NITROGEN (FIXED)—AMMONIA STATISTICS[1]
U.S. GEOLOGICAL SURVEY
[All values in metric tons (t) nitrogen content unless otherwise noted]
Last modification: September 25, 2008

Year	Production	Imports	Exports	Stocks	Apparent consumption	Unit value ($/t)	Unit value (98$/t)	World production
1943	406,000		1,000		405,000			
1944	405,000		2,700		403,000			
1945	409,000	3,000	3,000		409,000			
1946	541,000	5,000	4,000		542,000			2,380,000
1947	831,000		4,000		827,000			3,330,000
1948	813,000	156,000	2,000		967,000			3,950,000
1949	965,000		1,000		964,000			4,560,000
1950	1,170,000		7,000		1,160,000	69.80	472	4,810,000
1951	1,330,000		5,000		1,320,000	72.00	451	5,240,000
1952	1,530,000		11,000		1,520,000	72.00	443	5,300,000
1953	1,710,000		11,300		1,690,000	78.40	479	6,450,000
1954	2,040,000		29,300		2,010,000	78.40	475	7,300,000
1955	2,430,000		33,000		2,390,000	77.00	468	8,070,000
1956	2,520,000	19,000	39,800		2,500,000	68.00	408	8,620,000
1957	2,780,000		50,700		2,730,000	76.10	441	9,270,000
1958	2,890,000		49,000		2,850,000	76.10	429	10,800,000
1959	3,370,000	40,000	63,000		3,350,000	77.90	436	11,800,000
1960	3,590,000		81,000		3,510,000	83.40	459	12,900,000
1961	3,890,000		76,000		3,810,000	83.40	455	14,000,000
1962	4,340,000		44,300		4,290,000	83.40	450	11,900,000
1963	4,990,000	13,000	56,100		4,950,000	83.40	444	17,100,000
1964	5,700,000	118,000	111,000	490,000	5,700,000	83.40	439	19,400,000
1965	6,620,000	152,000	138,000	519,000	6,600,000	83.40	432	21,800,000
1966	7,910,000	231,000	169,000	491,000	8,000,000	83.40	420	25,000,000
1967	9,100,000	330,000	323,000	1,390,000	8,210,000	76.10	371	28,700,000
1968	9,040,000	298,000	595,000	1,190,000	8,950,000	68.90	323	32,100,000
1969	9,540,000	333,000	835,000	983,000	9,240,000	45.30	201	35,900,000
1970	10,300,000	361,000	727,000	1,070,000	9,880,000	51.60	217	38,800,000
1971	10,900,000	344,000	369,000	1,240,000	10,700,000	50.70	204	41,100,000
1972	11,300,000	288,000	530,000	1,190,000	11,100,000	54.40	212	43,000,000
1973	11,300,000	246,000	672,000	640,000	11,500,000	77.00	283	46,700,000
1974	11,700,000	338,000	296,000	849,000	11,600,000	181	598	48,400,000
1975	12,200,000	601,000	262,000	1,540,000	11,900,000	168	509	49,500,000
1976	12,500,000	543,000	327,000	1,680,000	12,500,000	168	481	56,900,000
1977	13,200,000	802,000	314,000	2,060,000	13,400,000	118	317	62,000,000
1978	12,800,000	1,130,000	394,000	1,800,000	13,800,000	74.30	186	67,200,000
1979	13,900,000	1,450,000	587,000	1,630,000	14,900,000	118	265	71,100,000
1980	14,700,000	1,740,000	618,000	1,460,000	15,900,000	111	220	73,600,000
1981	14,200,000	1,560,000	459,000	1,900,000	14,900,000	120	215	77,000,000
1982	11,800,000	1,580,000	553,000	1,910,000	12,800,000	106	179	75,900,000
1983	10,200,000	1,970,000	270,000	1,410,000	12,400,000	161	263	80,400,000
1984	12,500,000	2,450,000	397,000	1,550,000	14,300,000	131	206	88,600,000
1985	12,900,000	2,090,000	916,000	1,630,000	14,000,000	98.30	149	91,000,000
1986	10,800,000	1,860,000	482,000	1,370,000	12,400,000	65.20	97.00	91,100,000
1987	12,000,000	2,140,000	769,000	955,000	13,800,000	86.10	124	95,100,000
1988	12,500,000	2,750,000	582,000	925,000	14,700,000	98.80	136	99,300,000
1989	12,300,000	2,860,000	346,000	849,000	14,900,000	94.20	124	99,300,000
1990	12,700,000	2,670,000	482,000	797,000	14,900,000	96.00	120	97,500,000
1991	12,800,000	2,740,000	580,000	936,000	14,800,000	106	127	93,800,000
1992	13,400,000	2,690,000	354,000	1,060,000	15,600,000	96.00	112	93,400,000
1993	12,600,000	2,660,000	378,000	852,000	15,000,000	110	124	91,600,000
1994	13,300,000	3,450,000	215,000	956,000	16,400,000	191	210	93,800,000

