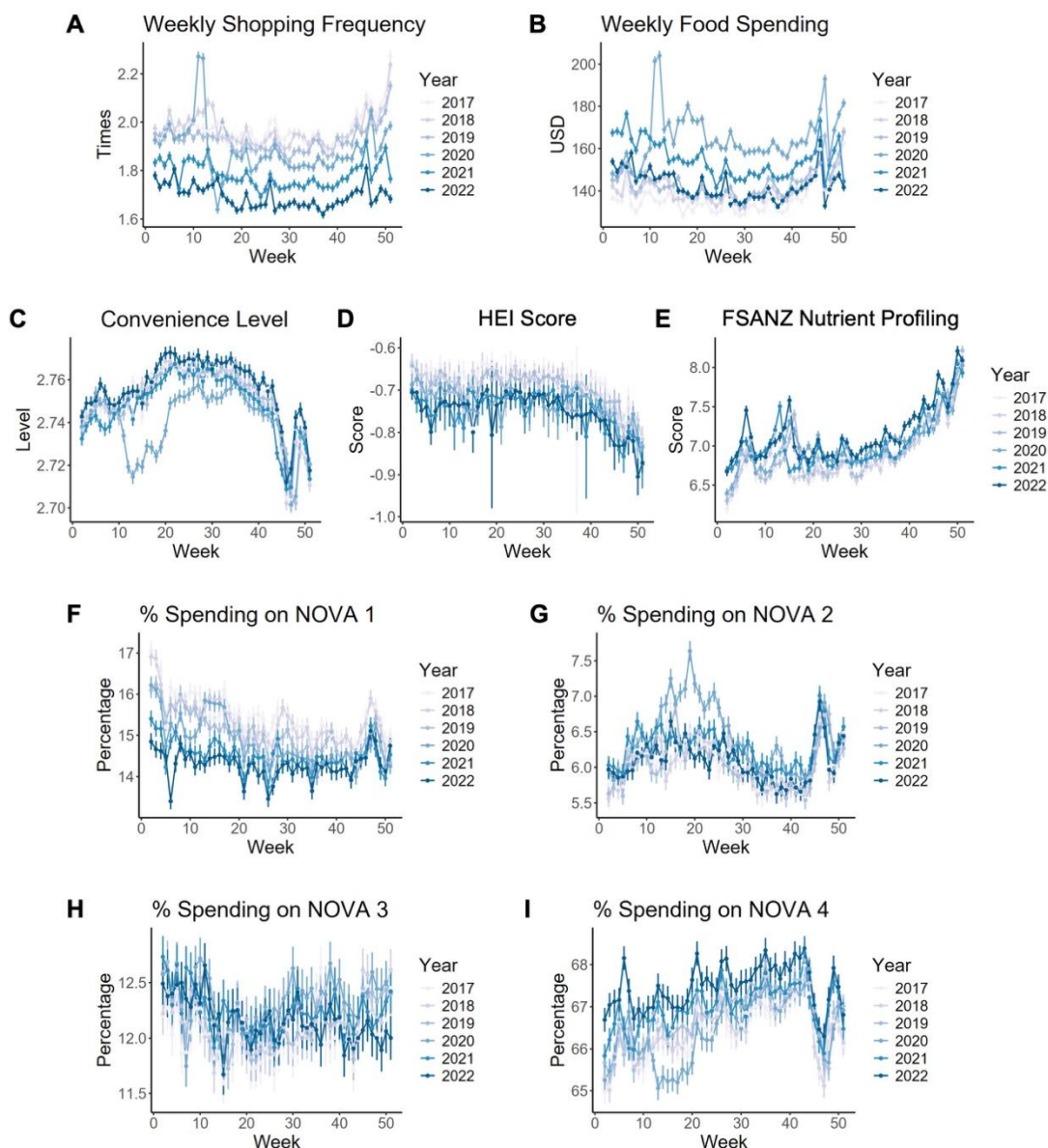


Short- and long-term shifts in food purchasing behaviours and nutrition disparities in the USA during and after the COVID-19 pandemic

In the format provided by the
authors and unedited

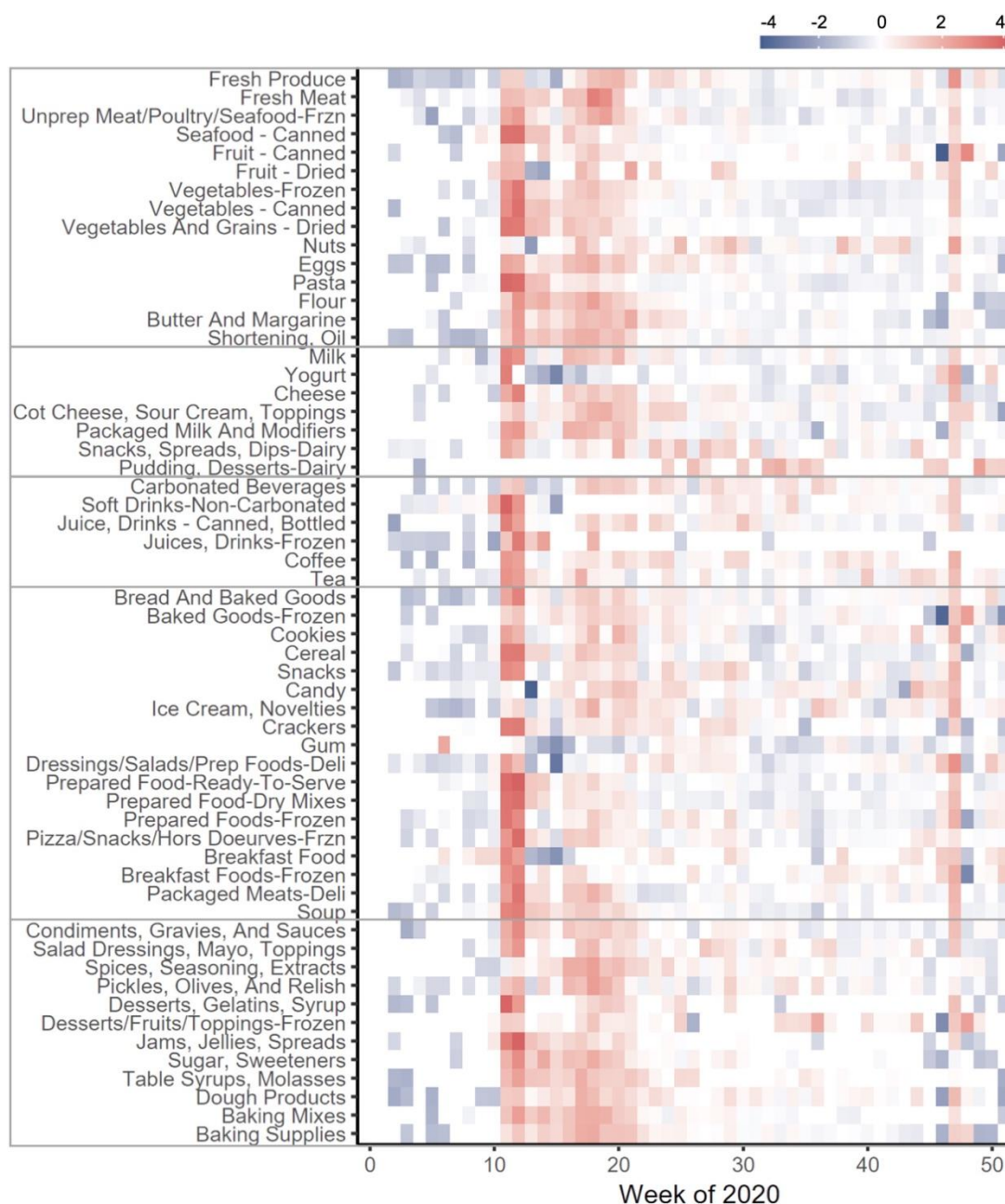
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Supplementary Figure 1 | Raw food purchasing 2017-2022 by year. (A) Weekly food shopping frequency. (B) Weekly food spending (inflation-adjusted). (C) Food convenience levels. (D) HEI score. (E) FSANZ nutrient profiling score. (F) Proportion of spending (inflation-adjusted) on NOVA 1 - unprocessed or minimally processed foods, (G) NOVA 2 - processed culinary ingredients, (H) NOVA 3 - processed foods, and (I) NOVA 4 - ultra-processed foods.

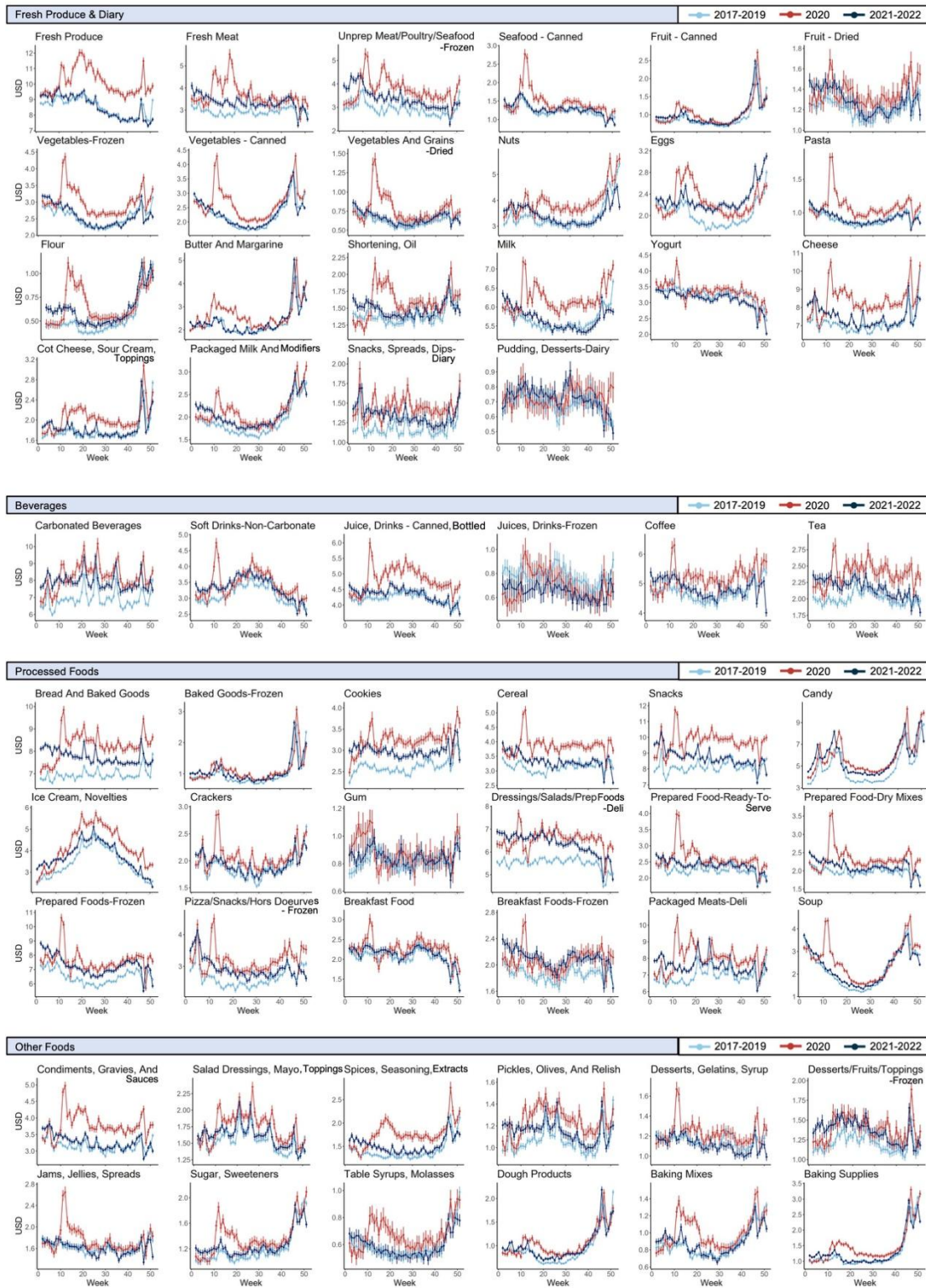
Notes: In panels A-I, points and lines show weekly mean values across N=31236 households for each year group. Error bars indicate 95% confidence intervals around the weekly mean, calculated using the standard error of the mean and the two-sided t-distribution. Magnet data (products that do not use standard UPC codes-items) were not included in overall food spending, as only some of the panelist households regularly report these types of purchases. Spending variables are inflation-adjusted using the food and beverages CPI with January 1, 2017, as the basis. No statistical tests are reported in this figure.



Supplementary Figure 2 | Difference in weekly spending by food category during the COVID-19 pandemic.

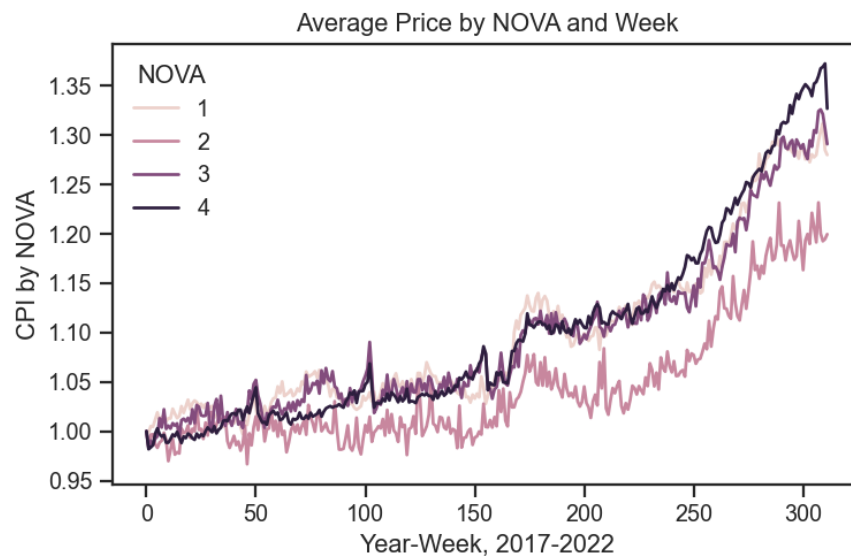
Notes: Each tile represents the within-category standardized weekly coefficient from a regression of log weekly spending, $\log(\text{spending}+1)$, on week-of-2020 indicators, controlling for relative COVID severity and household, calendar-week, and county fixed effects. Regressions are weighted for national representativeness. Standard errors are two-way clustered at the household and county levels. For each food category, weekly coefficients are standardized by subtracting the category-specific mean coefficient and dividing by the category-specific standard deviation across 2020 weekly coefficients. Coefficients with $p > 0.1$, based on two-sided t-tests of the null hypothesis that the coefficient equals zero, are set to zero before plotting. Blue tiles indicate below-average weekly effects within a category, red tiles indicate above-average weekly effects within a category, and white tiles indicate coefficients that are either statistically

insignificant at the 10% level or close to the category-specific average weekly effect. No adjustment for multiple comparisons was applied.



