

NFS instrument pilot study codebook

Summary

This codebook details variable names for the instrument study launched on 10-31-18. The block names used in qualtrics are not used for the codebook; however, a description of them is useful for understanding why certain survey items are split up / ordered the way they are. Not every question within each block lines up perfectly with the block topic (for instance, some questions in the temperature and lightbulb block assess motivation as well). Instrument items were broken up in the Qualtrics into the following blocks: motivation, numeracy, energy unit knowledge, consumption knowledge, temperature and lightbulb practices, efficiency conversions, attitudes, an mturk bot check, typical temperature questions, and then politics.

Question Description	Variable	Values
<p>The questions below can be categorized as belonging to one of 8 areas: motivation, knowledge, demographics, attitudes, politics, practices, specific behaviors, and other. Each associated variable is highlighted with a color indicating its area. The key for these colors is as follows:</p> <p>Motivation Knowledge Demographics Attitudes towards norms, environment Politics Practices and habits Other</p>		
<p>Consent Form</p> <p>ATTARI ENERGY SURVEY (PART 1)</p> <p>The Attari energy survey has four parts: the perceived difficulty items, numeracy questions, relative energy usage, and relative energy savings. Difficulty and numeracy are covered in part one. Perceived difficulty items have no correct answers or typology of answers.</p> <p>Perceived Difficulty items</p> <p>Please indicate how easy or hard it would be for you to make each of the following changes. Please consider all aspects of the changes, including the physical or mental effort required, the time or hassle involved, and any relevant monetary</p>	<p>Consent</p>	<p>1=yes, 2=no</p>

NFS instrument pilot study codebook

costs. If you already engage in the activity please check the option on the far left.		
buying a more fuel efficient automobile (31 vs. 20 miles per gallon)	ATT01	1 = "Do it already" 2 = "Extremely easy" 3 = "Very easy" 4 = "Somewhat easy" 5 = "Neither easy nor hard" 6 = "Somewhat hard" 7 = "Very hard" 8 = "Extremely hard" 9 = "Not applicable"
carpooling with one other person to work	ATT02	
replacing poorly insulated windows with highly insulated windows	ATT03	
cutting highway speed from 70 miles per hour to 60 miles per hour	ATT04	
a more efficient heating unit (92% efficiency)	ATT05	
turning down the thermostat from 72°F to 68°F during the day and to 65°F during the night	ATT06	
In the summer: turning the thermostat on your air conditioner from 73°F to 78°F	ATT07	
tuning up the car twice year (including air filter changes)	ATT08	1 = "Do it already" 2 = "Extremely easy" 3 = "Very easy" 4 = "Somewhat easy" 5 = "Neither easy nor hard" 6 = "Somewhat hard" 7 = "Very hard" 8 = "Extremely hard"
replacing 85% of all incandescent bulbs with equally bright compact fluorescent bulbs	ATT09	
turning up the refrigerator thermostat from 33 degrees F to 38 degrees F and the freezer thermostat from -5 degrees F to 0 degrees F	ATT10	
	ATT11	

drying clothes on a clothes line (not using a dryer) for 5 months of the year	ATT12	
watching 25% fewer hours of TV each day	ATT13	
installing a more efficient washer (replace a 2001 or older non-energy star washer with a new energy star washer)		1 = "Do it already" 2 = "Extremely easy" 3 = "Very easy" 4 = "Somewhat easy" 5 = "Neither easy nor hard" 6 = "Somewhat hard" 7 = "Very hard" 8 = "Extremely Hard"
changing washer temperature settings from "hot wash, warm rinse" to "warm wash, cold rinse"	ATT14	
replacing two 100-watt kitchen bulbs with 75-watt bulbs	ATT15	
Numeracy Questions		
To answer the following questions, please enter whole numbers or decimals with no other text (not ranges or percent signs).		
Imagine that we flip a fair coin 1,000 times. What is your best guess about how many times the coin would come up heads in 1,000 flips?	ATT16	TEXT Correct answer: 500
In the BIG BUCKS LOTTERY, the chance of winning a \$10 prize is 1%. What is your best guess about how many people would win a \$10 prize if 1000 people each buy a single ticket to BIG BUCKS?	ATT17	TEXT Correct answer: 10
In ACME PUBLISHING SWEEPSAKES, the chance of winning a car is 1 in 1,000. What percent of tickets to ACME PUBLISHING SWEEPSAKES win a car?	ATT18	TEXT Correct answer: 0.1%
ENERGY LITERACY SURVEY		
Energy literacy questions adapted from DeWaters and Powers (2011), used in Canfield et al. (2017). Bolded values are the correct answers.		

