

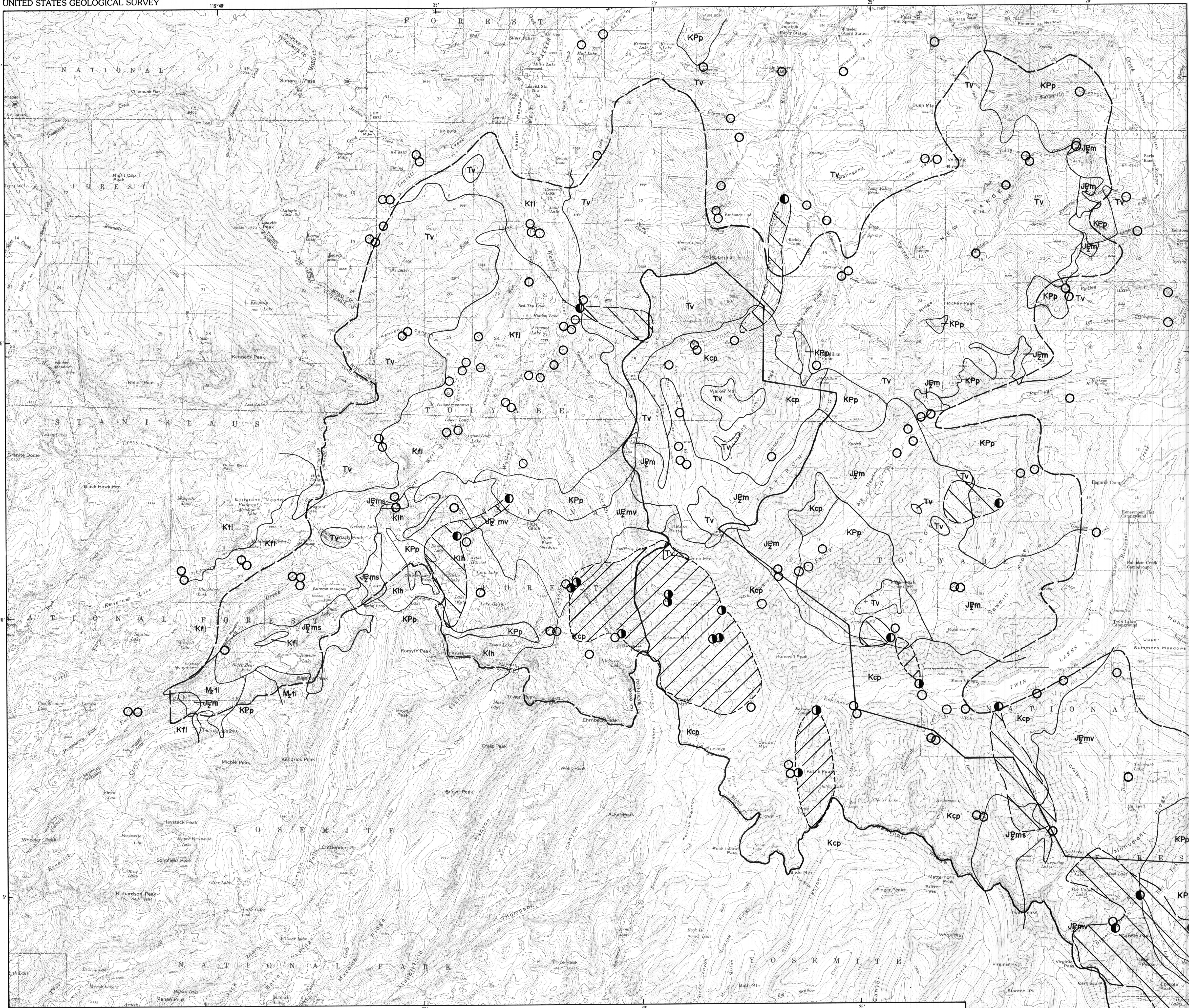


Figure 1.--Frequency diagram for arsenic in samples of minus-60-mesh (0.25-mm) stream sediment.
[N = Not detected at the lower limit of determination shown in parentheses]

