

DTE Equity & Inclusion Study Phase Three Kickoff Meeting 8/30/2022

- Karen Ehrhardt-Martinez, PhD Director, Behavioral Science and Customer Insights
- Thomas Glendening Director, Residential Programs
- Noah Purcell Project Management





- Kevin Bilyeu
- Josh Martens
- Jose Goncalves
- ❖ David Becker





- Chinyere Osuala Earthjustice
- Cassandra McCrae Earthjustice
- Sharonda Williams-Tack Sierra Club
- Elena Saxonhouse Sierra Club







- Equity Insights Progress to Date (10 Minutes)
- 2. Phase III Work
 - a) Task 1: Targeting and Tailoring Strategy (10 Minutes)
 - b) Task 2: Behavior Optimization (15 Mins)
 - c) Task 3: Implementation Strategy (10 Mins)
- 3. Phase 3 Draft Plan (15 Mins)
- 4. Q&A and Next Steps (30 Minutes)
- \rightarrow Agenda

DTE Equity Insights Study Snapshot:

- Phase One: Equity Metrics
 - Geographic Targeting data evaluated for survey delivery
- Phase Two: Community Surveys
 - 600 Target Completes
 - 5/26: Survey One fielded begin
 - 7/11: Summary of Surveys 1-3 completed
 - 8/1: Surveys Six concluded
 - End of August: Summary of all surveys





→ Equity Insights Progress-to-Date Recap

Phase Two All Surveys Snapshot:

- 2,090 unique respondents
- 122 Questions including Intake Survey and Contingent Questions



600 Target Completes

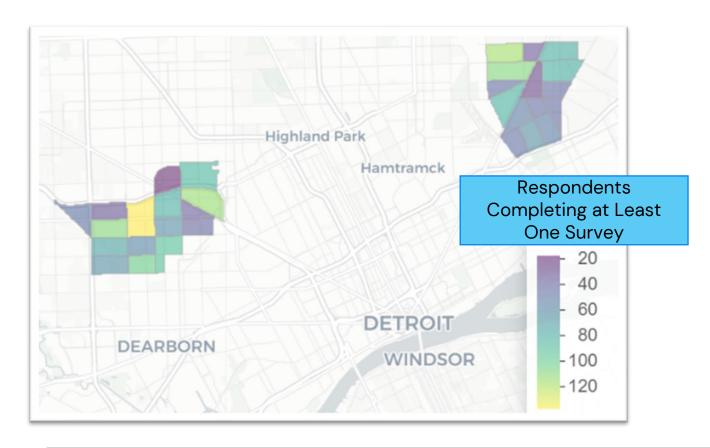
	Survey 1	Survey 2	Survey 3	Survey 4	Survey 5	Survey 6
Fielding Dates	5/6 - 5/18	5/23 - 5/30	6/8 - 6/17	6/22 – 6/30	7/8 – 7/17	7/22 – 8/1
Postcard Invitation	15,541*	N/A	N/A	N/A	N/A	N/A
Email Invitation	N/A	13,083	13,056	13,051	13,050	13,047
First Email	13,056	811*	12,509	12,514	12,547	12,503
Reminder	13,030	OII	12,509	12,014	12,047	12,505
Second Email	12,469	N/A	12,434	N/A	469**	1,261**
Reminder	12,400	14/73	12,404	14/71	400	1,201
Response Rate	7.2%	5.6%	5.4%	5.9%	6.1%	5.9%
Total Completions	1,118	737	709	771	792	776
Completed All Surv	eys To-Date	433	431	416	389	377

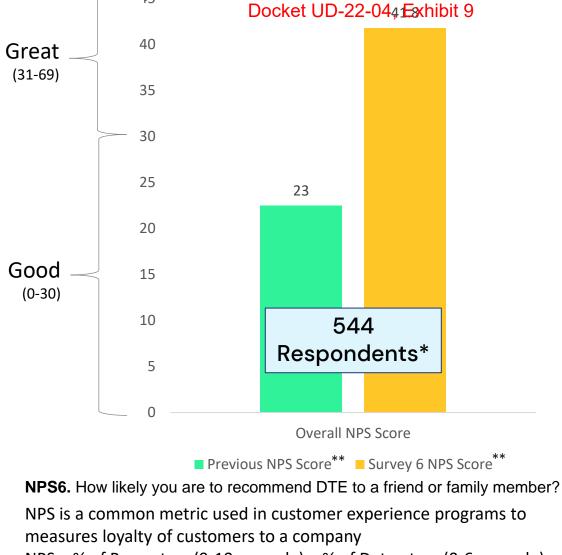
^{*}Postcards were sent to all potential respondents, including those without email addresses

^{**} Sent to nonrespondents who completed a prior survey

Phase Two All Surveys Findings Snapshot:

 Net Promoter Scores increased 82% among the respondents between Surveys 1-3 and Survey 6.





