0.01	-0.04	0.02	-0.01
	(0.01)	(0.06)	(0.03)	(0.02)
regdate=-30	0.00	-0.03	0.02	-0.01
	(0.00)	(0.04)	(0.03)	(0.01)
regdate=-29	0.01	0.01	0.02	0.04
	(0.02)	(0.02)	(0.07)	(0.06)
regdate=-28	0.01	0.01	0.02	0.06
	(0.01)	(0.02)	(0.07)	(0.05)
regdate=-27	0.01	0.01	0.01	0.06
	(0.02)	(0.02)	(0.05)	(0.05)
regdate=-26	0.00	-0.04	0.00	0.02
	(0.00)	(0.06)	(.)	(0.03)

regdate=-25	-0.00 (0.01)	-0.04 (0.06)	0.00 (.)	0.02 (0.03)
regdate=-24	0.43*** (0.03)	-0.04 (0.06)	0.02 (0.03)	0.48*** (0.11)
regdate=-23	0.44*** (0.03)	-0.04 (0.06)	0.03 (0.03)	0.48*** (0.11)
regdate=-22	0.44*** (0.03)	-0.02 (0.03)	0.03 (0.04)	0.49*** (0.11)
regdate=-21	0.44*** (0.03)	0.01 (0.02)	0.02 (0.07)	0.50*** (0.11)
regdate=-20	0.44*** (0.03)	-0.03 (0.05)	0.00 (0.01)	0.50*** (0.11)
regdate=-19	0.44*** (0.03)	0.01 (0.02)	0.00 (0.02)	0.52*** (0.13)
regdate=-18	0.44*** (0.03)	0.01 (0.02)	0.01 (0.03)	0.52*** (0.12)
regdate=-17	0.43*** (0.03)	-0.04 (0.06)	0.00 (.)	0.51*** (0.11)
regdate=-16	0.44*** (0.03)	-0.04 (0.06)	0.02 (0.03)	0.51*** (0.11)
regdate=-15	0.44*** (0.03)	-0.02 (0.03)	0.03 (0.04)	0.51*** (0.11)
regdate=-14	0.44*** (0.03)	-0.01 (0.01)	0.03 (0.04)	0.49*** (0.11)
regdate=-13	0.44*** (0.03)	-0.03 (0.06)	0.00 (0.01)	0.52*** (0.12)
regdate=-12	0.45*** (0.04)	0.01 (0.02)	0.02 (0.07)	0.55** (0.14)
regdate=-11	0.44*** (0.03)	-0.00 (0.01)	0.01 (0.03)	0.53*** (0.12)
regdate=-10	0.44*** (0.04)	0.00 (0.01)	0.01 (0.05)	0.53*** (0.12)
regdate=-9	0.44*** (0.03)	-0.03 (0.05)	0.01 (0.05)	0.49*** (0.12)
regdate=-8	0.94*** (0.11)	1.26 (0.61)	2.46* (0.73)	1.33** (0.40)
regdate=-7	0.44*** (0.07)	-0.09 (0.16)	-0.58 (0.26)	0.95 (0.45)
regdate=-6	0.41*** (0.05)	-0.06 (0.14)	0.48 (0.57)	0.39 (0.20)
regdate=-5	0.54*** (0.09)	1.48* (0.59)	-0.67 (0.56)	0.32 (0.22)
regdate=-4	0.65*** (0.09)	0.98 (0.51)	0.76 (0.47)	0.64* (0.25)
regdate=-3	0.77*** (0.12)	0.75 (0.53)	0.03 (0.51)	0.58 (0.29)
regdate=-2	0.39***	-0.34	-0.17	0.70*

	(0.09)	(0.27)	(0.67)	(0.27)
regdate=-1	0.53***	0.59	0.28	0.75*
	(0.09)	(0.46)	(0.40)	(0.28)
regdate=0	0.99***	0.39	1.39	0.66*
	(0.14)	(0.40)	(0.82)	(0.28)
regdate=1	0.73***	0.86	1.00	0.58
