Online Appendix

Crisis, Resilience, and Civic Engagement: Pandemic-Era Census Completion

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A: Relevant Survey Questions

YouGov Survey Instrument

- Has your household completed the 2020 Census?
- Does your household rent the place you live?
- Within the last three months, was your household allowed to reduce or pause rent/mortgage payments without penalty?
- Compared to this time last year, does your household now have more overdue bills for basic expenses?
- Compared to this time last year, does your household now have more overdue rent/mortgage payments?
- In April 2020, was your household's total income at least 50% lower than usual?



B: Census Response Map

C: Supplemental Quantitative Data

TABLE 1. Likeliho	od of Using Sti	mulus Fune	ds (Odds Ratios)	
		(1)	(2)	
	Unemployed	0.894	0.892	
		(-0.77)	(-0.81)	
	Shocks (0-3)	1.665***	1.674***	
		(8.41)	(8.59)	
	Income	0.555***	0.555***	
		(-16.73)	(-16.37)	
	Female	2.123***	2.144***	
		(10.21)	(10.11)	
	Age	0.997	0.997	
		(-1.11)	(-1.31)	
	Non-white	1.528***	1.569***	
		(5.29)	(5.32)	
	College	0.691***	0.679***	
		(-5.47)	(-5.60)	
	Constant	0.184***	0.166***	
		(-8.12)	(-9.98)	
	Observations	62688	62688	
	Pseudo R ²	0.226	0.237	
	Exponentiated co	efficients; t sta	atistics in parentheses	
	Robust standard e	errors clustere	d by state; state fixed effects in Model 2	
	+ <i>p</i> < 0.10, * <i>p</i> <	0.05, ** <i>p</i> <	0.01, *** <i>p</i> < 0.001	

	Unemployed	Income Loss	Severe Crisis
Housing relief	1.487	1.254	1.392
	(1.36)	(0.78)	(0.99)
Unemployed	0.463***		
	(-3.39)		
Unemployed X Relief	1.179		
	(0.29)		
Large income loss		0.791	
		(-1.13)	
Large loss X Relief		1.723	
		(1.56)	
Financial distress			0.539+
			(-1.90)
Financial distress X Relief			2.538*
			(2.15)
Constant	1.766	1.249	1.186
	(1.21)	(0.45)	(0.34)
Observations	1774	1774	1774
Pseudo R ²	0.101	0.092	0.093
Odds ratios; t statistics in parent	heses		
Control variables: female, gende	er, age, person of c	olor, college educa	ation,
ideology, political interest, renter			
Robust standard errors clustered	d by state; state fixe	ed effects	

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TABLE 3. Respondents in each condition for Figure 1 in main article				
	No hardship,	No hardship,	Hardship,	Hardship,
	no relief	relief	no relief	relief
Unemployment	1459	251	233	57
Large loss	1423	175	269	133
Large loss, bill trouble	1637	242	55	66

TABLE 4. Predictors of 20	E 4. Predictors of 2010 County-Level Census Completion Rates				
	Median income (\$1000s)	0.154***			
		(4.00)			
	White %	0.165***			
		(6.27)			
	Rural	0.0433			
		(0.26)			
	Citizen %	0.0170+			
		(1.70)			
	Broadband %	0.152**			
		(3.07)			
	Latino %	-0 137***			
		(-6.47)			
	Median age	-0 413***			
		(-5.09)			
	Female %	0.481**			
		(3.37)			
	College %	-0.462***			
		(-4.16)			
	Renter %	-0.00538			
		(-0.11)			
	Stable housing %	0.0275			
	0	(0.47)			
	Population (log)	2.858***			
		(9.43)			
	Constant	-9.060			
		(-0.89)			
	Observations	3096			
	Adjusted R ²	0.579			
	t statistics in parentheses				
	Robust standard errors clustered	by state			
	$p^{+} p < 0.10, p^{*} < 0.05, p^{**} < 0.05$.01, *** $p < 0.001$			

