

What are the key considerations for selecting the appropriate analysis for different types of survey designs?

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Selecting the appropriate analysis for different types of survey designs is a critical aspect of conducting a successful survey. It involves carefully considering various factors that can impact the accuracy and reliability of the results. The key considerations for selecting the appropriate analysis include the type of survey design being used, the nature of the data being collected, the research objectives, and the target population. Additionally, the availability of resources such as time, budget, and expertise must also be taken into account. Different survey designs, such as cross-sectional, longitudinal, or experimental, require different analytical approaches to effectively interpret the data. Moreover, the type of data being collected, whether it is quantitative or qualitative, will determine the appropriate statistical techniques or analytical methods to be used. The research objectives also play a crucial role in selecting the analysis as they determine the specific research questions that need to be answered. Furthermore, the characteristics of the target population, such as their demographics and behaviors, can influence the choice of analysis. Overall, a thorough understanding of the survey design and its specific requirements, combined with careful consideration of these key factors, is essential for selecting the appropriate analysis for a successful survey.

FAQ: Choosing the correct analysis for various survey designs

The table below shows general guidelines for choosing a statistical analysis for various survey designs.

Design	Stata	SAS	SUDAAN	WesVar	R
Simple random sampling	Stata	SAS	SUDAAN	WesVar	R
Stratified with certainty PSUs	Stata	SAS	SUDAAN	WesVar	R
One-stage cluster sampling	Stata	SAS	SUDAAN	WesVar	R
Probability proportional to size sampling	Stata	SAS	SUDAAN	WesVar	R
Stratified random sampling	Stata	SAS	SUDAAN	WesVar	R
Systematic sampling	Stata	SAS	SUDAAN	WesVar	R
Repeated systematic sampling	Stata	SAS	SUDAAN	WesVar	R
Stratified random sampling with allocation to strata	Stata	SAS	SUDAAN	WesVar	R

Design	Stata	SAS	SUDAAN	WesVar	R
Stratification after sampling (poststratification)	Stata	SAS	SUDAAN	WesVar	R
Other methods of estimation					
Ratio estimation	Stata	SAS	SUDAAN	WesVar	R
Regression estimation	Stata	SAS	SUDAAN	WesVar	R

Note: The SUDAAN pages provide the code for SAS-callable SUDAAN, which is somewhat different from the code used in the stand-alone version of SUDAAN.

Note: The WesVar page for simple random sampling contains basic information on how to use WesVar as well as how to analyze survey data with a simple random sampling design.