

CONSUMER RESPONSES TO HOUSEHOLD PROVISIONING DURING COVID-19 CRISIS AND RECOVERY

NSF 2030205

Kelly J. Clifton, Portland State University
RAPID, FY2020

Principal Research Investigators

Kelly J. Clifton, PhD, Portland State University (PI)



Rebecca Lewis, PhD, University of Oregon (Co-PI)



Community Partners

Rik Williams, Uber Technologies, Inc.



Project Overview



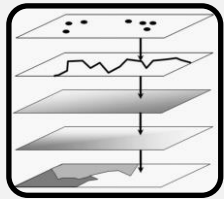
Project Team

Portland State
University of Oregon
Uber Eats



Online Surveys

4-waves
AZ, FL, MI, OR, & WA
Food shopping frequency
In-person & online
Technology adoption & use



Augment Data

COVID infections & vaccines
COVID policies
Food retailing environment
Online platform availability
Social vulnerability



Outcomes

Behavioral change
Technology adoption models
Transportation & shopping patterns
Barriers & food insecurity

Project Vision

- The acquisition of food and household necessities has been dramatically impacted by the COVID-19 pandemic.
- Aided by technology, online retailers & delivery services are filling some gaps left by the disruption.
- This is a unique opportunity to capture consumer behavioral change during this dynamic period, as people respond to the pandemic, its impacts, and policy responses.

Project Overview

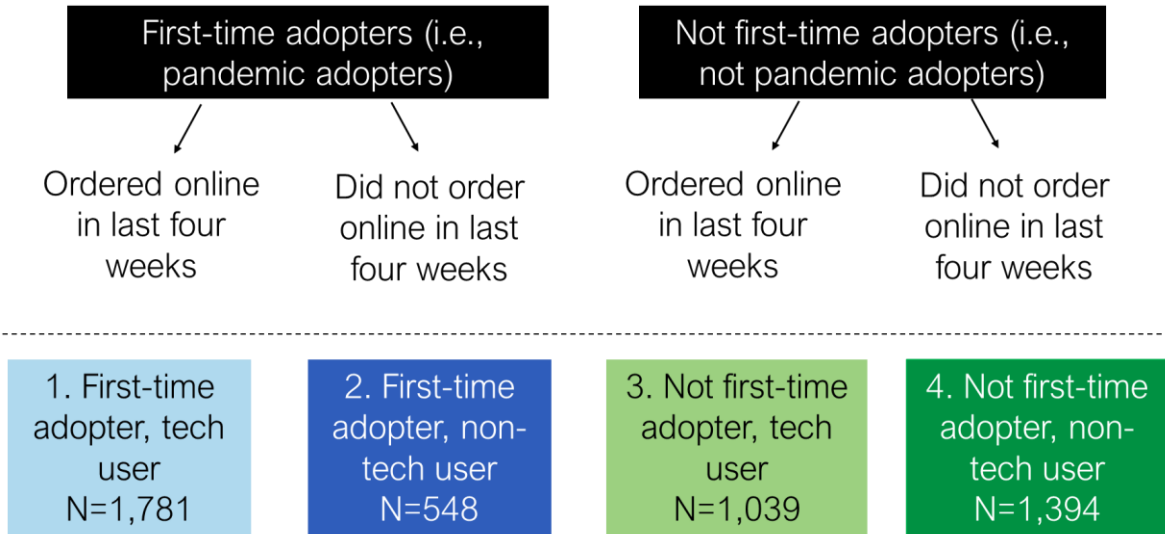
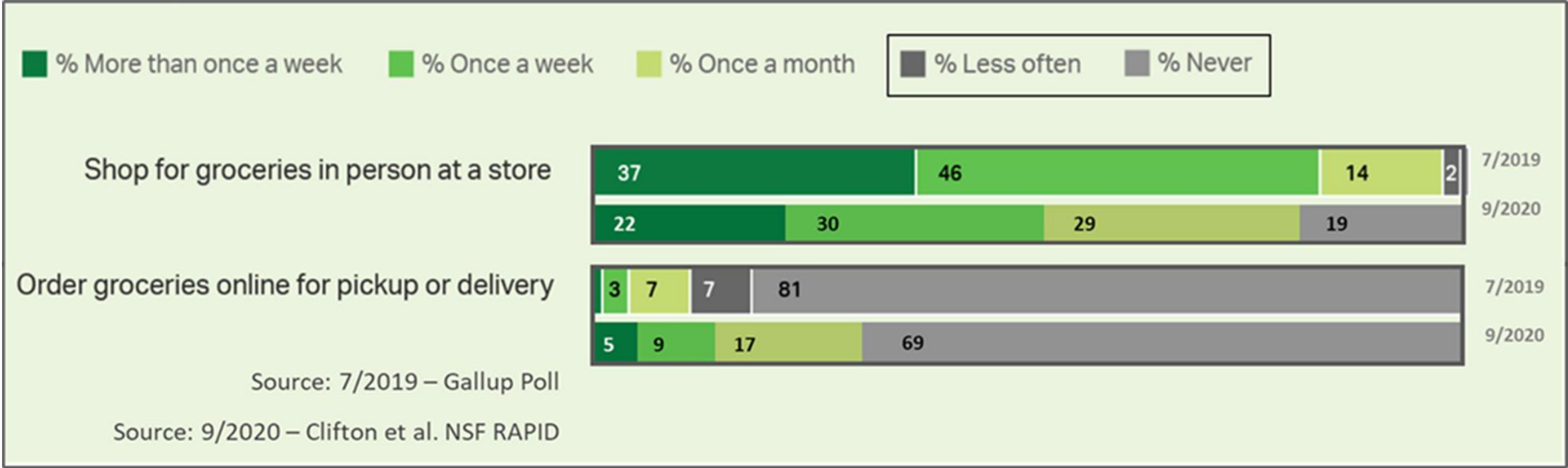
Use-Inspired Research

