NR595C: Survey Methods http://nr595c.pattanayak-sills.net/

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Inter-related decisions

- Population
- Sampling frame
- Temporal design
- Interview mode
- Questionnaire
- Data entry

Affected by

- IRB
- Budget and timeline



- Define research questions
 - Cross-walk with questionnaire
 - Design sample
 - How handle confidentiality
 - □ Is a survey the right method for your research?
- Define population of interest
 - General population, universe
 - Start with ideal and later re-state to reflect reality

















Errors

- Sum up as "mean square error"
- MSE
 - Variable (reliability ratio)
 - Systematic (bias)
- Goal: minimize MSE while staying within budget and on schedule



Deciding on a mode

- Cost (time and money)
- Non-response patterns
- Social desirability
- Control over question order
- Explanations and assistance
- Simultaneous data entry

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|------------------------------------|-----------------|------------------|----------|
| | | | |
| Variable | Mail | Phone | F/F |
| Cost | Cheapest | Moderate | Costly |
| speed | Moderate | Fast | Slow |
| Response rate | Low to moderate | Moderate | High |
| Sampling need | Address | Telephone number | Address |
| Burden on respondent | High | Moderate | Low |
| Control participation Of others | Unknown | High | Variable |
| Length of Questionnaire | Short | Moderate | Long |
| Sensitive questions | Best | Moderate | Poor |
| Lengthy answer choices | Poor | Moderate | Best |
| Open-ended responses | Poor | Moderate | Best |
| Complexity of Questionnaire | Poor | Good | Best |
| Possibility of nterviewer bias | None | Moderate | High |





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|---------------------|-----------|-----------|
| Hunters | Jane | Joelle |
| Forest cooperators | James | Anna |
| Richmond recreators | Megan | Joseph |
| Zoo visitors | Ines | |
| Raccoon relations | Maria | Yari |
| Cacao farmers | Braden | Genevieve |
| Land stewards | Shari | Kim (KMS) |
| NCMAT visitors | Kim (KDS) | Kathryn |



Social Exchange Theory

- Multiple contacts
- Personalized communications
- Respondent friendly questions
- Emphasis on survey's usefulness
- Importance of a response is realized

Ways of Providing Rewards

- Show positive regard
- Say "thank you"
- Ask for advice
- Support group values
- Give tangible rewards
- Make the survey interesting
- Give social validation
- Hint that opportunities to respond are scarce





| Ways of encouraging response |
|------------------------------|
| lo magic bullet |
| Multiple contacts |
| nitiate the exchange |
| "Foot in the door" |
| Token of appreciation |



Mail survey protocol

Pre-notice Questionnaire with cover letter, SASE, & \$ Thank-you postcard Replacement questionnaire (hey YOU) Highly differentiated final contact Courier or higher cost mail service Telephone or other mode

Tailored Design protocol for NCMAT intercept

First progress report

- For two modes
 - 'Tailored design' protocol for multiple contacts, briefly describing what you would do & why at each step
 - Describe relative advantages and disadvantages in table format (where rows could be different sources of error, or different steps of survey process)