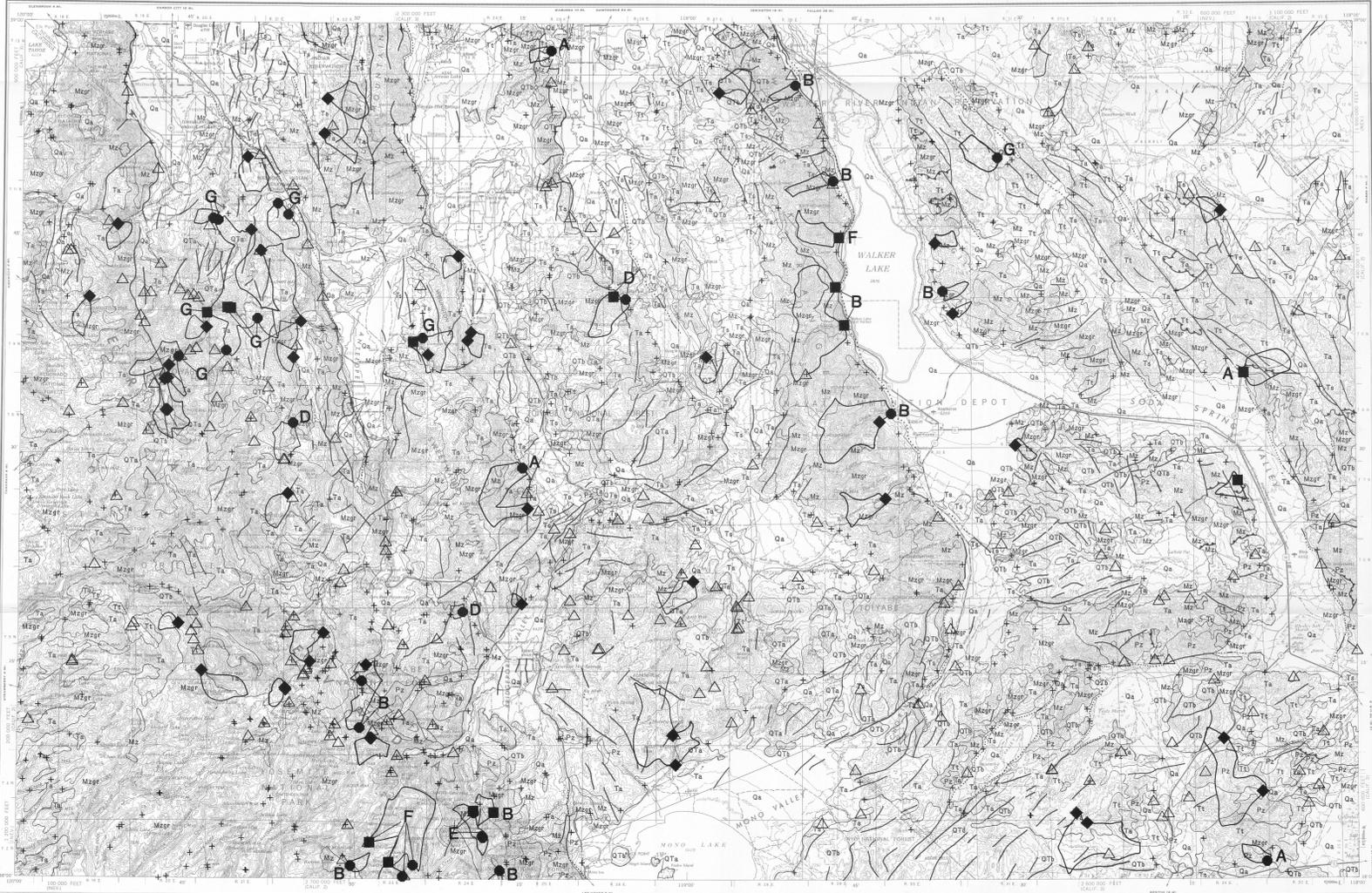




MAP A. DISTRIBUTION OF IRON IN NONMAGNETIC HEAVY-MINERAL CONCENTRATE



MAP B. DISTRIBUTION OF COBALT IN NONMAGNETIC HEAVY-MINERAL CONCENTRATE

Base from U.S. Geological Survey, 1957; revised 1959

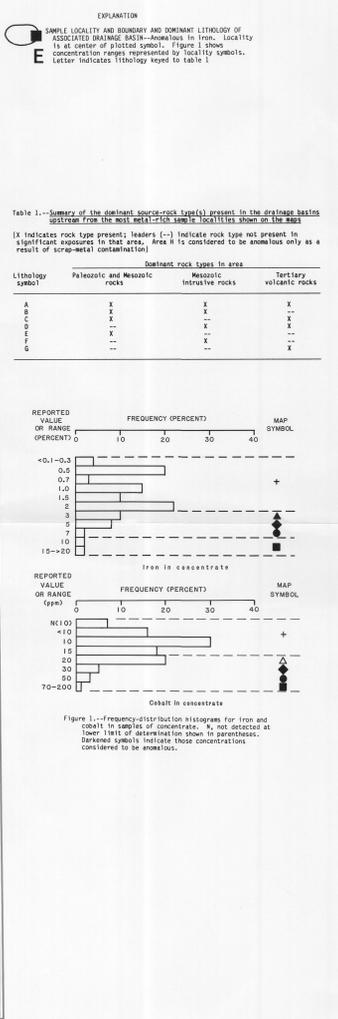


Figure 1.—Frequency-distribution histograms for iron and cobalt in samples of concentrate. % not detected at center of plotted symbol. Figure 1 shows concentration ranges reported on localities and later indicates lithology key to table 1.

