NITROGEN (FIXED)—AMMONIA STATISTICS[1]
U.S. GEOLOGICAL SURVEY
[All values in metric tons (t) nitrogen content unless otherwise noted]
Last modification: April 1, 2014

Year	Production	Imports	Exports	Stocks	Apparent consumption	Unit value ($/t)	Unit value (98$/t)	World production
1943	406,000	NA	1,000	NA	405,000	NA	NA	NA
1944	405,000	NA	2,700	NA	403,000	NA	NA	NA
1945	409,000	3,000	3,000	NA	409,000	NA	NA	NA
1946	541,000	5,000	4,000	NA	542,000	NA	NA	2,380,000
1947	831,000	NA	4,000	NA	827,000	NA	NA	3,330,000
1948	813,000	156,000	2,000	NA	967,000	NA	NA	3,950,000
1949	965,000	NA	1,000	NA	964,000	NA	NA	4,560,000
1950	1,170,000	NA	7,000	NA	1,160,000	84.8	574	4,810,000
1951	1,330,000	NA	5,000	NA	1,320,000	87.5	548	5,240,000
1952	1,530,000	NA	11,000	NA	1,520,000	87.5	538	5,300,000
1953	1,710,000	NA	11,300	NA	1,690,000	95.3	582	6,450,000
1954	2,040,000	NA	29,300	NA	2,010,000	95.3	577	7,300,000
1955	2,430,000	NA	33,000	NA	2,390,000	93.6	569	8,070,000
1956	2,520,000	19,000	39,800	NA	2,500,000	82.6	496	8,620,000
1957	2,780,000	NA	50,700	NA	2,730,000	92.5	536	9,270,000
1958	2,890,000	NA	49,000	NA	2,850,000	92.5	521	10,800,000
1959	3,370,000	40,000	63,000	NA	3,350,000	94.7	530	11,800,000
1960	3,590,000	NA	81,000	NA	3,510,000	101	558	12,900,000
1961	3,890,000	NA	76,000	NA	3,810,000	101	553	14,000,000
1962	4,340,000	NA	44,300	NA	4,290,000	101	547	11,900,000
1963	4,990,000	13,000	56,100	NA	4,950,000	101	539	17,100,000
1964	5,700,000	118,000	111,000	490,000	5,700,000	101	533	19,400,000
1965	6,620,000	152,000	138,000	519,000	6,600,000	101	525	21,800,000
1966	7,910,000	231,000	169,000	491,000	8,000,000	101	510	25,000,000
1967	9,100,000	330,000	323,000	1,390,000	8,210,000	92.5	451	28,700,000
1968	9,040,000	298,000	595,000	1,190,000	8,950,000	83.7	392	32,100,000
1969	9,540,000	333,000	835,000	983,000	9,240,000	55.0	244	35,900,000
1970	10,300,000	361,000	727,000	1,070,000	9,880,000	62.7	264	38,800,000
1971	10,900,000	344,000	369,000	1,240,000	10,700,000	61.6	248	41,100,000
1972	11,300,000	288,000	530,000	1,190,000	11,100,000	66.1	258	43,000,000
1973	11,300,000	246,000	672,000	640,000	11,500,000	93.6	344	46,700,000
1974	11,700,000	338,000	296,000	849,000	11,600,000	220	727	48,400,000
1975	12,200,000	601,000	262,000	1,540,000	11,900,000	204	618	49,500,000
1976	12,500,000	543,000	327,000	1,680,000	12,500,000	204	584	56,900,000
1977	13,200,000	802,000	314,000	2,060,000	13,400,000	143	385	62,000,000
1978	12,800,000	1,130,000	394,000	1,800,000	13,800,000	90.3	226	67,200,000
1979	13,900,000	1,450,000	587,000	1,630,000	14,900,000	143	322	71,100,000
1980	14,700,000	1,740,000	618,000	1,460,000	15,900,000	135	267	73,600,000
1981	14,200,000	1,560,000	459,000	1,900,000	14,900,000	146	261	77,000,000
1982	11,800,000	1,580,000	553,000	1,910,000	12,800,000	129	217	75,900,000
1983	10,200,000	1,970,000	270,000	1,410,000	12,400,000	196	320	80,400,000
1984	12,500,000	2,450,000	397,000	1,550,000	14,300,000	159	250	88,600,000
1985	12,900,000	2,090,000	916,000	1,630,000	14,000,000	119	181	91,000,000
1986	10,800,000	1,860,000	482,000	1,370,000	12,400,000	79.2	118	91,100,000
1987	12,000,000	2,140,000	769,000	955,000	13,800,000	105	151	95,100,000
1988	12,500,000	2,750,000	582,000	925,000	14,700,000	120	165	99,300,000
1989	12,300,000	2,860,000	346,000	849,000	14,900,000	114	151	99,300,000
1990	12,700,000	2,670,000	482,000	797,000	14,900,000	117	146	97,500,000
1991	12,800,000	2,740,000	580,000	936,000	14,800,000	129	154	93,800,000
1992	13,400,000	2,690,000	354,000	1,060,000	15,600,000	117	136	93,400,000
1993	12,600,000	2,660,000	378,000	852,000	15,000,000	134	151	91,600,000

