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Sampling Techniques For Forest Inventories

Barry D. Shiver and Bruce E. Borders are the authors of Sampling Techniques for Forest Resource Inventory, published by Wiley.

Sampling Techniques for Forest Resource Inventory | Wiley

Sound forest management planning requires cost-efficient approaches to optimally utilize given resources.

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Emphasizing the mathematical and statistical features of forest sampling to assess classical dendrometrical quantities, *Sampling Techniques for Forest Inventories* presents the statistical concepts and tools needed to conduct a modern forest inventory.

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emphasis on model-based methods,
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The current chapter gives an overview on sampling methods applied in the scope of forest inventories, describes their general approaches and estimation procedures, and discusses advantages and ...

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Horizontal Point Sampling. Stratified Random Sampling. Ratio and Regression Estimators. Double Sampling or Two-Phase Sampling. Multistage Sampling. Inventorying Large Acreages. Inventory Methods for Estimating Stand Growth. 3P and Line Intersect Sampling. Estimating Wildlife Population Sizes.

[PDF] Sampling techniques for forest resource inventory ...

Emphasizing the mathematical and

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statistical features of forest sampling to assess classical dendrometrical quantities, Sampling Techniques for Forest Inventories presents the statistical concepts and tools needed to conduct a modern forest inventory.

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Simple random sampling (SRS) is the fundamental selection method. In systematic sampling (SYS), sampling units are spaced at fixed intervals throughout the population. Selective or opportunistic sampling is an example of nonrandom sampling used in forest inventory work.

SAMPLING DESIGNS IN FOREST INVENTORIES - Forest ...

The current chapter gives an overview on sampling methods applied in the scope of forest inventories, describes their general approaches and estimation procedures, and discusses advantages and disadvantages of the individual

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designs. Fixed area plots and point sampling for the selection of trees on sampling units are presented.

Sampling in Forest Inventories | SpringerLink

Cluster sampling reduces travel between plots while providing a sufficient number of plots. The optimal shape and size may be addressed using sampling simulation and prior information, although circular plots are often used in forest inventories.

Sampling designs for national forest assessments

Emphasizing the mathematical and statistical features of forest sampling to assess classical dendrometrical quantities, Sampling Techniques for Forest Inventories presents the statistical concepts and tools needed to conduct a modern forest inventory.

Sampling Techniques for Forest Inventories (Chapman & Hall ...

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Example of hardware equipment for forest inventories: GPS and laser rangefinder for mapping connected to a field rugged computer. A timber cruise is a sample measurement of a stand used to estimate the amount of standing timber that the forest contains. These measurements are collected at sample locations called plots, quadrants, or strips.

Forest inventory - Wikipedia

Due to cost and time constraints inventories are generally carried out using sampling techniques. The general principle of sampling is to select a subset from a population and draw inferences from the sample to the entire population. The selection of the most appropriate

Forest Inventory - Food and Agriculture Organization

Double sampling allows you to use regression and ratio estimation when the population mean or total is unknown

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Updating Timber Cruises: Re-measure a sample of the plots used in the original cruise and calculate relationship between earlier and later plot volumes.

FOR 474: Forest Inventory Techniques

ELEMENTARY FOREST SAMPLING This is a statistical cookbook for foresters. It presents some sampling methods that have been found useful in forestry.

Elementary Forest Sampling - US Forest Service

Forest inventory information obtained from the entire forest is called complete or 100% inventory. In contrast, when the measurements are taken from a representative sample of the forest it is a sampling inventory. The information requirements regarding the forest resource are as manifold as are the interests in forest as an ecosystem.

Forest Inventory & Management Manual

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Designed to aid readers in gathering the most reliable quantitative information on forests for the least cost. Thoroughly explains the interrelationships between sampling strategies; discusses forestry techniques of efficient tactics; examines new developments in statistics having immediate applications in forestry and describes related developments that should have relevance in the future.

Sampling Methods for Multiresource Forest Inventory | Wiley

Forest Inventory and Analysis Sampling and Plot Design FIA Fact Sheet Series 2/3/05 Overview. The FIA Program collects, analyzes, and reports information on the status, trends, and condition of America's forests: how much forest exists, where it exists, who owns it, and how it is changing, as well as how the trees and other

Sampling and Plot Design - Forest Inventory and Analysis ...

Emphasizing the mathematical and

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statistical features of forest sampling to assess classical dendrometrical quantities, Sampling Techniques for Forest Inventories presents the statistical concepts and tools needed to conduct a modern forest inventory. \"The book first examines design-based survey sampling and inference for large finite populations, followed by more advanced topics, including three-stage element sampling and the model-assisted estimation procedure.

Sampling techniques for forest inventories (Book, 2008 ...

Given the relatively high sampling intensity (and resulting proximity) of forest inventory data (Fig. 3) and the long range of spatial autocorrelation in AGB data (>100 km), it is obvious that any ...

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