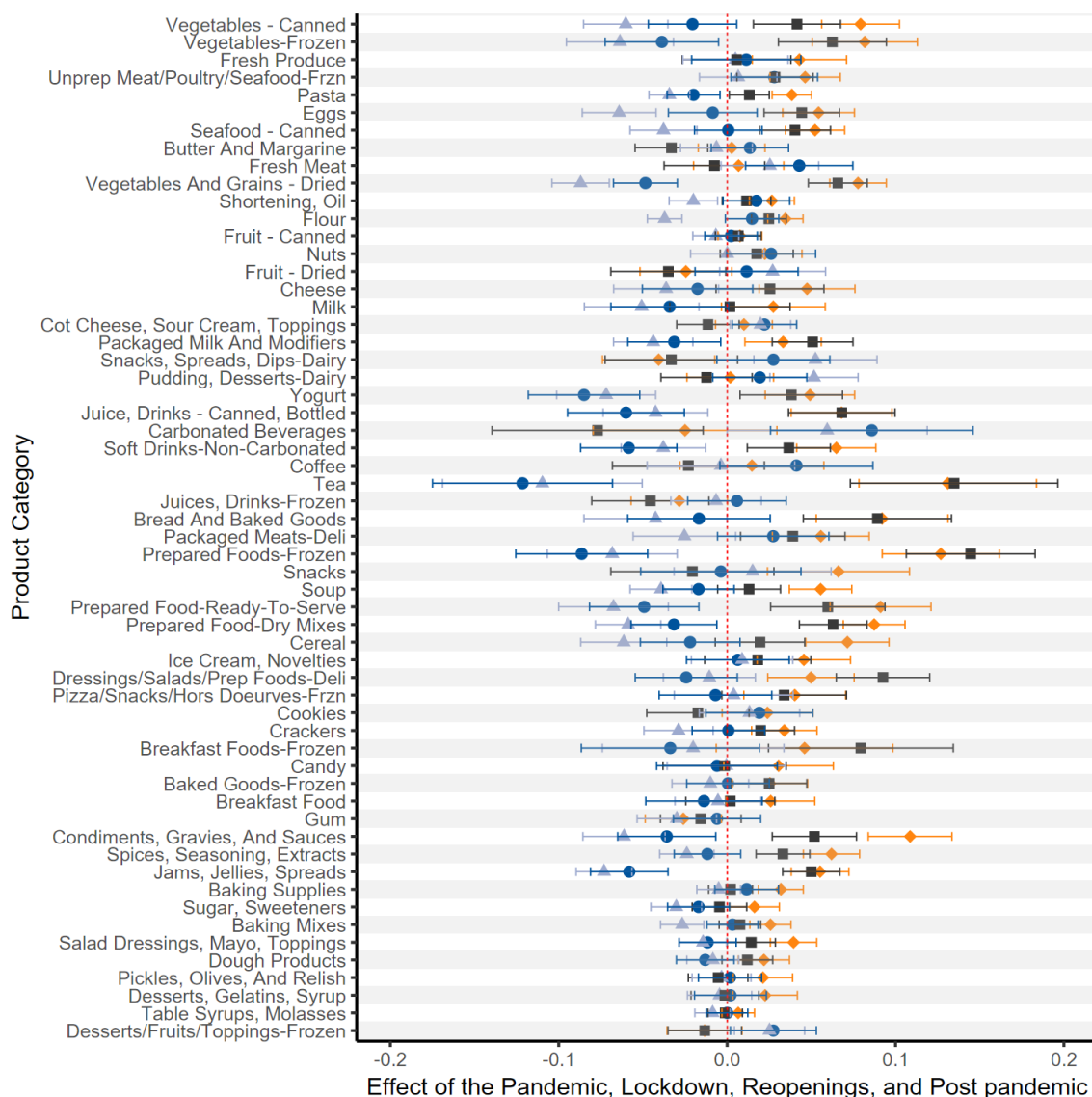
Supplementary Figure 3 | Food purchasing (inflation adjusted) pre- and post- pandemic by food category.

Notes: Points and lines show weekly mean values across N=31236 households for each year group. Error bars indicate 95% confidence intervals around the weekly mean, calculated using the standard error of the mean and the two-sided t-distribution. Magnet data (products that do not use standard UPC codes-items) were not included in overall food spending, as only some of the panelist households regularly report these types of purchases. Spending variables are inflation-adjusted using the food and beverages CPI with January 1, 2017, as the basis. No statistical tests are reported in this figure.



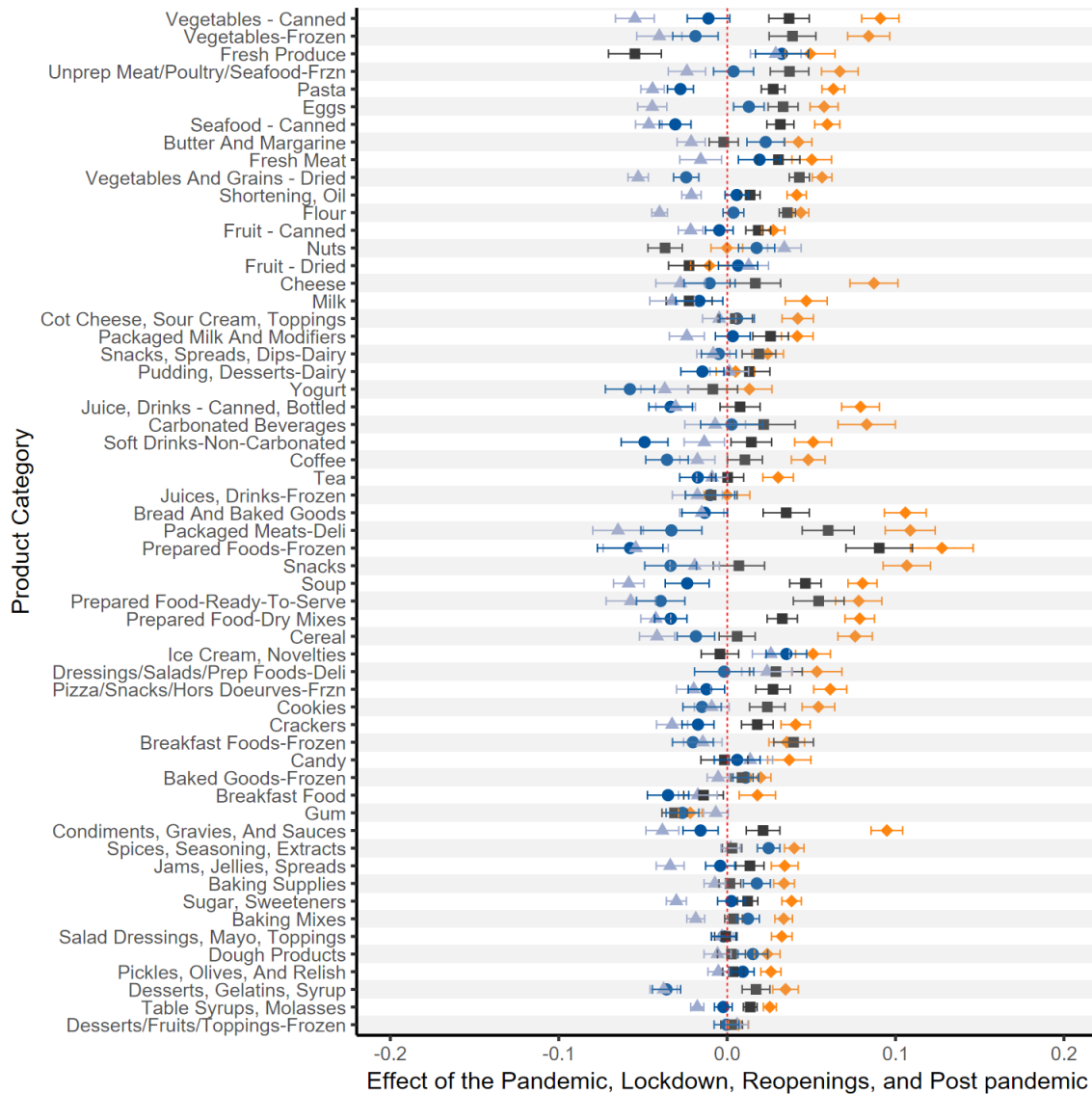
Supplementary Figure 4 | Food prices by NOVA group, 2017-2022.

Notes: Average price of products by NOVA group, divided by the first week's average price in 2017 (unadjusted). The x axis is year-week group from 2017 to 2022. Magnet data (products that do not use standard UPC codes-items) were not included in overall food spending, as only some of the panelist households regularly report these types of purchases. No statistical tests are reported in this figure.



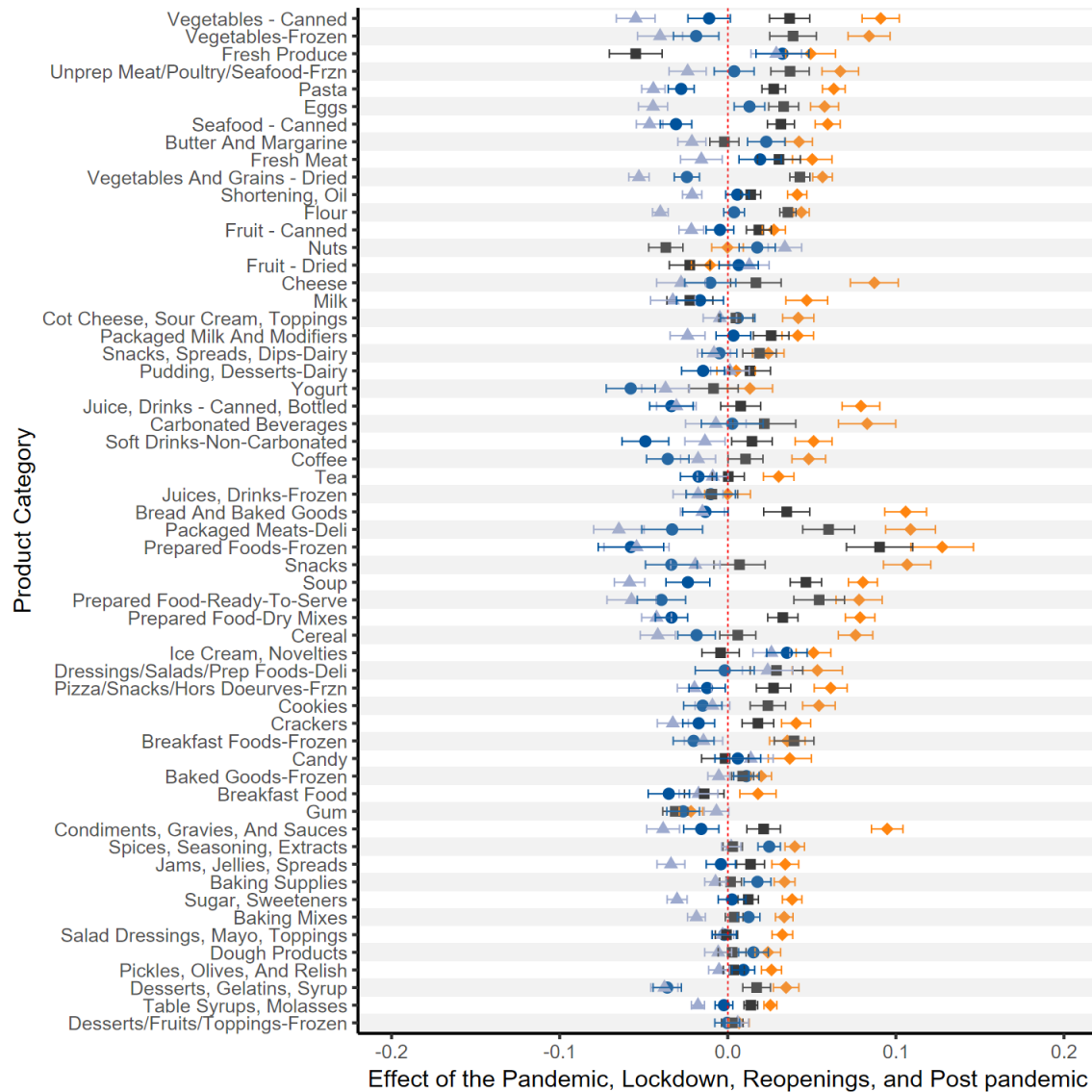
Supplementary Figure 5 | Impact of COVID-19 pandemic, lockdowns, reopenings, and post-pandemic phase on weekly spending by food category (low SES).

Notes: Observations are household-year-week combinations of Low-SES households weighted for national representativeness. The dependent variable is log weekly spending, calculated as $\log(\text{spending} + 1)$, for each food category. Each point represents an estimated regression coefficient from a separate category-level regression. Orange diamonds show the coefficient for the COVID-19 pandemic period, blue circles show the coefficient for stay-at-home orders, light blue triangles show the coefficient for reopening periods, and gray squares show the coefficient for the post-pandemic period. All regressions control for relative COVID severity, household, county, and calendar-week fixed effects. Error bars indicate ± 1 two-way clustered standard error, clustered at the household and county levels. The dashed vertical line marks zero.



Supplementary Figure 6 | Impact of COVID-19 pandemic, lockdowns, reopenings, and post-pandemic phase on weekly spending by food category (Medium SES).

Notes: Observations are household-year-week combinations of Medium-SES households weighted for national representativeness. The dependent variable is log weekly spending, calculated as $\log(\text{spending} + 1)$, for each food category. Each point represents an estimated regression coefficient from a separate category-level regression. Orange diamonds show the coefficient for the COVID-19 pandemic period, blue circles show the coefficient for stay-at-home orders, light blue triangles show the coefficient for reopening periods, and gray squares show the coefficient for the post-pandemic period. All regressions control for relative COVID severity, household, county, and calendar-week fixed effects. Error bars indicate ± 1 two-way clustered standard error, clustered at the household and county levels. The dashed vertical line marks zero.



Supplementary Figure 7 | Impact of COVID-19 pandemic, lockdowns, reopenings, and post-pandemic phase on weekly spending by food category (High SES).

Notes: Observations are household-year-week combinations of High-SES households weighted for national representativeness. The dependent variable is log weekly spending, calculated as $\log(\text{spending} + 1)$, for each food category. Each point represents an estimated regression coefficient from a separate category-level regression. Orange diamonds show the coefficient for the COVID-19 pandemic period, blue circles show the coefficient for stay-at-home orders, light blue triangles show the coefficient for reopening periods, and gray squares show the coefficient for the post-pandemic period. All regressions control for relative COVID severity, household, county, and calendar-week fixed effects. Error bars indicate ± 1 two-way clustered standard error, clustered at the household and county levels. The dashed vertical line marks zero.

Supplementary Table 1 | Baseline Results for alternative TWFE specifications

	Weekly Shopping Frequency	Weekly Food Spending	HEI	FSANZ	NOVA 1 \$	%	NOVA 2 \$	%	NOVA 3 \$	%	NOVA 4 \$	%
Pandemic	0.137 (SE = 0.011)	37.835 (SE = 1.061)	0.005 (SE = 0.015)	-0.026 (SE = 0.030)	4.900 (SE = 0.173)	0.039 (SE = 0.103)	2.822 (SE = 0.128)	0.256 (SE = 0.068)	5.181 (SE = 0.210)	0.302 (SE = 0.093)	24.931 (SE = 0.776)	-0.597 (SE = 0.149)
	[0.115, 0.159]	[35.755, 39.915]	[-0.024, 0.034]	[-0.085, 0.033]	[4.561, 5.239]	[-0.163, 0.241]	[2.571, 3.073]	[0.123, 0.389]	[4.769, 5.593]	[0.120, 0.484]	[23.410, 26.452]	[-0.889, 0.305]
	p < 0.001	p < 0.001	p = 0.739	p = 0.386	p < 0.001	p = 0.705	p < 0.001	p < 0.001	p < 0.001	p = 0.001	p < 0.001	p < 0.001
Lockdown	-0.251 (SE = 0.012)	-16.037 (SE = 1.206)	-0.025 (SE = 0.015)	0.165 (SE = 0.032)	-1.238 (SE = 0.200)	0.461 (SE = 0.099)	-0.676 (SE = 0.169)	0.202 (SE = 0.076)	-2.325 (SE = 0.220)	-0.257 (SE = 0.098)	-11.798 (SE = 0.848)	-0.406 (SE = 0.144)
	[-0.275, 0.227]	[-18.401, 13.673]	[-0.054, 0.004]	[0.102, 0.228]	[-1.630, 0.846]	[0.267, 0.655]	[-1.007, 0.345]	[0.053, 0.351]	[-2.756, 1.894]	[-0.449, 0.065]	[-13.460, 10.136]	[-0.688, 0.124]
	p < 0.001	p < 0.001	p = 0.096	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p = 0.008	p < 0.001	p = 0.009	p < 0.001	p = 0.005
Reopening	-0.209 (SE = 0.011)	-25.593 (SE = 1.041)	-0.018 (SE = 0.015)	0.075 (SE = 0.029)	-3.266 (SE = 0.167)	-0.070 (SE = 0.092)	-1.960 (SE = 0.121)	-0.158 (SE = 0.066)	-3.358 (SE = 0.211)	-0.142 (SE = 0.090)	-17.009 (SE = 0.772)	0.370 (SE = 0.138)
	[-0.231, 0.187]	[-27.633, 23.553]	[-0.047, 0.011]	[0.018, 0.132]	[-3.593, 2.939]	[-0.250, 0.110]	[-2.197, 1.723]	[-0.287, 0.029]	[-3.772, 2.944]	[-0.318, 0.034]	[-18.522, 15.496]	[0.100, 0.640]
	p < 0.001	p < 0.001	p = 0.230	p = 0.010	p < 0.001	p = 0.447	p < 0.001	p = 0.017	p < 0.001	p = 0.115	p < 0.001	p = 0.007
N	6245400	6245400	5135724	5135724	6245400	5135724	6245400	5135724	6245400	5135724	6245400	5135724
R ²	0.415	0.298	0.041	0.207	0.295	0.226	0.179	0.139	0.196	0.144	0.301	0.271

Notes: HEI: Linearized HEI per 100g, higher indicates healthier products. FSANZ: Weighted FSANZ score ranging from -18 (most healthy) to 81 (less healthy). NOVA Group 1: Unprocessed or minimally processed foods. NOVA Group 2: Processed culinary ingredients. NOVA Group 3: Processed foods. NOVA Group 4: Ultra-processed foods. (\$): total weekly food spending. (%): proportion of weekly food spending. Observations are household-year-week combinations weighted for national representativeness, with dependent variables indicated above column. We control for the relative COVID severity of households' residing counties as well as household-year, county, and calendar week fixed effects. Standard errors are clustered at the household-year-county level in parentheses. The 95% confidence intervals are reported in square brackets. P values are from two-sided t-tests of the null hypothesis that the corresponding regression coefficient equals zero. Exact p values are reported where possible; values smaller than 0.001 are reported as p<0.001. No adjustment for multiple comparisons was applied.

