11.945 Katrina Practicum Session 8

Developing a Survey Instrument

Using Surveys as a Tool in the Course

2 Potential options:

- Students do a survey and feed data back to the client;
- Students learn how to do surveys and teach residents how to do the survey.

Students cannot do more than one survey during the trip to New Orleans – any survey that students choose to do must be determined by the class as a whole.

Reasons to do a survey:

- Understanding what housing problems local residents are facing
- Understanding what residents would like to see in an environmental community center

Survey Research Methods

http://www.socialresearchmethods.net/kb/survey.htm:

Materials from Cornell Professor; provides very useful information with modules that students can tap into.

"Research on" vs. "Research with"

- Community Based research:
 - You go out, find something, feed it back to a client
- Collaborative Research
 - Working with client group with a transfer of skills and knowledge in both directions:
 - You bring in expertise; they feed local knowledge so that data collection is really meaningful.
 - Program evaluators use it as an opportunity to transfer a skill set

Treme Research

- · Purpose:
 - What do you want to learn?
 - Big Picture: Information to help client figure out what they should be focusing on?
 - Housing:
 - How are people currently meeting their housing needs?
 - o How do they envision their future situation?

- Housing configurations: what was there vs. new construction/new styles
- Neighborhood Characteristics
 - What did you like about the past neighborhood?
 - What goods/services would you like to see in the future?
- Environment:
 - Contamination: (Part of Housing Questions)
 - What do people already know about contamination?
 - What have people heard about contamination?
 - What is your risk perception?
 - Have you done testing?
 - Have you been in touch with public officials?
 - Try to learn about institutional support networks – identify bottlenecks
- Environmental Center: (part of Neighborhood Services)
 - What kinds of information do you want to know?
 - People's age, length of tenure, etc.
- Population (Who should participate)?
 - o Any unit.
 - The key is that the questions and the population need to match
 - E.g. If I am asking about a community level issue, need to identify a population at that level:
 - most of these questions are going to be more at the individual level.
 - Residents?
 - All residents?
 - Relocated residents?
 - The Population is the complete set (100%)
 - This is the group that you will generalize to (all residents)
 - This is a group that you can study (residents still in Treme)
- Sample
 - A portion of the population
 - Must be a representative sample to allow for use of representative statistics
 - Sample is selected from the population
 - Sampling frame:
 - Population from which the sample is drawn
 - Who is the population for this study?
 - Residents in Treme

- o What are their needs?
- What do they want to see in the future?
- Residents relocated from Treme
 - What do they need to return?
 - Reaching out to them may help them come back
 - Feasibility depends on how much information the community partners have on relocated residents
- How can you contact them?
 - Bring people together and have people gather information on the spot
 - Self-selection bias
 - People who are more marginalized/out of the loop may not be able to be there.
- Types of Random Samples
 - o Random
 - Not biased
 - No time to talk to the whole population
 - o Simple
 - Everyone has the same probability of being chosen from the population.
 - o Stratified
 - If two groups in a population might answer differently, and want to be sure that you don't over/under sample, you sample from each group
 - o Systematic
 - Based on decision-rules
 - Requires thinking through decision rules
- Sampling Frame Development;
 - Creating a list of the population
 - How complete is the list?
 - Usually takes longer to develop the sampling frame than to develop and implement the survey.
- Non-Random Samples
 - Can introduce bias
 - Convenience Sample:
 - Talk to the people you find in a location
 - o Criterion
 - Set up some criterion and follow it
 - o Snowball
 - Ask people and ask them to tell you other people
 - Use technique with incomplete sampling frame or population is incomplete
 - Ask other people to help
 - o Important technique for interviews

