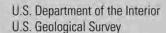
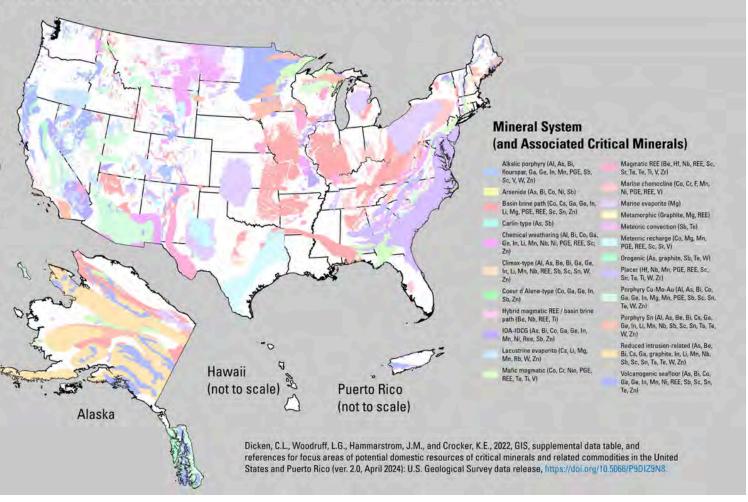


Areas with Potential to Host Subsurface Critical Minerals

Through the Earth Mapping Resources Initiative, USGS brings together federal and state experts to:

- Identify areas with mineral systems that might contain critical minerals and collect focused data within these areas
- Accelerate critical mineral resource assessments
- Show States, resource managers and developers where emerging mineralsdependent technologies may create economic opportunities