Sierra Club Responsive Comments,

NPS = % of Promoters (9-10 on scale) – % of Detractors (0-6 on scale)

*Only Survey Respondents from 1 – 3 were asked on Survey 6

^{**}NPS Score not connected to scoring conducted for other DTE or program evaluator efforts

	July	Aug	Sept	Oct	Nov	Dec
Phase 3: Targeted, Behavioral Science Based Engagement						
1 Develop Targeting and Tailoring Strategy						
2 Draft Targeting and Tailoring Strategy						
3 Behavioral Optimization through Choice Architecture and Nudges						
4 Contractor Interviews						
5 CAA/Stakeholder Workshop Prep and Delivery						
6 Finalization of Strategy						
7 Implementation Planning and Coordination						

→ Phase Three Timeline



DTE Equity & Inclusion Study Phase Three: Targeting and Tailoring Strategy

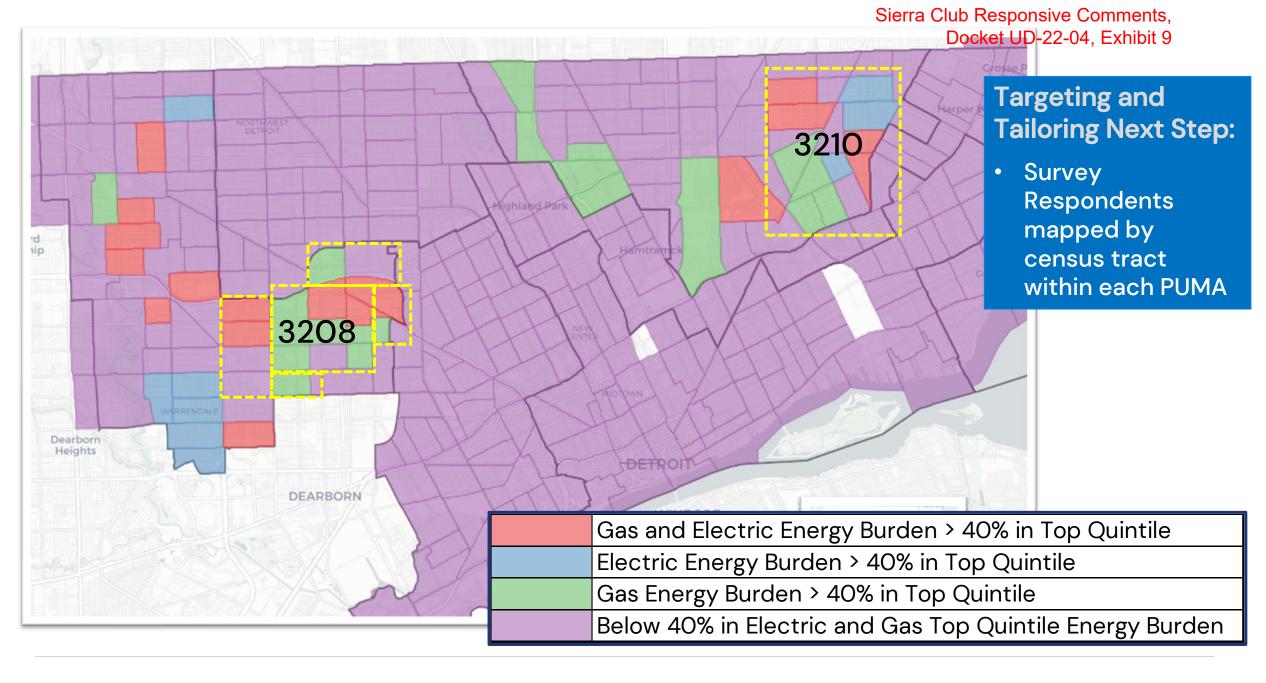
Targeting and Tailoring Strategy Goals

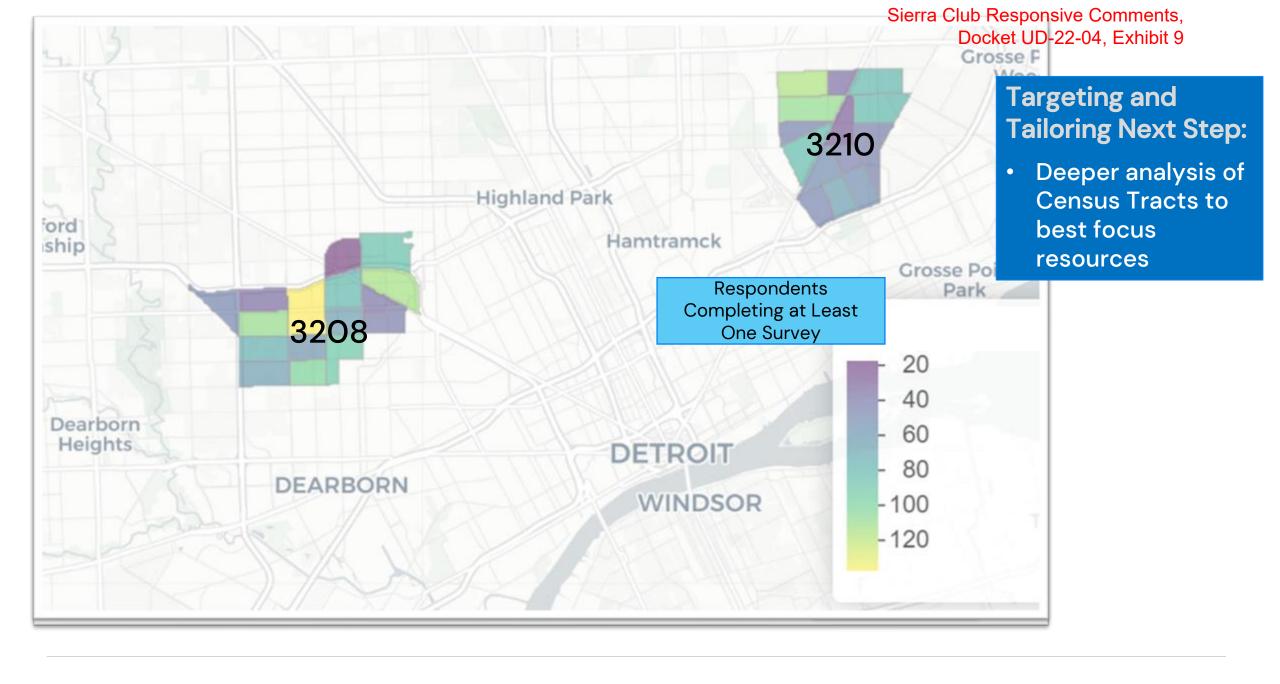
- Reflect insights from Phase One Geographic Targeting and Phase Two Engagement Surveys to:
 - determine potential of Neighborhood-based approach
 - specify how best to select and engage households
 - determine range of measures

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Targeting and Tailoring Strategy

Below 40% in Electric and Gas Top Quintile Energy Burden





Targeting and Tailoring Challenges and Opportunities

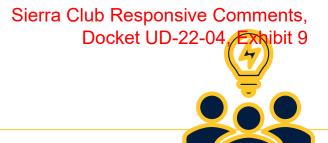
- Challenge of balancing limited funds available for Whole Home Approach with depth of community reach
- Opportunity to leverage and integrate information from Community Surveys
- Opportunity to leverage insights from other Phase 3 tasks (e.g., contractor/CAA interviews and behavioral science insights)



→ Targeting and Tailoring Strategy

Targeting and Tailoring Challenges and Opportunities

- Challenge of balancing limited funds available for Whole Home Approach with depth of community reach
- Opportunity to leverage and integrate information from Community Surveys
- Opportunity to leverage insights from other Phase 3 tasks (e.g., contractor/CAA interviews and behavioral science insights)



Items of Focus:

- Air Sealing and Insulation
- Workforce Development contractor involvement

Under Consideration:

- Neighborhood Direct Install Blitz
 Campaign potential measures: Smart or programmable Tstats and/or furnace filters
- Safety Measure partnerships
- Neighbor to Neighbor Education
 Opportunities

→ Targeting and Tailoring Strategy



DTE Equity & Inclusion Study
Phase Three: Behavioral Optimization
through Nudges and Choice
Architecture

Behavioral Optimization Goals

Weave social and behavioral science insights from Community Surveys with EEA program design to create recommendations to shape:

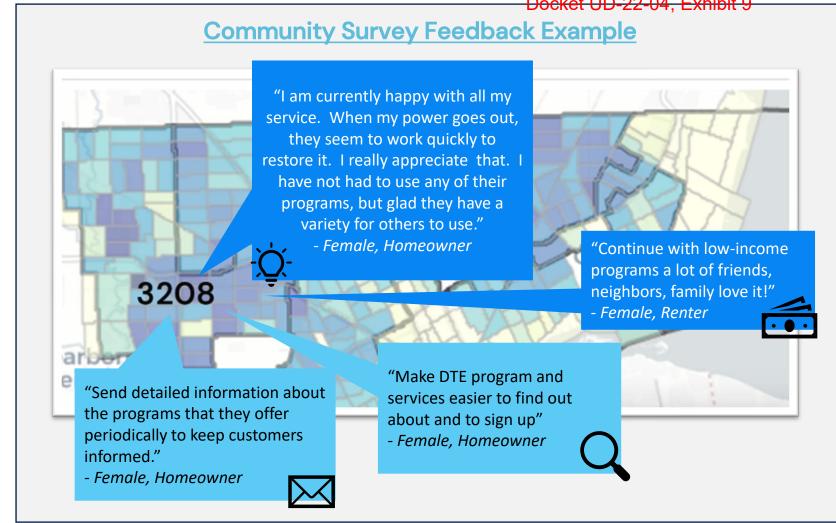
- customer behavior and engagement
- contractors, CAAs, and other program stakeholder's interactions

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Behavioral Optimization

Behavioral Optimization Strategy

- Addresses key
 challenges and barriers
 associated with
 program design and
 those identified in
 community surveys
- Maximizes program
 participation, customer
 engagement, and
 program impact



Behavioral Optimization

Survey results to drive behavioral nudges and choice architecture to maximize customer engagement, good will, and energy savings impact

Survey Three Results:

- Thermostat Settings
 - Close to half of customers (45%) have nonprogrammable thermostats while only a small amount (7%) of customers reported having a smart or WiFi –enabled thermostat in their home.
 - On average in winter, customers set their temperature to roughly 71 degrees, with little difference between day and night temperature settings.



Behavioral Optimization Process Example

Survey results to drive behavioral nudges and choice architecture to maximize customer engagement, good will, and energy savings impact

Survey Three Results:

- HVAC System Air Filters
 - Over half (58%) of respondents are only changing their furnace filters twice a year or less.
- Air Sealing
 - The majority (88%) of customers state their homes have a draft.
 - If customers need to caulk around windows or install weather stripping to reduce air leaks, close to half of customers (42.5%) said they would do the work themselves.



Behavioral Optimization Process Example



DTE Equity & Inclusion Study Phase Three: Implementation Strategy, Planning, and Coordination

Implementation Strategy, Planning, and Coordination Goals

Work with DTE and stakeholders to develop:

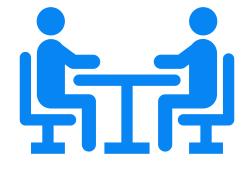
- implementation strategy with DTE and stakeholders.
- participation goals and metrics for Geographic Targeting Approach.
- insights for program updates (e.g., planning for updates, collateral modifications, etc.).

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Implementation Strategy, Planning, and Coordination

Implementation Strategy, Planning, and Coordination Next Steps

- Contractor and Program Partner Interviews
 - Current and Upcoming contractors
- Learning from Contractor and Program
 Partner interviews rolled into Program
 Partner/Stakeholder Workshop
 - Focus on groups near PUMAs 3208 and 3210 (e.g., Matrix, Wayne-Metro)



Implementation Strategy, Planning, and Coordination



DTE Equity & Inclusion Study Phase Three Draft Plan



Homes within identified community offered energy as sestiment of the state of the s

- Health and Safety Issues referred to Health and Safety Pilot process
- Electrically heated homes identified as potential candidates for heat pump installation



Currently assessing reach of resources to determine number of houses receiving Assessment and Wx measures



Exploring opportunities to partner with other community focused efforts (e.g., Detroit Fire Department provision of smoke and carbon monoxide detectors)

Host community meeting to gather feedback and highlight benefits of energy efficiency, enhanced comfort of home, and opportunities to increase savings.