- Challenges
 - What will a survey tell us?
 - What will it not tell us?
 - What biases come with the language you choose?
 - "Mulit-unit"
 - "Environmental"
 - Will it be possible to do focus groups / pre-testing?
 - Will the survey happen if not over Spring Break?
 - Would it be more realistic to do Rapid Rural Appraisal
- Other Methods of Data Collection:
 - Wentworth Institute of Technology:
 - Group working with issues of design and space
 - Held design charette
 - We will get the outcome from that
- Types of Surveys:
 - Questionnaires (self-complete)
 - Mail
 - Becoming less-common
 - Electronic
 - Less-expensive, easier to administer
 - Minimizes mistakes
 - Group-administered
 - Go to a meeting and administer it where there is a captive audience
 - Instant access / instant credibility
 - Interviews (enumerator complete)
 - Telephone
 - Face-to-face
- Which approach should be used?
 - o Consider:
 - Accessibility of the population
 - Types of information required
 - More sensitive more personal contact
 - Types of questions
 - Resources
 - Time
 - Money?
- Survey Construction:
 - Types of Questions
 - Dichotomous (yes/no)
 - Categorical
 - More difficult to work with
 - Eats up degrees of freedom
 - Rank order
 - Interval (Likert scale)

- Don't include a middle four not five force people to make a choice one side or another
- Contingency with skip patterns
 - "If yes, go here"
 - Often one of the biggest problems in surveys
- Open-ended
- Question content
 - Is the question necessary/useful?
 - Do you need the level of specificity?
 - Do respondents have the needed information?
 - Does the question need to be more specific?
 - What are you really trying to get at?
 - Is the question biased or loaded?
 - Are you forcing people to answer with a biased result?
 - Will the respondent answer truthfully?
 - e.g. salary
- o Response format
 - Check box
 - Fill in the blank
 - Ranked
 - Circle number or statement
 - Open Ended
 - Biggest problem: handwriting
- o Wording
 - What assumptions does the question make?
 - Is the time frame specified?
 - Double-barreled?
 - some questions ask two things, if someone answers "yes" can't assume that it applies to both
 - How personal/direct is the wording?
 - Questions about feelings are more personal
 - More difficult to answer
 - o Respondents are less likely to answer
 - They make respondents less likely to complete survey
 - More objective questions are easier to answer
- o Placement
 - Is the answer influenced by prior questions?
 - Did you give someone information that would bias them?
 - Did you need to ask something else first?
 - Does the question come too early or too late to arouse interest?

- If you are going to ask something outside of what is expected, must frame that through transitional questions / framing statement
- Personal questions should come at the end of the survey
- Recommendations
 - Start with easy, non-threatening questions
 - Put more difficult, personal, threatening questions near end
 - Never start a mail survey with an open-ended question
 - For historical demographics, follow chronological order
 - Ask about one topic at a time
 - Topic headers
 - When switching topics, use a transition statement
 - Reduce response set
 - People tend to check the same response if it is too long
 - For filter or contingency questions, make a flowchart / use arrows
- Response Rate Matters
 - Outcome is influenced by outliers
 - Shorter is better
 - People tend to answer shorter surveys
 - Important, interesting way to promote participation
 - T-shirts for participation
 - Ways to keep interest
 - Focus on things that people care about
 - Face validity
 - Ask about things that really resonate
 - Who is funding the survey / how will you use these results?
 - Disclosure can add bias
 - Clear rationale / need for survey
 - o Takes time, energy, resources
 - Professional Presentation
 - Partner with local community
 - Well-thought-out
 - No typos
 - Name tags, credentials
 - Pretest and refine to catch mistakes
 - Series:
 - Variation on outcome
 - Face validity does this resonate?

• Embedded mistakes

Preparing for Research

- COUHES: Research on Human Subjects
 - Research ethics
 - Informed consent
 - People know why you are doing the research
 - They agree to participate
 - Confidentiality
 - Need to take some measure to ensure confidentiality
 - COUHES training
 - MIT required to take the test
 - Faculty required to continue requalifying
 - Informed consent
 - Confidentiality
 - Came out of post-world-war II
 - Unethical experiments on human subjects
 - o COUHES approval
 - Need to get approval for anything you do
 - Work for this class probably qualifies as expedited / exempt
 - Medical research / research on children requires
 review process in front of committee
 - Exclude children from the study (use parents as a proxy).