- The findings will be useful to understand adoption of technologies for household provisioning, identify barriers to access, and opportunities for future interventions.
- Specific interest in seniors and low-income populations, as they experience both transportation disadvantage and technology access/acumen.
- We expect to see variations in the rates of adoption and use of e-commerce and delivery platforms by location, COVID status, demographics, health status, technology availability, and policy variables over time.

Fundamental Research Contributions

- There have been 2 waves of surveys administered and we are in the process of weighting, augmenting and preliminary analysis.
- There will be 2 more waves of survey data in Spring and Summer 2021.
- Contribute to theories of behavioral change, technology adoption, and activity and transportation behaviors.
- Inform crisis planning by identifying how technological interventions may aid in resolving food security.

Project Update



- Consumer demand for pick-up and delivery is growing, but uneven. Income, age, access, and preferences play a role.
- Tech “users” generate ~40% more food and grocery related trips per month than “non-users”, on average.

Project Evolution

Constant period of change:

- Length of the pandemic
- Evolving & varying policies
- Vaccine roll out
- Forest fires and hurricanes
- Consolidating e-commerce and delivery platforms

Project considerations:

- Adding a 4th wave of surveys
- Challenge to collect/operationalize
- Stickiness of e-shopping behavior
- Better emergency preparedness?
- Difficult to characterize the supply-side in any location

CONSUMER RESPONSES TO HOUSEHOLD PROVISIONING DURING COVID-19 CRISIS & RECOVERY

NSF 2030205

Kelly J. Clifton, Portland State University

RAPID FY2020



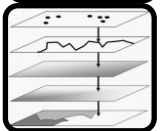
Project Team

Portland State University,
University of Oregon,
Uber Eats



Online Surveys

4-waves - AZ, FL, MI, OR, & WA
Food shopping frequency, In-person & online
Technology adoption & use



Augment Data

COVID infections & vaccines, COVID policies
Food retailing environment, Online platforms,
Social vulnerability



Outcomes

Behavioral change + technology adoption models
Transportation & shopping patterns
Barriers & food insecurity

Project Vision

- The acquisition of food and household necessities has been dramatically impacted by the COVID-19 pandemic.
- Aided by technology, online retailers & delivery services are filling some gaps left by the disruption.
- This is a unique opportunity to capture consumer behavioral change during this dynamic period, as people respond to the pandemic, its impacts, and policy responses.

Use-Inspired Research

- The findings will be useful to understand adoption of technologies for household provisioning, identify barriers to access, and opportunities for future interventions.
- Specific interest in seniors and low-income populations, as they experience both transportation disadvantage and technology access/acumen.
- We expect to see variations in the rates of adoption and use of e-commerce and delivery platforms by location, COVID status, demographics, health status, technology availability, and policy variables over time.

Fundamental Research Contributions

- There have been 2 waves of surveys administered and we are in the process of weighting, augmenting and preliminary analysis.
- There will be 2 more waves of survey data in Spring and Summer 2021.
- Contribute to theories of behavioral change, technology adoption, and activity and transportation behaviors.
- Inform crisis planning by identifying how technological interventions may aid in resolving food security.