	Laid off X	Furlough X	Laid off X	Furlough X
	Asset Poor	Asset Poor	Service Sector	Service Sector
% Liquid asset poor	0.188+	0.0606		
	(1.94)	(0.45)		
% Service sector			0.136	0.233
			(1.13)	(1.29)
"Laid off"	0.347***		0.146	
	(4.82)		(1.64)	
"Laid off" X Asset poor	-0.00914*** (-4.68)			
"Furlough"		0.239+		0.247*
		(1.68)		(2.22)
"Furlough" X Asset poor		-0.00644+		
- ·		(-1.84)		
"Laid off" X Service sector			-0.00892*	
			(-2.04)	
"Furlough" X Service sector				-0.0141*
0				(-2.38)
Median income	0.106***	0.0999***	0.122**	0.123**
	(3.73)	(3.61)	(3.29)	(3.33)
2010 Census rate	0.723***	0.736***	0.727***	0.740***
	(14.12)	(14.17)	(15.67)	(15.95)
Constant	-55.26***	-44.57***	-50.94***	-47.89***
	(-6.03)	(-4.33)	(-7.73)	(-6.11)
Observations	2842	2931	2950	3038
Adjusted R^2	0.797	0.793	0.811	0.809

t statistics in parentheses

Two-way clustered standard errors by state and DMA; state fixed effects.

Same control variables as shown in Table ??; where search volume is too low, counties have no search data. + p < 0.10, * p < 0.05, ** p < 0.01, *** p < 0.001

	April 4	April 25	April 4	April 25
	Asset Poor	Asset Poor	Service Sector	Service Sector
"Unemployment" search	0.202*	0.210*	0.118*	0.168**
	(2.55)	(2.50)	(2.43)	(2.72)
% Asset poor	0.211*	0.0797		
	(2.29)	(0.63)		
Unemployment X Asset poor	-0.00566**	-0.00584**		
	(-2.95)	(-2.91)		
% Service sector			0.111	0.233
			(0.96)	(1.63)
Unemployment X Service sector			-0.00726*	-0.00970**
			(-2.64)	(-2.84)
Median income	0.125***	0.128***	0.108**	0.155***
	(4.54)	(5.04)	(3.00)	(4.11)
2010 Census rate	0.591***	0.709***	0.589***	0.715***
	(13.90)	(12.72)	(15.30)	(13.89)
Constant	-38.98***	-33.73**	-31.98***	-35.81***
	(-4.85)	(-2.80)	(-5.00)	(-3.96)
Observations	2954	2620	3067	2708
Adjusted R ²	0.750	0.801	0.768	0.815

Same control variables as shown in Table ??

+ $p < 0.10, \,^{*}p < 0.05, \,^{**}p < 0.01, \,^{***}p < 0.001$

	Asset Poor	Service Sector	Med. HH Income
"Unemployment" search	0.238**	0.168**	-0.173**
	(2.99)	(3.02)	(-3.29)
% Asset poor	0.139		
	(1.21)		
Unemployment X Asset poor	-0.00635**		
	(-3.36)		
% Service sector		0.203	
		(1.27)	
Unemployment X Service sector		-0.00934**	
		(-2.99)	
		(,	
Median income	0.176***	0.191***	0.0901+
	(5.85)	(5.10)	(1.78)
Unemployment X Income			0.00344**
			(3.18)
2010 Census rate	0.718***	0.724***	0.730***
	(14.26)	(15.36)	(15.58)
Δ Median income	-0.0624	-0.0494	-0.0442
	(-1.03)	(-0.80)	(-0.76)
Δ % White	-0.000240	-0.0353	-0.0434
	(-0.00)	(-0.48)	(-0.58)
Δ % Citizen	-0.00231	0.00315	0.00314
	(-0.27)	(0.37)	(0.38)
Δ % Stable residence	0.173**	0.191**	0.182*
	(2.71)	(2.72)	(2.68)
Δ % Latino	-0.378*	-0.110	-0.102
	(-2.14)	(-0.91)	(-0.88)
Δ Median age	-0.359+	-0.323*	-0.329*
	(-1.88)	(-2.38)	(-2.41)
Δ % Female	-0.321+	-0.228	-0.250
	(-1.75)	(-1.14)	(-1.21)
Δ % College	0.229*	0.286**	0.310**
-	(2.42)	(2.98)	(3.25)
Δ Pop. (log)	-10.81	-9.217	-9.868
	(-0.90)	(-1.21)	(-1.31)
Δ % Service sector	•	0.00112	
		(0.01)	
Constant	-49.72***	-47.48***	-41.98***
	(-4.53)	(-5.16)	(-6.52)
Observations	2953	3059	3059
Adjusted R^2	0.797	0.812	0.812
Two-way clustered standard errors by st	ate and DMA: sta	ate fixed effects.	



