

Inorganic Fertilizer Materials and Related Products

Second Quarter
2001

Issued September 2001

MQ325B(01)-2

Information about the scope of the survey, methodology, explanation of terms and historical notes for this survey may be found in the introduction of the 1998 Manufacturing Profiles, issued December 2000.

Current data are released electronically on Internet for all individual surveys as they become available. Use: <http://www.census.gov/econ/www/manumenu.html>. Individual reports can be accessed by choosing "Current Industrial Reports (CIR's)," clicking on "Report Number Index;" from the "Industrial Products by Numeric Index," choose the survey of interest. Follow the menu to view the PDF file or to download the worksheet file (WK format) to your personal computer.

These data are also available through the U.S. Department of Commerce and STAT-USA Electronic Bulletin Board by subscription. To access, dial 202-482-3870 and follow the prompts to register. Also, you may call 202-482-1986 or 1-800-STAT-USA, for further information. The Internet address is: www.stat-usa.gov/.

NOTE. Data are now published on the new North American Industry Classification System (NAICS) basis and therefore are not always comparable to the old Standard Industrial Classification (SIC) code. For further information on NAICS, see www.census.gov/epcd/www/naics.html.

Current
Industrial
Reports

Address inquiries concerning these data to Primary Goods Industries Branch, Manufacturing and Construction Division (MCD), Washington, DC 20233-6900, or call Walter Hunter, Jr., 301-457-4798.

For mail or fax copies of this publication, please contact the Information Services Center, MCD, Washington, DC 20233-6900, or call 301-457-4673.

U S C E N S U S B U R E A U

Helping You Make Informed Decisions

U.S. Department of Commerce
Economics and Statistics Administration
U.S. Census Bureau



Table 1. Summary of Production of Principal Inorganic Fertilizers: 1997 to 2001
[Thousands of short tons]

Quarter and year	Ammonia, synthetic anhydrous (3253111120) (100 percent)	Ammonium nitrate, original melt liquor (3253111201)	Ammonium sulfate (3253111240) (100 percent)	Urea (3253114000) (100 percent)	Nitric acid (3253111111) (100 percent)	Phosphoric acid (3253121000) (100 percent P2O5)	Sulfuric acid, gross (3251881000) (100 percent)	Phosphatic fertilizer materials (3253124000) (100 percent P2O5)