Supplementary Table 2 | Baseline results for single-person households

	Weekly Shopping Frequency	Weekly Food Spending	HEI	FSANZ	NOVA 1 \$	%	NOVA 2 \$	%	NOVA 3 \$	%	NOVA 4 \$	%
Pandemic	-0.010 (SE = 0.025) [-0.059, 0.039] p = 0.689	20.219 (SE = 1.223) [17.822, 22.616] p < 0.001	-0.022 (SE = 0.018) [-0.057, 0.013] p = 0.222	-0.011 (SE = 0.064) [-0.136, 0.114] p = 0.864	2.243 (SE = 0.236) [1.780, 2.706] p < 0.001	-0.604 (SE = 0.199) [-0.994, -0.214] p = 0.002	1.148 (SE = 0.155) [0.844, 1.452] p < 0.001	-0.074 (SE = 0.128) [-0.325, 0.177] p = 0.563	2.757 (SE = 0.238) [2.291, 3.223] p < 0.001	0.289 (SE = 0.171) [-0.046, 0.624] p = 0.091	14.070 (SE = 0.885) [12.335, 15.805] p < 0.001	0.389 (SE = 0.269) [-0.138, 0.916] p = 0.148
Lockdown	-0.117 (SE = 0.026) [-0.168, 0.066] p < 0.001	-1.613 (SE = 1.334) [-4.228, 1.002] p = 0.227	0.007 (SE = 0.021) [-0.034, 0.048] p = 0.739	0.148 (SE = 0.069) [0.013, 0.283] p = 0.032	0.345 (SE = 0.248) [-0.141, 0.831] p = 0.164	0.529 (SE = 0.220) [0.098, 0.960] p = 0.016	0.566 (SE = 0.176) [0.221, 0.911] p = 0.001	0.588 (SE = 0.152) [0.290, 0.886] p < 0.001	-0.046 (SE = 0.253) [-0.542, 0.450] p = 0.856	0.029 (SE = 0.191) [-0.345, 0.403] p = 0.879	-2.479 (SE = 0.980) [-4.400, 0.558] p = 0.011	-1.145 (SE = 0.301) [-1.735, 0.555] p < 0.001
Reopening	-0.070 (SE = 0.026) [-0.121, 0.019] p = 0.007	-3.837 (SE = 1.250) [-6.287, 1.387] p = 0.002	-0.012 (SE = 0.021) [-0.053, 0.029] p = 0.568	0.097 (SE = 0.070) [-0.040, 0.234] p = 0.166	-0.580 (SE = 0.243) [-1.056, 0.104] p = 0.017	-0.100 (SE = 0.212) [-0.516, 0.316] p = 0.637	0.017 (SE = 0.161) [-0.299, 0.333] p = 0.916	0.353 (SE = 0.135) [0.088, 0.618] p = 0.009	-0.431 (SE = 0.241) [-0.903, 0.041] p = 0.074	0.067 (SE = 0.179) [-0.284, 0.418] p = 0.708	-2.843 (SE = 0.911) [-4.629, 1.057] p = 0.002	-0.320 (SE = 0.288) [-0.884, 0.244] p = 0.267
Post-pandemic	-0.121 (SE = 0.027) [-0.174, 0.068] p < 0.001	12.412 (SE = 1.278) [9.907, 14.917] p < 0.001	-0.030 (SE = 0.020) [-0.069, 0.009] p = 0.134	0.062 (SE = 0.071) [-0.077, 0.201] p = 0.383	1.011 (SE = 0.250) [0.521, 1.501] p < 0.001	-0.899 (SE = 0.215) [-1.320, 0.478] p < 0.001	0.518 (SE = 0.159) [0.206, 0.830] p = 0.001	-0.209 (SE = 0.137) [-0.478, 0.060] p = 0.127	1.491 (SE = 0.248) [1.005, 1.977] p < 0.001	0.044 (SE = 0.181) [-0.311, 0.399] p = 0.808	9.392 (SE = 0.923) [7.583, 11.201] p < 0.001	1.064 (SE = 0.290) [0.496, 1.632] p < 0.001
N	2626350	2626350	2042717	2042717	2626350	2042717	2626350	2042717	2626350	2042717	2626350	2042717
R ²	0.360	0.206	0.017	0.186	0.211	0.206	0.122	0.112	0.132	0.110	0.215	0.245

Notes: HEI: Linearized HEI per 100g, higher indicates healthier products. FSANZ: Weighted FSANZ score ranging from -18 (most healthy) to 81 (less healthy). NOVA Group 1: Unprocessed or minimally processed foods. NOVA Group 2: Processed culinary ingredients. NOVA Group 3: Processed foods. NOVA Group 4: Ultra-processed foods. (\$): total weekly food spending. (%): proportion of weekly food spending. Observations are single-family-household -week combinations weighted for national representativeness for single households, with dependent variables indicated above column. We control for the relative COVID severity of households' residing counties as well as household, county, and calendar week fixed effects. Standard errors are clustered at the household-county level in parentheses. The 95% confidence intervals are reported in square brackets. P values are from two-sided t-tests of the null hypothesis that the corresponding regression coefficient equals zero. Exact p values are reported where possible; values smaller than 0.001 are reported as p<0.001. No adjustment for multiple comparisons was applied.

Supplementary Table 3 | Baseline regression results (Robustness Check)

	Weekly Shopping Frequency	Weekly Food Spending	HEI	FSANZ	NOVA 1 \$	%	NOVA 2 \$	%	NOVA 3 \$	%	NOVA 4 \$	%
Lockdown (TWFE)	-0.048 (SE = 0.009)	5.315 (SE = 0.853)	0.001 (SE = 0.010)	0.067 (SE = 0.025)	1.838 (SE = 0.181)	0.581 (SE = 0.074)	1.078 (SE = 0.148)	0.366 (SE = 0.066)	0.499 (SE = 0.166)	-0.129 (SE = 0.067)	1.899 (SE = 0.550)	-0.818 (SE = 0.101)
	[-0.066, -0.030] p < 0.001	[3.643, 6.987] p < 0.001	[-0.019, 0.021] p = 0.920	[0.018, 0.116] p = 0.007	[1.483, 2.193] p < 0.001	[0.436, 0.726] p < 0.001	[0.788, 1.368] p < 0.001	[0.237, 0.495] p < 0.001	[0.174, 0.824] p = 0.003	[-0.260, 0.002] p = 0.054	[0.821, 2.977] p < 0.001	[-1.016, -0.620] p < 0.001
Lockdown (FEct)	-0.096 (SE = 0.005)	10.315 (SE = 0.424)	-0.012 (SE = 0.009)	0.062 (SE = 0.016)	2.304 (SE = 0.084)	0.563 (SE = 0.063)	1.278 (SE = 0.069)	0.343 (SE = 0.035)	1.310 (SE = 0.109)	-0.002 (SE = 0.049)	5.422 (SE = 0.294)	-0.904 (SE = 0.072)
	[-0.106, -0.086] p < 0.001	[9.484, 11.146] p < 0.001	[-0.030, 0.006] p = 0.182	[0.031, 0.093] p < 0.001	[2.139, 2.469] p < 0.001	[0.440, 0.686] p < 0.001	[1.143, 1.413] p < 0.001	[0.274, 0.412] p < 0.001	[1.096, 1.524] p < 0.001	[-0.098, 0.094] p = 0.967	[4.846, 5.998] p < 0.001	[-1.045, -0.763] p < 0.001

Notes: HEI: Linearized HEI per 100g, higher indicates healthier products. FSANZ: Weighted FSANZ score ranging from -18 (most healthy) to 81 (less healthy). NOVA Group 1: Unprocessed or minimally processed foods. NOVA Group 2: Processed culinary ingredients. NOVA Group 3: Processed foods. NOVA Group 4: Ultra-processed foods. (\$): total weekly food spending. (%): proportion of weekly food spending. Observations are household-year-week combinations weighted for national representativeness in 2017-2020, with dependent variables indicated above columns. We control for the relative COVID severity of households' residing counties as well as household and calendar week fixed effects. The key independent variable is a whether a county is under stay-at-home orders (lockdowns). In the fixed effects counterfactual (FEct) specification, we control for household-year and week fixed effects. Using the same set of fixed effects, our main results remain unchanged in **Supplementary Table 1**. Standard errors are clustered at the household-county level in parentheses for the TWFE model, and bootstrapped standard errors for FEct method. The 95% confidence intervals are reported in square brackets. P values are from two-sided t-tests of the null hypothesis that the corresponding regression coefficient equals zero. Exact p values are reported where possible; values smaller than 0.001 are reported as p<0.001. No adjustment for multiple comparisons was applied.

Supplementary Table 4 | Baseline results for Gift Card/SNAP/WIC Spending

	All households		Low-SES		Medium-SES		High-SES	
	\$	%	\$	%	\$	%	\$	%
Pandemic	0.299 (SE = 0.153) [-0.001, 0.599] p = 0.051	0.000 (SE = 0.001) [-0.002, 0.002] p = 1.000	-0.169 (SE = 0.814) [-1.764, 1.426] p = 0.836	0.002 (SE = 0.005) [-0.008, 0.012] p = 0.689	0.892 (SE = 0.407) [0.094, 1.690] p = 0.028	0.004 (SE = 0.002) [0.000, 0.008] p = 0.046	-0.046 (SE = 0.123) [-0.287, 0.195] p = 0.708	-0.002 (SE = 0.001) [-0.004, - 0.000] p = 0.046
Lockdown	0.215 (SE = 0.183) [-0.144, 0.574] p = 0.240	0.001 (SE = 0.001) [-0.001, 0.003] p = 0.317	3.611 (SE = 1.585) [0.504, 6.718] p = 0.023	0.021 (SE = 0.012) [-0.003, 0.045] p = 0.080	-0.362 (SE = 0.416) [-1.177, 0.453] p = 0.384	-0.002 (SE = 0.002) [-0.006, 0.002] p = 0.317	0.352 (SE = 0.211) [-0.062, 0.766] p = 0.095	0.002 (SE = 0.001) [0.000, 0.004] p = 0.046
Reopening	0.472 (SE = 0.176) [0.127, 0.817] p = 0.007	0.003 (SE = 0.001) [0.001, 0.005] p = 0.003	2.728 (SE = 1.177) [0.421, 5.035] p = 0.020	0.018 (SE = 0.006) [0.006, 0.030] p = 0.003	0.285 (SE = 0.439) [-0.575, 1.145] p = 0.516	0.002 (SE = 0.003) [-0.004, 0.008] p = 0.505	0.125 (SE = 0.133) [-0.136, 0.386] p = 0.347	0.001 (SE = 0.001) [-0.001, 0.003] p = 0.317
Post-pandemic	0.348 (SE = 0.168) [0.019, 0.677] p = 0.038	0.002 (SE = 0.001) [0.000, 0.004] p = 0.046	1.699 (SE = 0.943) [-0.149, 3.547] p = 0.072	0.013 (SE = 0.006) [0.001, 0.025] p = 0.030	0.823 (SE = 0.438) [-0.035, 1.681] p = 0.060	0.004 (SE = 0.003) [-0.002, 0.010] p = 0.182	-0.131 (SE = 0.142) [-0.409, 0.147] p = 0.356	-0.002 (SE = 0.001) [-0.004, - 0.000] p = 0.046
N	9367700	7634772	319550	259145	4540550	3726998	4507600	3648629
R ²	0.235	0.419	0.159	0.320	0.043	0.080	0.021	0.043

Notes: Observations are household-week combinations weighted for national representativeness for single households, with dependent variables indicated above column. We control for the relative COVID severity of households' residing counties as well as household, county, and calendar week fixed effects. Standard errors are clustered at the household-county level in parentheses. The 95% confidence intervals are reported in square brackets. P values are from two-sided t-tests of the null hypothesis that the corresponding regression coefficient equals zero. Exact p values are reported where possible; values smaller than 0.001 are reported as p<0.001. No adjustment for multiple comparisons was applied.

Supplementary Table 5 | Baseline regression results (2017 as the control group)

	Weekly Shopping Frequency	Weekly Food Spending	HEI	FSANZ	NOVA 1		NOVA 2		NOVA 3		NOVA 4	
					\$	%	\$	%	\$	%	\$	%
Pandemic	0.019 (SE = 0.015) [-0.010, 0.048] p = 0.205	40.818 (SE = 1.277) [38.315, 43.321] p < 0.001	-0.042 (SE = 0.011) [-0.064, -0.020] p < 0.001	0.078 (SE = 0.027) [0.025, 0.131] p = 0.004	4.726 (SE = 0.214) [4.307, 5.145] p < 0.001	-0.578 (SE = 0.102) [-0.778, -0.378] p < 0.001	3.048 (SE = 0.155) [2.744, 3.352] p = 0.004	0.185 (SE = 0.065) [0.058, 0.312] p < 0.001	5.364 (SE = 0.193) [4.986, 5.742] p < 0.001	0.404 (SE = 0.084) [0.239, 0.569] p < 0.001	27.680 (SE = 0.903) [25.910, 29.450] p < 0.001	-0.010 (SE = 0.148) [-0.300, 0.280] p = 0.946
Lockdown	-0.156 (SE = 0.016) [-0.187, -0.125] p < 0.001	-7.626 (SE = 1.324) [-10.221, -5.031] p < 0.001	-0.015 (SE = 0.012) [-0.039, 0.009] p = 0.211	0.130 (SE = 0.037) [0.057, 0.203] p < 0.001	-0.108 (SE = 0.238) [-0.574, 0.358] p = 0.650	0.343 (SE = 0.106) [0.135, 0.551] p = 0.001	0.095 (SE = 0.190) [-0.277, 0.467] p = 0.617	0.353 (SE = 0.086) [0.184, 0.522] p < 0.001	-1.034 (SE = 0.227) [-1.479, -0.589] p < 0.001	-0.222 (SE = 0.100) [-0.418, -0.026] p = 0.026	-6.578 (SE = 0.909) [-8.360, -4.796] p < 0.001	-0.474 (SE = 0.168) [-0.803, -0.145] p = 0.005
Reopening	-0.119 (SE = 0.015) [-0.148, -0.090] p < 0.001	-13.126 (SE = 1.233) [-15.543, -10.709] p < 0.001	-0.010 (SE = 0.011) [-0.032, 0.012] p = 0.363	0.056 (SE = 0.029) [-0.001, 0.113] p = 0.053	-2.008 (SE = 0.206) [-2.412, -1.604] p < 0.001	-0.413 (SE = 0.104) [-0.617, -0.209] p < 0.001	-0.940 (SE = 0.150) [-1.234, -0.646] p < 0.001	0.049 (SE = 0.065) [-0.078, 0.176] p = 0.451	-1.479 (SE = 0.187) [-1.846, -1.112] p < 0.001	-0.023 (SE = 0.083) [-0.186, 0.140] p = 0.782	-8.699 (SE = 0.887) [-10.438, -6.960] p < 0.001	0.387 (SE = 0.150) [0.093, 0.681] p = 0.010
Post-pandemic	-0.123 (SE = 0.016) [-0.154, -0.092] p < 0.001	23.021 (SE = 1.359) [20.357, 25.685] p < 0.001	-0.052 (SE = 0.011) [-0.074, -0.030] p < 0.001	0.134 (SE = 0.029) [0.077, 0.191] p < 0.001	2.097 (SE = 0.227) [1.652, 2.542] p < 0.001	-0.720 (SE = 0.108) [-0.932, -0.508] p < 0.001	1.584 (SE = 0.160) [1.270, 1.898] p < 0.001	0.014 (SE = 0.068) [-0.119, 0.147] p = 0.837	2.839 (SE = 0.205) [2.437, 3.241] p < 0.001	0.204 (SE = 0.088) [0.032, 0.376] p = 0.020	16.500 (SE = 0.954) [14.630, 18.370] p < 0.001	0.502 (SE = 0.158) [0.192, 0.812] p = 0.001
N	6245200	6245200	5060873	5060873	6245200	5060873	6245200	5060873	6245200	5060873	6245200	5060873
R2	0.363	0.254	0.019	0.170	0.249	0.188	0.145	0.107	0.161	0.107	0.257	0.235

Notes: HEI: Linearized HEI per 100g, higher indicates healthier products. FSANZ: Weighted FSANZ score ranging from -18 (most healthy) to 81 (less healthy). NOVA Group 1: Unprocessed or minimally processed foods. NOVA Group 2: Processed culinary ingredients. NOVA Group 3: Processed foods. NOVA Group 4: Ultra-processed foods. (\$): total weekly food spending. (%): proportion of weekly food spending. Observations are household-week combinations weighted for national representativeness, with dependent variables indicated above column. We control for the relative COVID severity of households' residing counties as well as household, county, and calendar week fixed effects. Standard errors are clustered at the household-county level in parentheses. The 95% confidence intervals are reported in square brackets. P values are from two-sided t-tests of the null hypothesis that the corresponding regression coefficient equals zero. Exact p values are reported where possible; values smaller than 0.001 are reported as p<0.001. No adjustment for multiple comparisons was applied.