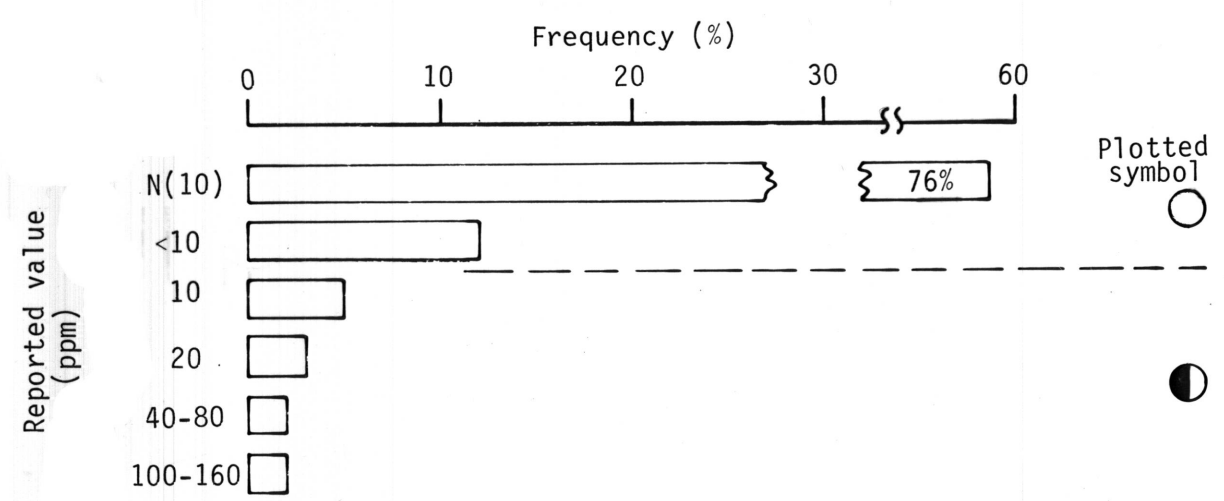
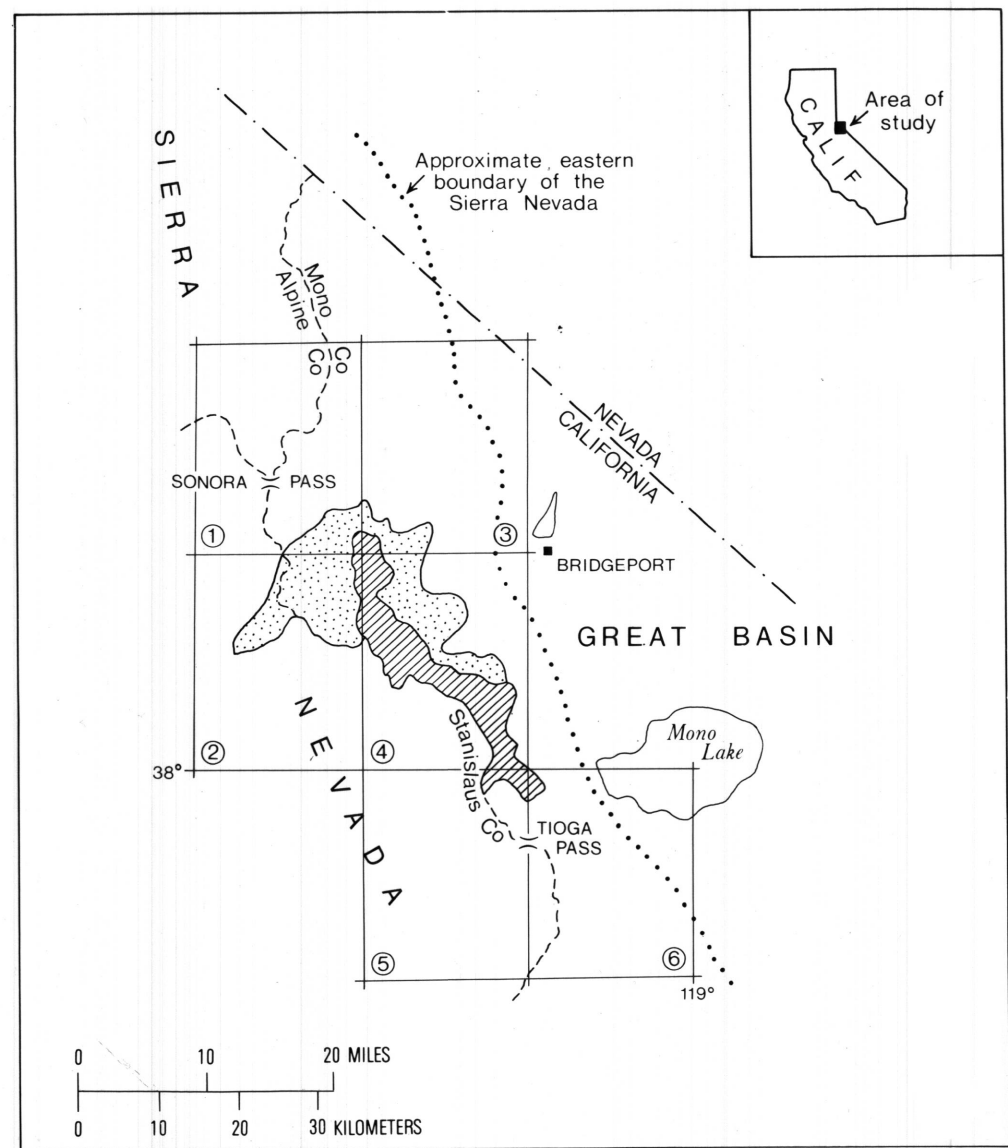