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Year	Production	Imports	Exports	Stocks	Apparent consumption	Unit value ($/t)	Unit value (98$/t)	World production
1995	13,000,000	2,630,000	319,000	959,000	15,300,000	173	185	100,000,000
1996	13,400,000	3,390,000	435,000	881,000	16,400,000	172	179	105,000,000
1997	13,300,000	3,530,000	395,000	1,530,000	15,800,000	157	159	103,000,000
1998	13,800,000	3,460,000	614,000	1,050,000	17,100,000	110	110	104,000,000
1999	12,900,000	3,890,000	562,000	996,000	16,300,000	98.80	97.00	107,000,000
2000	11,800,000	3,880,000	662,000	1,120,000	14,900,000	153	145	108,000,000
2001	9,120,000	4,550,000	647,000	261,000	13,200,000	166	153	105,000,000
2002	10,300,000	4,670,000	437,000	286,000	14,500,000	124	112	109,000,000
2003	8,450,000	5,720,000	400,000	195,000	13,900,000	222	197	110,000,000
2004	8,990,000	5,900,000	381,000	298,000	14,400,000	248	214	117,000,000
2005	8,340,000	6,520,000	525,000	254,000	14,400,000	275	230	123,000,000
2006	8,190,000	5,920,000	194,000	170,000	14,000,000	274	222	126,000,000
2007	8,840,000	6,530,000	145,000	155,000	15,200,000	280	220	131,000,000

[1]Compiled by C.A. DiFrancesco (retired), D.A. Kramer, and L.E. Apodaca.
Data are calculated, estimated, or reported. See notes for more information.

Nitrogen (fixed)—Ammonia Worksheet Notes

Data Sources
The sources of data for the nitrogen (fixed)—ammonia worksheet were the mineral statistics publications of the U.S. Bureau of Mines and the U.S. Geological Survey—Minerals Yearbook (MYB) and Mineral Facts and Problems (MFP). The years of publication and corresponding years of data coverage are listed in the References section below. Blank cells in the worksheet indicate that data were not available. Data were for nitrogen content except where noted.

Production
Production data for ammonia (nitrogen content) in the United States were for anhydrous ammonia, excluding coke byproducts and aqueous ammonia when possible. Data were from the MYB.

Imports
Import data reported the amounts of ammonia (nitrogen content) imported into the United States. Data were from the MYB. Blank cells in the worksheet indicate that data were not available for the years 1943–44, 1947, 1949–55, 1957–58, and 1960–62.

Exports
Export data reported the amounts of ammonia (nitrogen content) exported from the United States. Data for the years 1958–62 were for both industrial chemical and fertilizer ammonia. Data were from the MYB.

Stocks
Stocks data reported the amount of ammonia (nitrogen content) held in stocks. Data were from the MFP for the years 1964–83 and the MYB for the years 1984 to the most recent. Blank cells in the worksheet indicate that data were not available for the years 1943–63.

Apparent Consumption
Apparent consumption was estimated for the years 1943 to the most recent, by using the formula:

APPARENT CONSUMPTION = PRODUCTION + IMPORTS – EXPORTS ± STOCK CHANGES.

Data were from the MYB.

Unit Value ($/t)
Unit value is the value in dollars of 1 metric ton (t) of ammonia (nitrogen content) apparent consumption. Unit value was estimated for the United States in actual dollars by using price data “delivered east of the Rockies” for 1950–77 and “Gulf Coast” prices for 1978 to the most recent. Data for 1950–87 are yearend prices. Data for 1988 to the most recent are average annual prices. Data were from the MYB. Blank cells in the worksheet indicate that data were not available for the years 1943–49.

Unit Value (98$/t)
The Consumer Price Index conversion factor, with 1998 as the base year, is used to adjust unit value in current U.S. dollars to the unit value in constant 1998 U.S. dollars. Blank cells in the worksheet indicate that data were not available for the years 1943–49.

World Production
World production data were for ammonia produced. Data for 1946–57 were for “fertilizer nitrogen compounds,” and were reported as fertilizer years (July 1–June 30), not calendar years. Blank cells in the worksheet indicate that data were not available for the years 1943–45. Data were from the MYB.

References
U.S. Bureau of Mines, 1943–96, Minerals Yearbook, 1941–94.
U.S. Bureau of Mines, 1976, Mineral Facts and Problems, 1975 ed.: U.S. Bureau of Mines Bulletin 667.
U.S. Bureau of Mines, 1980, Mineral Facts and Problems, 1980 ed.: U.S. Bureau of Mines Bulletin 671.
U.S. Geological Survey, 1997–2008, Minerals Yearbook, v. I, 1995–2007.

Recommended Citation Format:
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].)

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