<p>The amount of ELECTRICAL ENERGY (ELECTRICITY) we use is measured in units called ...</p>	<p>ELS01</p>	<p>1 = "Kilowatt (kW)" 2 = "Kilowatt-hours (kWh)" 3 = "British Thermal Units (BTU)" 4 = "Volts (V)" 5 = "Horsepower (HP)"</p>
<p>The amount of ENERGY consumed by an electrical appliance is equal to the power rating of the appliance (watts or kilowatts) ...</p>	<p>ELS02</p>	<p>1 = "Multiplied by the cost of electricity" 2 = "Added to the cost of electricity" 3 = "Multiplied by the time it's used" 4 = "Divided by the time it's used" 5 = "Added to the time it's used"</p>
<p>When you turn on an incandescent light bulb, which of the following energy conversion takes place?</p>	<p>ELS03</p>	<p>1 = "Electrical energy to radiant energy (light)" 2 = "Chemical energy to radiant energy (light)" 3 = "Electrical energy to radiant energy (light) and thermal energy (heat)" 4 = "Chemical energy to radiant energy (light) and thermal energy (heat)" 5 = "Electrical energy to radiant energy (light) and mechanical energy"</p>
<p>The best reason to buy an ENERGY STAR® appliance is ...</p>	<p>ELS04</p>	<p>1 = "ENERGY STAR appliances are usually bigger" 2 = "ENERGY STAR appliances cost more" 3 = "ENERGY STAR appliances use less energy"</p>

<p>Which uses the MOST ENERGY in the average American home in one year?</p>	<p>ELS05</p>	<p>4 = "ENERGY STAR appliances are more modern looking" 5 = "ENERGY STAR appliances cost less"</p>
<p>Which of the following items uses the MOST ELECTRICITY in the average home in one year?</p>	<p>ELS06</p>	<p>1 = "Refrigerating food and beverages" 2 = "Washing and drying clothing" 3 = "Heating and cooling rooms" 4 = "Heating and cooling water" 5 = "Lighting the home"</p>
<p>Which of the following sources provides most of the ELECTRICITY in the United States?</p>	<p>ELS07</p>	<p>1 = "Nuclear power" 2 = "Burning petroleum" 3 = "Burning coal" 4 = "Solar energy" 5 = "Water (hydro) power"</p>
<p>Some people think that if we run out of fossil fuels we can just switch over to electric cars. What is wrong with this idea?</p>	<p>ELS08</p>	<p>1 = "Most electricity is currently produced from fossil fuels (coal, oil, natural gas)" 2 = "Switching to electric cars will make unemployment rates go up" 3 = "It has been proven that it is impossible to build electric cars in great quantities" 4 = "You can't use electricity to operate a car"</p>

<p>ATTARI ENERGY SURVEY (PART 2)</p> <p>This is the second half of the Attari survey, with relative energy usage and relative energy savings. Note: participants were given a scale that goes 0 to 200; the numbers below often exceed 200.</p> <p>Relative Energy Usage A 100-Watt incandescent light bulb uses 100 units of energy in one hour. How many units of energy do you think each of the following devices typically uses in one hour? Enter a number less than 100 if you think the device uses less energy than a 100-Watt bulb. Enter a number greater than 100 if you think the device uses more energy than a 100-Watt bulb. Your best estimates are fine. Please enter whole numbers with no other text (not decimals, ranges, or percent signs).</p> <p>A compact fluorescent light bulb that is as bright As a 100-Watt incandescent light bulb</p> <p>a desktop computer uses in comparison to an incandescent bulb per hour</p> <p>a laptop computer uses in comparison to an incandescent bulb per hour</p> <p>a stereo uses in comparison to an incandescent bulb per hour</p> <p>an electric clothing dryer uses in comparison to an incandescent bulb per hour</p>	<p></p> <p>ATT19</p> <p>ATT20</p> <p>ATT21</p> <p>ATT22</p>	<p>5 = "There is nothing wrong with this idea"</p> <p>TEXT Correct answer: 27</p> <p>Correct answer: 140</p> <p>Correct answer: 48</p> <p>Correct answer: 128</p>
--	---	---