DTE Equity & Inclusion Study Q&A and Next Steps



Questions & Answer



Next Steps

- Phase 2 Survey Summaries Presentation
- Phase Three Draft Plan Workshop







Appendix

Thermostat Type and Adjustment

A large portion (41%) of respondents reported having programmable thermostats but close to half of customers (45%) have non-programmable thermostats while only a small amount (7%) of customers reported having a smart or WiFi – enabled thermostat in their home.

About half (49.9%) of customers rarely change the temperature on the thermostat throughout the day.



45.0% Non-Programmable

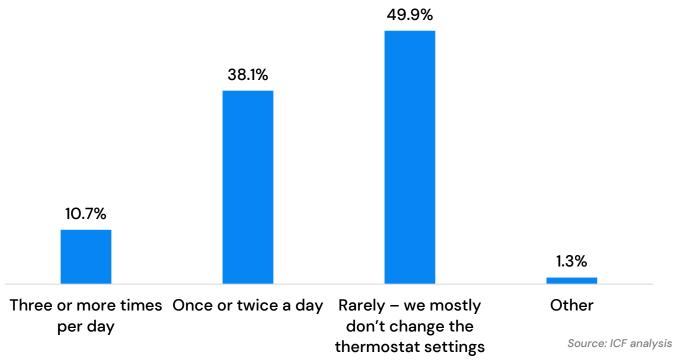


40.6% Programmable



6.8%
Smart or WiFi-Enabled
1.0% Other
6.6% Don't know

Number of Times per Day Customers Change the Thermostat Setting



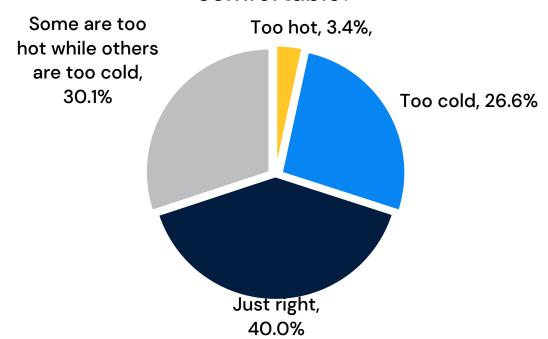
THERM. What kind of thermostat do you have in your home? (N+701)



Temperature Settings

On average, customers set their temperature to roughly 71 degrees, with little difference between day and night temperature settings.

During the winter, are most members of your household generally too hot, too cold, or perfectly comfortable?



Average Temperature Settings Average set point: 71 degrees During the day: 71.5 degrees At night: 72.2 degrees



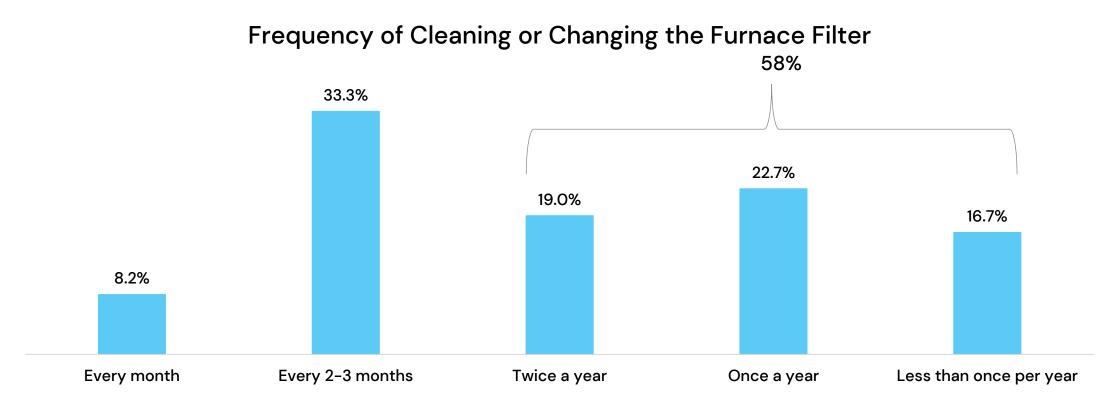
TEMP1. During the winter, are most members of your household generally too hot, too cold, or perfectly comfortable? (N=706)

TEMP2. When it is cold outside, what temperature is your thermostat typically set to? (N=706)

TEMP2_1. During the day? (N=706)

Home Heating and Cooling Maintenance

Over half (58%) of respondents are only changing their furnace filters twice a year or less.