Year-to-date:								
Third quarter 2000 to second quarter 2001.....	14,128	7,224	2,665	7,052	8,163	11,898	41,178	8,196
Third quarter 1999 to second quarter 2000.....	17,872	7,629	2,778	8,441	8,645	13,442	44,546	8,687
2001								
Total.....	6,614	3,611	1,264	3,470	3,995	5,461	19,200	3,810
Second quarter.....	3,252	1,706	647	1,703	1,800	2,657	9,555	1,886
First quarter.....	3,362	1,904	617	1,766	2,195	2,804	9,645	1,924
2000								
Total.....	16,806 r/	7,498	2,868	7,621	8,479	13,143	44,032	8,921
Fourth quarter.....	3,796	1,959	690	1,924	2,252	3,200	10,974	2,060
Third quarter.....	3,718 r/	1,654	710	1,658	1,916	3,237	11,003	2,326
Fertilizer year (third quarter 1999-second quarter 2000).....	17,872	7,629	2,778	8,441	8,645	13,442	44,546	8,687
Second quarter.....	4,429 r/	1,795	725	1,804	2,098	3,317	11,005	2,191
First quarter.....	4,863 r/	2,090	742	2,235	2,213	3,389	11,049	2,344
1999								
Total.....	17,337	7,630 r/	2,599	8,907	8,945	13,708	44,756 r/	8,544
Fourth quarter.....	4,674	1,987 r/	676	2,489	2,364	3,376	11,303 r/	1,996
Third quarter.....	3,906	1,757 r/	635	1,912	1,970	3,359	11,190 r/	2,155
Fertilizer year (third quarter 1998-second quarter 1999).....	17,846	8,368	2,658	9,082	9,262	13,759	46,090	9,339
Second quarter.....	4,495	1,871 r/	667	2,297	2,215	3,461	11,023 r/	2,147
First quarter.....	4,262	2,015 r/	622	2,209	2,396	3,511	11,240 r/	2,246
1998								
Total.....	18,475	9,079	2,787	8,865	9,285	13,891	48,512	10,260
Fourth quarter.....	4,552	2,321	697	2,266	2,411	3,397	12,076	2,508
Third quarter.....	4,537	2,162	672	2,310	2,240	3,390	11,751	2,438
Fertilizer year (third quarter 1997-second quarter 1998).....	18,405	8,800	2,816	8,206	9,219	13,797	49,047	10,559
Second quarter.....	4,689	2,362	720	2,176	2,350	3,459	12,459	2,723
First quarter.....	4,697	2,234	698	2,113	2,284	3,645	12,227	2,590
1997								
Total.....	17,891	8,604	2,702	8,304	9,433	13,159	47,929	10,473
Fourth quarter.....	4,616	2,194	702	1,964	2,400	3,481	12,132	2,644
Third quarter.....	4,403	2,010	697	1,952	2,186	3,213	12,230	2,603
Fertilizer year (third quarter 1996-second quarter 1997).....	17,796	8,567	2,675	8,567	9,488	13,304	48,166	10,764
Second quarter.....	4,467	2,207	709	2,134	2,421	3,251	11,957	2,670
First quarter.....	4,405	2,195	594	2,254	2,426	3,214	11,611	2,557