Supplementary Table 6 | Baseline regression results (2018 as the control group)

	Weekly Shopping Frequency	Weekly Food Spending	HEI	FSANZ	NOVA 1 \$	%	NOVA 2 \$	%	NOVA 3 \$	%	NOVA 4 \$	%
Pandemic	0.014 (SE = 0.014) [-0.013, 0.041] p = 0.317	36.604 (SE = 1.289) [34.078, 39.130] p < 0.001	-0.032 (SE = 0.009) [-0.050, -0.014] p < 0.001	0.064 (SE = 0.032) [0.001, 0.127] p = 0.046	4.142 (SE = 0.219) [3.713, 4.571] p < 0.001	-0.502 (SE = 0.095) [-0.688, -0.316] p < 0.001	2.703 (SE = 0.146) [2.417, 2.989] p < 0.001	0.177 (SE = 0.065) [0.050, 0.304] p = 0.006	4.706 (SE = 0.213) [4.289, 5.123] p < 0.001	0.309 (SE = 0.082) [0.148, 0.470] p < 0.001	25.053 (SE = 0.892) [23.305, 26.801] p < 0.001	0.015 (SE = 0.136) [-0.252, 0.282] p = 0.912
Lockdown	-0.154 (SE = 0.015) [-0.183, -0.125] p < 0.001	-7.406 (SE = 1.346) [-10.044, -4.768] p < 0.001	-0.012 (SE = 0.012) [-0.036, 0.012] p = 0.317	0.165 (SE = 0.040) [0.087, 0.243] p < 0.001	-0.071 (SE = 0.246) [-0.553, 0.411] p = 0.773	0.386 (SE = 0.100) [0.190, 0.582] p < 0.001	0.229 (SE = 0.188) [-0.139, 0.597] p = 0.223	0.431 (SE = 0.086) [0.262, 0.600] p < 0.001	-1.049 (SE = 0.231) [-1.502, -0.596] p < 0.001	-0.231 (SE = 0.096) [-0.419, 0.043] p = 0.016	-6.516 (SE = 0.905) [-8.290, -4.742] p < 0.001	-0.585 (SE = 0.156) [-0.891, -0.279] p < 0.001
Reopening	-0.110 (SE = 0.015) [-0.139, -0.081] p < 0.001	-12.595 (SE = 1.282) [-15.108, -10.082] p < 0.001	-0.010 (SE = 0.010) [-0.030, 0.010] p = 0.317	0.086 (SE = 0.034) [0.019, 0.153] p = 0.011	-1.900 (SE = 0.218) [-2.327, -1.473] p < 0.001	-0.318 (SE = 0.100) [-0.514, -0.122] p = 0.001	-0.838 (SE = 0.143) [-1.118, -0.558] p < 0.001	0.084 (SE = 0.066) [-0.045, 0.213] p = 0.203	-1.393 (SE = 0.206) [-1.797, -0.989] p < 0.001	-0.005 (SE = 0.081) [-0.164, 0.154] p = 0.951	-8.464 (SE = 0.898) [-10.224, -6.704] p < 0.001	0.239 (SE = 0.138) [-0.031, 0.509] p = 0.083
Post-pandemic	-0.130 (SE = 0.015) [-0.159, -0.101] p < 0.001	18.716 (SE = 1.380) [16.011, 21.421] p < 0.001	-0.043 (SE = 0.010) [-0.063, -0.023] p < 0.001	0.116 (SE = 0.034) [0.049, 0.183] p < 0.001	1.501 (SE = 0.232) [1.046, 1.956] p < 0.001	-0.670 (SE = 0.101) [-0.868, -0.472] p < 0.001	1.254 (SE = 0.153) [0.954, 1.554] p < 0.001	0.020 (SE = 0.067) [-0.111, 0.151] p = 0.765	2.147 (SE = 0.226) [1.704, 2.590] p < 0.001	0.100 (SE = 0.087) [-0.071, 0.271] p = 0.250	13.813 (SE = 0.952) [11.947, 15.679] p < 0.001	0.550 (SE = 0.144) [0.268, 0.832] p < 0.001
N	6245300	6245300	5068285	5068285	6245300	5068285	6245300	5068285	6245300	5068285	6245300	5068285
R2	0.371	0.260	0.020	0.173	0.254	0.190	0.148	0.108	0.166	0.110	0.262	0.238

Notes: HEI: Linearized HEI per 100g, higher indicates healthier products. FSANZ: Weighted FSANZ score ranging from -18 (most healthy) to 81 (less healthy). NOVA Group 1: Unprocessed or minimally processed foods. NOVA Group 2: Processed culinary ingredients. NOVA Group 3: Processed foods. NOVA Group 4: Ultra-processed foods. (\$): total weekly food spending. (%): proportion of weekly food spending. Observations are household-week combinations weighted for national representativeness, with dependent variables indicated above column. We control for the relative COVID severity of households' residing counties as well as household, county, and calendar week fixed effects. Standard errors are clustered at the household-county level in parentheses. The 95% confidence intervals are reported in square brackets. P values are from two-sided t-tests of the null hypothesis that the corresponding regression coefficient equals zero. Exact p values are reported where possible; values smaller than 0.001 are reported as p<0.001. No adjustment for multiple comparisons was applied.

Supplementary Table 7 | Baseline regression results (2019 as the control group)

	Weekly Shopping Frequency	Weekly Food Spending	HEI	FSANZ	NOVA 1		NOVA 2		NOVA 3		NOVA 4	
					\$	%	\$	%	\$	%	\$	%
Pandemic	0.062 (SE = 0.015) [0.033, 0.091] p < 0.001	34.859 (SE = 1.234) [32.440, 37.278] p < 0.001	-0.014 (SE = 0.010) [-0.034, 0.006] p = 0.162	0.041 (SE = 0.028) [0.014, 0.096] p = 0.143	4.374 (SE = 0.200) [3.982, 4.766] p < 0.001	-0.142 (SE = 0.081) [-0.301, 0.017] p = 0.080	2.748 (SE = 0.132) [2.489, 3.007] p < 0.001	0.235 (SE = 0.059) [0.119, 0.351] p < 0.001	4.536 (SE = 0.189) [4.166, 4.906] p < 0.001	0.289 (SE = 0.076) [0.140, 0.438] p < 0.001	23.200 (SE = 0.877) [21.481, 24.919] p < 0.001	-0.382 (SE = 0.124) [-0.625, -0.139] p = 0.002
Lockdown	-0.160 (SE = 0.016) [-0.191, -0.129] p < 0.001	-7.325 (SE = 1.375) [-10.020, -4.630] p < 0.001	-0.027 (SE = 0.011) [-0.049, 0.005] p = 0.014	0.147 (SE = 0.035) [0.078, 0.216] p < 0.001	-0.143 (SE = 0.233) [-0.600, 0.314] p = 0.539	0.334 (SE = 0.089) [0.160, 0.508] p < 0.001	0.071 (SE = 0.184) [-0.290, 0.432] p = 0.700	0.337 (SE = 0.084) [0.172, 0.502] p < 0.001	-0.973 (SE = 0.225) [-1.414, -0.532] p < 0.001	-0.210 (SE = 0.091) [-0.388, 0.032] p = 0.021	-6.280 (SE = 0.924) [-8.091, -4.469] p < 0.001	-0.462 (SE = 0.155) [-0.766, -0.158] p = 0.003
Reopening	-0.115 (SE = 0.016) [-0.146, -0.084] p < 0.001	-12.595 (SE = 1.258) [-15.061, -10.129] p < 0.001	-0.022 (SE = 0.011) [-0.044, 0.000] p = 0.046	0.091 (SE = 0.030) [0.032, 0.150] p = 0.002	-1.936 (SE = 0.205) [-2.338, -1.534] p < 0.001	-0.354 (SE = 0.083) [-0.517, -0.191] p < 0.001	-0.966 (SE = 0.134) [-1.229, -0.703] p < 0.001	0.021 (SE = 0.060) [-0.097, 0.139] p = 0.726	-1.361 (SE = 0.189) [-1.731, -0.991] p < 0.001	-0.003 (SE = 0.078) [-0.156, 0.150] p = 0.969	-8.331 (SE = 0.900) [-10.095, -6.567] p < 0.001	0.337 (SE = 0.128) [0.086, 0.588] p = 0.008
Post-pandemic	-0.083 (SE = 0.016) [-0.114, -0.052] p < 0.001	16.951 (SE = 1.337) [14.330, 19.572] p < 0.001	-0.025 (SE = 0.011) [-0.047, 0.003] p = 0.023	0.089 (SE = 0.031) [0.028, 0.150] p = 0.004	1.686 (SE = 0.214) [1.267, 2.105] p < 0.001	-0.332 (SE = 0.085) [-0.499, -0.165] p < 0.001	1.286 (SE = 0.139) [1.014, 1.558] p < 0.001	0.069 (SE = 0.062) [-0.053, 0.191] p = 0.266	1.981 (SE = 0.201) [1.587, 2.375] p < 0.001	0.087 (SE = 0.081) [-0.072, 0.246] p = 0.283	11.999 (SE = 0.950) [10.137, 13.861] p < 0.001	0.177 (SE = 0.132) [-0.082, 0.436] p = 0.180
N	6245000	6245000	5063626	5063626	6245000	5063626	6245000	5063626	6245000	5063626	6245000	5063626
R ²	0.380	0.265	0.023	0.176	0.259	0.194	0.149	0.113	0.171	0.112	0.267	0.242

Notes: HEI: Linearized HEI per 100g, higher indicates healthier products. FSANZ: Weighted FSANZ score ranging from -18 (most healthy) to 81 (less healthy). NOVA Group 1: Unprocessed or minimally processed foods. NOVA Group 2: Processed culinary ingredients. NOVA Group 3: Processed foods. NOVA Group 4: Ultra-processed foods. (\$): total weekly food spending. (%): proportion of weekly food spending. Observations are household-week combinations weighted for national representativeness, with dependent variables indicated above column. We control for the relative COVID severity of households' residing counties as well as household, county, and calendar week fixed effects. Standard errors are clustered at the household-county level in parentheses. The 95% confidence intervals are reported in square brackets. P values are from two-sided t-tests of the null hypothesis that the corresponding regression coefficient equals zero. Exact p values are reported where possible; values smaller than 0.001 are reported as p<0.001. No adjustment for multiple comparisons was applied.

Supplementary Table 8 | Baseline regression results (by income and education)

	Weekly Shopping Frequency	Weekly Food Spending	HEI	FSANZ	NOVA 1		NOVA 2		NOVA 3		NOVA 4	
					\$	%	\$	%	\$	%	\$	%
Pandemic	-0.001 (SE = 0.050) [-0.099, 0.097]	35.983 (SE = 0.050) [35.885, 36.081]	-0.032 (SE = 0.050) [-0.130, 0.066]	0.072 (SE = 0.050) [-0.026, 0.170]	4.200 (SE = 0.050) [4.102, 4.298]	-0.507 (SE = 0.050) [-0.605, -0.409]	2.610 (SE = 0.050) [2.512, 2.708]	0.131 (SE = 0.050) [0.033, 0.229]	4.403 (SE = 0.050) [4.305, 4.501]	0.172 (SE = 0.050) [0.074, 0.270]	24.769 (SE = 0.050) [24.671, 24.867]	0.204 (SE = 0.050) [0.106, 0.302]
	p = 0.984	p < 0.001	p = 0.522	p = 0.150	p < 0.001	p < 0.001	p < 0.001	p = 0.009	p < 0.001	p < 0.001	p < 0.001	p < 0.001
	-0.134 (SE = 0.050) [-0.232, -0.036]	-4.245 (SE = 0.050) [-4.343, -4.147]	-0.012 (SE = 0.050) [-0.110, 0.086]	0.149 (SE = 0.050) [0.051, 0.247]	0.297 (SE = 0.050) [0.199, 0.395]	0.339 (SE = 0.050) [0.241, 0.437]	0.493 (SE = 0.050) [0.395, 0.591]	0.441 (SE = 0.050) [0.343, 0.539]	-0.548 (SE = 0.050) [-0.646, -0.450]	-0.180 (SE = 0.050) [-0.278, -0.082]	-4.487 (SE = 0.050) [-4.585, -4.389]	-0.600 (SE = 0.050) [-0.698, -0.502]
Lockdown	p = 0.007	p < 0.001	p = 0.810	p = 0.003	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p < 0.001
	-0.090 (SE = 0.050) [-0.188, 0.008]	-10.209 (SE = 0.050) [-10.307, -10.111]	-0.009 (SE = 0.050) [-0.107, 0.089]	0.086 (SE = 0.050) [-0.012, 0.184]	-1.696 (SE = 0.050) [-1.794, -1.598]	-0.353 (SE = 0.050) [-0.451, -0.255]	-0.643 (SE = 0.050) [-0.741, -0.545]	0.085 (SE = 0.050) [-0.013, 0.183]	-1.069 (SE = 0.050) [-1.167, -0.971]	0.000 (SE = 0.050) [-0.098, 0.098]	-6.801 (SE = 0.050) [-6.899, -6.703]	0.268 (SE = 0.050) [0.170, 0.366]
	p = 0.072	p < 0.001	p = 0.857	p = 0.085	p < 0.001	p < 0.001	p < 0.001	p = 0.089	p < 0.001	p = 1.000	p < 0.001	p < 0.001
Reopening	-0.156 (SE = 0.050) [-0.254, -0.058]	19.266 (SE = 0.050) [19.168, 19.364]	-0.043 (SE = 0.050) [-0.141, 0.055]	0.131 (SE = 0.050) [0.033, 0.229]	1.648 (SE = 0.050) [1.550, 1.746]	-0.725 (SE = 0.050) [-0.823, -0.627]	1.219 (SE = 0.050) [1.121, 1.317]	-0.029 (SE = 0.050) [-0.127, 0.069]	1.876 (SE = 0.050) [1.778, 1.974]	-0.094 (SE = 0.050) [-0.192, 0.004]	14.524 (SE = 0.050) [14.426, 14.622]	0.848 (SE = 0.050) [0.750, 0.946]
	p = 0.002	p < 0.001	p = 0.390	p = 0.009	p < 0.001	p < 0.001	p < 0.001	p = 0.562	p < 0.001	p = 0.060	p < 0.001	p < 0.001
	-0.095 (SE = 0.050) [-0.193, 0.003]	-12.533 (SE = 0.050) [-12.631, -12.435]	-0.041 (SE = 0.050) [-0.139, 0.057]	0.091 (SE = 0.050) [-0.007, 0.189]	-0.853 (SE = 0.050) [-0.951, -0.755]	0.394 (SE = 0.050) [0.296, 0.492]	-0.119 (SE = 0.050) [-0.217, -0.021]	-0.081 (SE = 0.050) [-0.179, 0.017]	-1.224 (SE = 0.050) [-1.322, -1.126]	-0.388 (SE = 0.050) [-0.486, -0.290]	-10.336 (SE = 0.050) [-10.434, -10.238]	0.075 (SE = 0.050) [-0.023, 0.173]
\$5000-\$7999	p = 0.057	p < 0.001	p = 0.412	p = 0.069	p < 0.001	p < 0.001	p = 0.017	p = 0.105	p < 0.001	p < 0.001	p < 0.001	p = 0.134
	-0.137 (SE = 0.050) [-0.235, -0.039]	-19.251 (SE = 0.050) [-19.349, -19.153]	-0.066 (SE = 0.050) [-0.164, 0.032]	0.058 (SE = 0.050) [-0.040, 0.156]	-1.145 (SE = 0.050) [-1.243, -1.047]	1.473 (SE = 0.050) [1.375, 1.571]	-1.129 (SE = 0.050) [-1.227, -1.031]	-0.265 (SE = 0.050) [-0.363, -0.167]	-2.082 (SE = 0.050) [-2.180, -1.984]	-0.030 (SE = 0.050) [-0.128, 0.068]	-14.896 (SE = 0.050) [-14.994, -14.798]	-1.178 (SE = 0.050) [-1.276, -1.080]
	p = 0.057	p < 0.001	p = 0.412	p = 0.069	p < 0.001	p < 0.001	p = 0.017	p = 0.105	p < 0.001	p < 0.001	p < 0.001	p = 0.134
\$8000-\$9999	-0.137 (SE = 0.050) [-0.235, -0.039]	-19.251 (SE = 0.050) [-19.349, -19.153]	-0.066 (SE = 0.050) [-0.164, 0.032]	0.058 (SE = 0.050) [-0.040, 0.156]	-1.145 (SE = 0.050) [-1.243, -1.047]	1.473 (SE = 0.050) [1.375, 1.571]	-1.129 (SE = 0.050) [-1.227, -1.031]	-0.265 (SE = 0.050) [-0.363, -0.167]	-2.082 (SE = 0.050) [-2.180, -1.984]	-0.030 (SE = 0.050) [-0.128, 0.068]	-14.896 (SE = 0.050) [-14.994, -14.798]	-1.178 (SE = 0.050) [-1.276, -1.080]
	p = 0.057	p < 0.001	p = 0.412	p = 0.069	p < 0.001	p < 0.001	p = 0.017	p = 0.105	p < 0.001	p < 0.001	p < 0.001	p = 0.134
	-0.137 (SE = 0.050) [-0.235, -0.039]	-19.251 (SE = 0.050) [-19.349, -19.153]	-0.066 (SE = 0.050) [-0.164, 0.032]	0.058 (SE = 0.050) [-0.040, 0.156]	-1.145 (SE = 0.050) [-1.243, -1.047]	1.473 (SE = 0.050) [1.375, 1.571]	-1.129 (SE = 0.050) [-1.227, -1.031]	-0.265 (SE = 0.050) [-0.363, -0.167]	-2.082 (SE = 0.050) [-2.180, -1.984]	-0.030 (SE = 0.050) [-0.128, 0.068]	-14.896 (SE = 0.050) [-14.994, -14.798]	-1.178 (SE = 0.050) [-1.276, -1.080]