a portable heater uses in comparison to an incandescent bulb per hour	ATT23	Correct answer: 3,400
air conditioning unit for a room running for an hour in comparison to an incandescent bulb per hour	ATT24	Correct answer: 925
a central air conditioning unit running for an hour in comparison to an incandescent bulb per hour	ATT25	Correct answer: 1,000
a dishwasher running for an hour in comparison to an incandescent bulb per hour	ATT26	Correct answer: 3,500
	ATT27	TEXT Correct answer: 3,400
Relative Energy Savings Turning off a 100-Watt incandescent light bulb for one hour SAVES 100 units of energy. How many units of energy do you think each of the following changes will save? Enter a number less than 100 if you think the change saves less energy than turning off a 100-Watt bulb for one hour. Enter a number greater than 100 if you think the change saves more energy than turning off a 100-Watt bulb for one hour. Your best estimates are fine.		
Replacing one 100-watt incandescent bulb with equally bright compact fluorescent bulb that is used for one hour would reduce energy use by how many units?	ATT28	Correct answer: 1,800
Replacing one 100-watt kitchen bulb with a 75-watt bulb that is used for one hour would reduce energy use by how many units?	ATT29	Correct answer: 25
Drying clothes on a clothes line (not using the dryer) for one load of laundry would reduce energy use by how many units?		
In the summer: turning up the thermostat on your air conditioner (making your house/residence warmer) by 5° F would reduce energy use by how many units?	ATT30	Correct answer: 3,400
	ATT31	Correct answer: 115
In the winter: turning down the thermostat on your heater (making your home cooler) by 5° F would reduce energy use by how many units?	ATT32	Correct answer: 546

<p>Changing washer temperature settings from “hot wash, warm rinse” to “warm wash, cold rinse” for one load of laundry would reduce energy use by how many units?</p>	<p>ATT33</p>	<p>Correct answer: 4,000</p>
<p>RECS</p> <p>A general census survey of residential energy usage</p> <p>Approximately how many light bulbs are installed inside your house/residence? Include light bulbs in ceiling fixtures and fans, table and floor lamps, as well as those used infrequently, such as in hallways, closets, and garages. For fixtures with multiple bulbs, count each bulb separately.</p>	<p>RECS01</p>	<p>1 = "Fewer than 20 light bulbs" 2 = "20 to 39 light bulbs" 3 = "40 to 59 light bulbs" 4 = "60 to 79 light bulbs" 5 = "80 or more light bulbs" 6 = "Don't know"</p>
<p>Which of the following best describes how your household controls your main heating equipment most of the time?</p>	<p>RECS02</p>	<p>1 = "Set one temperature and leave it there most of the time" 2 = "Manually adjust the temperature at night or when no one is at home" 3 = "Program the thermostat to automatically adjust the temperature during the day and night at certain times / rely on smart thermostat regulation" 4 = "Turn equipment on or off as needed" 5 = "Our household does not have control over the equipment" 6 = "Other"</p>
<p>How household maintains heating equipment (text entry if participant answered “other” for RECS02)</p>	<p>RECS03</p>	<p>TEXT</p>

<p>Which of the following best describes how your household controls your central air conditioning most of the time?</p>	<p>RECS04</p>	<p>1 = "Set one temperature and leave it there most of the time" 2 = "Manually adjust the temperature at night or when no one is at home" 3 = "Program the thermostat to automatically adjust the temperature during the day and night at certain times / rely on smart thermostat regulation" 4 = "Turn equipment on or off as needed" 5 = "Our household does not have control over the equipment" 6 = "Other"</p>
<p>How household maintains central air equipment (text entry if participant answered "other" for RECS04)</p>	<p>RECS05</p>	<p>TEXT</p>
<p>Do you use individual window, wall, or portable air conditioning units?</p>	<p>RECS06</p>	<p>1 = "Yes" 2 = "No" 3 = "Don't know"</p>
<p>How many window, wall, or portable air conditioning units do you use in your house/residence? Please enter a whole number.</p>	<p>RECS07 RECS08</p>	<p>TEXT 1 = "Less than 2 years old" 2 = "2 to 4 years old"</p>

NFS instrument pilot study codebook

<p>About how old is your most used window, wall, or portable air conditioning unit? Your best estimate is fine.</p>		<p>3 = "5 to 9 years old" 4 = "10 to 14 years old" 5 = "15 to 19 years old" 6 = "20 or more years old" 7 = "Don't know"</p>
<p>Which of the following best describes how your household controls your individual air conditioning unit most of the time?</p>	<p>RECS09</p>	<p>1 = "Set one temperature and leave it there most of the time" 2 = "Manually adjust the temperature at night or when no one is at home" 3 = "Program the thermostat to automatically adjust the temperature during the day and night at certain times / rely on smart thermostat regulation" 4 = "Turn equipment on or off as needed" 5 = "Our household does not have control over the equipment" 6 = "Other"</p> <p>TEXT</p>
<p>How household maintains individual cooling equipment (text entry if participant answered "other" for RECS09)</p>	<p>RECS10</p>	<p>TEXT</p>
<p>How many of the light bulbs inside your house/residence are used at least 4 hours per day? Please enter a whole number.</p>	<p>RECS11</p> <p>RECS12</p>	<p>1 = "All" 2 = "Most" 3 = "About half" 4 = "Some"</p>