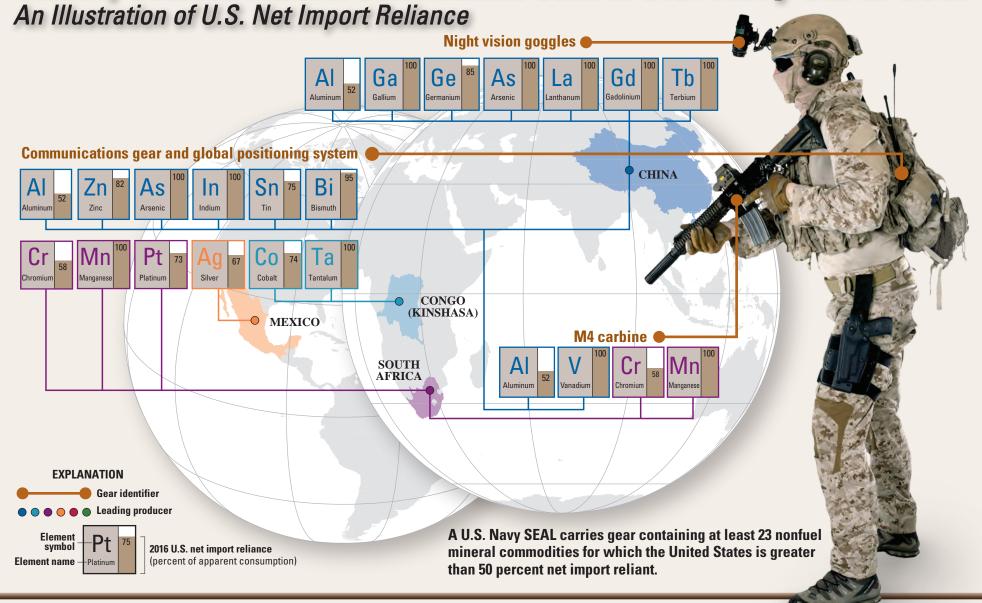


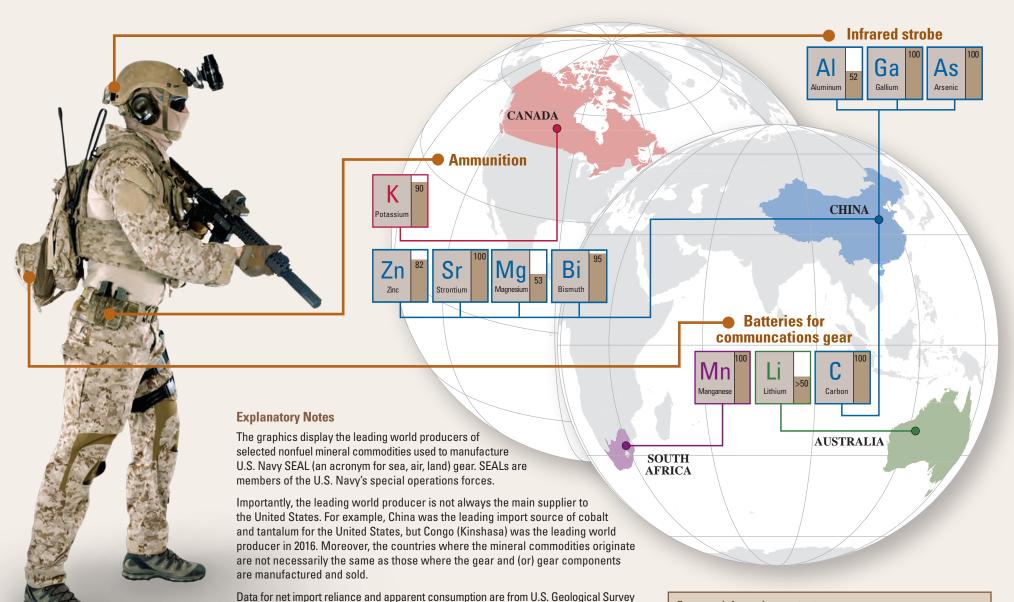


Original Thumbnail Medium



Globally Sourced Mineral Commodities Used In U.S. Navy SEAL Gear





Prepared by

Jamie Brainard, Nedal T. Nassar, Joseph Gambogi, Michael S. Baker, and Michael T. Jarvis.

Photographs of the U.S. Navy SEALs are courtesy of the U.S. Navy.

Reference Cited

U.S. Geological Survey, 2017, Mineral commodity summaries 2017: U.S. Geological Survey, 202 p. (Also available at https://doi.org/10.3133/70180197.)

(2017), where definitions of these terms can also be found. Only mineral commodities

The U.S. net import reliance for lithium was greater than 50 percent in 2016, but the

actual percentage is withheld to avoid disclosing company proprietary production

information. Carbon refers to natural graphite, magnesium refers to magnesium

compounds (rather than magnesium metal), and potassium refers to potash.

with a U.S. net import reliance of greater than 50 percent in 2016 are included.

For more information contact:

Director, National Minerals Information Center

U.S. Geological Survey 12201 Sunrise Valley Drive 988 National Center Reston, VA 20192

Email: nmicrecordsmgt@usgs.gov

Or visit the USGS National Minerals Information Center website at https://minerals.usgs.gov/minerals/

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2025 DRAFT LIST OF CRITICAL MINERALS

THE LIST OF CRITICAL MINERALS INFORMS:



USGS METHODOLOGY

MINERAL COMMODITIES

Commodities are grouped into supply chains



ARE THE IMPACTS OF TRADE DISRUPTIONS ON THE US ECONOMY SIGNIFICANT?

> **Economic Effects** Assessment

INDUSTRIES

Scenario Probabilities Assessment

TRADE DISRUPTION **SCENARIOS**

RISK CATEGORIZATION

of a scenario **x** of the **=** probability occurring scenario woich:

If **RISK** is High, Elevated, or Moderate VISTED

If **RISK** is Limited, Negligible, or Negative

> IS THERE A SINGLE DOMESTIC PRODUCER FOR THAT MINERAL?

✓ LISTED

MINERALS IN FOCUS







CRITICAL MINERALS Ranked by Risk Classification

High Samarium Rhodium

Lutetium

<u>Terbium</u>

Dysprosium

Gallium

<u>Germanium</u> Gadolinium

Tungsten

Niobium

Magnesium

Yttrium

Potash Hafnium

Aluminum

Thulium

Neodymium

Silicon Antimony

Barite

Graphite

Indium

Vanadium

Palladium Manganese

Lanthanum

Praseodymium

Titanium

Copper

Platinum

Ruthenium Zinc <u>Iridium</u>

Cobalt Erbium Chromium Silver Tin

Bismuth Nickel **Tantalum**

Holmium Fluorspar

Lithium

Rhenium Cerium

Lead

Beryllium Europium Ytterbium

Elevated

Moderate

Single Point of Failure Zirconium

Qualitatively

Cesium Rubidium Scandium