	(0.13)	(0.47)	(0.69)	(0.36)
regdate=2	0.90***	0.78	0.84	0.56
	(0.15)	(0.64)	(0.65)	(0.43)
regdate=3	0.92***	1.54**	1.16	1.48*
	(0.15)	(0.51)	(0.72)	(0.57)
regdate=4	0.75***	0.57	1.10	0.92*
	(0.14)	(0.54)	(0.70)	(0.36)
regdate=5	0.82***	0.65	0.06	1.30
	(0.16)	(0.45)	(0.97)	(0.66)
regdate=6	1.05***	1.87*	1.12	1.88***
	(0.17)	(0.61)	(0.69)	(0.43)
regdate=7	0.46**	2.03***	0.93	0.93
	(0.15)	(0.28)	(0.73)	(0.64)
regdate=8	0.41*	0.80	0.84	1.22
	(0.16)	(0.75)	(0.80)	(0.64)
regdate=9	0.91***	1.43	0.99	1.71*
	(0.20)	(0.87)	(0.76)	(0.60)
regdate=10	0.83***	2.52**	0.98	1.36*
	(0.18)	(0.62)	(0.68)	(0.59)
regdate=11	0.00	0.67	0.37	0.20
	(0.17)	(0.49)	(0.71)	(0.58)
regdate=12	0.03	0.90	1.27	-0.66
	(0.16)	(0.51)	(0.85)	(0.49)
regdate=13	0.92***	1.42**	1.40	1.31*
	(0.20)	(0.45)	(0.83)	(0.57)
regdate=14	0.26	0.72	0.35	1.33*
	(0.19)	(0.67)	(0.78)	(0.62)
regdate=15	0.34	0.22	1.15	-0.31
	(0.19)	(0.75)	(0.94)	(0.62)
regdate=16	0.87***	0.59	1.25	2.12***
	(0.19)	(0.45)	(0.86)	(0.41)
regdate=17	0.54**	0.49	1.34	0.54
	(0.20)	(0.60)	(0.91)	(0.71)
regdate=18	-0.88***	-0.44	0.15	-1.19
	(0.18)	(0.72)	(0.94)	(0.58)
regdate=19	0.04	0.82	1.16	0.11
	(0.19)	(0.88)	(1.13)	(0.54)
regdate=20	-0.15	0.28	0.76	0.06
	(0.21)	(0.82)	(1.07)	(0.64)
regdate=21	-0.46**	-0.85	0.74	-0.29
	(0.17)	(0.41)	(0.88)	(0.65)



regdate=22	-0.30 (0.19)	0.39 (0.72)	0.99 (0.94)	-0.66 (0.63)
regdate=23	0.26 (0.20)	0.28 (0.73)	1.08 (0.99)	1.03 (0.65)
regdate=24	-0.13 (0.21)	0.86 (0.92)	1.27 (0.96)	-0.01 (0.73)
regdate=25	-0.83*** (0.21)	0.17 (0.87)	1.13 (0.98)	-1.60** (0.53)
regdate=26	-0.59** (0.21)	-1.06 (0.78)	1.99* (0.65)	-0.25 (0.68)
regdate=27	-0.10 (0.20)	-0.14 (0.73)	0.85 (1.41)	0.60 (0.65)
regdate=28	-0.16 (0.19)	0.24 (0.92)	1.08 (0.77)	-1.09 (0.60)
regdate=29	0.33 (0.21)	0.73 (1.01)	0.67 (1.37)	0.49 (0.78)
regdate=30	-0.62** (0.19)	-0.61 (0.72)	0.77 (1.40)	-1.32 (0.63)
regdate=31	-0.09 (0.22)	0.36 (0.70)	1.64 (0.73)	-0.72 (0.73)
regdate=32	-0.54* (0.21)	0.15 (0.89)	0.40 (1.32)	-0.24 (0.61)
regdate=33	-0.59** (0.19)	-1.44* (0.55)	0.63 (1.34)	-0.57 (0.63)
regdate=34	-0.38 (0.21)	0.19 (0.79)	0.76 (1.42)	-1.22 (0.61)