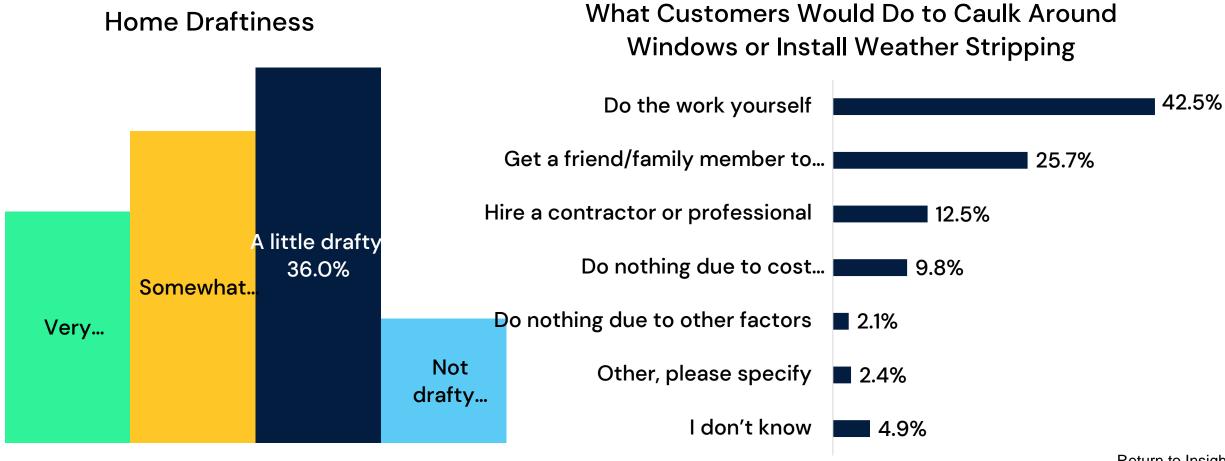
Source: ICF analysis



Drafts and Air Leaks

The majority (88.1%) of customers state their homes have a draft.

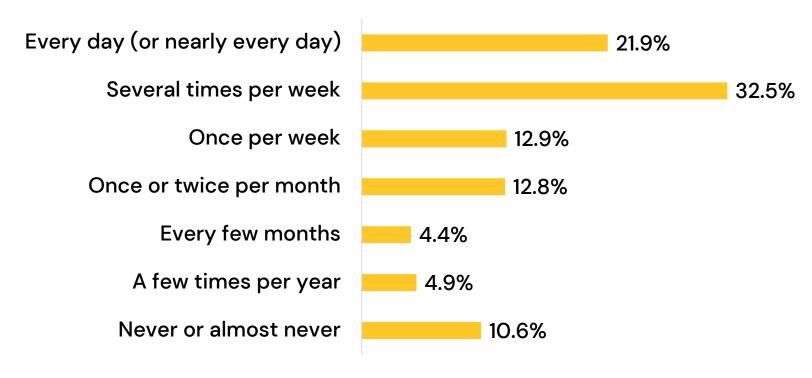
If customers need to caulk around windows or install weather stripping to reduce air leaks, close to half of customers (42.5%) said they would do the work themselves.



Interacting With Neighbors

Over half (54%) of respondents speak with their neighbors every day or several times per week.

How often do you talk to any of your neighbors living on the same street or nearby?







1. Awareness, Experiences, and Perceptions of DTE and IQ Programs



2. Home Related Challenges and Joys



3. HVAC Concerns, Maintenance, and Temp Settings



4. Resilience, Self-Reliance, and Community Connections



5. Security of Food, Health, Housing, and Energy



6. Household Composition, Demographics, and Home Use

*Each survey respondent will also complete a short entry-point survey

Behavioral Optimization: Community Survey Themes