D: Supplemental Qualitative Data

The table below presents a random subset of qualitative responses I collected in an online survey of U.S. adults between April 17 and May 17, 2020. Run on Amazon Mechanical Turk, I asked 1259 respondents to describe how the coronavirus was impacting their lives¹. I also asked whether one's household income had decreased as a result of the COVID-19 outbreak, and if so, by what percent. I present a sample of responses for three groups of participants, randomly selected to be representative of overall responses within each group: (A) those with no income loss, (B) those who lost less than half their household income, and (C) those who lost more than half their household income during the pandemic.² Respondents were asked to consider any unemployment benefits when answering, so variations capture net differences in income after including any support payments.

While this Mechanical Turk survey is not designed to be nationally representative, a similar percentage

[&]quot;"How is the new coronavirus is impacting your life these days? You can talk about economic effects, health effects, or both."

²All responses were assigned a random value between 0 and 1, and the responses closest to 1 for each category are presented here.

of respondents reported experiencing a large income loss as compared to my nationally representative survey (26% versus 21%). Overall, responses are useful for hypothesis building and process tracing (Table 8).

TABLE 8. Coronavirus Experiences, by Economic Shock

(A) No income loss

corona virius is not affecting my work. i go to work every day. The wife is effected by this due to her job and is actively involed with caring for patients

The virus has slowed down my interaction with people, no face to face communication. Because of the virus, I've had to work from home. Another impact is helping my son with school work an helping the family to remain sane during this time.

I have not really been impacted by this coronavirus epidemic. For the most part, my overall health is pretty much normal and my economic situation has not changed.

The coronavirus has effected be more socially and emotionally in comparison too financial hardship. I work as a waste water operator, so my job is essential, but I do not leave me house, and I become slightly lonely as depressed. I see my friends less often, but I still see my family, which is very good.

The coronavirus has NOT had any positive or negative health effects as of now. It has had a negative effect on my retirement account. I have lost money from a retirement account.

(B) Small net income loss

My husband is currently receiving unemployment, which is helping tremendously. He is self-employed, and no one is using his service, so without the unemployment we wouldn't be able to last on our savings for long.

My son is our of his job and not able to get the unemployment website work. Very frustrating. We are totally self isolating, only leave to pick up grocery order and we always wear masks.

Well I just graduated from university right around when the coronavirus just started to hit the U.S. [...] I have been self-isolating at home with family since. I haven't been able to find a job, and my days have been all over the place. I have been sleeping a lot, sometimes multiple times throughout the day. [...] I have struggled to eat during this time and have slowly dropped weight.

I am way more anxious than usual and am worried about losing my job. Two of the three of us have lost jobs in my house and they don't qualify for unemployment. I am paying more for groceries and can't get some items.

It is affecting us mostly economically. I was furloughed from my full-time job and I'm on unemployment until we are recalled on May 1st. [...] My husband makes quite a bit more than I do, and due to the virus, he has had to agree to take a pay cut of 20% of his salary at work. [...] I have taken this job on Mechanical Turk to try to earn a little extra cash each week to cover expenses [...]. I think overall we are doing just fine, but it is the unknown of the future that can worry me sometimes.

I only leave the house to go to work or the grocery store. I'm in constant worry for the health of my family and I. (C) Large net income loss

It is affecting me financially as I have temporarily lost my job and traditional unemployment just doesn't cut it for paying the bills.

Our business is down at least half because most of our customers come from out of state. We also have a large event that people had already payed 500 dollars for, but now we will probably have to postpone it because of the bans on large crowds and out of state traffic, which is again costing us more money and a huge headache

Economically is the worst effect. All of my work hours have been cut since March 29. I just got approved for unemployment insurance, but I haven't received money yet, and the amount isn't even close to covering my absolute monthly expenses. I've cut out all optional expenses since the layoff. I've been using my retirement savings to get by since I've lost my job.

It's delaying my career move and in turn my ability to move out into my own place. Initially, it put me in a very anxious state but the past month I have starting making changes such as planning and scheduling tasks, exercising, studying, and meditating.

The coronavirus means that my children are at home now, and I have the sole responsibility to educate them. My husband doesn't have as many work options, so our normal struggle is slightly more.

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