r/Revised by 5 percent or more from previously published data.

Note: Data for 2000 and 1999 have been revised based on the reconciliation of data from the 2000 summary report for this series, MQ325B(00)-5, "Inorganic Fertilizer Materials and Related Products," issued July 2001.

Table 2. Production, Shipments, Consumption, and Stocks of Fertilizer Materials and Other Related Chemicals
[Quantity in short tons. Value in thousands of dollars]

Product code	Chemical and basis	Second quarter 2001						First quarter 2001		
		Total production	Total shipments, including interplant transfers		Stocks 1/	Total production	Total shipments, including interplant transfers		Stocks 1/	
			Quantity	Value			Quantity	Value		
Ammonia:										
3253111120	Synthetic, anhydrous (100 percent).....	b/ 3,251,961	b/ 1,721,496	b/ 301,161	a/ 376,798	b/ 3,361,950	b/ 1,343,759	b/r/ 237,315	a/r/ 446,944	
3253111121	Fertilizer use.....	b/ 2,901,804	b/ 1,549,954	b/ 269,504	a/ 356,045	b/ 2,969,037	b/ 1,140,700	b/ 199,185	a/r/ 415,795	
3253111131	Other uses.....	(S)	(S)	(S)	b/ 20,753	b/ 392,913	(S)	b/ (S)	b/ 31,149	
Ammonium nitrate (100 percent):										
3253111201	Original melt liquor 2/.....	b/ 1,706,280	b/ 934,832	b/ 135,218	b/ 144,004	b/ 1,904,334	b/ 925,829	b/r/ 133,931	b/ 126,151	
3253111211	Consumed in the manufacture of other nitrogen solutions (e.g., CAN17, AN20, AAN).....	b/ 40,256	(X)	(X)	(D) b/	41,813	(X)	(X)	(D)	
3253111216	Liquor consumed in the manufacture of urea-ammonium nitrate solutions.....	b/ 701,347	(X)	(X) b/	b/ 38,437	b/ 748,051	(X)	(X) b/r/	20,533	
3253111221	High density prill and granular.....	b/ 513,605	b/ 476,887	b/ 68,363	b/ 50,126	b/ 674,660	b/ 469,256	b/ 68,506	b/ 55,837	
3253111226	Low density prill and grained.....	b/ 351,543	b/ 350,306	(S)	b/ 27,365	b/ 331,207	b/ 346,345	(S)	b/ 24,667	
3253111231	All other (e.g., liquor sales, etc.).....	b/ 99,529	b/ 107,639	b/ 14,532	(D) b/	b/ 108,603	b/ 110,228	(S)	(D)	
3253111240	Ammonium sulfate (100 percent).....	647,279	628,211	42,939	56,155	617,196	(D)	(D) r/	93,116	
3253111241	Synthetic (direct synthesis from sulfuric acid and ammonia).....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
3253111246	Byproduct 3/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Nitrogen solutions, including mixtures (100 percent N).....										
3253111250	Ammonium nitrate/urea solutions.....	818,330	925,336	174,764	275,549	841,480	637,374	114,400	236,340	
3253111251	All other solutions 4/.....	b/ 740,456	b/ 825,030	(D)	(D) b/	b/ 748,542	b/ 533,535	b/ 96,338	b/ 224,255	
3253111256	All other solutions 4/.....	(S)	(S)	(D)	(D)	(S)	(S)	(S) b/	12,085	
3253111111	Nitric acid (100 percent) 5/.....	b/ 1,799,662	b/ 329,811	b/ 44,602	(X) b/	b/ 2,194,928	b/ 461,681	(S)	(X)	
3253114000	Urea original melt liquor.....	a/ 1,703,388	b/ 1,195,225	a/ 194,398	a/ 215,372	a/ 1,766,493	r/ 1,155,738	a/r/ 190,925	a/ 179,350	
3253114011	Consumed in the manufacture of urea-ammonium nitrate solutions.....	a/ 550,403	(D)	(D)	(D) a/	593,067	51,567	(D)	(D)	
3253114021	Prills.....	a/ 423,921	b/ 351,993	b/ 54,768	(D) a/	b/ 343,737	b/ 303,083	b/ 50,868	b/r/ 86,461	
3253114031	Granular.....	a/ 665,408	b/ 708,686	b/ 100,828	b/ 84,973	b/ 775,551	b/ 749,385	a/ 111,602	80,303	
3253114041	All other (liquor sales, melamine, feedstock, other).....	63,656	(D)	(D)	(D)	54,138	51,703	(D)	(D)	