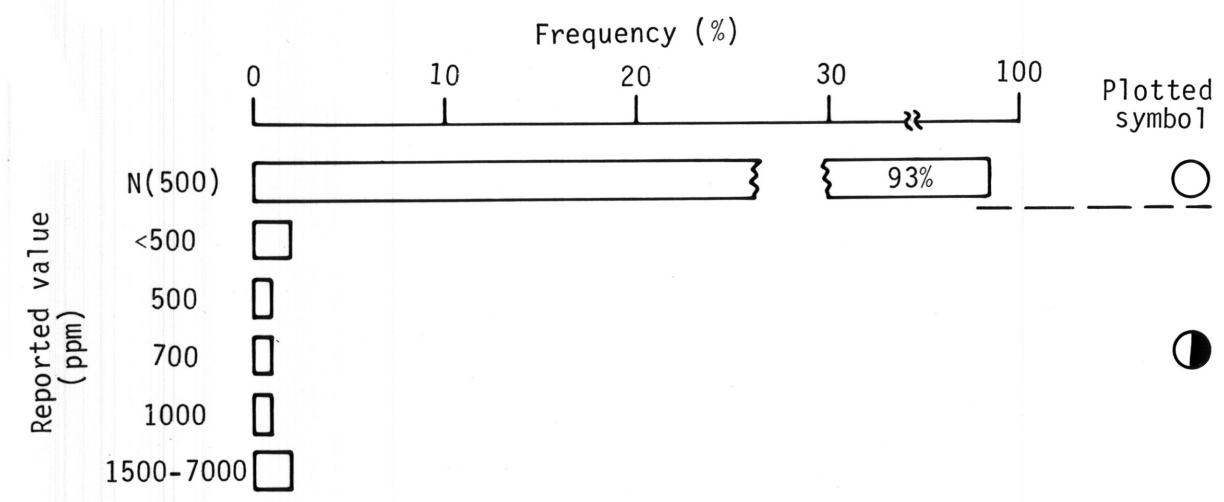


