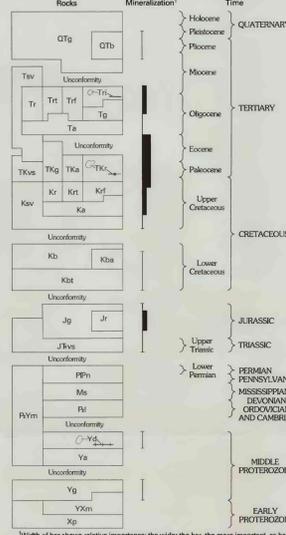


Dragon Forest unit

Based on U.S. Geological Survey 1:250,000  
Douglas, 1959 (revised 1970); Nogales, 1956 (revised 1959);  
Silver City, 1954 (revised 1974); Tucson, 1956 (revised 1959).  
Transverse Mercator projection.

CORRELATION OF MAP UNITS AND MINERALIZATION



DESCRIPTION OF MAP UNITS

- (All units may not appear on all maps)
- QTg Gravel, sand and conglomerate (Holocene to Miocene)—Alluvium filling intermontane basins, on pediments, in alluvial aprons and stream terraces, and along watercourses.
  - QTb Basal (Pleistocene to Miocene)—Lava flows and cinder deposits.
  - Tav Sedimentary and volcanic rocks, undivided (Pliocene to Eocene)—Rhyolitic to andesitic lava and tuff, and some interbedded conglomerate, sandstone, and shale.
  - Tr Rhyolitic rocks (Miocene and Oligocene)—Includes lava flows, tuffs, and tuffaceous sandstone.
  - Trf Rhyolitic tuffs (Miocene and Oligocene)—Aerial tuff, ash-fall tuff, tuff breccia, welded tuff, and some sedimentary rocks.
  - Trf Rhyolitic lava flows (Miocene and Oligocene)—May include some intrusive bodies.
  - Trf Intrusive rocks (Miocene and Oligocene)
  - Rh Rhyolite (Miocene and Oligocene)—Dikes and plugs.
  - Tg Granite (Oligocene)—Stocks.
  - TKv Andesitic rocks (Oligocene)—Lava flows, breccia deposits, and interbedded sedimentary rocks.
  - TKa Intrusive rocks (Eocene to Late Cretaceous)—Mainly Eocene to Late Cretaceous granite, monzonite, granodiorite, and diorite; some Oligocene to Late Cretaceous peraluminous (two-mica and garnet-bearing) granite, includes Copper Creek Granodiorite.
  - TKv Volcanic and sedimentary rocks (Eocene to Upper Cretaceous)—Andesitic lava flows and breccia sheets, rhyolite tuff and welded tuff, and volcanoclastic sedimentary rocks.
  - TKa Andesite (Eocene to Late Cretaceous)—Plugs, dikes, and stocks.
  - TKv Rhyolite (Eocene to Late Cretaceous)—Plugs and dikes.
  - TKa Sedimentary and volcanic rocks, undivided (Upper Cretaceous)—Volcanoclastic conglomerate, sandstone, lacustrine shale, and some andesitic and rhyolitic tuff.
  - Kr Rhyolite (Upper Cretaceous)—Lava flows, tuffs, and interbedded conglomerate, sandstone, and shale.
  - Kr Rhyolite tuff (Upper Cretaceous)—Includes aerial and ash-fall tuffs, tuff breccia, welded tuff, and sedimentary rocks.
  - Kr Rhyolite lava flows (Upper Cretaceous)—Includes some tuff and sedimentary rocks.
  - Ka Andesite (Upper Cretaceous)—Lava flows, breccia sheets, and interbedded conglomerate and sandstone.
  - Kb Babbler Group (Lower Cretaceous)—Mainly gray shale and siltstone, and some sandstone, conglomerate, and limestone.
  - Kba Basaltic andesite and andesite (Lower Cretaceous)—Lava flows, cinder deposits, and some dikes, sills, and plugs.
  - Kba Bathurst and Temporal Formations, undivided (Lower Cretaceous)—Andesite to rhyolitic rocks, conglomerate, and sandstone.
  - Jp Intrusive rocks (Jurassic)
  - Jr Granite stocks
  - Jv Volcanic and sedimentary rocks (Jurassic to Upper Triassic)—Rhyolite welded tuff and lava flows, andesitic lava flows, eolian sandstone, and redbeds. Includes Walnut Gap Formation, Catalina Hills Volcanics, and Gadsden Canyon and Mount Wheeler Formations.
  - BYm Metamorphic rocks (Paleozoic or Middle Proterozoic)—Metacrystalline hornfels and calc-silicate carbonate rocks.
  - PPh Naco Group (Lower Permian and Pennsylvanian)—Mainly limestone and dolomite; some siltstone, sandstone, and marlstone.
  - Ms Sedimentary rocks (Mississippian)—Generally only Escalante Limestone to the east; unit also includes Paradise Formation, mostly shale.
  - Pl Lower Paleozoic formations, undivided (Upper Devonian to Middle Cambrian)—Mainly limestone and dolomite; some sandstone, shale, and conglomerate. Includes Paria Shale, Fort, Swanton, Martin, El Paso, and Arago Formations, Coronado Sandstone, and Bola Quartzite.
  - Yd Diabase (Middle Proterozoic)—Includes some metadiorite; in sills, dikes, and plugs; line shows more acidic rock.
  - Ya Apache Group (Middle Proterozoic)—Sandstone, shale, argillite, some conglomerate, and possibly some limestone.
  - Yp Intrusive rocks (Middle Proterozoic)—Granite, granodiorite, and some andesite, aplite, and leucophrase.
  - Ym Gneissic rocks (Middle and Early Proterozoic)—Metamorphosed granite and older schist or gneiss.
  - Xp Plinal Schist (Early Proterozoic)—Schist, phyllite, metaquartzite, metagraywacke, and meta-spicous rocks.