	Weekly Shopping Frequency	Weekly Food Spending	HEI	FSANZ	NOVA 1		NOVA 2		NOVA 3		NOVA 4	
					\$	%	\$	%	\$	%	\$	%
\$10,000- \$11,999	p = 0.006	p < 0.001	p = 0.187	p = 0.246	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p = 0.549	p < 0.001	p < 0.001
	-0.114 (SE = 0.050)	-12.443 (SE = 0.050)	-0.048 (SE = 0.050)	0.019 (SE = 0.050)	-1.026 (SE = 0.050)	0.439 (SE = 0.050)	-0.749 (SE = 0.050)	-0.375 (SE = 0.050)	-1.819 (SE = 0.050)	-0.187 (SE = 0.050)	-8.849 (SE = 0.050)	0.123 (SE = 0.050)
	[-0.212, -0.016]	[-12.541, -12.345]	[-0.146, 0.050]	[-0.079, 0.117]	[-1.124, -0.928]	[0.341, 0.537]	[-0.847, -0.651]	[-0.473, -0.277]	[-1.917, -1.721]	[-0.285, -0.089]	[-8.947, -8.751]	[0.025, 0.221]
\$12,000- \$14,999	p = 0.023	p < 0.001	p = 0.337	p = 0.704	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p = 0.014
	-0.120 (SE = 0.050)	-16.174 (SE = 0.050)	-0.054 (SE = 0.050)	0.181 (SE = 0.050)	-1.408 (SE = 0.050)	0.476 (SE = 0.050)	-0.728 (SE = 0.050)	-0.060 (SE = 0.050)	-1.935 (SE = 0.050)	-0.041 (SE = 0.050)	-12.103 (SE = 0.050)	-0.376 (SE = 0.050)
	[-0.218, -0.022]	[-16.272, -16.076]	[-0.152, 0.044]	[0.083, 0.279]	[-1.506, -1.310]	[0.378, 0.574]	[-0.826, -0.630]	[-0.158, 0.038]	[-2.033, -1.837]	[-0.139, 0.057]	[-12.201, -12.005]	[-0.474, -0.278]
\$15,000- \$19,999	p = 0.016	p < 0.001	p = 0.280	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p = 0.230	p < 0.001	p = 0.412	p < 0.001	p < 0.001
	-0.078 (SE = 0.050)	-16.503 (SE = 0.050)	-0.063 (SE = 0.050)	0.162 (SE = 0.050)	-1.264 (SE = 0.050)	0.700 (SE = 0.050)	-0.756 (SE = 0.050)	-0.046 (SE = 0.050)	-1.664 (SE = 0.050)	-0.044 (SE = 0.050)	-12.819 (SE = 0.050)	-0.609 (SE = 0.050)
	[-0.176, 0.020]	[-16.601, -16.405]	[-0.161, 0.035]	[0.064, 0.260]	[-1.362, -1.166]	[0.602, 0.798]	[-0.854, -0.658]	[-0.144, 0.052]	[-1.762, -1.566]	[-0.142, 0.054]	[-12.917, -12.721]	[-0.707, -0.511]
\$20,000- \$24,999	p = 0.119	p < 0.001	p = 0.208	p = 0.001	p < 0.001	p < 0.001	p < 0.001	p = 0.358	p < 0.001	p = 0.379	p < 0.001	p < 0.001
	-0.053 (SE = 0.050)	-16.039 (SE = 0.050)	-0.057 (SE = 0.050)	0.039 (SE = 0.050)	-1.223 (SE = 0.050)	0.694 (SE = 0.050)	-0.713 (SE = 0.050)	0.020 (SE = 0.050)	-1.473 (SE = 0.050)	0.092 (SE = 0.050)	-12.630 (SE = 0.050)	-0.805 (SE = 0.050)
	[-0.151, 0.045]	[-16.137, -15.941]	[-0.155, 0.041]	[-0.059, 0.137]	[-1.321, -1.125]	[0.596, 0.792]	[-0.811, -0.615]	[-0.078, 0.118]	[-1.571, -1.375]	[-0.006, 0.190]	[-12.728, -12.532]	[-0.903, -0.707]
\$25,000- \$29,999	p = 0.289	p < 0.001	p = 0.254	p = 0.435	p < 0.001	p < 0.001	p < 0.001	p = 0.689	p < 0.001	p = 0.066	p < 0.001	p < 0.001
	-0.053 (SE = 0.050)	-14.976 (SE = 0.050)	-0.047 (SE = 0.050)	-0.022 (SE = 0.050)	-1.063 (SE = 0.050)	0.999 (SE = 0.050)	-0.784 (SE = 0.050)	-0.019 (SE = 0.050)	-1.608 (SE = 0.050)	-0.043 (SE = 0.050)	-11.520 (SE = 0.050)	-0.937 (SE = 0.050)
	[-0.151, 0.045]	[-15.074, -14.878]	[-0.145, 0.051]	[-0.120, 0.076]	[-1.161, -0.965]	[0.901, 1.097]	[-0.882, -0.686]	[-0.117, 0.079]	[-1.706, -1.510]	[-0.141, 0.055]	[-11.618, -11.422]	[-1.035, -0.839]
\$30,000- \$34,999	p = 0.289	p < 0.001	p = 0.347	p = 0.660	p < 0.001	p < 0.001	p < 0.001	p = 0.704	p < 0.001	p = 0.390	p < 0.001	p < 0.001
	-0.089 (SE = 0.050)	-16.457 (SE = 0.050)	-0.058 (SE = 0.050)	-0.018 (SE = 0.050)	-1.143 (SE = 0.050)	1.019 (SE = 0.050)	-0.848 (SE = 0.050)	-0.080 (SE = 0.050)	-1.491 (SE = 0.050)	0.185 (SE = 0.050)	-12.976 (SE = 0.050)	-1.124 (SE = 0.050)

	Weekly Shopping Frequency	Weekly Food Spending	HEI	FSANZ	NOVA 1		NOVA 2		NOVA 3		NOVA 4	
					\$	%	\$	%	\$	%	\$	%
\$35,000- \$39,999	[-0.187, 0.009]	[-16.555, -16.359]	[-0.156, 0.040]	[-0.116, 0.080]	[-1.241, -1.045]	[0.921, 1.117]	[-0.946, -0.750]	[-0.178, 0.018]	[-1.589, -1.393]	[0.087, 0.283]	[-13.074, -12.878]	[-1.222, -1.026]
	p = 0.075	p < 0.001	p = 0.246	p = 0.719	p < 0.001	p < 0.001	p < 0.001	p = 0.110	p < 0.001	p < 0.001	p < 0.001	p < 0.001
	-0.093 (SE = 0.050)	-13.562 (SE = 0.050)	-0.053 (SE = 0.050)	-0.088 (SE = 0.050)	-0.554 (SE = 0.050)	1.032 (SE = 0.050)	-0.315 (SE = 0.050)	0.271 (SE = 0.050)	-0.620 (SE = 0.050)	0.475 (SE = 0.050)	-12.073 (SE = 0.050)	-1.778 (SE = 0.050)
\$40,000- \$44,999	[-0.191, 0.005]	[-13.660, -13.464]	[-0.151, 0.045]	[-0.186, 0.010]	[-0.652, -0.456]	[0.934, 1.130]	[-0.413, -0.217]	[0.173, 0.369]	[-0.718, -0.522]	[0.377, 0.573]	[-12.171, -11.975]	[-1.876, -1.680]
	p = 0.063	p < 0.001	p = 0.289	p = 0.078	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p < 0.001
	-0.106 (SE = 0.050)	-11.565 (SE = 0.050)	-0.060 (SE = 0.050)	-0.087 (SE = 0.050)	-0.705 (SE = 0.050)	1.028 (SE = 0.050)	-0.544 (SE = 0.050)	0.045 (SE = 0.050)	-0.544 (SE = 0.050)	0.464 (SE = 0.050)	-9.771 (SE = 0.050)	-1.536 (SE = 0.050)
\$45,000- \$49,999	[-0.204, - 0.008]	[-11.663, -11.467]	[-0.158, 0.038]	[-0.185, 0.011]	[-0.803, -0.607]	[0.930, 1.126]	[-0.642, -0.446]	[-0.053, 0.143]	[-0.642, -0.446]	[0.366, 0.562]	[-9.869, -9.673]	[-1.634, -1.438]
	p = 0.034	p < 0.001	p = 0.230	p = 0.082	p < 0.001	p < 0.001	p < 0.001	p = 0.368	p < 0.001	p < 0.001	p < 0.001	p < 0.001
	-0.114 (SE = 0.050)	-10.821 (SE = 0.050)	-0.051 (SE = 0.050)	-0.097 (SE = 0.050)	-0.542 (SE = 0.050)	1.081 (SE = 0.050)	-0.663 (SE = 0.050)	-0.039 (SE = 0.050)	-0.581 (SE = 0.050)	0.541 (SE = 0.050)	-9.035 (SE = 0.050)	-1.583 (SE = 0.050)
\$50,000- \$59,999	[-0.212, - 0.016]	[-10.919, -10.723]	[-0.149, 0.047]	[-0.195, 0.001]	[-0.640, -0.444]	[0.983, 1.179]	[-0.761, -0.565]	[-0.137, 0.059]	[-0.679, -0.483]	[0.443, 0.639]	[-9.133, -8.937]	[-1.681, -1.485]
	p = 0.023	p < 0.001	p = 0.308	p = 0.052	p < 0.001	p < 0.001	p < 0.001	p = 0.435	p < 0.001	p < 0.001	p < 0.001	p < 0.001
	-0.102 (SE = 0.050)	-10.017 (SE = 0.050)	-0.055 (SE = 0.050)	-0.141 (SE = 0.050)	0.320 (SE = 0.050)	1.561 (SE = 0.050)	-0.071 (SE = 0.050)	0.245 (SE = 0.050)	0.089 (SE = 0.050)	0.525 (SE = 0.050)	-10.356 (SE = 0.050)	-2.331 (SE = 0.050)
\$60,000- \$69,999	[-0.200, - 0.004]	[-10.115, -9.919]	[-0.153, 0.043]	[-0.239, -0.043]	[0.222, 0.418]	[1.463, 1.659]	[-0.169, 0.027]	[0.147, 0.343]	[-0.009, 0.187]	[0.427, 0.623]	[-10.454, -10.258]	[-2.429, -2.233]
	p = 0.041	p < 0.001	p = 0.271	p = 0.005	p < 0.001	p < 0.001	p = 0.156	p < 0.001	p = 0.075	p < 0.001	p < 0.001	p < 0.001
	-0.167 (SE = 0.050)	-9.009 (SE = 0.050)	-0.059 (SE = 0.050)	-0.233 (SE = 0.050)	0.138 (SE = 0.050)	1.511 (SE = 0.050)	-0.106 (SE = 0.050)	0.284 (SE = 0.050)	0.098 (SE = 0.050)	0.747 (SE = 0.050)	-9.139 (SE = 0.050)	-2.541 (SE = 0.050)
\$70,000- \$99,999	[-0.265, - 0.069]	[-9.107, - 8.911]	[-0.157, 0.039]	[-0.331, -0.135]	[0.040, 0.236]	[1.413, 1.609]	[-0.204, -0.008]	[0.186, 0.382]	[0.000, 0.196]	[0.649, 0.845]	[-9.237, -9.041]	[-2.639, -2.443]
	p < 0.001	p < 0.001	p = 0.238	p < 0.001	p = 0.006	p < 0.001	p = 0.034	p < 0.001	p = 0.050	p < 0.001	p < 0.001	p < 0.001
	-0.176 (SE = 0.050)	-6.466 (SE = 0.050)	-0.056 (SE = 0.050)	-0.227 (SE = 0.050)	0.688 (SE = 0.050)	1.464 (SE = 0.050)	0.114 (SE = 0.050)	0.289 (SE = 0.050)	0.799 (SE = 0.050)	0.871 (SE = 0.050)	-8.067 (SE = 0.050)	-2.624 (SE = 0.050)

