APPENDIX – ONLINE MATERIAL

The Differential Incidence and Severity of Food Insecurity by Racial, Ethnic, and Immigrant Groups over the Great Recession in the U.S.

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Table 1. Core Food Security Module in the Food Security Supplement

1. "(I/We) worried whether (my/our) food would run out before (I/we) got money to buy more." Was that often true, sometimes true, or never true for (you/your household) in the last 12 months?
2. "The food that (I/we) bought just didn't last, and (I/we) didn't have money to get more." Was that often, sometimes, or never true for (you/your household) in the last 12 months?
3. "(I/we) couldn't afford to eat balanced meals." Was that often, sometimes, or never true for (you/your household) in the last 12 months?
4. In the last 12 months, since last (name of current month), did (you/you or other adults in your household) ever cut the size of your meals or skip meals because there wasn't enough money for food? (Yes/No/DK)
5. [IF YES ABOVE, ASK] How often did this happen—almost every month, some months but not every month, or in only 1 or 2 months?
6. In the last 12 months, did you ever eat less than you felt you should because there wasn't enough money for food? (Yes/No/DK)
7. In the last 12 months, were you every hungry but didn't eat because there wasn't enough money for food? (Yes/No/DK)
8. In the last 12 months, did you lose weight because there wasn't enough money for food? (Yes/No/DK)
9. In the last 12 months, did (you/you or other adults in your household) ever not eat for a whole day because there wasn't enough money for food? (Yes/No/DK)
10. [IF YES ABOVE, ASK] How often did this happen—almost every month, some months but not every month, or in only 1 or 2 months?
11. "(I/we) relied on only a few kinds of low-cost food to feed (my/our) child/the children) because (I was/we were) running out of money to buy food." Was that often, sometimes, or never true for (you/your household) in the last 12 months?
12. "(I/We) couldn't feed (my/our) child/the children) a balanced meal, because (I/we) couldn't afford that." Was that often, sometimes, or never true for (you/your household) in the last 12 months?
13. "(My/Our child was/The children were) not eating enough because (I/we) just couldn't afford enough food." Was that often, sometimes, or never true for (you/your household) in the last 12 months?
14. In the last 12 months, since (current month) of last year, did you ever cut the size of (your child's/any of the children's) meals because there wasn't enough money for food? (Yes/No/DK)
15. In the last 12 months, did (CHILD'S NAME/any of the children) ever skip meals because there wasn't enough money for food? (Yes/No/DK)
16. [IF YES ABOVE ASK] How often did this happen—almost every month, some months but not every month, or in only 1 or 2 months?
17. In the last 12 months, (was your child/were the children) ever hungry but you just couldn't afford more food? (Yes/No/DK)
18. In the last 12 months, did (your child/any of the children) ever not eat for a whole day because there wasn't enough money for food? (Yes/No/DK)

Notes: The table is taken from Economic Research Service, USDA. To reduce burden for higher income respondents, a preliminary screener is constructed using a household income measure (below/above 185% federal poverty line), along with the following question: "which of these statements best describes the food eaten in your household in the last 12 months: enough of the kinds of food (I/we) want to eat; enough, but not always the kinds of food (I/we) want; sometimes not enough to eat; often not enough to eat?"

Table 2. Mean Decomposition (without SNAP): Food Insecurity Incidence

	Raw Difference	Endowment	Structure	Observations
Black-White				
Pre-GR	0.151***	0.046***	0.104***	18,118
	(0.004)	(0.004)	(0.006)	94,054
GR	0.136***	0.050***	0.087***	12,851
	(0.005)	(0.005)	(0.007)	64,920
Post-GR	0.122***	0.057***	0.065***	9,896
	(0.006)	(0.006)	(0.008)	47,896
Hispanic-White				
Pre-GR	0.096***	0.066***	0.030***	22,032
	(0.004)	(0.006)	(0.007)	94,054
GR	0.121***	0.066***	0.054***	16,423
	(0.005)	(0.007)	(0.008)	64,920
Post-GR	0.105***	0.053***	0.052***	12,817
	(0.005)	(0.008)	(0.010)	47,896
Immigrant-Nonimmigrant				
Pre-GR	0.024***	0.036***	-0.012*	20,214
	(0.004)	(0.006)	(0.007)	122,603
GR	0.042***	0.071***	-0.029***	15,371
	(0.005)	(0.007)	(0.008)	85,222
Post-GR	0.032***	0.039***	-0.007	12,019
	(0.005)	(0.008)	(0.010)	63,435

Notes: The outcome variable is the binary indicator of food insecurity. Numbers in parentheses are standard errors. *, **, and *** denote statistical significance at the 10, 5, and 1 percent level, respectively.

