

Sampling Principles and Strategies

Colby Community College

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Note

It is often prohibitively expensive to collect data from every member of a population.

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Example 2

In a journal article it was stated that there are 38 million carbon monoxide detectors installed in the United States. When 30 of them were randomly selected and tested, it was found that 12 of them failed an alarm in hazardous carbon monoxide conditions.

What is the population?

"Residential Carbon Monoxide Detector Failure Rates in the United States" (by Ryan and Arnold, *American Journal of Public Health*, Vol. 101, No. 10)

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What is the sample?

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Note

Such evidence may be true and verifiable, but it may only represent extraordinary cases.