GEMSTONES¹

(Data in million dollars, unless noted)

<u>Domestic Production and Use</u>: Output of natural gemstones was primarily from Tennessee, Alabama, Arkansas, North Carolina, Oregon, and Arizona. Output of synthetic gemstones was primarily from 14 firms; 4 in Arizona, 3 in California, and 1 each in Massachusetts, Michigan, New Jersey, New Mexico, North Carolina, Ohio, and Washington. It was estimated that visitors found 185 carats of diamonds in the Crater of Diamonds State Park in Arkansas. There was considerable production of freshwater pearls in Tennessee; turquoise in Arizona and Nevada; beryl, tourmaline, and amethyst in Maine; tourmaline, beryl, kunzite, and garnet in California; and sapphire in Montana. Major uses were jewelry, carvings, and gem and mineral collections.

Salient Statistics—United States:	<u>1991</u>	1992	<u>1993</u>	1994	1995 ^e
Production: Natural ²	84.4	66.2	57.7	50.5	75.5
Synthetic	17.9	18.9	18.1	22.2	24.4
Imports for consumption	4,640	4,950	5,850	6,440	6,520
Exports, including reexports	1,710	1,450	1,630	2,240	2,510
Consumption, apparent	3,030	3,480	4,300	4,270	4,110
Price	Varia	ble, depen	ding on size	e, type, and	l quality
Stocks, yearend ³	NA	NÁ	NA	NA	NA
Employment, mine ⁴	800	800	1,000	1,000	850
Net import reliance⁵ as a percent					
of apparent consumption	97	98	98	98	98

Recycling: Insignificant.

<u>Import Sources (1991-94 by value)</u>: Israel, 28%; India, 25%; Belgium, 15%; United Kingdom, 5%; and other, 27%. Diamond imports were about 90% of the total value of gem imports.

Tariff: Item	Number	Most favored nation (MFN) 12/31/95	Non-MFN ⁶ 12/31/95
Diamonds, unworked or sawn	7102.31.0000	Free	Free.
Diamond, less than ½ carat	7102.39.0010	Free	10% ad val.
Diamond, cut, more than ½ carat	7102.39.0050	Free	10% ad val.
Precious stones, unworked	7103.10.2000	Free	Free.
Precious stones, simply sawn	7103.10.4000	21% ad val.	50% ad val.
Rubies, cut	7103.91.0010	Free	10% ad val.
Sapphires, cut	7103.91.0020	Free	10% ad val.
Emeralds, cut	7103.91.0030	Free	10% ad val.
Other precious, cut but not set	7103.99.1000	2.1% ad val.	10% ad val.
Other precious stones, other	7103.99.5000	21% ad val.	50% ad val.
Imitation precious stones	7018.10.2000	2.8% ad val.	20% ad val.
Synthetic cut, but not set	7104.90.1000	3.1% ad val.	10% ad val.
Pearls, natural	7101.10.0000	Free	10% ad val.
Pearls, cultured	7101.21.0000	2.1% ad val.	10% ad val.
Pearls, imitation not strung	7018.10.1000	8% ad val.	60% ad val.

Depletion Allowance: 14% (Domestic), 14% (Foreign).

<u>Government Stockpile</u>: The National Defense Stockpile (NDS) does not contain an inventory of gemstones per se. However, portions of the industrial diamond inventory are of near-gem or gem quality. Additionally, the beryl and quartz inventories contain some gem-quality materials and the inventory of synthetic ruby and sapphire could be used by the gem industry. The Defense Logistics Agency is currently disposing of materials from the NDS.

GEMSTONES

Events, Trends, and Issues: In the past, except for a few gem diamonds found each year in Arkansas, U.S. diamond production was insignificant. However, test mining is underway at two mines in the Colorado-Wyoming Stateline district. Domestic commercial gemstone production includes agates, beryls, freshwater pearls, garnets, jade, jasper, mother-of-pearl, opals, peridot, quartz, sapphire, tourmalines, and turquoise. Significant steps are being made in the marketing of lines of jewelry made with U.S. gemstones.

Exploration for diamonds continues in Alaska, Colorado, Michigan, Minnesota, Wisconsin, and Wyoming. The second phase of the diamond exploration project, bulk sampling, at the Crater of Diamonds State Park in Arkansas has been approved. Significant diamond exploration efforts by multiple companies continued in the Northwest Territories of Canada and in several areas in Australia.

World Mine	Production.7	Reserves	and Reserv	A Rasa
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	Mine production		Reserves and reserve base ⁸	
	<u>1994</u>	<u>1995</u> °		
United States		_	World reserves and reserve	
Angola	270	300	base of gem diamond are	
Australia	19,500	20,000	substantial. No reserves or	
Botswana	11,000	11,000	reserve base data are	
Brazil	600	600	available for other gem-	
Central African Republic	370	400	stones.	
China	230	250		
Ghana	580	600		
Namibia	1,280	1,300		
Russia	8,500	8,500		
Sierra Leone	155	200		
South Africa	5,000	5,000		
Venezuela	220	200		
Zaire	4,000	4,000		
Other countries	<u>5,230</u>	5,300		
World total (rounded)	56,900	57,700		

<u>World Resources</u>: Most of the world gem diamond reserves are in southern Africa, Russia, and Western Australia. Estimation of a reserve base is now difficult to determine because of the changing economic evaluation of near-gem materials and new discoveries in Australia, Canada, and Russia.

<u>Substitutes</u>: Plastics, glass, metals, wood, paper, and other materials are substituted for gemstones. Synthetic materials that have the same appearance and chemical and physical properties are substituted for natural gemstones. Simulants are materials of similar appearance, but with different chemical and physical properties, that are substituted for natural gemstones.

^eEstimated. NA Not available.

¹Excludes industrial diamond and garnet. See Diamond (Industrial) and Garnet (Industrial).

²Natural includes production of freshwater pearls, natural and cultured.

³Stocks data are not available and are assumed to be zero for apparent consumption and net import reliance calculation.

⁴Estimate includes operators of fee site deposits.

⁵Defined as imports - exports + adjustments for Government and industry stock changes.

⁶See Appendix B.

⁷Data in thousands of carats of gem diamond.

⁸See Appendix C for definitions.