Figure 2.--Frequency diagram for arsenic in samples of nonmagnetic heavy-mineral concentrate.
[N = Not detected at the lower limit of determination shown in parentheses]



Index map showing location of Hoover Wilderness (lined) and adjacent study area (stippled), California. Numbers indicate 15-minute quadrangles: (1) Sonora Pass, (2) Tower Peak, (3) Fales Hot Springs, (4) Matterhorn Peak, (5) Tuolumne Meadows, and (6) Mono Craters.

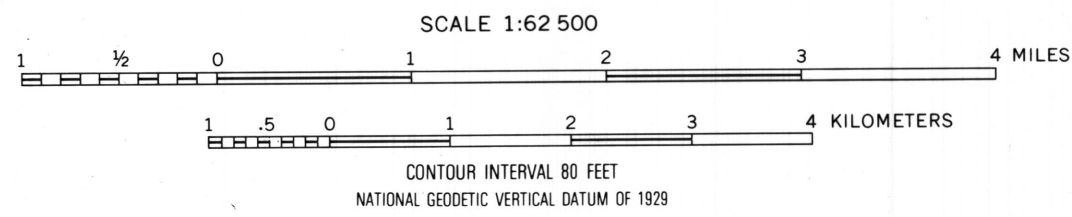
Base from U.S. Geological Survey
Mono Craters, 1953; Fales Hot Springs,
Matterhorn Peak, Sonora Pass,
Tower Peak, Tuolumne Meadows, 1956;
Bodie, 1958

LIST OF MAP UNITS

- Tv VOLCANIC FLOWS, BRECCIAS, AND LAHARS VARYING IN COMPOSITION FROM RHYOLITE TO BASALT (Tertiary)--Includes Disaster Peak Formation of Slemmons (1966), Stanislaus Group, Relief Peak Formation of Slemmons (1966), Valley Springs Formation, and intrusive andesite
- Kcp CATHEDRAL PEAK GRANODIORITE (Cretaceous)
- Ktl GRANODIORITE OF TOPAZ LAKE (Cretaceous)
- Kfl GRANODIORITE OF FREMONT LAKE (Cretaceous)
- Klh GRANODIORITE OF LAKE HARRIET (Cretaceous)
- Mzt GRANODIORITE OF TWIN LAKES (Mesozoic)
- Kpp PLUTONIC ROCKS, UNDIVIDED, OF PREDOMINANTLY GRANITIC TO GRANODIORITIC COMPOSITION (Cretaceous to Permian(?))--Includes granite of Eagle Creek, granodiorite of Buckeye Creek, granodiorite of Green Creek, granodiorite of Long Canyon, alaskite of Grace Meadow, granite of upper Twin Lakes, granodiorite of Bond Pass, granodiorite of Mono Dome, granite of Dorothy Lake, granodiorite of Log Cabin Creek, granite of Devils Gate, gabro of Mount Warren, and quartz diorite of Odell Lake
- JP_{2ms} METASEDIMENTARY ROCKS, UNDIVIDED (Jurassic to Paleozoic)--Represent roof-pendant material in the Sierra Nevada batholith
- JP_{2mv} METAVOLCANIC AND METAPLUTONIC ROCKS, UNDIVIDED (Jurassic to Paleozoic)--Represent roof-pendant material in the Sierra Nevada batholith
- JP_{2m} METASEDIMENTARY, METAVOLCANIC, AND METAPLUTONIC ROCKS, UNDIVIDED (Jurassic to Paleozoic)--Represent roof-pendant material in the Sierra Nevada batholith

EXPLANATION

- Approximate boundary of the Hoover Wilderness
- Approximate boundary of the adjacent study area
- Geologic contact
- Sample site, stream-sediment sample only contains anomalous arsenic
- Sample site, concentrate sample only contains anomalous arsenic
- Sample site, both samples contain anomalous arsenic
- Sample site, neither type of sample is anomalous
- /// Approximate limit of drainage basin(s) for stream-sediment samples containing anomalous arsenic
- /// Approximate limit of drainage basin(s) for concentrate samples containing anomalous arsenic



SHEET 5.—ANOMALIES FOR ARSENIC IN SAMPLES OF STREAM SEDIMENT AND CONCENTRATE

GEOCHEMICAL ELEMENT MAPS OF THE HOOVER WILDERNESS AND ADJACENT STUDY AREA, MONO AND TUOLUMNE COUNTIES, CALIFORNIA

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1983

Geology by W. J. Keith and
J. F. Seitz, 1978, 1979