<p>What portion of the lightbulbs in your house are incandescent bulbs?</p>		<p>5 = "Don't know" 6 = "None"</p>
<p>What portion of the lightbulbs in your house are compact fluorescent lighting (CFL) bulbs?</p>	<p>RECS13</p>	
<p>What portion of the lightbulbs in your house are LED bulbs?</p>	<p>RECS14</p>	<p>1 = "All" 2 = "Most" 3 = "About half" 4 = "Some" 5 = "Don't know" 6 = "None"</p>
<p>Are any of the light bulbs inside your house/residence controlled by timers or dimmer switches?</p>	<p>RECS15</p>	<p>1 = "Yes" 2 = "No" 3 = "Don't know"</p>
<p>In addition to your main heating equipment, does your household also use any of the following as a second source for heating your house/residence? If more than one, select the type most frequently used.</p>	<p>RECS16</p>	<p>1 = "No other equipment used" 2 = "Portable electric heater" 3 = "Wood-burning stove" 4 = "Natural gas fireplace" 5 = "Wood-burning fireplace" 6 = "Other"</p>
<p>LANGVIN SEMI STRUCTURED INTERVIEW (PT 1)</p>		

<p>Adapted from a semi-structured interview format. Measures participant thoughts on sustainability measures, participant action towards temperature regulation, and typical temperature habits and preferences. Includes participant's perception of sustainability, typical temperatures and preferences, and regulation habits</p>		<p>TEXT</p>
<p>Sustainability Measures</p>		
<p>What do you think are the best opportunities for energy saving in your residence? (note: this is also used by the Attari studies)</p>	<p>LAN01</p>	<p>TEXT</p>
<p>What are particular areas where you see energy being wasted in your residence? (Energy wasteful behaviors, old/inefficient equipment, etc.)</p>	<p>LAN02</p>	<p>TEXT</p>
<p>Are there energy conservation measures that you've seen implemented elsewhere that might work well in your residence?</p>	<p>LAN03</p>	<p>1 = "This is already being implemented in my residence"</p>
<p>Has your residence had a residence audit to determine how much energy the residence currently uses and areas for improvement?</p>	<p>LAN04</p>	<p>2 = "It is not being implemented in my residence, but I am familiar with this energy saving measure"</p> <p>3 = "It is not being implemented in my residence, and I am not familiar with this energy saving measure"</p> <p>4 = "Not sure"</p>
<p>Do you believe this [the audit] is an effective and appropriate approach to save energy?</p>	<p>LAN05</p>	<p>1 = "Definitely yes"</p> <p>2 = "Probably yes"</p> <p>3 = "Might or might not"</p> <p>4 = "Probably not"</p> <p>5 = "Definitely not"</p> <p>6 = "Not sure"</p>
<p>Has your residence had HVAC improvements (higher efficiency, capture waste energy, improved BMS, etc.)?</p>	<p>LAN06</p>	<p>1 = "This is already being implemented in my residence"</p> <p>2 = "It is not being implemented in my residence, but I am familiar</p>

<p>Do you believe this [HVAC improvements] is an effective and appropriate approach to save energy?</p>	<p>LAN07</p>	<p>with this energy saving measure"</p> <p>3 = "It is not being implemented in my residence, and I am not familiar with this energy saving measure"</p> <p>4 = "Not sure"</p> <p>1 = "Definitely yes"</p> <p>2 = "Probably yes"</p> <p>3 = "Might or might not"</p> <p>4 = "Probably not"</p> <p>5 = "Definitely not"</p> <p>6 = "Not sure"</p>
<p>Has your residence had lighting improvements (new fixtures, dimmer switches, remove lights, etc.)?</p>	<p>LAN08</p>	<p>1 = "This is already being implemented in my residence"</p> <p>2 = "It is not being implemented in my residence, but I am familiar with this energy saving measure"</p> <p>3 = "It is not being implemented in my residence, and I am not familiar with this energy saving measure"</p> <p>4 = "Not sure"</p>
<p>Do you believe this [lighting improvements] is an effective and appropriate approach to save energy?</p>	<p>LAN09</p>	<p>1 = "Definitely yes"</p> <p>2 = "Probably yes"</p> <p>3 = "Might or might not"</p> <p>4 = "Probably not"</p> <p>5 = "Definitely not"</p> <p>6 = "Not sure"</p>