regdate=35	-0.27 (0.20)	-0.69 (0.80)	0.81 (1.46)	-0.46 (0.60)
regdate=36	0.25 (0.22)	0.87 (0.86)	0.74 (1.47)	-0.42 (0.71)
regdate=37	0.05 (0.21)	0.33 (0.76)	0.78 (1.45)	-0.21 (0.63)
regdate=38	-0.19 (0.20)	-0.67 (0.59)	0.81 (1.51)	-0.37 (0.63)
regdate=39	-0.50* (0.22)	0.16 (0.71)	1.77* (0.55)	-0.89 (0.72)
regdate=40	-0.46* (0.22)	-0.42 (0.74)	1.19 (0.80)	-0.22 (0.68)
regdate=41	-0.57* (0.22)	0.48 (0.80)	0.50 (1.48)	-0.93 (0.68)
regdate=42	-0.33 (0.19)	-0.50 (0.73)	0.44 (1.49)	-0.62 (0.68)
regdate=43	-0.57** (0.20)	-0.32 (0.54)	0.18 (1.43)	-1.38 (0.70)
regdate=44	-0.71*** (0.21)	0.39 (0.73)	1.20 (0.92)	-1.39 (0.73)
regdate=45	-0.34	0.08	0.30	-1.77*

	(0.23)	(1.02)	(1.42)	(0.70)
regdate=46	-0.68**	0.22	0.63	-0.35
	(0.22)	(0.86)	(1.52)	(0.71)
regdate=47	-0.64**	-0.42	0.67	-1.08
	(0.20)	(0.78)	(1.61)	(0.65)
regdate=48	-0.60**	-0.76	-0.27	0.09
	(0.23)	(0.56)	(1.38)	(0.74)
regdate=49	-0.21	-0.52	1.44	-0.73
	(0.21)	(0.82)	(0.79)	(0.76)
regdate=50	-0.47*	-0.31	0.75	0.57
	(0.22)	(1.03)	(1.58)	(0.72)
regdate=51	-0.46*	0.51	0.99	0.03
	(0.21)	(0.77)	(0.88)	(0.77)
regdate=52	-0.47*	-1.49*	1.37	-0.58
	(0.22)	(0.66)	(0.86)	(0.78)
regdate=53	-1.20***	-0.95	0.87	-2.13**
	(0.20)	(0.71)	(0.86)	(0.62)
regdate=54	-0.58**	0.47	0.37	0.28
	(0.22)	(0.91)	(1.54)	(0.69)
regdate=55	-0.25	-1.61*	0.47	0.84
	(0.23)	(0.56)	(1.57)	(0.76)
regdate=56	-1.02***	-1.29	0.22	-0.37
	(0.20)	(0.64)	(1.49)	(0.73)
regdate=57	-0.45	0.36	1.50	0.09
	(0.24)	(0.93)	(0.89)	(0.66)
regdate=58	-0.75***	-0.49	0.33	-1.83*
	(0.21)	(0.56)	(1.51)	(0.70)
regdate=59	-0.61**	0.19	0.71	0.61
	(0.22)	(0.95)	(0.99)	(0.73)
regdate=60	-1.34***	-0.58	-0.86	-3.09***
	(0.20)	(0.69)	(1.57)	(0.48)
regdate=61	-0.37	-0.01	1.33	-1.50*
	(0.21)	(0.75)	(1.04)	(0.64)
regdate=62	0.23	-0.76	1.47	1.04
	(0.22)	(0.58)	(1.06)	(0.69)
regdate=63	-0.56*	-1.28	1.07	-0.13
	(0.22)	(0.79)	(0.66)	(0.65)
regdate=64	-0.13	0.14	0.12	0.19
	(0.22)	(0.94)	(1.52)	(0.76)
regdate=65	-0.57*	-0.96	1.24	0.74
	(0.23)	(0.89)	(0.84)	(0.65)
regdate=66	-0.34	-0.84	0.15	0.16
	(0.21)	(0.75)	(1.59)	(0.63)
regdate=67	-0.61**	-0.26	-0.13	-0.39