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Year	Production	Imports	Exports	Stocks	Apparent consumption	Unit value ($/t)	Unit value (98$/t)	World production
1994	13,300,000	3,450,000	215,000	956,000	16,400,000	232	255	93,800,000
1995	13,000,000	2,630,000	319,000	959,000	15,300,000	210	225	100,000,000
1996	13,400,000	3,390,000	435,000	881,000	16,400,000	209	217	105,000,000
1997	13,300,000	3,530,000	395,000	1,530,000	15,800,000	191	193	103,000,000
1998	13,800,000	3,460,000	614,000	1,050,000	17,100,000	134	134	104,000,000
1999	12,900,000	3,890,000	562,000	996,000	16,300,000	120	118	107,000,000
2000	11,800,000	3,880,000	662,000	1,120,000	14,900,000	186	176	108,000,000
2001	9,120,000	4,550,000	647,000	261,000	13,200,000	202	186	105,000,000
2002	10,300,000	4,670,000	437,000	286,000	14,500,000	151	136	109,000,000
2003	8,450,000	5,720,000	400,000	195,000	13,900,000	270	239	110,000,000
2004	8,990,000	5,900,000	381,000	298,000	14,400,000	301	260	117,000,000
2005	8,340,000	6,520,000	525,000	254,000	14,400,000	334	279	122,000,000
2006	8,190,000	5,920,000	193,000	201,000	14,000,000	333	270	125,000,000
2007	8,540,000	6,530,000	145,000	157,000	15,000,000	338	266	131,000,000
2008	7,870,000	6,020,000	192,000	302,000	13,500,000	650	492	128,000,000
2009	7,700,000	4,530,000	16,000	167,000	12,300,000	277	210	127,000,000
2010	8,290,000	5,540,000	36,000	165,000	13,800,000	437	327	132,000,000
2011	9,350,000	5,600,000	26,000	178,000	14,900,000	585	424	138,000,000
2012	8,730,000	5,170,000	31,000	180,000	13,900,000	638	453	140,000,000

NA Not available.

[1]Compiled by C.A. DiFrancesco, 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. 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. Data were not available for 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 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 1964–83 and the MYB for 1984 to the most recent year. Data were not available for 1943–63.

Apparent Consumption
Apparent consumption was estimated for 1943 to the most recent year, 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 year. Data for 1950–87 are yearend prices. Data for 1988 to the most recent year are average annual prices. Data were from the MYB. Data were not available for 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. Data were not available for 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. Data were not available for 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, 1995–present, Minerals Yearbook, v. I. (Available via http://minerals.usgs.gov/minerals.)

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