	Weekly Shopping Frequency	Weekly Food Spending	HEI	FSANZ	NOVA 1		NOVA 2		NOVA 3		NOVA 4	
					\$	%	\$	%	\$	%	\$	%
\$100,000+	[-0.274, -0.078]	[-6.564, -6.368]	[-0.154, 0.042]	[-0.325, -0.129]	[0.590, 0.786]	[1.366, 1.562]	[0.016, 0.212]	[0.191, 0.387]	[0.701, 0.897]	[0.773, 0.969]	[-8.165, -7.969]	[-2.722, -2.526]
	p < 0.001	p < 0.001	p = 0.263	p < 0.001	p < 0.001	p < 0.001	p = 0.023	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p < 0.001
	-0.221 (SE = 0.050)	-1.868 (SE = 0.050)	-0.067 (SE = 0.050)	-0.380 (SE = 0.050)	2.089 (SE = 0.050)	1.915 (SE = 0.050)	0.771 (SE = 0.050)	0.463 (SE = 0.050)	2.225 (SE = 0.050)	1.223 (SE = 0.050)	-6.953 (SE = 0.050)	-3.600 (SE = 0.050)
	[-0.319, -0.123]	[-1.966, -1.770]	[-0.165, 0.031]	[-0.478, -0.282]	[1.991, 2.187]	[1.817, 2.013]	[0.673, 0.869]	[0.365, 0.561]	[2.127, 2.323]	[1.125, 1.321]	[-7.051, -6.855]	[-3.698, -3.502]
Some High School	p < 0.001	p < 0.001	p = 0.180	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p < 0.001
	0.179 (SE = 0.050)	34.753 (SE = 0.050)	-0.007 (SE = 0.050)	0.401 (SE = 0.050)	4.877 (SE = 0.050)	0.594 (SE = 0.050)	2.572 (SE = 0.050)	0.105 (SE = 0.050)	3.222 (SE = 0.050)	-1.033 (SE = 0.050)	24.082 (SE = 0.050)	0.333 (SE = 0.050)
	[0.081, 0.277]	[34.655, 34.851]	[-0.105, 0.091]	[0.303, 0.499]	[4.779, 4.975]	[0.496, 0.692]	[2.474, 2.670]	[0.007, 0.203]	[3.124, 3.320]	[-1.131, -0.935]	[23.984, 24.180]	[0.235, 0.431]
	p < 0.001	p < 0.001	p = 0.889	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p = 0.036	p < 0.001	p < 0.001	p < 0.001	p < 0.001
High School	0.119 (SE = 0.050)	33.872 (SE = 0.050)	0.061 (SE = 0.050)	0.361 (SE = 0.050)	3.914 (SE = 0.050)	-0.086 (SE = 0.050)	1.925 (SE = 0.050)	-0.463 (SE = 0.050)	2.951 (SE = 0.050)	-0.723 (SE = 0.050)	25.081 (SE = 0.050)	1.273 (SE = 0.050)
	[0.021, 0.217]	[33.774, 33.970]	[-0.037, 0.159]	[0.263, 0.459]	[3.816, 4.012]	[-0.184, 0.012]	[1.827, 2.023]	[-0.561, -0.365]	[2.853, 3.049]	[-0.821, -0.625]	[24.983, 25.179]	[1.175, 1.371]
	p = 0.017	p < 0.001	p = 0.222	p < 0.001	p < 0.001	p = 0.085	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p < 0.001
	0.095 (SE = 0.050)	32.481 (SE = 0.050)	0.055 (SE = 0.050)	0.134 (SE = 0.050)	4.572 (SE = 0.050)	0.395 (SE = 0.050)	2.241 (SE = 0.050)	-0.255 (SE = 0.050)	3.480 (SE = 0.050)	-0.379 (SE = 0.050)	22.187 (SE = 0.050)	0.239 (SE = 0.050)
Some College	[-0.003, 0.193]	[32.383, 32.579]	[-0.043, 0.153]	[0.036, 0.232]	[4.474, 4.670]	[0.297, 0.493]	[2.143, 2.339]	[-0.353, -0.157]	[3.382, 3.578]	[-0.477, -0.281]	[22.089, 22.285]	[0.141, 0.337]
	p = 0.057	p < 0.001	p = 0.271	p = 0.007	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p < 0.001
	0.102 (SE = 0.050)	28.371 (SE = 0.050)	0.062 (SE = 0.050)	-0.165 (SE = 0.050)	4.943 (SE = 0.050)	1.310 (SE = 0.050)	2.043 (SE = 0.050)	-0.132 (SE = 0.050)	3.426 (SE = 0.050)	-0.029 (SE = 0.050)	17.958 (SE = 0.050)	-1.149 (SE = 0.050)
	[0.004, 0.200]	[28.273, 28.469]	[-0.036, 0.160]	[-0.263, -0.067]	[4.845, 5.041]	[1.212, 1.408]	[1.945, 2.141]	[-0.230, -0.034]	[3.328, 3.524]	[-0.127, 0.069]	[17.860, 18.056]	[-1.247, -1.051]
College	p = 0.041	p < 0.001	p = 0.215	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p = 0.008	p < 0.001	p = 0.562	p < 0.001	p < 0.001
	0.062 (SE = 0.050)	24.483 (SE = 0.050)	0.073 (SE = 0.050)	-0.451 (SE = 0.050)	5.887 (SE = 0.050)	2.460 (SE = 0.050)	2.492 (SE = 0.050)	0.391 (SE = 0.050)	3.335 (SE = 0.050)	0.056 (SE = 0.050)	12.769 (SE = 0.050)	-2.907 (SE = 0.050)
	[-0.036, 0.160]	[24.385, 24.581]	[-0.025, 0.171]	[-0.549, -0.353]	[5.789, 5.985]	[2.362, 2.558]	[2.394, 2.590]	[0.293, 0.489]	[3.237, 3.433]	[-0.042, 0.154]	[12.671, 12.867]	[-3.005, -2.809]

	Weekly Shopping Frequency	Weekly Food Spending	HEI	FSANZ	NOVA 1		NOVA 2		NOVA 3		NOVA 4	
					\$	%	\$	%	\$	%	\$	%
	p = 0.215	p < 0.001	p = 0.144	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p = 0.263	p < 0.001	p < 0.001
N	9367700	9367700	7634772	7634772	9367700	7634772	9367700	7634772	9367700	7634772	9367700	7634772
R2	0.062	0.086	0.002	0.039	0.064	0.033	0.035	0.016	0.040	0.019	0.084	0.047

Notes: HEI: Linearized HEI per 100g, higher indicates healthier products. FSANZ: Weighted FSANZ score ranging from -18 (most healthy) to 81 (less healthy). NOVA Group 1: Unprocessed or minimally processed foods. NOVA Group 2: Processed culinary ingredients. NOVA Group 3: Processed foods. NOVA Group 4: Ultra-processed foods. (\$): total weekly food spending. (%): proportion of weekly food spending. Observations are household-week combinations weighted for national representativeness, with dependent variables indicated above column. We control for the relative COVID severity of households' residing counties as well as household, county, and calendar week fixed effects. Standard errors are clustered at the household-county level in parentheses. The default baseline income and education level are less than \$5000 and no High School. The 95% confidence intervals are reported in square brackets. P values are from two-sided t-tests of the null hypothesis that the corresponding regression coefficient equals zero. Exact p values are reported where possible; values smaller than 0.001 are reported as p<0.001. No adjustment for multiple comparisons was applied.

Supplementary Table 9 | Baseline regression results (Module CPI)

	Weekly Shopping Frequency	Weekly Food Spending	HEI	FSANZ	NOVA 1		NOVA 2		NOVA 3		NOVA 4	
					\$	%	\$	%	\$	%	\$	%
Pandemic	0.006 (SE = 0.017) [-0.027, 0.039]	32.395 (SE = 1.384) [29.682, 35.108]	-0.034 (SE = 0.008) [-0.050, -0.018]	0.060 (SE = 0.029) [0.003, 0.117]	3.958 (SE = 0.228) [3.511, 4.405]	-0.325 (SE = 0.094) [-0.509, -0.141]	2.619 (SE = 0.157) [2.311, 2.927]	0.258 (SE = 0.065) [0.131, 0.385]	4.161 (SE = 0.190) [3.789, 4.533]	0.291 (SE = 0.078) [0.138, 0.444]	21.658 (SE = 0.984) [19.729, 23.587]	-0.224 (SE = 0.139) [-0.496, 0.048]
Lockdown	p = 0.724 -0.133 (SE = 0.017) [-0.166, -0.100]	p < 0.001 -5.600 (SE = 1.469) [-8.479, -2.721]	p < 0.001 -0.012 (SE = 0.011) [-0.034, 0.010]	p = 0.039 0.130 (SE = 0.038) [0.056, 0.204]	p < 0.001 -0.236 (SE = 0.266) [-0.285, 0.757]	p < 0.001 0.412 (SE = 0.104) [0.208, 0.616]	p < 0.001 -0.419 (SE = 0.202) [0.023, 0.815]	p < 0.001 0.461 (SE = 0.089) [0.287, 0.635]	p < 0.001 -0.743 (SE = 0.226) [-1.186, -0.300]	p < 0.001 -0.190 (SE = 0.095) [-0.376, 0.004]	p < 0.001 -5.511 (SE = 1.009) [-7.489, 3.533]	p = 0.107 -0.683 (SE = 0.161) [-0.999, 0.367]
Reopening	p < 0.001 -0.090 (SE = 0.018) [-0.125, -0.055]	p < 0.001 -11.097 (SE = 1.425) [-13.890, -8.304]	p = 0.275 -0.011 (SE = 0.009) [-0.029, 0.007]	p < 0.001 0.057 (SE = 0.032) [-0.006, 0.120]	p = 0.375 -1.556 (SE = 0.236) [-2.019, 1.093]	p < 0.001 -0.235 (SE = 0.100) [-0.431, 0.039]	p = 0.038 -0.641 (SE = 0.160) [-0.955, -0.327]	p < 0.001 0.121 (SE = 0.068) [-0.012, 0.254]	p = 0.001 -1.136 (SE = 0.193) [-1.514, 0.758]	p = 0.046 0.007 (SE = 0.081) [-0.152, 0.166]	p < 0.001 -7.764 (SE = 1.022) [-9.767, 5.761]	p < 0.001 0.108 (SE = 0.145) [-0.176, 0.392]
Post-pandemic	p < 0.001 -0.139 (SE = 0.018) [-0.174, -0.104]	p < 0.001 16.241 (SE = 1.494) [13.313, 19.169]	p = 0.222 -0.044 (SE = 0.008) [-0.060, 0.028]	p = 0.075 0.116 (SE = 0.032) [0.053, 0.179]	p < 0.001 -1.483 (SE = 0.243) [1.007, 1.959]	p = 0.019 -0.532 (SE = 0.100) [-0.728, 0.336]	p < 0.001 1.272 (SE = 0.166) [0.947, 1.597]	p = 0.075 0.112 (SE = 0.069) [-0.023, 0.247]	p < 0.001 2.004 (SE = 0.204) [1.604, 2.404]	p = 0.931 0.178 (SE = 0.083) [0.015, 0.341]	p < 0.001 11.482 (SE = 1.061) [9.402, 13.562]	p = 0.456 0.241 (SE = 0.148) [-0.049, 0.531]
N	9367700	9367700	7634772	7634772	9367700	7634772	9367700	7634772	9367700	7634772	9367700	7634772
R2	0.359	0.252	0.017	0.168	0.247	0.184	0.143	0.104	0.157	0.103	0.254	0.231

Notes: HEI: Linearized HEI per 100g, higher indicates healthier products. FSANZ: Weighted FSANZ score ranging from -18 (most healthy) to 81 (less healthy). NOVA Group 1: Unprocessed or minimally processed foods. NOVA Group 2: Processed culinary ingredients. NOVA Group 3: Processed foods. NOVA Group 4: Ultra-processed foods. (\$): total weekly food spending. (%): proportion of weekly food spending. Observations are household-week combinations weighted for national representativeness, with dependent variables indicated above column. We control for the relative COVID severity of households' residing counties as well as household, county, and calendar week fixed effects. Standard errors are clustered at the household-county level in parentheses. The 95% confidence intervals are reported in square brackets. P values are from two-sided t-tests of the null hypothesis that the corresponding regression coefficient equals zero. Exact p values are reported where possible; values smaller than 0.001 are reported as p<0.001. No adjustment for multiple comparisons was applied. The expenditure is calculated using prices adjusted by the Module CPI. The Module CPI for any given month represents the ratio of the current average price of all products within a NielsenIQ Product Module to the average price of that same module in January 2017 (the base period).

Supplementary Table 10 | Baseline regression results

	# of Items Purchased
Pandemic	12.395 (SE = 0.548) [11.321, 13.469] [p < 0.001]
Lockdown	-3.486 (SE = 0.566) [-4.595, -2.377] [p < 0.001]
Reopening	-4.44 (SE = 0.562) [-5.542, -3.338] [p < 0.001]
Post-pandemic	1.46 (SE = 0.583) [0.317, 2.603] [p = 0.012]
N	9367700
R2	0.263

Notes: Observations are household-week combinations weighted for national representativeness, with the dependent variable being the number of food items purchased. We control for the relative COVID severity of households' residing counties as well as household, county, and calendar week fixed effects. Standard errors are clustered at the household-county level in parentheses. The 95% confidence intervals are reported in square brackets. P values are from two-sided t-tests of the null hypothesis that the corresponding regression coefficient equals zero. Exact p values are reported where possible; values smaller than 0.001 are reported as p<0.001. No adjustment for multiple comparisons was applied.

Supplementary Table 11 | Baseline regression results by category

Variable	Category	Estimate	Std. Error	t value	Pr(> t)
Locked down	BAKED GOODS-FROZEN	0.00348	0.00546	0.637419	0.523913
Locked down	BAKING MIXES	0.00694	0.004747	1.462095	0.143846
Locked down	BAKING SUPPLIES	0.018574	0.006108	3.040785	0.002385
Locked down	BREAD AND BAKED GOODS	-0.0264	0.010715	-2.46384	0.013815
Locked down	BREAKFAST FOOD	-0.0377	0.008176	-4.6113	4.21E-06
Locked down	BREAKFAST FOODS-FROZEN	-0.02091	0.009319	-2.24381	0.024938
Locked down	BUTTER AND MARGARINE	0.019358	0.007344	2.636042	0.008442
Locked down	CANDY	0.01133	0.009689	1.169383	0.242365
Locked down	CARBONATED BEVERAGES	-0.0032	0.013207	-0.24223	0.80862
Locked down	CEREAL	-0.02746	0.009275	-2.96047	0.003102
Locked down	CHEESE	-0.01274	0.011374	-1.12054	0.262595
Locked down	COFFEE	-0.01681	0.008356	-2.01171	0.044364
Locked down	CONDIMENTS, GRAVIES, AND SAUCES	-0.01369	0.008095	-1.69071	0.091021
Locked down	COOKIES	-0.02111	0.007635	-2.76551	0.005727
Locked down	COT CHEESE, SOUR CREAM, TOPPINGS	0.008804	0.006535	1.347267	0.178022
Locked down	CRACKERS	-0.0186	0.007036	-2.64361	0.008256
Locked down	DESSERTS, GELATINS, SYRUP	-0.02815	0.005687	-4.94888	7.98E-07
Locked down	DESSERTS/FRUITS/TOPPINGS-FROZEN	0.004467	0.006018	0.742324	0.457965
Locked down	DOUGH PRODUCTS	0.000651	0.005923	0.109925	0.912478
Locked down	DRESSINGS/SALADS/PREP FOODS-DELI	-0.01892	0.013854	-1.36546	0.172236
Locked down	EGGS	0.013595	0.00795	1.710028	0.08739
Locked down	FLOUR	0.011499	0.004817	2.3872	0.017055
Locked down	FRESH MEAT	0.022731	0.009627	2.361139	0.018299
Locked down	FRESH PRODUCE	0.029758	0.012118	2.455783	0.014128
Locked down	FRUIT - CANNED	-0.00477	0.005806	-0.82134	0.411533
Locked down	FRUIT - DRIED	0.007698	0.007826	0.983744	0.325342
Locked down	GUM	-0.02246	0.005908	-3.80206	0.000147
Locked down	ICE CREAM, NOVELTIES	0.005742	0.00906	0.633768	0.526292
Locked down	JAMS, JELLIES, SPREADS	-0.01739	0.006218	-2.79653	0.005207
Locked down	JUICE, DRINKS - CANNED, BOTTLED	-0.04406	0.01015	-4.34049	1.48E-05
Locked down	JUICES, DRINKS-FROZEN	0.013788	0.01499	0.919807	0.35779
Locked down	MILK	-0.01932	0.010961	-1.76282	0.078059
Locked down	NUTS	0.008534	0.006735	1.267016	0.205273
Locked down	PACKAGED MEATS-DELI	-0.03102	0.010801	-2.87155	0.00412
Locked down	PACKAGED MILK AND MODIFIERS	-0.00216	0.007294	-0.29591	0.767325
Locked down	PASTA	-0.02988	0.005618	-5.31872	1.14E-07
Locked down	PICKLES, OLIVES, AND RELISH	0.009345	0.005461	1.711221	0.08717
Locked down	PIZZA/SNACKS/HORS D'OEUVRES-FRZN	-0.0249	0.011229	-2.21718	0.026704
Locked down	PREPARED FOOD-DRY MIXES	-0.03406	0.007913	-4.30375	1.75E-05
Locked down	PREPARED FOOD-READY-TO-SERVE	-0.04624	0.008906	-5.19206	2.25E-07
Locked down	PREPARED FOODS-FROZEN	-0.05499	0.013519	-4.06778	4.90E-05
Locked down	PUDDING, DESSERTS-DAIRY	-0.00616	0.009176	-0.67083	0.502408
Locked down	SALAD DRESSINGS, MAYO, TOPPINGS	-0.00143	0.00517	-0.27729	0.781585
Locked down	SEAFOOD - CANNED	-0.02948	0.007364	-4.00295	6.45E-05
Locked down	SHORTENING, OIL	0.007678	0.005046	1.521624	0.128235
Locked down	SNACKS	-0.02992	0.010539	-2.83938	0.004558
Locked down	SNACKS, SPREADS, DIPS-DAIRY	-0.00935	0.00669	-1.39752	0.16239
Locked down	SOFT DRINKS-NON-CARBONATED	-0.06058	0.009639	-6.28475	3.89E-10
Locked down	SOUP	-0.02653	0.009259	-2.86529	0.004202
Locked down	SPICES, SEASONING, EXTRACTS	0.024519	0.004614	5.314334	1.17E-07
Locked down	SUGAR, SWEETENERS	0.000645	0.00525	0.122864	0.902225
Locked down	TABLE SYRUPS, MOLASSES	0.003889	0.003774	1.030598	0.302835
Locked down	TEA	-0.01767	0.008164	-2.16461	0.030517
Locked down	UNPREP MEAT/POULTRY/SEAFOOD-FRZN	-0.00374	0.008005	-0.46708	0.640485
Locked down	VEGETABLES - CANNED	-0.02514	0.008591	-2.92605	0.003465
Locked down	VEGETABLES AND GRAINS - DRIED	-0.02162	0.005605	-3.85743	0.000118
Locked down	VEGETABLES-FROZEN	-0.02028	0.008084	-2.50832	0.012196
Locked down	YOGURT	-0.04037	0.01134	-3.56018	0.000378