<p>NEP From Dunlap, 2000. Assesses newer and older ways of thinking about the environment.</p> <p>The new paradigm questions are scored such that 5=environmentally conscious paradigm. The old paradigm is scored such that 1=environmentally conscious paradigm. The new paradigm items are indicated by bolded text.</p> <p>Listed below are statements about the relationship between humans and the environment. For each one, please indicate to what degree you agree or disagree.</p> <p>We are approaching the limit of the number of people the earth can support?</p> <p>Humans have the right to modify the natural environment to suit their needs?</p> <p>When humans interfere with nature it often produces disastrous consequences?</p> <p>Human ingenuity will ensure that we do NOT make the earth unlivable?</p> <p>Humans are severely abusing the environment?</p> <p>The earth has plenty of natural resources if we just learn how to develop them?</p> <p>Plants and animals have as much right as humans to exist?</p> <p>The balance of nature is strong enough to cope with the impacts of modern industrial nations?</p> <p>Despite our special abilities humans are still subject to the laws of nature?</p> <p>The so-called "ecological crisis" facing humankind has been greatly exaggerated?</p>	<p>NEP01</p> <p>NEP02</p> <p>NEP03</p> <p>NEP04</p> <p>NEP05</p> <p>NEP06</p> <p>NEP07</p> <p>NEP08</p> <p>NEP09</p>	<p>1 = "Strongly Agree" 2 = "Somewhat Agree" 3 = "Neutral / Don't Know" 4 = "Somewhat Disagree" 5 = "Strongly Disagree"</p> <p>1 = "Strongly Agree" 2 = "Somewhat Agree" 3 = "Neutral / Don't Know" 4 = "Somewhat Disagree" 5 = "Strongly Disagree"</p>
--	--	---

<p>The earth is like a spaceship with very limited room and resources?</p> <p>Humans were meant to rule over the rest of nature?</p> <p>The balance of nature is very delicate and easily upset?</p> <p>Humans will eventually learn enough about how nature works to be able to control it?</p> <p>If things continue on their present course, we will soon experience a major ecological catastrophe?</p>	<p>NEP10</p> <p>NEP11</p> <p>NEP12</p> <p>NEP13</p> <p>NEP14</p> <p>NEP15</p>	
<p>DUMMY VARIABLES</p> <p>Used to check whether participant is paying attention; question asked participants not to answer any option.</p> <p>Red</p> <p>Blue</p> <p>Green</p> <p>Yellow</p> <p>Purple</p> <p>Orange</p>	<p>DUMMYVAR01</p> <p>DUMMYVAR02</p> <p>DUMMYVAR03</p> <p>DUMMYVAR04</p> <p>DUMMYVAR05</p> <p>DUMMYVAR06</p>	<p>1= Selected Missing = Not selected</p> <p>1= Selected Missing = Not selected</p> <p>1 = "I consume more energy than average" 2 = "I consume less energy than average" 3 = "I don't know"</p>
<p>DEMOGRAPHICS (PART 1)</p> <p>Do you consume more or less energy than the average individual in the United States?</p> <p>About how much was the last monthly electric bill for your household? Please provide a dollar amount (rounded to the nearest dollar) with no other text. Your best estimate is fine.</p>	<p>DEM01</p> <p>DEM02</p>	<p>NUMERIC VALUE</p> <p>1=Male, 2=Female 3=Choose not to answer</p>

<p>What is your gender?</p> <p>What is your age? Please enter a whole number.</p> <p>During 2017, what was your yearly household income before tax? Your best estimate is fine.</p> <p>What is the highest level of education that you have completed?</p> <p>How many people are there in your household (including yourself)? Please enter a whole number.</p> <p>Is your house/residence heated during winter?</p> <p>What is the main type of heating equipment used to provide heat for your house/residence?</p>	<p>DEM03</p> <p>DEM04</p> <p>DEM05</p> <p>DEM06</p> <p>DEM07</p> <p>DEM08</p> <p>DEM09</p>	<p>NUMERIC VALUE</p> <p>1 = "Did not have an income"</p> <p>2 = "< \$20,000"</p> <p>3 = "\$20,000 - \$49,999"</p> <p>4 = "\$50,000 - \$79,999"</p> <p>5 = "\$80,000 - \$109,999"</p> <p>6 = "\$110,000 - \$139,999"</p> <p>7 = "\$140,000 - \$169,999"</p> <p>8 = ">\$170,000"</p> <p>9 = "Choose not to answer"</p> <p>1 = "Some schooling, but no diploma or degree"</p> <p>2 = "Highschool diploma or GED"</p> <p>3 = "Some college"</p> <p>4 = "College degree"</p> <p>5 = "Some graduate school"</p> <p>6 = "Graduate degree"</p> <p>7 = "Choose not to answer"</p> <p>NUMERIC VALUE</p> <p>1 = "Yes"</p> <p>2 = "No, I do not have any heating equipment"</p> <p>3 = "No, I have heating equipment but do not use it"</p> <p>4 = "Don't know"</p> <p>1 = "Central furnace"</p> <p>2 = "Heat pump"</p> <p>3 = "Steam or hot water system with radiators or pipes"</p> <p>4 = "Built-in electric units installed in walls, ceilings, baseboards, or floors"</p> <p>5 = "Built-in floor/wall pipeless furnace"</p> <p>6 = "Built-in room heater burning gas, oil, or kerosene"</p>
--	--	---