- Contact—Dotted where concealed, queried where uncertain.
- Fault—Showing dip; dotted where concealed or intruded, queried where uncertain. Where solid line becomes dotted line within a map unit, that unit is a composite of several formations, of which a younger one conceals faulting in an older one.
- Normal fault—Ball and bar on downthrown side; dotted where concealed, queried where uncertain.
- Thrust fault—Sawtooth on upper plate.
- Glide fault—Open sawtooth on glide plate.
- Complex fault—Earlier thrust fault on which later glide (glide) faulting took place.
- Strike-slip fault—Arrow-scope shows relative movement; queried where uncertain.
- Oblique-slip fault—Composite of strike-slip and normal movement likely, but either type of movement may have occurred without the other.
- Fold axis—Dotted where concealed; arrow shows direction of plunge.
- Anticline in foliation.
- Overturned anticline—Side of closure of arrow ends is side of fold crest relative to fold axis.
- Syncline.
- Syncline in foliation.
- Overturned syncline—Side of closure of arrow ends is side of fold trough relative to fold axis.
- Strike and dip of beds.
- Horizontal.
- Inclined.
- Vertical.
- Overturned.
- Strike and dip of foliation.
- Inclined.
- Vertical.
- Cinder cone—Queried where uncertain.



INDEX MAP SHOWING LOCATION OF CORONADO NATIONAL FOREST (GRAY AREAS). Forest units shown on this plate are dark gray.

