

C87

**UNITED STATES
 DEPARTMENT OF THE INTERIOR
 U.S. GEOLOGICAL SURVEY
 986 NATIONAL CENTER
 RESTON, VIRGINIA 20192**

**INDIVIDUAL COMPANY
 DATA - PROPRIETARY**

RARE EARTHS

Unless authorization is granted in the section above the signature, the data furnished in this report will be treated in confidence by the Department of the Interior, except that they may be disclosed to Federal defense agencies, or to the Congress upon official request for appropriate purposes. Unless objection is made in writing to the USGS, the information furnished in this report may be disclosed to the respondent's State Geological Survey (or similar State Agency) if the State has appropriate safeguards to prevent disclosing company proprietary data.

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 └ (Please correct if name or address has changed.)

**FACSIMILE NUMBER
 1-800-543-0661**

Public voluntary reporting burden for this collection of information is estimated to average 1 HOUR per response. A Federal agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. Comments regarding this collection of information should be directed to: U.S. Geological Survey, Statistics and Information Systems Section, 988 National Center, Reston, VA 20192.

Collection of nonfuel minerals information is authorized by Public Law 96-479 and the Defense Production Act. This information is used to support executive policy decisions pertaining to emergency preparedness, national defense, and analyses for minerals legislation and industrial trends. The USGS relies on your voluntary and timely response to assure that its information is complete and accurate. Please return this form in the enclosed envelope or fax to the above toll-free number **BY JANUARY 31**. Complete a separate form for each mineral establishment that was active during the reporting period. A mineral establishment is defined as a single physical location where mineral operations are conducted; for example, a mine only, a mine and preparation plant, or a preparation plant only. If you do not have exact data, please enter your best estimates and mark with an /e. Use zero (0) when appropriate. Do not report decimals or fractions. Round to the nearest whole number. If you have nothing to report, please sign and return the form. Please do not make entries in shaded areas. Please use the space for "Remarks" to provide any specific information that will help us in the use or interpretation of the data. Additional forms are available upon request.

If you have any questions concerning completion of this form, please contact the Mineral Commodities Data Unit, U.S. Geological Survey, 985 National Center, Reston, VA 20192, Telephone (703) 648-7960.

1. Stocks, production, receipts, and disposition of rare earths.

Material (1)	Code	Weight unit Mark (X) one (2)				Average REO content (3)	Beginning stocks (4)	Imports (5)	Domestic receipts (6)	Production (7)	Consumption (8)	Shipments to consumers		Ending stocks (11)
		Pounds	Kilograms	Tons								U.S. (9)	Exports (10)	
				Short	Metric									
Bastnasite.....	101													
Monazite.....	102													
Xenotime.....	105													
Eudialyte.....	106													
Britholyte.....	107													
Ancylite.....	108													
Allanite.....	109													
Churchite.....	110													
Ilmorite.....	111													
Kaisornite.....	112													
Fergusonite.....	113													
Apatite.....	114													
Other.....	103													
Other.....	104													

1. Stocks, production, receipts, and disposition of rare earths.

Material (1)	Code	Weight unit Mark (X) one (2)				Average REO content (3)	Beginning stocks (4)	Imports (5)	Domestic receipts (6)	Production (7)	Consumption (8)	Shipments to consumers		Ending stocks (11)
		Pounds	Kilograms	Tons								U.S. (9)	Exports (10)	
				Short	Metric									
Yttrium.....	115													
Fluoride.....	116													
Zirmax 30-35/1.....	117													

2. Countries of origin for IMPORTS as reported in Item 1, Column 5.

- | | | | | | |
|------------------------------------|----------------------------------|------------------------------------|-------------------------------------|---|--|
| <input type="checkbox"/> Australia | <input type="checkbox"/> China | <input type="checkbox"/> India | <input type="checkbox"/> Madagascar | <input type="checkbox"/> South Africa | <input type="checkbox"/> Other (specify) _____ |
| <input type="checkbox"/> Brazil | <input type="checkbox"/> Estonia | <input type="checkbox"/> Japan | <input type="checkbox"/> Malaysia | <input type="checkbox"/> Ukraine | _____ |
| <input type="checkbox"/> Canada | <input type="checkbox"/> France | <input type="checkbox"/> Kazakstan | <input type="checkbox"/> Russia | <input type="checkbox"/> United Kingdom | _____ |

3. Countries of destination for EXPORTS as reported in Item 1, Column 10.

- | | | | | | |
|------------------------------------|----------------------------------|------------------------------------|-------------------------------------|---|--|
| <input type="checkbox"/> Australia | <input type="checkbox"/> China | <input type="checkbox"/> India | <input type="checkbox"/> Madagascar | <input type="checkbox"/> South Africa | <input type="checkbox"/> Other (specify) _____ |
| <input type="checkbox"/> Brazil | <input type="checkbox"/> Estonia | <input type="checkbox"/> Japan | <input type="checkbox"/> Malaysia | <input type="checkbox"/> Ukraine | _____ |
| <input type="checkbox"/> Canada | <input type="checkbox"/> France | <input type="checkbox"/> Kazakstan | <input type="checkbox"/> Russia | <input type="checkbox"/> United Kingdom | _____ |