DEM09 text entry if “other” was selected		7 = "Heating stove burning wood, coal, or coke" 8 = "Portable electric heaters" 9 = "Fireplace" 10 = "Other" 11 = "Don't know"
What is the main fuel used by this equipment for heating your house/residence?	DEM10	TEXT 1 = "Electricity" 2 = "Natural gas from underground pipes" 3 = "Propane (bottled gas)" 4 = "Fuel oil" 5 = "Wood" 6 = "Other" 7 = "Don't know"
DEM11 text entry if “other” was selected	DEM11	
Does your house use a thermostat to control your main heating equipment?	DEM12	TEXT 1 = "Yes" 2 = "No" 3 = "Don't know"
Is the thermostat that controls your main heating equipment programmable, meaning that it can be set to automatically adjust the temperature at certain times?	DEM13	1 = "Yes" 2 = "No" 3 = "Don't know"
Is any air conditioning equipment used in your house/residence?	DEM14	
	DEM15	
Do you use a central air conditioning system?		
Does your house use a thermostat to control your central air conditioning system?	DEM16	
	DEM17	

NFS instrument pilot study codebook

Is the thermostat that controls your central air conditioning system programmable, meaning that it can be set to automatically adjust the temperature at certain times?	DEM18	
How many of the following types of fans does your household use:		NUMERIC VALUE
ceiling fans		NUMERIC VALUE
floor or window fans	DEM19	NUMERIC VALUE
whole house fans	DEM20	NUMERIC VALUE
attic fans	DEM21	
Which of the following describes who is responsible for paying the electricity used in your house/residence?	DEM22	1 = "Household is responsible for paying all electricity used in this house/residence"
	DEM23	2 = "All electricity used in this house/residence is included in the rent or condo fee"
		3 = "Some is paid by the household, some is paid by the rent or condo fee"
		4 = "Other"
		5 = "Don't know"
		TEXT
DEM23 text entry if "other" was selected		1 = "Employed full-time"
	DEM24	2 = "Employed part-time"
What best describes your employment status?		3 = "Not employed/retired"
	DEM25	4 = "Choose not to answer"
In a typical week, how many days is someone home most or all of day?	DEM26	1="0"
		2="1"
		3="2"
		4="3"
		5="4"
		6="5"
		7="6"
		8="7"

How long have you lived in this residence? Please enter the number of months as a whole number.	DEM27	NUMERIC VALUE
LANGEVIN SEMI STRUCTURED INTERVIEW (PT 2)		
During the winter, what is the typical temperature in Fahrenheit when someone is home during the day? Please enter the degrees in Fahrenheit as a whole number.	LAN10	NUMERIC VALUE
During the winter, what is the typical temperature in Fahrenheit when no one is home during the day? Please enter the degrees in Fahrenheit as a whole number.	LAN11	NUMERIC VALUE
During the summer, what is the typical temperature in Fahrenheit when someone is home during the day? Please enter the degrees in Fahrenheit as a whole number.	LAN12	NUMERIC VALUE
During the summer what is the typical temperature in Fahrenheit when no one is home during the day? Please enter the degrees in Fahrenheit as a whole number.	LAN13	1 = "Very comfortable" 2 = "Somewhat comfortable" 3 = "Neither comfortable nor uncomfortable" 4 = "Somewhat uncomfortable" 5 = "Very uncomfortable"
Please describe your impression of your residence's interior environment in terms of temperature comfort level.	LAN14	
Do interior comfort conditions vary noticeably across the day and season or are they generally stable?	LAN15	1 = "Very stable" 2 = "Somewhat stable" 3 = "Neither very stable nor varying greatly" 4 = "Somewhat varying" 5 = "Varying greatly"
		NUMERIC VALUE
At what temperature in Fahrenheit do you typically feel most comfortable during the summer? Please enter the degrees in Fahrenheit as a whole number.	LAN16	NUMERIC VALUE