Pandemic	BAKED GOODS-FROZEN	0.030431	0.004889	6.22481	5.68E-10
Pandemic	BAKING MIXES	0.04358	0.003636	11.98701	3.40E-32
Pandemic	BAKING SUPPLIES	0.046051	0.004289	10.7367	2.68E-26
Pandemic	BREAD AND BAKED GOODS	0.149502	0.00843	17.73395	3.12E-66
Pandemic	BREAKFAST FOOD	0.018544	0.006861	2.702937	0.006922
Pandemic	BREAKFAST FOODS-FROZEN	0.041137	0.008528	4.823969	1.50E-06
Pandemic	BUTTER AND MARGARINE	0.064106	0.005468	11.72433	6.53E-31
Pandemic	CANDY	0.04535	0.008562	5.296741	1.29E-07
Pandemic	CARBONATED BEVERAGES	0.102512	0.011219	9.137475	1.32E-19
Pandemic	CEREAL	0.096196	0.008728	11.02114	1.37E-27
Pandemic	CHEESE	0.133187	0.010442	12.75436	4.23E-36
Pandemic	COFFEE	0.050381	0.007479	6.735944	2.04E-11
Pandemic	CONDIMENTS, GRAVIES, AND SAUCES	0.121181	0.007207	16.81409	4.52E-60
Pandemic	COOKIES	0.066239	0.006966	9.509124	4.48E-21
Pandemic	COT CHEESE, SOUR CREAM, TOPPINGS	0.054362	0.005999	9.062274	2.58E-19
Pandemic	CRACKERS	0.049158	0.006346	7.746225	1.39E-14
Pandemic	DESSERTS, GELATINS, SYRUP	0.03398	0.005176	6.565191	6.35E-11
Pandemic	DESSERTS/FRUITS/TOPPINGS-FROZEN	0.011915	0.005338	2.232149	0.025698
Pandemic	DOUGH PRODUCTS	0.041298	0.005141	8.033457	1.48E-15
Pandemic	DRESSINGS/SALADS/PREP FOODS-DELI	0.083935	0.011454	7.328199	3.17E-13
Pandemic	EGGS	0.074431	0.006856	10.85608	7.76E-27
Pandemic	FLOUR	0.046932	0.003599	13.03912	1.41E-37
Pandemic	FRESH MEAT	0.058954	0.008834	6.673201	3.11E-11
Pandemic	FRESH PRODUCE	0.102099	0.009407	10.85328	7.96E-27
Pandemic	FRUIT - CANNED	0.033331	0.004748	7.019257	2.89E-12
Pandemic	FRUIT - DRIED	-0.00353	0.007101	-0.49727	0.619045
Pandemic	GUM	-0.02417	0.005406	-4.47092	8.17E-06
Pandemic	ICE CREAM, NOVELTIES	0.088924	0.007809	11.38723	2.69E-29
Pandemic	JAMS, JELLIES, SPREADS	0.047924	0.005566	8.610007	1.30E-17
Pandemic	JUICE, DRINKS - CANNED, BOTTLED	0.100222	0.009474	10.57899	1.35E-25
Pandemic	JUICES, DRINKS-FROZEN	9.12E-05	0.014546	0.006268	0.995
Pandemic	MILK	0.083044	0.010005	8.299838	1.72E-16
Pandemic	NUTS	0.02089	0.00524	3.986975	6.89E-05
Pandemic	PACKAGED MEATS-DELI	0.139961	0.009786	14.30235	1.35E-44
Pandemic	PACKAGED MILK AND MODIFIERS	0.048972	0.006261	7.822398	7.70E-15
Pandemic	PASTA	0.077737	0.005028	15.4612	1.80E-51
Pandemic	PICKLES, OLIVES, AND RELISH	0.038764	0.004572	8.477967	3.95E-17
Pandemic	PIZZA/SNACKS/HORS D'OEUVRES-FRZN	0.081683	0.01084	7.535617	6.85E-14
Pandemic	PREPARED FOOD-DRY MIXES	0.099185	0.007392	13.41828	1.22E-39
Pandemic	PREPARED FOOD-READY-TO-SERVE	0.098488	0.008346	11.79996	2.80E-31
Pandemic	PREPARED FOODS-FROZEN	0.133727	0.012742	10.4947	3.18E-25
Pandemic	PUDDING, DESSERTS-DAIRY	0.005358	0.00851	0.629562	0.529054
Pandemic	SALAD DRESSINGS, MAYO, TOPPINGS	0.043664	0.004421	9.876435	1.41E-22
Pandemic	SEAFOOD - CANNED	0.070859	0.0065	10.90102	5.01E-27
Pandemic	SHORTENING, OIL	0.049971	0.003942	12.67551	1.10E-35
Pandemic	SNACKS	0.131777	0.00856	15.39473	4.45E-51
Pandemic	SNACKS, SPREADS, DIPS-DAIRY	0.034902	0.00581	6.006896	2.19E-09
Pandemic	SOFT DRINKS-NON-CARBONATED	0.065578	0.008162	8.035011	1.45E-15
Pandemic	SOUP	0.100403	0.00754	13.31576	4.39E-39
Pandemic	SPICES, SEASONING, EXTRACTS	0.050819	0.004004	12.69171	8.97E-36
Pandemic	SUGAR, SWEETENERS	0.046403	0.003789	12.24791	1.69E-33
Pandemic	TABLE SYRUPS, MOLASSES	0.023228	0.002747	8.456084	4.77E-17
Pandemic	TEA	0.045891	0.007746	5.924515	3.59E-09
Pandemic	UNPREP MEAT/POULTRY/SEAFOOD-FRZN	0.085288	0.00713	11.96192	4.60E-32
Pandemic	VEGETABLES - CANNED	0.118131	0.007498	15.75541	2.66E-53
Pandemic	VEGETABLES AND GRAINS - DRIED	0.05966	0.004547	13.11977	5.24E-38
Pandemic	VEGETABLES-FROZEN	0.097074	0.007553	12.85193	1.32E-36
Pandemic	YOGURT	0.002067	0.010076	0.205098	0.837513
Reopening	BAKED GOODS-FROZEN	-0.01218	0.005101	-2.38833	0.017003
Reopening	BAKING MIXES	-0.02326	0.003619	-6.42629	1.57E-10
Reopening	BAKING SUPPLIES	-0.00955	0.004457	-2.14235	0.032266
Reopening	BREAD AND BAKED GOODS	-0.0306	0.009031	-3.38836	0.000714

Reopening	BREAKFAST FOOD	-0.01133	0.007295	-1.55334	0.120475
Reopening	BREAKFAST FOODS-FROZEN	-0.01505	0.009027	-1.66703	0.095643
Reopening	BUTTER AND MARGARINE	-0.02648	0.005708	-4.63872	3.69E-06
Reopening	CANDY	0.013049	0.009039	1.443695	0.148955
Reopening	CARBONATED BEVERAGES	-0.01048	0.012409	-0.84418	0.398653
Reopening	CEREAL	-0.04377	0.00912	-4.79898	1.69E-06
Reopening	CHEESE	-0.04245	0.010986	-3.86345	0.000115
Reopening	COFFEE	-0.01149	0.007822	-1.46868	0.142052
Reopening	CONDIMENTS, GRAVIES, AND SAUCES	-0.04205	0.007548	-5.57064	2.82E-08
Reopening	COOKIES	-0.01081	0.007409	-1.45873	0.14477
Reopening	COT CHEESE, SOUR CREAM, TOPPINGS	-0.00921	0.006331	-1.45521	0.145743
Reopening	CRACKERS	-0.03078	0.006763	-4.55162	5.59E-06
Reopening	DESSERTS, GELATINS, SYRUP	-0.03078	0.005467	-5.62931	2.02E-08
Reopening	DESSERTS/FRUITS/TOPPINGS-FROZEN	0.002648	0.005502	0.481241	0.63039
Reopening	DOUGH PRODUCTS	-0.01498	0.005244	-2.85567	0.004332
Reopening	DRESSINGS/SALADS/PREP FOODS-DELI	0.001528	0.011734	0.130212	0.89641
Reopening	EGGS	-0.04441	0.007212	-6.15789	8.62E-10
Reopening	FLOUR	-0.03441	0.003615	-9.51728	4.22E-21
Reopening	FRESH MEAT	-0.01632	0.009357	-1.74445	0.08121
Reopening	FRESH PRODUCE	0.012818	0.009705	1.320855	0.186675
Reopening	FRUIT - CANNED	-0.01889	0.005041	-3.74785	0.000183
Reopening	FRUIT - DRIED	0.012837	0.007432	1.727219	0.084259
Reopening	GUM	-0.00723	0.005634	-1.28258	0.19977
Reopening	ICE CREAM, NOVELTIES	-0.00218	0.008339	-0.26123	0.793934
Reopening	JAMS, JELLIES, SPREADS	-0.04164	0.005756	-7.2347	6.25E-13
Reopening	JUICE, DRINKS - CANNED, BOTTLED	-0.04285	0.010115	-4.2359	2.36E-05
Reopening	JUICES, DRINKS-FROZEN	-0.0014	0.016606	-0.08443	0.93272
Reopening	MILK	-0.04252	0.010535	-4.03639	5.60E-05
Reopening	NUTS	0.01965	0.005497	3.57447	0.000358
Reopening	PACKAGED MEATS-DELI	-0.06474	0.010384	-6.23501	5.32E-10
Reopening	PACKAGED MILK AND MODIFIERS	-0.02495	0.006766	-3.68687	0.000232
Reopening	PASTA	-0.04814	0.005179	-9.29556	3.19E-20
Reopening	PICKLES, OLIVES, AND RELISH	-0.00873	0.004765	-1.83302	0.066925
Reopening	PIZZA/SNACKS/HORS D'OEUVRES-FRZN	-0.02813	0.011609	-2.42322	0.015457
Reopening	PREPARED FOOD-DRY MIXES	-0.04543	0.007511	-6.04877	1.69E-09
Reopening	PREPARED FOOD-READY-TO-SERVE	-0.06364	0.008931	-7.12628	1.36E-12
Reopening	PREPARED FOODS-FROZEN	-0.05647	0.013525	-4.17527	3.08E-05
Reopening	PUDDING, DESSERTS-DAIRY	0.00261	0.008827	0.295681	0.767505
Reopening	SALAD DRESSINGS, MAYO, TOPPINGS	-0.00628	0.004713	-1.33292	0.182685
Reopening	SEAFOOD - CANNED	-0.04921	0.006991	-7.03872	2.54E-12
Reopening	SHORTENING, OIL	-0.02279	0.004009	-5.68515	1.47E-08
Reopening	SNACKS	-0.02375	0.009323	-2.54796	0.010897
Reopening	SNACKS, SPREADS, DIPS-DAIRY	-0.01086	0.006315	-1.72037	0.085497
Reopening	SOFT DRINKS-NON-CARBONATED	-0.02656	0.008787	-3.02223	0.002536
Reopening	SOUP	-0.0653	0.008054	-8.10738	8.15E-16
Reopening	SPICES, SEASONING, EXTRACTS	0.001355	0.004047	0.334736	0.737853
Reopening	SUGAR, SWEETENERS	-0.03187	0.003876	-8.22289	3.21E-16
Reopening	TABLE SYRUPS, MOLASSES	-0.01318	0.002842	-4.63602	3.75E-06
Reopening	TEA	-0.01539	0.008126	-1.89416	0.058326
Reopening	UNPREP MEAT/POULTRY/SEAFOOD-FRZN	-0.02742	0.007355	-3.7283	0.000197
Reopening	VEGETABLES - CANNED	-0.06201	0.0078	-7.94984	2.85E-15
Reopening	VEGETABLES AND GRAINS - DRIED	-0.04637	0.004795	-9.67068	1.01E-21
Reopening	VEGETABLES-FROZEN	-0.04145	0.008103	-5.1153	3.38E-07
Reopening	YOGURT	-0.02248	0.010664	-2.10768	0.035164

Notes: Observations are household-week combinations weighted for national representativeness, with the dependent variable being the weekly total spending. We control for the relative COVID severity of households' residing counties as well as household, county, and calendar week fixed effects. Standard errors are clustered at the household-county level in parentheses. P values are from two-sided t-tests of the null hypothesis that the corresponding regression coefficient equals zero. Exact p values are reported where possible; values smaller than 0.001 are reported as p<0.001. No adjustment for multiple comparisons was applied.

Supplementary Table 12 | Dynamic effect of the pandemic (national emergency declaration)

	Weekly Shopping Frequency	Weekly Food Spending	HEI	FSANZ	NOVA 1	NOVA 2	NOVA 3	NOVA 4	% NOVA 1	% NOVA 2	% NOVA 3	% NOVA 4
Period: -8	0.288 (0.208)	-6.446 (13.828)	-0.282*** (0.078)	-2.311 (2.809)	-2.584 (3.320)	0.372 (1.673)	-5.536** (2.789)	1.328 (9.632)	2.875 (4.008)	2.149 (2.952)	-14.854 (13.337)	9.824 (17.624)
Period: -7	0.455 (0.288)	-12.561 (28.375)	-0.141*** (0.018)	0.470 (1.174)	-3.309 (3.754)	3.413 (2.406)	0.708 (1.499)	-13.346 (25.527)	-1.989 (5.204)	6.690*** (1.668)	-0.186 (3.230)	-4.522 (8.583)
Period: -6	0.640*** (0.227)	9.407 (20.149)	-0.309*** (0.028)	2.168** (0.953)	0.903 (1.302)	-1.389 (2.696)	-0.307 (2.368)	10.226 (14.702)	-4.342 (4.318)	-0.132 (2.051)	-3.485 (3.114)	7.952 (8.418)
Period: -5	0.339 (0.414)	-10.305 (29.734)	-0.048* (0.028)	-0.150 (0.959)	-3.917 (4.540)	2.603 (1.925)	-2.841 (3.378)	-6.124 (22.742)	-7.321* (4.320)	5.850*** (2.064)	-6.919** (3.114)	8.384 (8.422)
Period: -4	-0.157 (0.398)	-75.617 (59.879)	0.016 (0.063)	0.541 (2.042)	-14.590 (10.428)	-0.889 (1.478)	-9.995** (4.435)	-50.116 (45.067)	-2.720 (2.821)	-0.629 (2.808)	-22.730 (20.213)	26.073 (21.014)
Period: -3	0.287 (0.357)	0.954 (14.135)	0.069 (0.175)	0.769 (1.159)	-7.784 (4.942)	3.520* (2.138)	0.546 (0.426)	4.698 (11.318)	-18.101** (7.442)	4.847** (2.330)	-1.381 (3.134)	14.629 (9.952)
Period: -2	0.816*** (0.101)	1.008 (19.741)	-0.241** (0.120)	1.058 (1.883)	-5.960 (5.031)	1.820 (1.787)	0.426 (2.199)	4.748 (13.208)	-12.467*** (4.026)	2.823 (2.626)	-3.435 (3.504)	13.071 (8.609)
Period: 0	0.627*** (0.169)	46.795*** (3.169)	0.132*** (0.042)	-1.210 (1.202)	1.891 (1.483)	7.075*** (2.516)	6.565*** (0.967)	31.290*** (3.376)	-0.046 (3.273)	4.840* (2.688)	1.605* (0.923)	-6.404 (4.897)
Period: 1	0.732*** (0.255)	56.456*** (17.646)	-0.259*** (0.035)	3.054*** (0.415)	5.801 (5.757)	8.198*** (2.716)	4.194 (3.033)	38.289*** (8.780)	-0.524 (7.675)	5.944** (2.696)	-2.973 (2.679)	-2.454 (10.101)
Period: 2	0.659*** (0.146)	36.731*** (6.329)	0.289 (0.246)	-0.751 (2.625)	-0.676 (2.379)	5.478** (2.145)	0.101 (3.137)	31.855*** (2.411)	-28.297** (13.459)	3.346** (1.702)	1.085 (4.489)	23.860** (10.801)
Period: 3	0.462** (0.199)	15.168 (29.290)	-0.169*** (0.021)	0.151 (1.547)	3.418 (2.127)	6.747*** (2.461)	-6.362 (8.061)	11.391 (20.928)	-4.792 (5.425)	8.099*** (1.976)	-13.018*** (3.393)	9.704 (8.498)
Period: 4	0.005 (0.351)	-16.621 (36.870)	-0.005 (0.076)	-0.787 (0.576)	-3.304 (4.999)	3.076* (1.758)	-14.392 (12.040)	-1.975 (20.435)	-4.702 (3.940)	4.230* (2.398)	-19.271*** (5.252)	19.737* (11.187)
Period: 5	0.417** (0.189)	51.850*** (16.964)	-0.262 (0.178)	-5.113*** (1.328)	2.121 (4.234)	7.601** (3.099)	4.107*** (1.202)	38.047*** (11.039)	-7.953 (13.264)	6.035** (2.594)	0.896 (2.541)	1.015 (18.096)
Period: 6	0.455** (0.182)	38.845*** (10.147)	-0.222*** (0.085)	4.417*** (0.622)	6.132*** (0.827)	5.444*** (1.906)	1.939 (2.264)	25.356*** (9.559)	-13.392 (20.380)	6.048*** (2.120)	-2.771 (3.473)	10.105 (18.953)
Period: 7	0.087 (0.071)	7.597 (21.616)	0.009 (0.184)	2.357 (1.926)	6.885*** (0.689)	4.547*** (1.250)	0.722 (3.225)	-4.531 (19.026)	7.287*** (1.558)	4.108* (2.159)	1.031 (3.411)	-12.433*** (3.974)
Period: 8	0.423** (0.209)	36.868*** (6.635)	-0.031 (0.054)	-1.185 (0.786)	2.516 (3.007)	4.262** (1.947)	3.614*** (0.610)	26.503*** (4.559)	-2.164 (6.784)	-0.009 (3.797)	2.614** (1.035)	-0.447 (5.742)
N	6245400	6245400	5135722	5135722	6245400	6245400	6245400	6245400	5135722	5135722	5135722	5135722

