

Statistical Concepts in Mineral Inventory Estimation: An Overview

Statistics . . . should not be involved in ore reserve estimation until all other factors such as geological continuity and contacts, lost core, representativeness, sampling and assay errors have been identified, examined and assessed. (King et al., 1982, p. 18)

The aim of Chapter 4 is to introduce classic statistical terminology and methods in the context of mineral inventory estimation. It is advantageous for the reader who is unfamiliar with statistical methodologies to have available an introductory text in statistics from which to obtain a more general background and insight into proofs or developments of various parts of the commentary. Emphasis here is on simple and useful statistical procedures. Topics include central tendency, dispersion, covariance, histograms, probability density functions, probability plots, linear correlation, autocorrelation, and linear regression. All are presented in the context of their use in mineral inventory estimation.

4.1: INTRODUCTION

Statistical methods and terminology have been applied to the characterization of ore since about 1945 (cf. Sichel, 1952; Swanson, 1945). Applications to the study of quantitative numeric variables such as metal grades or other deposit characteristics are commonly concerned with central tendency, dispersion of values, the form of probability density functions (histograms), simple correlation, autocorrelation,

relations among groups of variables, and a variety of probabilistic statements related to some of these topics. These traditional statistical approaches to summarizing and understanding data are considered here in their relation to mineral inventory estimation procedures. For deeper insight into the fundamentals of statistics, reference should be made to the myriad of texts available.

Statisticians speak of a *population* or *universe* (i.e., the entire feature under study, e.g., a mineral deposit). This universe or deposit is characterized by variables (e.g., grades) with particular parameters (e.g., mean, standard deviation) and a particular form or shape to the spread of all possible values (data items) about the mean (i.e., the probability density function or the histogram). A general aim of statistical work is to infer the parameters (characteristics) of the universe (deposit) from a subset or sample of possible items (rock sample assays). For example, 345 rock samples analyzed for Cu and Au might be adequate to characterize a particular deposit within an acceptable level of error. Note the two uses of the word *sample*. In statistical usage, the n individual values combine to make a sample (consisting of n items) of the deposit. In mining usage, a sample is commonly a physical quantity of rock material, a representative fraction of which can be analyzed to produce numeric measures of quality (e.g., grades). Samples in mining evaluation

Applied Mineral Inventory Estimation

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