

HELIUM END-USE STATISTICS¹**U.S. GEOLOGICAL SURVEY**

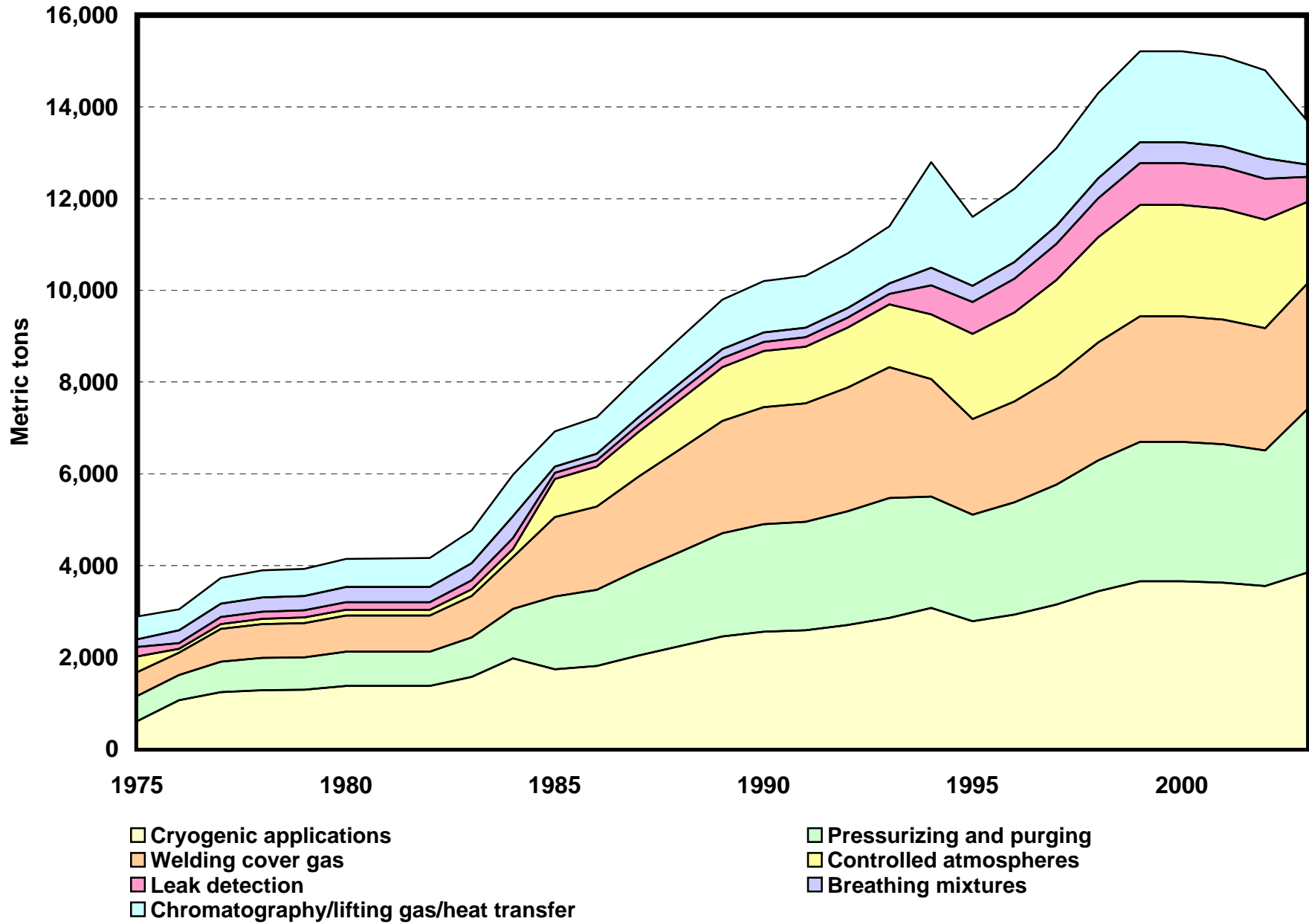
[Metric tons]