	Weekly Shopping Frequency	Weekly Food Spending	HEI	FSANZ	NOVA 1	NOVA 2	NOVA 3	NOVA 4	% NOVA 1	% NOVA 2	% NOVA 3	% NOVA 4
R2	0.371	0.266	0.021	0.176	0.256	0.150	0.165	0.268	0.192	0.109	0.112	0.238

Notes: HEI: Linearized HEI per 100g, higher indicates healthier products. FSANZ: Weighted FSANZ score ranging from -18 (most healthy) to 81 (less healthy). NOVA Group 1: Unprocessed or minimally processed foods. NOVA Group 2: Processed culinary ingredients. NOVA Group 3: Processed foods. NOVA Group 4: Ultra-processed foods. (\$): total weekly food spending. (%): proportion of weekly food spending. Observations are household-year-week combinations weighted for national representativeness, with dependent variables indicated above column. We only use the pre-pandemic and 2020 data for this analysis. We control for the relative COVID severity of households' residing counties as well as household-year, county, and calendar week fixed effects. Standard errors are clustered at the household-year-county level in parentheses. The 95% confidence intervals are reported in square brackets. P values are from two-sided t-tests of the null hypothesis that the corresponding regression coefficient equals zero. Exact p values are reported where possible; values smaller than 0.001 are reported as $p < 0.001$. No adjustment for multiple comparisons was applied. For simplicity of presentation, we ignore the coefficients for periods outside 8 weeks prior and after the declaration of national emergency.

Supplementary Table 13 | Dynamic effect of the lockdown

	Weekly Shopping Frequency	Weekly Food Spending	HEI	FSANZ	NOVA 1	NOVA 2	NOVA 3	NOVA 4	% NOVA 1	% NOVA 2	% NOVA 3	% NOVA 4
Period: -8	-0.018 (0.019)	5.873*** (1.733)	-0.005 (0.018)	0.008 (0.058)	0.225 (0.312)	0.295 (0.218)	0.210 (0.369)	5.143*** (1.258)	-0.274 (0.187)	-0.101 (0.132)	-0.050 (0.185)	0.425 (0.280)
Period: -7	0.005 (0.019)	8.095*** (1.656)	-0.024 (0.029)	0.018 (0.062)	0.589* (0.337)	0.610** (0.263)	-0.055 (0.320)	6.950*** (1.214)	0.100 (0.224)	-0.050 (0.121)	-0.290* (0.169)	0.240 (0.297)
Period: -6	0.010 (0.018)	9.562*** (1.668)	0.013 (0.019)	-0.009 (0.055)	0.496 (0.306)	0.269 (0.213)	0.540* (0.325)	8.257*** (1.228)	-0.317 (0.195)	-0.242** (0.122)	-0.017 (0.166)	0.575** (0.262)
Period: -5	-0.005 (0.018)	8.020*** (1.697)	0.015 (0.018)	0.053 (0.054)	0.284 (0.303)	0.749*** (0.278)	0.257 (0.344)	6.730*** (1.256)	-0.340* (0.205)	0.084 (0.122)	-0.273 (0.176)	0.528* (0.281)
Period: -4	0.013 (0.018)	9.776*** (1.652)	-0.003 (0.022)	0.032 (0.054)	0.571* (0.318)	0.897*** (0.228)	0.806** (0.370)	7.502*** (1.182)	-0.377* (0.218)	0.086 (0.132)	-0.163 (0.171)	0.453* (0.264)
Period: -3	0.076*** (0.022)	13.951*** (1.944)	0.018 (0.022)	-0.053 (0.049)	1.361*** (0.312)	0.760*** (0.229)	1.537*** (0.386)	10.293*** (1.376)	-0.226 (0.193)	-0.133 (0.118)	0.042 (0.157)	0.317 (0.245)
Period: -2	0.173*** (0.017)	18.184*** (1.698)	0.027 (0.019)	-0.144*** (0.047)	2.073*** (0.294)	1.157*** (0.239)	2.182*** (0.336)	12.772*** (1.225)	-0.004 (0.167)	-0.078 (0.117)	-0.025 (0.150)	0.107 (0.241)
Period: 0	-0.019 (0.018)	4.737** (1.876)	-0.013 (0.021)	-0.031 (0.045)	0.972*** (0.339)	0.767*** (0.230)	0.398 (0.357)	2.600** (1.281)	0.802*** (0.181)	0.089 (0.100)	-0.279* (0.150)	-0.612*** (0.233)
Period: 1	-0.153*** (0.014)	-4.610*** (1.749)	0.005 (0.019)	0.006 (0.050)	0.282 (0.352)	0.408 (0.252)	-1.093*** (0.334)	-4.207*** (1.145)	0.831*** (0.175)	0.480*** (0.122)	-0.170 (0.161)	-1.141*** (0.236)
Period: 2	-0.164*** (0.013)	0.205 (1.696)	-0.011 (0.027)	0.149*** (0.049)	0.743** (0.307)	0.277 (0.225)	-0.141 (0.321)	-0.674 (1.212)	0.557*** (0.180)	0.156 (0.109)	-0.135 (0.164)	-0.577** (0.234)
Period: 3	-0.126*** (0.016)	6.242*** (1.721)	0.003 (0.015)	0.169*** (0.048)	1.675*** (0.333)	0.531** (0.235)	0.538 (0.351)	3.499*** (1.223)	0.531*** (0.164)	0.166 (0.110)	0.040 (0.172)	-0.738*** (0.215)
Period: 4	-0.073*** (0.016)	8.452*** (1.669)	-0.007 (0.025)	0.163*** (0.050)	2.439*** (0.327)	1.033*** (0.232)	0.993** (0.403)	3.986*** (1.127)	0.607*** (0.172)	0.229* (0.129)	-0.179 (0.158)	-0.657*** (0.232)
Period: 5	-0.027* (0.015)	7.704*** (1.732)	-0.015 (0.018)	0.162*** (0.056)	1.576*** (0.324)	0.864*** (0.251)	0.882** (0.362)	4.382*** (1.207)	0.098 (0.180)	0.205* (0.120)	0.100 (0.192)	-0.403 (0.275)
Period: 6	0.013 (0.014)	12.266*** (1.822)	0.012 (0.016)	0.133** (0.052)	2.922*** (0.338)	1.914*** (0.279)	0.930*** (0.335)	6.500*** (1.267)	0.571*** (0.187)	0.400*** (0.133)	-0.404** (0.170)	-0.567** (0.239)
Period: 7	-0.003 (0.018)	9.875*** (2.059)	0.004 (0.026)	0.012 (0.057)	2.371*** (0.373)	1.545*** (0.293)	1.047** (0.424)	4.913*** (1.467)	0.476** (0.213)	0.453*** (0.143)	-0.267 (0.221)	-0.662** (0.276)
Period: 8	-0.010 (0.022)	12.082*** (2.103)	0.005 (0.029)	0.215*** (0.071)	2.641*** (0.406)	1.337*** (0.354)	0.613 (0.412)	7.490*** (1.476)	0.158 (0.239)	0.411** (0.164)	-0.417** (0.209)	-0.152 (0.335)
N	6245400	6245400	5135722	5135722	6245400	6245400	6245400	6245400	5135722	5135722	5135722	5135722
R2	0.372	0.266	0.021	0.176	0.256	0.150	0.165	0.269	0.192	0.109	0.112	0.238

Notes: HEI: Linearized HEI per 100g, higher indicates healthier products. FSANZ: Weighted FSANZ score ranging from -18 (most healthy) to 81 (less healthy). NOVA Group 1: Unprocessed or minimally processed foods. NOVA Group 2: Processed culinary ingredients. NOVA Group 3: Processed foods. NOVA Group 4: Ultra-processed foods. (\$): total weekly food spending. (%): proportion of weekly food spending. Observations are household-year-week combinations weighted for national representativeness, with dependent variables indicated above column. We only use the pre-pandemic and 2020 data for this analysis. We control for the relative COVID severity of households' residing counties as well as household-year, county, and calendar week fixed effects. Standard errors are clustered at the household-year-county level in parentheses. The 95% confidence intervals are reported in square brackets. P values are from two-sided t-tests of the null hypothesis that the corresponding regression coefficient equals zero. Exact p values are reported where possible; values smaller than 0.001 are reported as $p < 0.001$. No adjustment for multiple comparisons was applied. For simplicity of presentation, we ignore the coefficients for periods outside 8 weeks prior and after the lockdown.

Supplementary Table 14 | Dynamic effect of the reopening

	Weekly Shopping Frequency	Weekly Food Spending	HEI	FSANZ	NOVA 1	NOVA 2	NOVA 3	NOVA 4	% NOVA 1	% NOVA 2	% NOVA 3	% NOVA 4
Period: -8	0.003 (0.017)	2.830 (2.180)	0.027 (0.033)	-0.173*** (0.056)	1.173*** (0.370)	-0.034 (0.276)	0.393 (0.381)	1.298 (1.577)	0.575*** (0.196)	-0.101 (0.143)	0.247 (0.190)	-0.721** (0.297)
Period: -7	-0.001 (0.019)	5.336** (2.091)	0.080*** (0.026)	-0.157*** (0.059)	1.186*** (0.369)	0.150 (0.260)	0.683* (0.410)	3.318** (1.510)	0.766*** (0.212)	0.049 (0.137)	0.070 (0.189)	-0.886*** (0.289)
Period: -6	-0.010 (0.019)	3.114 (2.083)	0.037 (0.029)	-0.075 (0.058)	0.761** (0.355)	0.196 (0.285)	0.179 (0.399)	1.978 (1.466)	0.607*** (0.185)	0.066 (0.134)	0.082 (0.197)	-0.754*** (0.257)
Period: -5	-0.030* (0.016)	2.648 (1.943)	0.024 (0.031)	-0.058 (0.060)	0.491 (0.332)	0.271 (0.271)	0.621 (0.378)	1.265 (1.410)	0.227 (0.198)	0.064 (0.134)	0.311 (0.200)	-0.601** (0.279)
Period: -4	-0.046*** (0.015)	3.072* (1.851)	0.036 (0.025)	-0.046 (0.058)	0.752** (0.340)	0.437* (0.261)	0.141 (0.369)	1.742 (1.314)	0.419** (0.188)	0.180 (0.137)	0.023 (0.194)	-0.622** (0.279)
Period: -3	-0.007 (0.015)	2.282 (1.999)	0.035 (0.025)	0.081 (0.057)	0.297 (0.376)	0.410 (0.260)	0.544 (0.386)	1.030 (1.408)	0.088 (0.186)	0.281** (0.132)	0.182 (0.190)	-0.551** (0.278)
Period: -2	0.004 (0.016)	2.940 (2.096)	0.015 (0.024)	0.004 (0.057)	0.084 (0.358)	0.509* (0.290)	0.007 (0.381)	2.339 (1.482)	0.105 (0.206)	0.156 (0.138)	-0.021 (0.213)	-0.240 (0.268)
Period: 0	-0.144*** (0.022)	-11.385*** (2.397)	0.002 (0.028)	0.042 (0.061)	-0.778* (0.416)	-0.089 (0.340)	-1.139*** (0.425)	-9.379*** (1.697)	0.412** (0.210)	0.316** (0.155)	0.312 (0.218)	-1.039*** (0.326)
Period: 1	-0.156*** (0.022)	-12.633*** (2.378)	-0.008 (0.035)	0.025 (0.062)	-0.908** (0.416)	-0.422 (0.303)	-1.528*** (0.427)	-9.774*** (1.706)	0.415* (0.221)	0.199 (0.151)	0.119 (0.212)	-0.734** (0.316)
Period: 2	-0.128*** (0.021)	-12.507*** (2.322)	0.031 (0.027)	0.000 (0.060)	-0.861** (0.424)	-0.528* (0.296)	-1.374*** (0.441)	-9.743*** (1.672)	0.397* (0.217)	0.364** (0.159)	0.019 (0.220)	-0.780** (0.312)
Period: 3	-0.141*** (0.022)	-15.135*** (2.252)	0.037 (0.031)	0.024 (0.066)	-1.083*** (0.407)	-1.084*** (0.306)	-1.951*** (0.446)	-11.017*** (1.573)	0.359 (0.222)	-0.054 (0.151)	0.059 (0.231)	-0.363 (0.344)
Period: 4	-0.132*** (0.021)	-14.150*** (2.299)	0.023 (0.025)	-0.014 (0.067)	-1.080*** (0.396)	-1.072*** (0.307)	-1.235*** (0.454)	-10.762*** (1.623)	0.466** (0.234)	0.064 (0.165)	0.162 (0.236)	-0.693** (0.321)
Period: 5	-0.121*** (0.022)	-15.403*** (2.204)	-0.099 (0.075)	-0.025 (0.062)	-1.077*** (0.416)	-1.153*** (0.293)	-1.625*** (0.431)	-11.549*** (1.585)	0.186 (0.227)	-0.046 (0.160)	0.229 (0.222)	-0.369 (0.335)
Period: 6	-0.136*** (0.022)	-16.602*** (2.294)	-0.044 (0.056)	0.007 (0.064)	-1.711*** (0.434)	-1.146*** (0.327)	-1.655*** (0.420)	-12.089*** (1.634)	0.111 (0.221)	-0.033 (0.161)	0.234 (0.235)	-0.313 (0.337)
Period: 7	-0.113*** (0.022)	-15.678*** (2.207)	0.009 (0.036)	0.003 (0.063)	-1.438*** (0.414)	-0.871*** (0.309)	-1.936*** (0.428)	-11.433*** (1.583)	0.246 (0.237)	0.087 (0.164)	0.009 (0.247)	-0.342 (0.342)
Period: 8	-0.141*** (0.022)	-16.658*** (2.358)	0.051* (0.031)	-0.035 (0.067)	-1.532*** (0.424)	-1.173*** (0.318)	-1.626*** (0.451)	-12.327*** (1.651)	0.331 (0.234)	0.061 (0.167)	0.381 (0.238)	-0.773** (0.341)
N	6245400	6245400	5135722	5135722	6245400	6245400	6245400	6245400	5135722	5135722	5135722	5135722
R2	0.371	0.265	0.021	0.176	0.256	0.150	0.165	0.268	0.192	0.109	0.112	0.238

Notes: HEI: Linearized HEI per 100g, higher indicates healthier products. FSANZ: Weighted FSANZ score ranging from -18 (most healthy) to 81 (less healthy). NOVA Group 1: Unprocessed or minimally processed foods. NOVA Group 2: Processed culinary ingredients. NOVA Group 3: Processed foods. NOVA Group 4: Ultra-processed foods. (\$): total weekly food spending. (%): proportion of weekly food spending. Observations are household-year-week combinations weighted for national representativeness, with dependent variables indicated above column. We only use the pre-pandemic and 2020 data for this analysis. We control for the relative COVID severity of households' residing counties as well as household-year, county, and calendar week fixed effects. Standard errors are clustered at the household-year-county level in parentheses. The 95% confidence intervals are reported in square brackets. P values are from two-sided t-tests of the null hypothesis that the corresponding regression coefficient equals zero. Exact p values are reported where possible; values smaller than 0.001 are reported as $p < 0.001$. No adjustment for multiple comparisons was applied. For simplicity of presentation, we ignore the coefficients for periods outside 8 weeks prior and after the reopening.