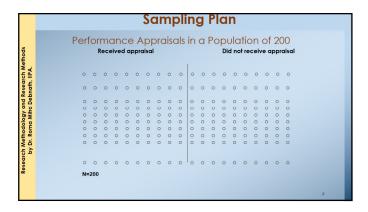


Sampling Plan Session # 7 Session # 7 Session # 7 Sampling Plan Sampling Plan

Sampling Plan Steps in Conducting a Social Survey I 1. Topic/area to be researched 2. Review literature/ theories relating to topic/area 3. Formulate research questions 4. Consider with there a social survey is appropriate (if not, consider an alternative research design) 5. Consider with thind of population will be appropriate 6. Consider what kind of sample design will be employed

	Sampling Plan
Research Methods bnath, IIPA.	Steps in Conducting a Social Survey II 7. Explore whether there is a sampling frame that can be employed
ch Methodology and Research A by Dr. Roma Mitra Debnath, IIPA	Decide on mode of administration (face-to-face; telephone; postal; e-mail; Web)
dology and ma Mitra De	Develop questions (and devise answer alternatives for closed questions)
Research Methodology by Dr. Roma Mith	10. Review questions and assess face validity
Researc	11. Pilot question
	12. Revise questions
	4

	Sampling Plan	
Research Methodology and Research Methods by Dr. Roma Mitra Debnath, IIPA.	Steps in Conducting a Social Survey III 13. Finalize questionnaire/schedule 14. Sample from population 15. Administer questionnaire/schedule to sample 16. Transform completed questionnaires/schedules into computer readable data (coding) 17. Analyse data 18. Interpret findings 19. Consider implications of findings for research questions	
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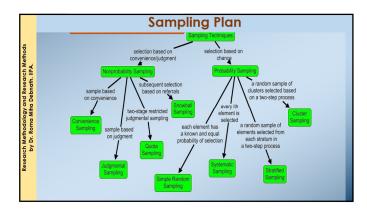


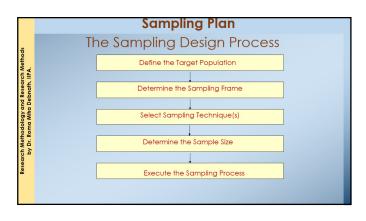
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Sampling Plan

Define the Target Population
The target population is the collection of elements or objects that possess the information sought by the researcher and about which inferences are to be

- An **element** is the object about which or from which the information is desired, e.g., the respondent.
- Extent refers to the geographical boundaries.
- **Time** is the time period under consideration.

Simple Random Sampling

- Each possible sample of a given size (n) has a known and equal probability of being the sample actually selected.
- This implies that every element is selected independently of every other element.

Probability Samples

- 1. Select a suitable sampling frame.
- 2. Each element is assigned a number from 1 to N (pop. size).
- 3. Generate n (sample size) different random numbers between 1 and N.
- 4. The numbers generated denote the elements

that should be included in the sample.

Sampling Plan

Sampling Plan

Simple Random Sampling

6

Systematic Sampling

- The sample is chosen by selecting a random starting point and then picking every ith element in succession from the sampling frame.
- · The sampling interval, i, is determined by dividing the population size N by the sample size \boldsymbol{n} and rounding to the nearest integer.
- When the ordering of the elements is related to the characteristic of interest, systematic sampling increases the representativeness of the sample.

Systematic Sampling

• If the ordering of the elements produces a cyclical pattern, systematic sampling may decrease the representativeness of the sample.

For example, there are 100,000 elements in the population and a sample of 1,000 is desired. In this case the sampling interval, i, is 100. A random number between 1 and 100 is selected. If, for example, this number is 23, the sample consists of elements 23, 123, 223, 323, 423, 523, and so on.

Stratified Sampling

- A two-step process in which the population is partitioned into subpopulations, or strata.
- The strata should be mutually exclusive and collectively exhaustive in that every population element should be assigned to one and only one stratum and no population elements should be omitted.
- Next, elements are selected from each stratum by a random procedure, usually SRS.
- A major objective of stratified sampling is to increase precision without increasing cost.

Stratified Sampling

- The elements within a stratum should be as homogeneous as possible, but the elements in different strata should be as heterogeneous as
- The stratification variables should also be closely related to the characteristic of interest.

- Stratified Sampling
 In proportionate stratified sampling, the size of the sample drawn from each stratum is proportionate to the relative size of that stratum in the total population.
- In disproportionate stratified sampling, the size of the sample from each stratum is proportionate to the relative size of that stratum and to the standard. deviation of the distribution of the characteristic of interest among all the elements in that stratum.

Cluster Sampling

- The target population is first divided into mutually exclusive and collectively exhaustive subpopulations, or clusters.
- Then a random sample of clusters is selected, based on a probability sampling technique such as SRS.
- For each selected cluster, either all the elements are included in the sample.

Cluster Sampling

• Elements within a cluster should be as themselves should be as homogeneous as possible, but clusters themselves should be as homogeneous as possible. Ideally, each cluster should be a small-scale representation of the population.

Convenience Sampling

Convenience sampling attempts to obtain a sample of convenient elements. Often, respondents are selected because they happen to be in the right place at the right time.

- Use of students, and members of social organizations
- Mall intercept interviews without qualifying the respondents
- Department stores using charge account lists
- "People on the street" interviews

Judgmental Sampling

Judgmental sampling is a form of convenience sampling in which the population elements are selected based on the judgment of the researcher.

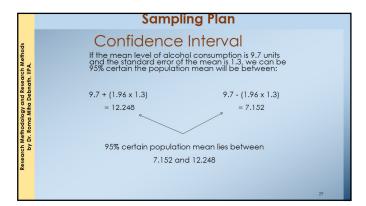
- CEOs are selected in industrial research
- Expert's opinion etc.

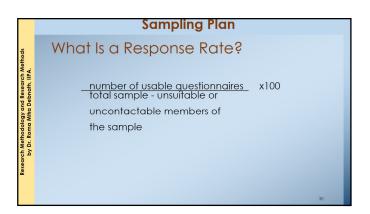
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In snowball sampling, an initial group of respondents is selected, usually at random. - After being interviewed, these respondents are asked to identify others who belong to the target population of interest. - Subsequent respondents are selected based on the referrals.

Technique Nouprobability sampling Convenience sampling Quota sampling Quota sampling Government Sampling Convenience sampling Covernment Sampling Sample can be controlled Covernment Sampling Covernment Samp

	Sampling Plan
s	Sample Size: Important Considerations
h Method P.A.	Absolute size more important than relative size
Research Methodology and Research Methods by Dr. Roma Mitra Debnath, IIPA.	2. Time and cost
dology an na Mitra E	3. Non-response
ch Method by Dr. Ror	4. Heterogeneity of the population
Resear	5. Kind of analysis to be conducted
	26





Sampling Plan
Sources of Bias in Quota Samples
Under-representation of: people in lower social strata people who work in the private sector and manufacturing people at the extremes of income
Over-representation of:

Sampling Plan

Limits to Generalization

- Findings can only be generalized to the population from which the sample was taken
- Findings may be specific to the characteristics of the population
- Findings may be locality specific
- Findings may be temporally specific