	(0.22)	(0.70)	(1.61)	(0.79)
regdate=68	-0.74***	-0.82	-0.57	-0.70
	(0.20)	(0.67)	(1.48)	(0.75)

regdate=69	-0.50*	-0.50	-0.33	-0.32
	(0.21)	(0.81)	(1.56)	(0.72)
regdate=70	-1.15***	-0.84	-0.36	-1.21
	(0.22)	(0.75)	(1.49)	(0.77)
regdate=71	-0.67**	-1.58*	0.58	-0.36
	(0.22)	(0.71)	(0.89)	(0.80)
regdate=72	-0.78***	-0.09	-0.28	-0.55
	(0.22)	(0.90)	(1.51)	(0.66)
regdate=73	-0.38	-0.94	0.02	0.10
	(0.22)	(0.77)	(1.52)	(0.80)
regdate=74	-0.48*	-0.00	0.14	-0.31
	(0.23)	(0.78)	(1.56)	(0.69)
regdate=75	-1.46***	-0.87	-0.35	-1.18
	(0.23)	(0.61)	(1.51)	(0.79)
regdate=76	-1.32***	-0.92	-0.81	-0.76
	(0.21)	(0.73)	(1.40)	(0.66)
regdate=77	-1.06***	-0.94	-1.06	-0.82
	(0.20)	(0.87)	(1.36)	(0.69)
regdate=78	-0.95***	0.86	-1.03	-1.61*
	(0.22)	(0.69)	(1.46)	(0.67)
regdate=79	-0.72***	-0.09	-1.16	0.02
	(0.21)	(0.45)	(1.49)	(0.73)
regdate=80	-0.64**	0.17	-0.63	1.03*
	(0.22)	(0.73)	(1.45)	(0.37)
regdate=81	-1.16***	0.17	-0.47	-0.78
	(0.21)	(0.61)	(1.42)	(0.65)
regdate=82	-1.37***	-0.99	-1.08	-0.26
	(0.20)	(0.69)	(1.36)	(0.67)
regdate=83	-0.83***	-0.21	-0.58	-0.83
	(0.22)	(0.64)	(0.52)	(0.71)
regdate=84	-1.10***	-1.26	-1.23	-0.42
	(0.21)	(0.78)	(1.33)	(0.77)
regdate=85	-1.05***	-1.15	-0.81	-0.38
	(0.20)	(0.57)	(1.48)	(0.67)
regdate=86	-1.10***	-0.45	-1.02	0.19
	(0.23)	(0.57)	(1.44)	(0.67)
regdate=87	-0.75**	0.08	-0.31	-0.50
	(0.24)	(0.52)	(0.74)	(0.75)
regdate=88	-1.20***	0.04	-0.66	-2.03*
	(0.23)	(0.68)	(1.43)	(0.79)
regdate=89	-1.06***	-0.44	-1.16	-1.18
	(0.22)	(0.62)	(1.33)	(0.65)
regdate=90	-0.82***	-0.67	-1.19	-0.25
	(0.22)	(0.87)	(1.32)	(0.64)
regdate=91	-1.12***	-0.39	-1.22	-0.13
	(0.24)	(0.79)	(1.30)	(0.90)
regdate=92	-1.22***	-0.32	-1.16	-0.80

	(0.21)	(0.67)	(1.32)	(0.71)
regdate=93	-1.06***	0.28	-0.97	-0.63
	(0.23)	(0.48)	(1.38)	(0.68)
regdate=94	-0.81***	0.28	-0.83	-0.63
	(0.23)	(0.70)	(1.38)	(0.78)
regdate=95	-1.44***	-0.66	-0.97	-2.46***
	(0.22)	(0.67)	(1.33)	(0.56)
regdate=96	-1.23***	0.68	-2.32	-1.42
	(0.26)	(0.72)	(1.26)	(0.67)
regdate=97	-0.65**	0.74	-1.00	-1.36
	(0.25)	(0.81)	(1.32)	(0.71)
regdate=98	-1.05***	0.37	-1.71	-1.70*
	(0.25)	(0.87)	(1.55)	(0.72)