Table 3. Mean Decomposition (without SNAP): Food Insecurity Severity

	Raw Difference	Endowment	Structure	Observations
Black-White				
Pre-GR	0.129***	0.054***	0.075***	10,672
	(0.012)	(0.010)	(0.015)	37,871
GR	0.089***	0.075***	0.014	7,879
	(0.014)	(0.013)	(0.018)	28,547
Post-GR	0.119***	0.069***	0.050**	6,045
	(0.016)	(0.016)	(0.021)	22,339
Hispanic-White				
Pre-GR	-0.002	0.039**	-0.041**	11,310
	(0.011)	(0.017)	(0.020)	37,871
GR	-0.006	0.015	-0.021	9,893
	(0.013)	(0.018)	(0.022)	28,547
Post-GR	-0.001	-0.028	0.027	7,705
	(0.014)	(0.021)	(0.025)	22,339
Immigrant-Nonimmigrant				
Pre-GR	-0.044***	-0.009	-0.035	9,398
	(0.011)	(0.019)	(0.022)	54,563
GR	-0.036***	0.005	-0.041	8,263
	(0.013)	(0.024)	(0.028)	41,201
Post-GR	-0.041***	-0.016	-0.025	6,502
	(0.014)	(0.025)	(0.028)	32,067

Notes: The outcome variable is the standardized food insecurity Rasch score. Numbers in parentheses are standard errors. *, **, and *** denote statistical significance at the 10, 5, and 1 percent level, respectively.

Table 4. Mean Decomposition (with SNAP): Food Insecurity Incidence

	Raw Difference	Endowment	Structure	Observations
Black-White				
Pre-GR	0.151***	0.007	0.144***	18,118
	(0.005)	(0.017)	(0.017)	94,054
GR	0.136***	0.017	0.119***	12,851
	(0.006)	(0.021)	(0.022)	64,920
Post-GR	0.122***	0.065***	0.058***	9,896
	(0.006)	(0.018)	(0.018)	47,896
Hispanic-White				
Pre-GR	0.096***	0.040***	0.056***	22,032
	(0.004)	(0.009)	(0.010)	94,054
GR	0.121***	0.068***	0.053***	16,423
	(0.005)	(0.009)	(0.010)	64,920
Post-GR	0.105***	0.085***	0.019	12,817
	(0.006)	(0.016)	(0.017)	47,896
Immigrant-Nonimmigrant				
Pre-GR	0.024***	0.035***	-0.011	20,214
	(0.004)	(0.009)	(0.010)	122,603
GR	0.042***	0.058***	-0.015	15,371
	(0.005)	(0.010)	(0.011)	85,222
Post-GR	0.032***	0.043***	-0.011	12,019
	(0.005)	(0.016)	(0.017)	63,435

Notes: The outcome variable is the binary indicator of food insecurity. IVs for SNAP participation are employed in this decomposition analysis (see paper for details). Numbers in parentheses are standard errors. *, **, and *** denote statistical significance at the 10, 5, and 1 percent level, respectively.

Table 5. Mean Decomposition (with SNAP): Food Insecurity Severity

	Raw Difference	Endowment	Structure	Observations
Black-White				
Pre-GR	0.129***	0.005	0.125***	10,672
	(0.014)	(0.029)	(0.031)	37,871
GR	0.089***	0.093***	-0.004	7,879
	(0.015)	(0.029)	(0.031)	28,547
Post-GR	0.119***	0.076**	0.043	6,045
	(0.018)	(0.035)	(0.039)	22,339
Hispanic-White				
Pre-GR	-0.002	0.015	-0.017	11,310
	(0.012)	(0.026)	(0.028)	37,871
GR	-0.006	-0.009	0.003	9,893
	(0.013)	(0.023)	(0.025)	28,547
Post-GR	-0.001	-0.025	0.024	7,705
	(0.015)	(0.024)	(0.027)	22,339
Immigrant-Nonimmigrant				
Pre-GR	-0.044***	0.034	-0.078**	9,398
	(0.012)	(0.031)	(0.033)	54,563
GR	-0.036***	0.017	-0.053	8,263
	(0.014)	(0.038)	(0.041)	41,201
Post-GR	-0.041***	-0.048	0.007	6,502
	(0.015)	(0.034)	(0.036)	32,067

Notes: The outcome variable is the standardized food insecurity Rasch score. IVs for SNAP participation are employed in this decomposition analysis (see paper for details). Numbers in parentheses are standard errors. *, **, and *** denote statistical significance at the 10, 5, and 1 percent level, respectively.