Last modification: September 15, 2005

Year	Cryogenic applications	Pressurizing and purging	Welding cover gas	Controlled atmospheres	Leak detection	Breathing mixtures	Chromatography/ lifting gas/heat transfer	Apparent consumption
1975	605	547	518	346	202	173	490	2,880
1976	1,060	547	486	91	122	274	456	3,040
1977	1,230	671	709	112	149	298	560	3,730
1978	1,280	700	739	117	156	311	584	3,890
1979	1,290	706	745	118	157	314	588	3,920
1980	1,370	745	787	124	166	331	621	4,140
1981	1,370	747	789	125	166	332	623	4,150
1982	1,370	749	790	125	166	333	624	4,160
1983	1,570	859	906	143	191	382	716	4,770
1984	1,970	1,080	1,130	179	239	478	896	5,970
1985	1,730	1,590	1,730	830	138	138	761	6,920
1986	1,810	1,660	1,810	868	145	145	795	7,230
1987	2,030	1,870	2,030	976	163	163	894	8,130
1988	2,240	2,060	2,240	1,080	179	179	987	8,970
1989	2,450	2,250	2,450	1,170	196	196	1,080	9,780
1990	2,550	2,350	2,550	1,220	204	204	1,120	10,200
1991	2,580	2,370	2,580	1,240	206	206	1,130	10,300
1992	2,700	2,480	2,700	1,300	216	216	1,190	10,800
1993	2,850	2,620	2,850	1,370	228	228	1,250	11,400
1994	3,070	2,430	2,560	1,410	640	384	2,300	12,800
1995	2,780	2,320	2,090	1,860	696	348	1,510	11,600
1996	2,930	2,440	2,200	1,950	732	366	1,590	12,200
1997	3,140	2,620	2,360	2,100	786	393	1,700	13,100
1998	3,430	2,860	2,570	2,290	858	429	1,860	14,300
1999	3,650	3,040	2,740	2,430	912	456	1,980	15,200
2000	3,650	3,040	2,740	2,430	912	456	1,980	15,200
2001	3,620	3,020	2,720	2,420	906	453	1,960	15,100
2002	3,550	2,960	2,660	2,370	888	444	1,920	14,800
2003	3,840	3,560	2,740	1,780	548	274	959	13,700

¹Compiled by G.R. Matos and J.B. Peterson.

End Uses of Helium



Helium End-Use Worksheet Notes

Data Source

The source of data for the helium end-use worksheet is the Minerals Yearbook, an annual collection, compilation, and analysis of mineral industry data, published by the U.S. Bureau of Mines and the U.S. Geological Survey.

End Use

End use is defined as the use of the mineral commodity in a particular industrial sector or product. For helium, the end-use categories are cryogenic applications, pressurizing and purging, welding cover gas, controlled atmospheres, leak detection, breathing mixtures, and chromatography/lifting gas/heat transfer.

Estimated domestic consumption by end use was based on a high purity use survey conducted by the U.S. Bureau of Land Management's Amarillo Field Office—Helium Operations to determine trends in helium usage. This survey is conducted in approximately 5-year intervals.

For the years 1975 through 1984, the category chromatography/lifting gas/heat transfer included other minor helium uses.

Data are rounded to no more than three significant digits; data may not add to totals shown.

References

U.S. Bureau of Mines, 1977–96, Minerals Yearbook, v. I, 1975–94.

U.S. Geological Survey, 1997–2005, Minerals Yearbook, v. I, 1995–2003.

Recommended Citation Format:

(1) If taken from CD version:

U.S. Geological Survey, [year of last update, e.g., 2005], [Mineral commodity, e.g., Gold] statistics, *in* Kelly, T.D., and Matos, G.R., comps., Historical statistics for mineral and material commodities in the United States: U.S. Geological Survey Data Series 140, one CD-ROM. (Also available online at <http://pubs.usgs.gov/ds/2005/140/>.)

(2) If taken from online version:

U.S. Geological Survey, [year of last update, e.g., 2005], [Mineral commodity, e.g., Gold] statistics, *in* Kelly, T.D., and Matos, G.R., comps., Historical statistics for mineral and material commodities in the United States: U.S. Geological Survey Data Series 140, available online at <http://pubs.usgs.gov/ds/2005/140/>. (Accessed [date].)

For more information, please contact:

[USGS Helium Commodity Specialist](#)