NFS instrument pilot study codebook

On a scale of 0=very cold to 10=very warm where 5=neutral, what temperature sensation do you prefer over the summer?	LAN17	NUMERIC VALUE
At what temperature in Fahrenheit do you typically feel most comfortable during the winter? Please enter the degrees in Fahrenheit as a whole number.	LAN18	NUMERIC VALUE
On a scale of 0=very cold to 10=very warm where 5=neutral, what temperature sensation do you prefer over the winter?	LAN19	1 = "very often" 2 = "often" 3 = "sometimes" 4 = "not often" 5 = "rarely or never"
How often do you encounter discomfort from your residence being too hot?	LAN20	
The following section (LAN21-LAN54) consisted of a MC grid that asked participants to answer questions about 11 options for adjusting to the room being too warm. For clarity, these options are not in the codebook verbatim as the questions are a combination of rows and columns (i.e. adjust clothing has a MC row for "is this action possible", "How often do you use this action to reduce discomfort", and "How useful is this action"). Instead, the codebook shows what was assessed by each MC row.		1 = "Yes" 2 = "Sometimes" 3 = "No"
Is it possible for participant to adjust clothing to handle being too hot?	LAN21	
Is it possible for participant to open/close window to handle being too hot?	LAN22	
Is it possible for the participant to open/close door to handle being too hot?	LAN23	1 = "Yes" 2 = "Sometimes" 3 = "No"
Is it possible for participant to turn on fan to handle being too hot?	LAN24	
Is it possible for participant open/close air vents to handle being too hot?	LAN25	
Is it possible for the participant to adjust thermostat 1-3 degrees to handle being too hot?		

Is it possible for participant to adjust thermostat 4 or more degrees to handle being too hot?	LAN26	
Is it possible for participant to adjust blinds to handle being too hot?	LAN27	
Is it possible for the participant to drink cool fluids to handle being too hot?	LAN28	
Is it possible for participant to mention to another occupant to handle being too hot?	LAN29	
Is it possible for participant to report to landlord to handle being too hot?	LAN30	
How often does participant to adjust clothing to handle being too hot?	LAN31	1 = "Very often" 2 = "Often" 3 = "Sometimes" 4 = "Not often" 5 = "Rarely or never" 6 = "Not applicable"
How often does participant open/close window to handle being too hot?	LAN32	
How often does for the participant to open/close door to handle being too hot?	LAN33	
How often does participant to turn on fan to handle being too hot?	LAN34	1 = "Very often" 2 = "Often" 3 = "Sometimes" 4 = "Not often" 5 = "Rarely or never" 6 = "Not applicable"
	LAN35	

NFS instrument pilot study codebook

How often does participant open/close air vents to handle being too hot?	LAN36	
How often does the participant adjust thermostat 1-3 degrees to handle being too hot?	LAN37	
How often does participant adjust thermostat 4 or more degrees to handle being too hot?	LAN38	
How often does participant adjust blinds to handle being too hot?	LAN39	
How often does the participant drink cool fluids to handle being too hot?	LAN40	
How often does participant mention to another occupant to handle being too hot?	LAN41	
How often does participant report to landlord to handle being too hot?	LAN42	1 = "Very often" 2 = "Often" 3 = "Sometimes" 4 = "Not often" 5 = "Rarely or never" 6 = "Not applicable"

How useful is it to adjust clothing to handle being too hot?	LAN43	1 = "Extremely effective" 2 = "Very effective" 3 = "Somewhat effective" 4 = "Slightly effective" 5 = "Not effective" 6 = "Not applicable"
How useful is it to to open/close window to handle being too hot?	LAN44	
How often does for the participant to open/close door to handle being too hot?	LAN45	
How useful is it to turn on fan to handle being too hot?	LAN46	
How useful is it to open/close air vents to handle being too hot?	LAN47	
How useful is it to adjust thermostat 1-3 degrees to handle being too hot?	LAN48	
How useful is it to adjust thermostat 4 or more degrees to handle being too hot?		1 = "Very often" 2 = "Often" 3 = "Sometimes" 4 = "Not often" 5 = "Rarely or never"

<p>How useful is it to adjust blinds to handle being too hot?</p> <p>How useful is it to drink cool fluids to handle being too hot?</p> <p>How useful is it to mention to another occupant to handle being too hot?</p> <p>How useful is it to report to landlord to handle being too hot?</p> <p>How often do you encounter discomfort from your residence being too cold?</p> <p>The following section (LAN55-LAN87) consisted of a MC grid that asked participants to answer questions about 11</p>	<p>LAN49</p> <p>LAN50</p> <p>LAN51</p> <p>LAN52</p> <p>LAN53</p> <p>LAN54</p>	<p>6 = "Not applicable"</p>
--	---	-----------------------------