regdate=99	-0.63**	-0.37	-0.60	-1.13
	(0.21)	(0.84)	(0.65)	(0.75)
regdate=100	-0.58*	0.39	-0.14	0.60
	(0.23)	(0.90)	(0.85)	(0.47)
regdate=101	-0.88***	1.03	-0.55	-2.16**
	(0.23)	(0.86)	(1.35)	(0.58)
regdate=102	-0.95***	0.91	0.25	-1.70*
	(0.21)	(0.69)	(0.79)	(0.70)
regdate=103	-1.43***	0.25	-2.28	-1.58*
	(0.24)	(0.72)	(1.37)	(0.73)
regdate=104	-0.59*	1.23	-1.35	0.04
	(0.23)	(0.87)	(1.27)	(0.51)
regdate=105	-0.92***	1.23	-1.07	-1.46*
	(0.22)	(0.86)	(1.35)	(0.67)
regdate=106	-0.91***	2.17**	-1.93	-2.29**
	(0.26)	(0.62)	(1.22)	(0.64)
regdate=107	-0.28	1.28	-0.70	-0.86
	(0.24)	(0.87)	(1.38)	(0.64)
regdate=108	-0.14	1.10	-0.08	-0.78
	(0.22)	(0.91)	(0.69)	(0.73)
regdate=109	-0.59*	0.98	-1.14	0.05
	(0.25)	(1.03)	(1.33)	(0.53)
regdate=110	-0.18	2.33**	-1.27	-0.48
	(0.24)	(0.54)	(1.43)	(0.58)
regdate=111	-0.37	2.10**	-1.25	-0.24
	(0.25)	(0.51)	(1.20)	(0.71)
regdate=112	-0.17	1.32	-0.01	0.43
	(0.22)	(0.73)	(0.67)	(0.53)
regdate=113	-0.57*	1.49	-1.08	-1.34
	(0.25)	(0.95)	(1.27)	(0.83)
regdate=114	-0.09	1.79*	-0.79	-0.05
	(0.24)	(0.65)	(1.35)	(0.64)
regdate=115	-0.27	1.78*	-0.64	-1.21
	(0.23)	(0.79)	(1.35)	(0.68)

regdate=116	-0.60*	2.29***	-0.90	-0.27
	(0.25)	(0.50)	(1.35)	(0.56)
regdate=117	-0.27	1.94*	-0.49	-1.05
	(0.24)	(0.75)	(0.72)	(0.64)
regdate=118	-0.50	1.64*	-1.03	0.29
	(0.25)	(0.59)	(1.26)	(0.49)
regdate=119	-0.17	1.38*	-0.57	-1.14
	(0.25)	(0.59)	(1.43)	(0.66)
regdate=120	-0.36	1.48	-0.08	-0.69
	(0.24)	(0.85)	(0.72)	(0.80)
regdate=121	-0.00	2.21**	-1.00	-0.03
	(0.24)	(0.61)	(1.43)	(0.61)
regdate=122	-0.29	1.77	-1.01	-0.67
	(0.25)	(0.88)	(1.27)	(0.71)
regdate=123	-0.21	1.24	-1.18	-0.62
	(0.25)	(0.96)	(1.30)	(0.67)
regdate=124	0.05	1.95**	-0.20	0.15
	(0.25)	(0.61)	(1.43)	(0.59)
regdate=125	-0.18	0.93	-0.70	0.39
	(0.24)	(0.84)	(1.34)	(0.61)
regdate=126	-0.60*	0.15	-0.33	-0.41
	(0.24)	(0.87)	(0.62)	(0.52)
regdate=127	-0.53*	1.19	0.19	-0.29
	(0.24)	(0.56)	(0.54)	(0.65)
regdate=128	-0.32	1.73*	-1.16	-0.32
	(0.25)	(0.67)	(1.32)	(0.53)
regdate=129	-0.31	0.96	-1.13	-0.15
	(0.25)	(0.86)	(1.36)	(0.49)
regdate=130	-0.52*	1.44	-1.30	-1.10
	(0.25)	(0.86)	(1.31)	(0.69)
