PUMICE AND PUMICITE

(Data in thousand metric tons, unless otherwise noted)

<u>Domestic Production and Use</u>: The estimated value of pumice and pumicite sold or used in 2000 was \$28 million. Domestic output came from 15 producers in 6 States. The principal producing States were California, Idaho, New Mexico, and Oregon, with combined production accounting for about 94% of the national total. The remaining production was from Arizona and Kansas. About 66% of the pumice was consumed for building blocks, and the remaining 34% was used in abrasives, concrete, stone-washing laundries, and other applications.

Salient Statistics—United States:	<u> 1996</u>	<u> 1997</u>	<u> 1998</u>	<u> 1999</u>	<u>2000</u> °
Production, mine ¹	612	577	583	643	749
Imports for consumption	215	265	286	354	390
Exportse	13	12	22	23	25
Consumption, apparent	814	830	847	974	1,110
Price, average value, dollars per ton, f.o.b.					
mine or mill	24.19	27.90	21.59	27.69	37.38
Stocks, yearend	NA	NA	NA	NA	NA
Employment, mine and mill, number	70	70	75	85	85
Net import reliance ² as a percent of					
apparent consumption	25	30	31	34	33

Recycling: Not available.

Import Sources (1996-99): Greece, 88%; Turkey, 5%; Ecuador, 3%; Italy, 3%; and other, 1%.

Tariff: Item Number Normal Trade Relations
12/31/00

Crude or in irregular pieces,
including crushed pumice 2513.11.0000 Free.
Other 2513.19.0000 Free.

Depletion Allowance: 5% (Domestic and foreign).

Government Stockpile: None.

PUMICE AND PUMICITE

Events, Trends, and Issues: The amount of pumice and pumicite sold or used in 2000 increased about 16% when compared with that of 1999. Imports increased over 10% compared with those of 1999 as more Greek pumice was brought into the eastern half of the United States. Total consumption reached a record level since pumice and pumicite data were first published separately from volcanic cinder in 1978. Consumption increased because of increased demand from lightweight-block and lightweight-concrete producers. Stone-washing laundry use of pumice continued to decline in 2000.

The average price of pumice and pumicite increased significantly from 1999 to 2000 because of the inclusion of data from a newer operation and higher reported values from several traditional suppliers.

It is estimated that in 2001 domestic mine production of pumice and pumicite will be about 750,000 tons, with U.S. apparent consumption at approximately 1,100,000 tons. Imports, mainly from Greece, continue to maintain markets in the East Coast and Gulf Coast States of the United States.

Although pumice and pumicite were plentiful in the Western United States, changes in laws and public land designations could decrease access to many deposits. Pumice and pumicite were sensitive to mining costs, and, if domestic production costs were to increase, imports and competing materials might replace pumice in many domestic markets.

All domestic mining of pumice in 2000 was by open pit methods, and generally occurred in relatively remote areas where land use conflicts were not severe. Although the generation and disposal of reject fines in mining and milling resulted in a dust problem at some operations, the environmental impact was restricted to a small geographical area.

World Mine Production, Reserves, and Reserve Base:

	Mine production		Reserves ³	Reserve base ³	
	<u>1999</u>	<u>2000</u> °			
United States ¹	643	749	Large	Large	
Chile	600	650	ŇA	ŇA	
France	460	500	NA	NA	
Germany	600	600	NA	NA	
Greece	1,700	1,700	NA	NA	
Italy	4,600	4,600	NA	NA	
Spain	600	600	NA	NA	
Turkey	600	600	NA	NA	
Other countries	<u>1,800</u>	<u>1,800</u>	<u>NA</u>	<u>NA</u>	
World total (rounded)	11,600	11,800	NA	NA	

<u>World Resources</u>: The identified U.S. domestic resources of pumice and pumicite in the West are estimated to be at least 25 million tons. The estimated resources in the Western and Great Plains States are 250 million to 450 million tons.

<u>Substitutes</u>: Transportation cost determines the maximum distance that pumice and pumicite can be shipped and remain competitive with alternate materials. Competitive materials that can be substituted for pumice and pumicite for several end uses include expanded shale and clay, diatomite, and crushed aggregates.

^eEstimated. NA Not available.

¹Quantity sold and used by producers.

²Defined as imports - exports + adjustments for Government and industry stock changes.

³See Appendix C for definitions.