NFS instrument pilot study codebook

<p>options for adjusting to being too cold. For clarity, these options are not in the codebook verbatim as the questions are a combination of rows and columns (i.e. adjust clothing has a MC row for “is this action possible”, “How often do you use this action to reduce discomfort”, and “How useful is this action”). Instead, the codebook shows what was assessed by each MC row.</p> <p>Is it possible for the participant to adjust clothing to handle being too cold?</p> <p>Is it possible for the participant to open/close window to handle being too cold?</p> <p>Is it possible for the participant to open/close door to handle being too cold?</p> <p>Is it possible for the participant to turn on fan to handle being too cold?</p> <p>Is it possible for the participant to open/close air vents to handle being too cold?</p> <p>Is it possible for the participant to adjust thermostat 1-3 degrees to handle being too cold?</p> <p>Is it possible for participant to adjust thermostat 4 or more degrees to handle being too hot?</p> <p>Is it possible for participant to adjust blinds to handle being too cold?</p> <p>Is it possible for the participant to drink cool fluids to handle being too cold?</p> <p>Is it possible for participant to mention to another occupant to handle being too cold?</p>	<p>LAN55</p> <p>LAN56</p> <p>LAN57</p> <p>LAN58</p> <p>LAN59</p> <p>LAN60</p> <p>LAN61</p> <p>LAN62</p> <p>LAN63</p>	<p>1 = "Yes" 2 = "Sometimes" 3 = "No"</p> <p>1 = "Yes" 2 = "Sometimes" 3 = "No"</p>
---	--	---

NFS instrument pilot study codebook

Is it possible for participant to report to landlord to handle being too cold?	LAN64	
How often does the participant adjust clothing to handle being too cold?	LAN65	
	LAN66	1 = "Very often" 2 = "Often" 3 = "Sometimes" 4 = "Not often" 5 = "Rarely or never" 6 = "Not applicable"
How often does the participant open/close window to handle being too cold?	LAN67	
How often does the participant open/close door to handle being too cold?	LAN68	
How often does the participant turn on fan to handle being too cold?	LAN69	
How often does the participant open/close air vents to handle being too cold?	LAN70	
How often does the participant adjust thermostat 1-3 degrees to handle being too cold?	LAN71	1 = "Very often" 2 = "Often"

NFS instrument pilot study codebook

How often does the participant adjust thermostat 4 or more degrees to handle being too hot?	LAN72	3 = "Sometimes" 4 = "Not often" 5 = "Rarely or never" 6 = "Not applicable"
How often does the participant adjust blinds to handle being too cold?	LAN73	
How often does the participant drink cool fluids to handle being too cold?	LAN74	
How often does the participant mention to another occupant to handle being too cold?	LAN75	
How often does the participant report to landlord to handle being too cold?	LAN76	
How useful is it to adjust clothing to handle being too cold?	LAN77	1 = "Extremely effective" 2 = "Very effective" 3 = "Somewhat effective" 4 = "Slightly effective" 5 = "Not effective" 6 = "Not applicable"
How useful is it to open/close window to handle being too cold?	LAN78	1 = "Extremely effective"

NFS instrument pilot study codebook

How useful is it to open/close door to handle being too cold?	LAN79	2 = "Very effective" 3 = "Somewhat effective" 4 = "Slightly effective" 5 = "Not effective" 6 = "Not applicable"
How useful is it to turn on fan to handle being too cold?	LAN80	
How useful is it to open/close air vents to handle being too cold?	LAN81	
How useful is it to adjust thermostat 1-3 degrees to handle being too cold?	LAN82	
How useful is it to adjust thermostat 4 or more degrees to handle being too hot?	LAN83	
How useful is it to adjust blinds to handle being too cold?	LAN84	
How useful is it to drink cool fluids to handle being too cold?	LAN85	

How useful is it to mention to another occupant to handle being too cold?	LAN86	1 = "Extremely effective" 2 = "Very effective" 3 = "Somewhat effective" 4 = "Slightly effective" 5 = "Not effective" 6 = "Not applicable"
How useful is it to report to landlord to handle being too cold?	LAN87	
QUESTIONS FROM RECYCLING STUDY		
I generally don't pay a lot of attention to how much energy I use.	RS01	1 = "Agree" 2 = "Somewhat Agree" 3 = "Neither agree nor disagree" 4 = "Somewhat Disagree" 5 = "Disagree"
I would say I am very pro-environmental.	RS02	
I think saving energy is largely a waste of time.		
I am generally conservative on the political spectrum with regard to social issues.	RS03	
I am generally conservative on the political spectrum with regard to economic issues.	RS04	

NFS instrument pilot study codebook

I consider myself knowledgeable about how much energy utilities such as a dishwasher or lighting use.	RS05	
	RS06	
DEMOGRAPHICS (PART 2)		
This past year, did you send a letter to any political official about environmental or energy issues?		1 = "Yes" 2 = "No"
Do you consider yourself an environmentalist?	DEM28	
	DEM29	
In the last election, for whom did you vote?	DEM30	1 = "Donald Trump" 2 = "Hillary Clinton" 3 = "An Independent" 4 = "Chose not to vote" 5 = "Couldn't vote" 6 = "Don't want to divulge"