regdate=131	-0.34	1.95*	-0.77	-0.24
	(0.26)	(0.87)	(1.43)	(0.69)
regdate=132	-0.31	2.14*	-0.79	-0.19
	(0.23)	(0.71)	(1.38)	(0.59)
regdate=133	-0.29	1.07	-0.45	-0.85
	(0.25)	(0.89)	(0.73)	(0.60)
regdate=134	-0.54*	-0.17	-0.33	-0.06
	(0.27)	(0.97)	(0.78)	(0.49)
regdate=135	1.07***	2.50**	-0.32	0.86
	(0.22)	(0.72)	(1.52)	(0.49)
regdate=136	0.45	1.46	-0.56	0.68
	(0.23)	(0.93)	(1.41)	(0.42)
regdate=137	-0.36	1.44	-0.84	-0.52
	(0.27)	(0.72)	(1.42)	(0.59)
regdate=138	-1.21***	-0.27	-0.27	-1.98*
	(0.27)	(0.78)	(0.78)	(0.78)
regdate=139	-0.28	0.29	-0.78	0.30

	(0.27)	(1.05)	(1.37)	(0.54)
regdate=140	-0.55*	0.63	-0.23	-0.59
	(0.26)	(1.01)	(0.77)	(0.75)
regdate=141	0.16	1.05	-0.15	-0.72
	(0.23)	(0.89)	(0.76)	(0.76)
regdate=142	0.23	1.59	-0.45	-0.42
	(0.22)	(0.96)	(1.49)	(0.66)
regdate=143	-0.22	1.08	-0.75	0.22
	(0.25)	(0.71)	(1.43)	(0.51)
regdate=144	-0.56*	1.16	-0.57	0.14
	(0.25)	(0.86)	(1.50)	(0.49)
regdate=145	-0.64*	1.50	-0.27	-0.53
	(0.27)	(0.70)	(0.78)	(0.55)
regdate=146	-0.48*	0.72	-0.86	-0.92
	(0.24)	(0.86)	(1.42)	(0.60)
regdate=147	-0.92***	0.41	-0.85	-0.27
	(0.22)	(1.07)	(1.43)	(0.57)
regdate=148	-0.37	0.65	-0.12	0.17
	(0.24)	(0.56)	(0.79)	(0.54)
regdate=149	-0.09	1.81	-0.78	-0.12
	(0.26)	(0.84)	(1.43)	(0.55)
regdate=150	0.06	1.10	-0.60	0.52
	(0.23)	(1.01)	(1.48)	(0.42)
regdate=151	-0.82***	0.74	-0.76	-0.17
	(0.24)	(0.91)	(1.46)	(0.56)
regdate=152	-0.57**	0.81	-0.70	-0.47
	(0.20)	(0.75)	(1.23)	(0.49)
$\sinh^{-1}(\text{total cases})_{t-1}$	0.72***	0.56***	0.63**	0.73***
	(0.03)	(0.09)	(0.13)	(0.07)
Rain	-0.01	-0.06	-0.03	-0.05
	(0.03)	(0.10)	(0.09)	(0.09)
Hot	-0.00	0.03	-0.15	0.19
	(0.07)	(0.08)	(0.12)	(0.18)
Cold	-0.01	0.00	0.00	0.00
	(0.13)	(.)	(.)	(.)
Constant	-0.16**	-0.36	0.11	-0.26*
	(0.06)	(0.20)	(0.27)	(0.09)
Observations	25,418	2,535	1,365	3,106
$R^2$	0.462	0.600	0.829	0.518

Standard errors clustered at the county level in parentheses. Regdate variables show the date relative to when the stay at home order was issued on March 25th, 2020. All regressions contain county and month fixed effects. \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$