**INTRODUCTION**

This report is part of a series of maps of the Walker Lake 1° x 2° quadrangle, California and Nevada, prepared under the Cooperative Mineral Resources Act of 1954. The maps show the distribution of selected elements in the Walker Lake drainage basin. The elements shown are iron, cobalt, barium, strontium, arsenic, antimony, and bismuth. The maps are based on samples collected during 1957 and 1958 for the present study. A combined edition of all these maps is published as U.S. Geological Survey Open-File Report 80-100 (Chaffee and others, 1980). This report is also available in computer-readable form from the National Technical Information Service (McNeal and others, 1980).

**ECONOMIC GEOLOGY**

The Walker Lake drainage basin is a major mineral resource area in the Sierra Nevada-Cascade Mountains and the Basin and Range provinces. The basin contains a variety of mineral resources, including iron, cobalt, barium, strontium, arsenic, antimony, and bismuth. The Walker Lake drainage basin is a major source of iron and cobalt in the Basin and Range province. The basin contains a variety of mineral resources, including iron, cobalt, barium, strontium, arsenic, antimony, and bismuth. The Walker Lake drainage basin is a major source of iron and cobalt in the Basin and Range province.

**NATURE AND SCOPE OF THE GEOLOGICAL SAMPLING**

The geological sampling program for the Walker Lake quadrangle was based on stream-sediment and nonmagnetic heavy-mineral concentrate derived from stream sediments of the Walker Lake drainage basin. The program was designed to provide information on the distribution of iron, cobalt, barium, strontium, arsenic, antimony, and bismuth in the Walker Lake drainage basin. The program was designed to provide information on the distribution of iron, cobalt, barium, strontium, arsenic, antimony, and bismuth in the Walker Lake drainage basin.

**DESCRIPTION OF THE CHEMICAL ANALYSES**

The chemical analyses were performed on the stream-sediment and nonmagnetic heavy-mineral concentrate samples. The analyses were performed using a variety of analytical techniques, including atomic absorption spectrometry, gravimetry, and colorimetry. The analyses were performed using a variety of analytical techniques, including atomic absorption spectrometry, gravimetry, and colorimetry.

**DESCRIPTION OF THE MAP MEDIA**

The map media consist of the stream-sediment and nonmagnetic heavy-mineral concentrate samples. The samples were collected from stream sediments and nonmagnetic heavy-mineral concentrate. The samples were collected from stream sediments and nonmagnetic heavy-mineral concentrate.

**SAMPLE PREPARATION AND ANALYSIS**

The stream-sediment and nonmagnetic heavy-mineral concentrate samples were prepared for analysis. The samples were prepared for analysis using a variety of techniques, including drying, grinding, and weighing. The samples were prepared for analysis using a variety of techniques, including drying, grinding, and weighing.

**DESCRIPTION OF THE CHEMICAL ANALYSES**

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**DISCUSSION OF THE ELEMENTS**

**Iron and Cobalt**

The Walker Lake drainage basin is a major source of iron and cobalt in the Basin and Range province. The basin contains a variety of mineral resources, including iron, cobalt, barium, strontium, arsenic, antimony, and bismuth. The Walker Lake drainage basin is a major source of iron and cobalt in the Basin and Range province.

**Barium and Strontium**

The Walker Lake drainage basin is a major source of barium and strontium in the Basin and Range province. The basin contains a variety of mineral resources, including iron, cobalt, barium, strontium, arsenic, antimony, and bismuth. The Walker Lake drainage basin is a major source of barium and strontium in the Basin and Range province.

**Arsenic and Antimony**

The Walker Lake drainage basin is a major source of arsenic and antimony in the Basin and Range province. The basin contains a variety of mineral resources, including iron, cobalt, barium, strontium, arsenic, antimony, and bismuth. The Walker Lake drainage basin is a major source of arsenic and antimony in the Basin and Range province.

**Bismuth**

The Walker Lake drainage basin is a major source of bismuth in the Basin and Range province. The basin contains a variety of mineral resources, including iron, cobalt, barium, strontium, arsenic, antimony, and bismuth. The Walker Lake drainage basin is a major source of bismuth in the Basin and Range province.

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MAPS SHOWING DISTRIBUTION OF IRON, COBALT, BARIUM, STRONTIUM, ARSENIC, ANTIMONY, AND BISMUTH IN SAMPLES OF MINUS-60-MESH (0.25-MM) STREAM SEDIMENT AND (OR) NONMAGNETIC HEAVY-MINERAL CONCENTRATE, WALKER LAKE 1° X 2° QUADRANGLE, CALIFORNIA AND NEVADA

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