3253121000	Phosphoric acid (100 percent P2O5).....	2,656,968	624,490	222,685	163,048	2,803,754	r/ 686,349	r/ 242,810	175,791	
3253121111	Thermal.....	a/ 39,467	a/ 31,629	a/ 24,106	5,347	a/ 51,868	a/ 39,108	a/ 28,911	6,156	
3253121121	Wet.....	2,617,501	592,861	198,579	157,701	2,751,886	r/ 647,241	b/r/ 213,899	169,635	
By use:										
3253121211	Fertilizer.....	2,451,736	(D)	(D)	(D)	2,587,706	(D)	(D)	(D)	
3253121221	Feed and other.....	165,765	(D)	(D)	(D)	164,180	(D)	(D)	(D)	
By grade:										
3253121311	Ortho (less than 65 percent P2O5).....	2,254,967	(D)	(D)	137,552	2,384,180	(D)	(D)	151,515	
3253121321	Super (more than 65 percent P2O5).....	362,534	(D)	(D)	20,149	367,706	(D)	(D) r/	18,120	
3253124000	Superphosphate and other phosphatic fertilizer materials:									
	Gross weight.....	3,954,199	3,551,031	(X)	539,551	4,152,627	3,177,626	(X)	724,418	
	Nitrogen content.....	492,032	(X)	(X)	(X)	583,744	(X)	(X)	(X)	
	Phosphoric oxide content (100 percent P2O5).....	1,885,854	1,901,942	539,717	(X)	1,924,032	2,089,154	r/ 527,909	(X)	
3253124111	Normal and enriched:									
	Gross weight.....	(D)	(D)	(X)	(D)	(D)	(D)	(X)	(D)	
	Nitrogen content.....	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	
	Phosphoric oxide content (100 percent P2O5).....	(D)	(D)	(D)	(X)	(D)	(D)	(D)	(X)	
3253124121	Concentrated:									
	Gross weight.....	(D)	(D)	(D)	(D)	(D)	(D)	(X)	(D)	
	Nitrogen content.....	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	
	Phosphoric oxide content (100 percent P2O5).....	(D)	(D)	(D)	(X)	(D)	(D)	(D)	(X)	
3253124131	Monoammonium phosphates:									
	Gross weight.....	935,186	985,617	(X)	160,357	1,143,442	803,629	(X)	247,898	
	Nitrogen content.....	112,952	(X)	(X)	(X)	109,911	(X)	(X)	(X)	
	Phosphoric oxide content (100 percent P2O5).....	516,684	540,884	145,408	(X)	564,925	r/ 505,189	128,735	(X)	
3253124211	Diammonium phosphates:									
	Gross weight.....	a/ 2,525,323	a/ 2,183,345	(X)	264,771	a/ 2,542,735	a/ 2,026,932	a/ (X)	322,881	
	Nitrogen content.....	a/ 369,344	(X)	(X)	(X)	466,540	(X)	(X)	(X)	
	Phosphoric oxide content (100 percent P2O5).....	a/ 1,161,655	a/ 1,158,371	344,197	(X) a/	1,164,121	1,416,730	r/ 353,863	(X)	
3253124222	Other ammonium phosphates and other phosphatic fertilizer materials:									
	Gross weight.....	b/ 168,138	(S)	(X)	(D) b/	117,616	(S)	(X)	57,195	
	Nitrogen content.....	(D)	(X)	(X)	(X)	(D)	(X)	(X)	(X)	
	Phosphoric oxide content (100 percent P2O5).....	(S)	(D)	(D)	(X)	(S)	(S)	(S)	(X)	
Sulfuric acid (100 percent): 5/										
	Total gross.....	a/ 9,555,379	b/ 2,708,772	b/ 151,012	b/ 509,868	a/ 9,645,062	b/ 2,720,801	b/ 152,469	b/r/ 505,926	
By feedstock:										
3251881111	Elemental sulfur.....	a/ 7,653,538	b/ 1,662,160	(S)	(X) a/	8,077,412	b/r/ 1,777,659	(S)	(X)	
3251881121	Smelting metallic sulfide ore.....	451,949	(D)	(D)	(X)	467,052	(D)	(D)	(X)	
3251881130	Decomposition of alkylation and other spent acid.....	a/ 1,283,653	b/ 545,010	b/ 42,115	(D) a/	b/r/ 932,388	b/r/ 436,861	b/r/ 32,267	(D)	
3251881141	Other.....	(D)	(D)	(D)	(X)	168,210	(D)	(D)	(X)	
By grade:										
3251881212	Oleum grades.....	b/ 426,120	b/ 296,342	(S) a/	b/ 14,035	b/ 491,279	b/ 338,604	(S) b/	29,545	
3251881231	Other than oleum grades.....	a/ 9,129,259	b/ 2,412,430	b/ 123,484	b/ 495,833	b/r/ 9,153,783	b/ 2,382,197	b/ 120,217	b/r/ 476,381	

