Figure 1: 2018 list of critical minerals, as defined by Executive Order 1381

Critical Mineral Commodity	Sectors						Top Producer Globally	Top U.S. Supplier	Notable Example Application
	Aerospace (non-defense)	Defense	Energy	Telecommunications & electronics	Transportation (non-aerospace)	Other			
Aluminum	Х	Х	х	Х	Х	Х	China	Canada	Aircraft, power transmission lines, lightweight alloys
Antimony		Χ	x	х	Х	Χ	China	China	Lead-acid batteries
Arsenic		Х	х	х		х	China	China	Microwave communications (gallium arsenide)
Barite			Х	Х			China	China	Oil and gas drilling fluid
Beryllium	х	Х	Х	х		Х	United States	Kazakhstan	Satellite communications, beryllium metal for aerospace
Bismuth		Χ	х	x		Х	China	China	Pharmaceuticals, lead-free solders
Cesium and rubidium	Х	Х	х	Х		Х	Canada	Canada	Medical applications, global positioning satellites, right-vision devices
Chromium	Х	Х	х	х	Х	X	South Africa	South Africa	Jet engines (superalloys), rechargeable batteries
Cobalt	Х	Х	х	Х	Х	Х	Congo (Kinshasa)	Norway	Jet engines (superalloys), stainless steel
Fluorspar			х	Х		Х	China	Mexico	Aluminum and steel production, uranium processing
Gallium	Х	Х	x	х		Х	China	China	Radar, light-emitting diodes (LEDs), cellular phones
Germanium	Х	Х	Х	Х		Х	China	China	Infrared devices, fiber optics
Graphite (natural)	Х	Χ	х	Х	Х	Х	China	China	Rechargeable batteries, body armor
Helium				х		X	United States	Qatar	Cryogenic [magnetic resonance imaging (MRI)]
Indium	Х	Х	х	х		Х	China	China	Flat-panel displays (indium-tin-oxide), specialty alloys
Lithium	Х	Х	х	х	х	Х	Australia	Chile	Rechargeable batteries, aluminum- lithium alloys for aerospace
Magnesium	Х	Х	Х	Х	Х	Х	China	Israel	Incendiary countermeasures for aerospace

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Critical Mineral Commodity	Sectors						Top Producer Globally	Top U.S. Supplier	Notable Example Application
	Aerospace (non-defense)	Defense	Energy	Telecommunications & electronics	Transportation (non-aerospace)	Other			
Manganese	Х	Х	х	х	х	Х	China	South Africa	Aluminum and steel production, lightweight alloys
Niobium	Х	Х	х	х		Х	Brazil	Brazil	High-strength steel for defense and infrastructure
Platinum group metals	Х		х	х	х	Х	South Africa	South Africa	Catalysts, superalloys for jet engines
Potash			Х	х		Х	Canada	Canada	Agricultural fertilizer
Rare earth elements	Х	Х	х	Х	Х	Х	China	China	Aerospace guidance, lasers, fiber optics
Rhenium	Х		Х	х		Х	Chile	Chile	Jet engines (superalloys), catalysts
Scandium	Х	Χ	х	х		Х	China	China	Lightweight alloys, fuel cells
Strontium	Х	Х	х	х	х	Х	Spain	Mexico	Aluminum alloys, permanent magnets, flares
Tantalum	Х	Х	Х	Х		Х	Rwanda	China	Capacitors in cellular phones, jet engines (superalloys)
Tellurium		Х	Х	х		Х	China	Canada	Infrared devices (night-vision), solar cells
Tin		Х		Х		Х	China	Peru	Solder, flat-panel displays (indium-tin- oxide)
Titanium	Х	X	х	х		X	China	South Africa	Jet engines (superalloys) and airframes (titanium alloys), armor
Tungsten	х	х	Х	х		Х	China	China	Cutting and drilling tools, catalysts, jet engines (superalloys)
Uranium	Х	Х	х			Х	Kazakhstan	Canada	Nuclear applications, medical applications
Vanadium	Х	Х	х	х		Х	China	South Africa	Jet engines (superalloys) and airframes (titanium alloys), high-strength steel
Zirconium and hafnium	х	Х	Х	Х		Х	Australia	China	Thermal barrier coating in jet engines, nuclear applications