4. Rare earth.

Material (1)	Code	Weight unit Mark (X) one (2)				Average content (3)		Beginning stocks (4)	Imports (5)	Domestic receipts (6)	Production (7)	Consumption (8)	Shipments to consumers		
		Pounds	Kilograms	Tons		REO	RE Metal						U.S. (9)	Exports (10)	Ending stocks (11)
				Short	Metric										
Mixed compounds:															
Concentrate.....	701														
Chloride.....	702														
Carbonate.....	703														
Nitrate.....	704														
Inorganic rare-earth compounds...	707														
Organic rare-earth compounds.....	708														
Fluoride.....	709														
Hydroxide.....	710														
Oxide.....	760														
Sulfate.....	761														
Rare-earth garnet: (specify formula) _____	762														
Other.....	705														
Other.....	706														
Inorganic purified compounds:															
Lanthanum.....	711														
Cerium.....	712														
Praseodymium.....	713														
Neodymium.....	714														
Samarium.....	715														
Europium.....	716														
Gadolinium.....	717														

4. Rare earth. (continued)

Material (1)	Code	Weight unit Mark (X) one (2)				Average content (3)		Beginning stocks (4)	Imports (5)	Domestic receipts (6)	Production (7)	Consumption (8)	Shipments to consumers		
		Pounds	Kilograms	Tons		REO	RE Metal						U.S. (9)	Exports (10)	Ending stocks (11)
				Short	Metric										
Terbium.....	718														
Dysprosium.....	719														
Holmium.....	720														
Erbium.....	721														
Thulium.....	722														
Ytterbium.....	723														
Lutetium.....	724														
Ytrium.....	725														
Other.....	726														
Other.....	727														
Organic purified compounds:															
Lanthanum.....	770														
Cerium.....	771														
Praseodymium.....	772														
Neodymium.....	773														
Samarium.....	774														
Europium.....	775														
Gadolinium.....	776														
Terbium.....	777														
Dysprosium.....	778														
Holmium.....	779														
Erbium.....	780														
Thulium.....	781														
Ytterbium.....	782														
Lutetium.....	783														
Ytrium.....	784														
Other.....	785														
Mixed metals:															
Mischmetal.....	731														
Rare-earth silicide.....	732														
Rare-earth metal (specify formula) _____	735														
Mixed metal rare-earth alloy (specify formula) _____	736														
Didymium.....	737														
Lanthanum silicide.....	738														

4. Rare earth. (continued)

Material (1)	Code	Weight unit Mark (X) one (2)				Average content (3)		Beginning stocks (4)	Imports (5)	Domestic receipts (6)	Production (7)	Consumption (8)	Shipments to consumers		
		Pounds	Kilograms	Tons		REO	RE Metal						U.S. (9)	Exports (10)	Ending stocks (11)
				Short	Metric										
Cerium silicide.....	739														
Other.....	733														
Other.....	734														
Purified metals: Lanthanum.....	741														
Cerium.....	742														
Praseodymium.....	743														
Neodymium.....	744														
Samarium.....	745														
Europium.....	746														
Gadolinium.....	747														
Terbium.....	748														
Dysprosium.....	749														
Holmium.....	750														
Erbium.....	751														
Thulium.....	752														
Ytterbium.....	753														
Lutetium.....	754														
Yttrium.....	755														
Radioactive isotopes (specify type and formula) _____	758														
Other.....	756														
Other.....	757														

5. Quantity of shipments to consumers by use.

	Code	REO equiv. compounds		RE metal content gross weight			Code	REO equiv. compounds		RE metal content gross weight	
		ST <input type="checkbox"/>	MT <input type="checkbox"/>	ST <input type="checkbox"/>	MT <input type="checkbox"/>			ST <input type="checkbox"/>	MT <input type="checkbox"/>	ST <input type="checkbox"/>	MT <input type="checkbox"/>
Petroleum catalysts.....	801					Electronic.....	821				
Automotive catalysts.....	802					Ceramics, sensors, other.....	828				
Catalysts, other.....	803					Chemical processing.....	829				
Alloys, aerospace.....	804					Medical and pharmaceutical....	835				
Alloys, permanent magnets.....	808					Pigments, paints.....	836				
Alloys, other.....	809					Nuclear applications.....	837				
Phosphors.....	810					Water treatment.....	838				
Lighting, non-phosphor.....	812					Other.....	830				
Polishing compounds.....	813					Other.....	831				
Lasers.....	815										

Remarks:

Name of person to be contacted regarding this report			Tel. area code	No.	Ext.
Address	No.	Street	City	State	ZIP Code
May tabulations be published which could indirectly reveal the data reported above? <input type="checkbox"/> (1) Yes <input type="checkbox"/> (2) No					
Signature			Title	Date	