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Session 3.5: Survey Design Considerations: Cluster and Multistage Sampling

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IMPROVING AGRICULTURAL STATISTICS Global Strategy

Random Sampling Designs

Cluster Sampling:

* Cluster sampling is used when the you cannot get a complete frame from which to draw the sample, but you have a complete list of groups or 'clusters' of the population.
* It is also used when a random sample would produce a list of subjects so widely scattered that surveying them would prove to be far too expensive.
* A random sample of these clusters are then selected and all observations in the selected clusters are included in the sample.
* This sampling technique may well be more practical and/or economical than simple random sampling or stratified sampling.
* Cluster samples are generally less efficient than SRS.

Random Sampling Designs

Multistage Sampling:

* A complex form of cluster sampling where only some of the units in the cluster are selected for sampling.
* Often a complete enumeration is done of the Primary Sampling Unit (PSU) before the secondary sample is drawn.
* Often the selection at each stage is done with either SRS of PPS.

References

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