



Arizona Department of Mines and Mineral Resources

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SERVICES OF THE DEPARTMENT TO POTENTIAL PURCHASERS OF ARIZONA MINERAL COMMODITIES

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The Arizona Department of Mines and Mineral Resources is a nonregulatory agency charged by statute with a number of duties. Among them are:

- Aid in the promotion and development of the mineral resources of the State.
- Assist in discovering sources of supply for those desiring to purchase mineral commodities.
- Provide listings of knowledgeable private professional geological and engineering services.
- Assist in determining the existence and viability of those who claim to be able to mine and supply mine products.
- Guide in obtaining permits from regulatory agencies.

The agency is staffed with mining engineers knowledgeable in the fields of metal and industrial mineral deposits, prospecting, mine development, marketing, mineral economics and government regulations. The services of the department are free of charge.

Specific ways in which the department may assist buyers and potential buyers (consumers, suppliers and brokers) of mineral commodities from Arizona include:

- Obtaining samples of minerals and mineral products.
- Refer to sources of supply.
- Recommend exploration targets.

The following table lists mineral commodities currently and historically produced (as of 2000) in Arizona. Those with known large resources or reserves are noted in the "Known Resource" column. Some are only identified occurrences in need of further investigation, others exist in sizable deposits.

The Department maintains historical and current information on over 10,000 Arizona mines, prospects, and related processing facilities. A large library on mineral resources is maintained. The staff is available to answer questions and discuss any aspect of mineral resources in Arizona.

Mineral commodities produced in Arizona

| Known Resource | Production | Commodity |
|----------------|------------|---|
| | | Alunite |
| | | Antimony |
| | | Arsenic |
| yes | historic | Asbestos |
| | historic | Barite |
| yes | historic | Basalt |
| yes | current | Bentonite clay |
| | historic | Beryllium (beryl) |
| | historic | Bismuth |
| | | Bloating shale |
| | current | Brucite |
| yes | | Carbon dioxide |
| yes | current | Cement |
| | current | Clays (fire clay, common clay, adobe), Also see specific mineral varieties |
| yes | current | Coal |
| | | Cobalt |
| yes | current | Copper |
| yes | historic | Diatomaceous earth |
| yes | current | Dolomite |
| yes | historic | Feldspar |
| yes | historic | Fluorspar |
| | | Garnet (industrial) |
| | current | Gemstones (turquoise, petrified wood, peridot (olivine), chrysocolla, malachite, agate, opal, jade) |
| yes | current | Gold |
| yes | current | Granite (crushed) |
| | | Graphite |
| | historic | Guano |
| yes | current | Gypsum |
| | current | Hectorite clay |
| yes | historic | Helium |
| yes | historic | Iron |
| | historic | Kyanite |
| | current | Lead |
| | current | Lime |
| yes | current | Limestone (dimension stone, stack scrubbing, metallurgical, ground calcium carbonate) |
| | historic | Lithium |
| | | Magnesite |
| | historic | Magnetite |
| yes | historic | Manganese |
| yes | current | Marble (crushed and ground calcium carbonate) |
| | historic | Mercury |
| | current | Methane |

| Known Resource | Production | Commodity |
|----------------|------------|---|
| yes | current | Mica |
| yes | current | Molybdenum (also ferro-molybdenum) |
| | | Nickel |
| | historic | Niobium (columbium) |
| | current | Oil, crude |
| | current | Onyx |
| | current | Palladium |
| yes | current | Perlite |
| | current | Platinum |
| yes | | Potash |
| yes | current | Pozzolan |
| yes | current | Pumice |
| | historic | Pyrite |
| | | Pyrophyllite |
| | historic | Quartz (ground silica) |
| yes | historic | Quartzite |
| yes | current | Rhenium |
| | current | Rhyolite |
| yes | current | Salt (sodium chloride) |
| | current | Sand (industrial - hydraulic fracture) |
| | | Sand (specialty-glass, quartz, foundry) |
| yes | current | Sand and gravel (aggregate) |
| | current | Sandstone (dimension stone) |
| | current | Saponite clay |
| yes | current | Schist (dimension stone) |
| yes | current | Scoria (volcanic cinders) |
| | current | Selenium |
| yes | current | Silica (metallurgical flux) |
| | | Sillimanite |
| yes | current | Silver |
| | historic | Sodium sulfate |
| | | Strontium |
| yes | current | Sulfuric acid (from copper sulfides) |
| yes | | Titanium |
| yes | historic | Tuff |
| | historic | Tungsten |
| yes | historic | Uranium |
| | historic | Vanadium |
| | | Vermiculite |
| yes | current | Zeolites (chabazite, clinoptilolite, mordenite) |
| yes | historic | Zinc |