Continued

Table 2. Production, Shipments, Consumption, and Stocks of Fertilizer Materials and Other Related Chemicals
 [Quantity in short tons. Value in thousands of dollars]

Product code	Chemical and basis	Second quarter 2001				First quarter 2001			Stocks 1/
		Total production	Total shipments, including interplant transfers		Total production	Total shipments, including interplant transfers			
			Quantity	Value		Quantity	Value		
3251881311	Spent acid fortified in contact units and included in above production data.....	(D)	(X)	(X)	(S)	(X)	(X)	(S)	
	Total new acid 6/.....	8,271,726	(X)	(X)	(X)	8,712,674	(X)	(X)	

D Withheld to avoid disclosing data for individual companies. N Nitrogen content. P2O5 Phosphoric oxide content. r/Revised by 5 percent or more from previously published data.
 S Does not meet publication standards. X Not applicable.

- 1/Stocks held by producing companies include amounts held at their nonproducing locations.
- 2/Production represents total amount of ammonium nitrate produced including amounts for fertilizer, explosives, and other uses, and amounts consumed in manufacturing other products, such as nitrogen solutions. Stocks represent total stocks held by producing companies, including stock of original melt liquor and amounts (liquid and solid) reported as fertilizer, explosives, and other uses.
- 3/Excludes coke oven byproduct ammonium sulfate.
- 4/Solutions containing two or more products such as (a) ammonia, ammonium nitrate; (b) ammonia, urea; (c) ammonia, ammonium nitrate, urea.
- 5/Includes data for government-owned, contractor-operated plants.
- 6/Total new acid equals total gross acid, minus fortified spent acid and sulfuric acid produced from the decomposition of alkylation acids and other spent acids and sludge acid.

Note: Percent of estimation of each item is indicated as follows: a/10 to 25 percent of this item is estimated. b/26 to 50 percent of this item is estimated. c/Over 50 percent of this item is estimated.

Table 3. Production, Inventory, Exports, Imports, and Apparent Consumption of Selected Fertilizer Materials: First Quarter 2001
[Metric tons]

Product code 1/	Product description	Beginning stock fourth quarter 2000	Quantity produced	Imports for consumption 2/	Ending stock fourth quarter 2000	Exports of domestic merchandise 3/	Apparent consumption 4/	Percent imports to apparent consumption
3253111120	Anhydrous ammonia, synthetic.....	336,011	3,049,961	1,542,723	405,468	(D)	(D)	(D)
3253111201	Ammonium nitrate, original solution.....	102,046	1,727,612	393,940	114,444	4,091	2,105,063	19
3253111240	Ammonium sulfate.....	118,633	559,920	89,428	84,475	218,526	464,980	19
3253111251	Nitrogen solutions, ammonium nitrate/urea solutions 5/.....	127,987	763,391	721,111	214,408	5,396	1,392,685	52
3253114000	Urea.....	109,748	1,602,562	2,086,475	162,706	147,036	3,489,043	60
3253121000	Phosphoric acid.....	171,799	2,543,566	23,276	159,478	(D)	(D)	(D)
3253124111	Normal and enriched superphosphates.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3253124121	Concentrated superphosphates.....	(D)	(D)	35,024	(D)	117,154	(D)	(D)
3253124211	Diammonium phosphates 6/.....	349,150	2,306,769	34,939	292,918	1,133,029	1,264,911	3
3251881000	Sulfuric acid.....	511,977	8,750,000	382,557	458,976	76,103	9,109,455	4

D Withheld to avoid disclosing data for individual companies.

1/For comparison of North American Industry Classification System-based product codes, Schedule B export numbers, and HTSUSA import numbers, see Table 4.

2/Source: Census Bureau report IM 145, U.S. Imports for Consumption.

3/Source: Census Bureau report EM 545, U.S. Exports.

4/Apparent consumption represents new domestic supply and is derived by subtracting exports from the total of manufacturers' production plus imports, and adjusting for changes in stocks.

5/Product code 3253111251 (gross weight) is combined with product code 3253111256 (gross weight).

6/Gross weight.

Table 4. Comparison of North American Industry Classification System-Based Product Codes with Schedule B Export Numbers, and HTSUSA Import Numbers: 2001

Product code	Product description	Export number 1/	Import number 2/
3253111120	Anhydrous ammonia, synthetic.....	2814.10.0000	2814.10.0000
3253111201	Ammonium nitrate, original solution.....	3102.30.0000	3102.30.0000
3253111240	Ammonium sulfate.....	3102.21.0000	3102.21.0000
3253111251	Nitrogen solutions, ammonium nitrate/urea solutions.....	3102.80.0000	3102.80.0000
3253114001	Urea.....	3102.10.0000	3102.10.0000
3253121101	Phosphoric acid.....	2809.20.0010 2809.20.0020 2809.20.0030	2809.20.0010 2809.20.0020 2809.20.0030
3253124111	Normal and enriched superphosphates.....	3103.10.0010	3103.10.0010
3253124121	Concentrated superphosphates.....	3103.10.0020	3103.10.0020
3253124211	Diammonium phosphates.....	3105.30.0000	3105.30.0000
3251881000	Sulfuric acid.....	2807.00.0000	2807.00.0000

1/Source: 2001 edition, Harmonized System-based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated (2001).