EXPLANATION OF GEOCHEMICAL DATA

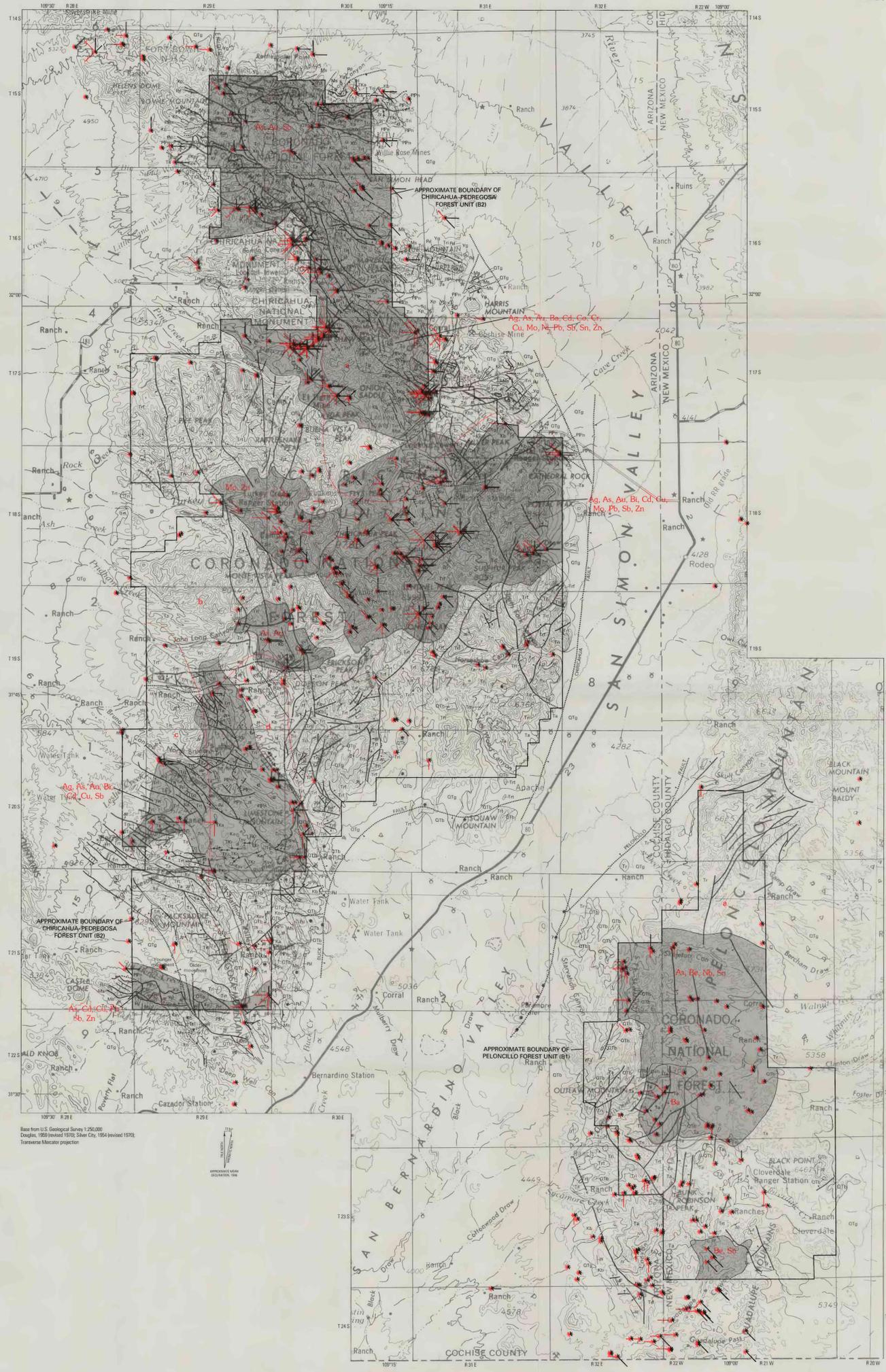
Vector diagram showing range of abundances for eight elements—Shortest vector indicates an abundance equivalent to background; longest vector indicates an anomalous abundance. Ranges given in table below; see chapter C, table 2, for threshold values. N, not detected at abundance shown; L, detected below abundance shown; G, greater than abundance shown. Geochimically anomalous area discussed in text—Areas labeled as (borderline in red) are subareas of Forest unit discussed in text as C1, D2e, and so on.

(C1) Forest unit discussed in text

CONCENTRATION (PARTS PER MILLION)			
	Background values	High background values at or near threshold	Anomalous value
Au	NI(0.02)-L(0.002)	0.002	0.003-4.6
Ag	NI(0.05)-0.11	0.12-0.16	0.17-24
As	NI(0.8)-5.9	6.0-7.9	8.0-400
Sb	NI(0.6)-1.1	1.2-1.6	1.7-250
Cu	1.7-39	40-59	60-61(1,000)
Pb	4.2-59	60-79	80-10,000
Zn	4.3-59	60-79	80-61(1,000)
Mo	NI(0.8)-1.6	1.7-2.6	2.7-150

INTRODUCTION

These maps show the distribution of sample localities for abundances (determined by inductively coupled plasma spectroscopy), except Au, determined by flameless atomic absorption spectroscopy) of Au, Ag, As, Cu, Mo, Pb, Sb, and Zn in RASS and NIRE stream-sediment and soil samples from the Dragon Forest unit (area C) and the Peloncillo and Chiricahua-Pedregosa Forest units (area B) of Coronado National Forest and adjacent areas, southeastern Arizona and southwestern New Mexico. Areas outlined along drainage divides, in most cases on the map indicate regions in which elements having anomalous (or, in some cases, high) abundances form patterns (geochemical signatures). Anomalous regions outlined on the map are based largely on data for the elements and sample media described above but may have been modified in light of emission-spectrographic data for stream-sediment and paired-concentrate samples (see plate 5); the elements that characterize the geochemical signature in each region are indicated. Some elements, such as chromium, nickel, and strontium, whose abundances are lithologically controlled, are not included with the data shown on the map unless they appear to be part of a signature related to mineralized rock.



Peloncillo and Chiricahua-Pedregosa Forest units

Based on U.S. Geological Survey 1:250,000  
Douglas, 1959 (revised 1970); Silver City, 1954 (revised 1970);  
Transverse Mercator projection.