

Inorganic Fertilizer Materials and Related Products

First Quarter
2000

Issued July 2000

MQ325B(00)-1

(Formerly Series No. MQ28B)

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 1997 Manufacturing Profiles, issued August 1999.

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
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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.

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

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Table 1. Summary of Production of Principal Inorganic Fertilizers: 1996 to 2000
[1,000 of short tons]

Quarter and year	Ammonia, synthetic anhydrous (325311 1120) (100 percent)	Ammonium nitrate, original melt liquor (325311 1201)	Ammonium sulfate (325311 1240) (100 percent)	Urea (325311 4000) (100 percent)	Nitric acid (325311 1111) (100 percent)	Phosphoric acid (325312 1000) (100 percent P2O5)	Sulfuric acid, gross (325188 1000) (100 percent)	Phosphatic fertilizer materials (325312 4000) (100 percent P2O5)
Year-to-date:								
Third quarter 1999 to first quarter 2000.....	14,271	6,177	2,351	7,070	6,443	10,160	33,620	6,811
Third quarter 1998 to first quarter 1999.....	13,815	6,657	2,071	6,967	7,066	10,297	35,197	7,336
2000								
Total.....	5,112	2,200	833	2,496	2,159	3,391	11,115	2,309
First quarter.....	5,112	2,200	833	2,496	2,159	3,391	11,115	2,309
1999								
Total.....	18,905	8,162	2,901	9,309	8,922	13,770	45,319	9,215
Fourth quarter.....	4,982	2,113	744.497	2,576	2,305	3,392	11,265	2,209
Third quarter.....	4,177	1,865	704	1,997	1,980	3,378	11,240	2,293
Fertilizer year (third quarter 1998-second quarter 1999).....	18,836	8,667	2,822	9,372	9,289	13,776	46,641	9,660
Second quarter.....	5,021	2,010	751	2,404	2,223	3,479	11,443	2,324
First quarter.....	4,726	2,174	701	2,331	2,414	3,521	11,371	2,389
1998								
Total.....	18,475	9,079	2,787	8,975	9,285	13,864	48,512	10,260
Fourth quarter.....	4,552	2,321	697.407	2,298	2,411	3,391	12,076	2,508
Third quarter.....	4,537	2,162	672	2,338	2,240	3,385	11,751	2,438
Fertilizer year (third quarter 1997-second quarter 1998).....	18,405	8,800	2,816	8,255	9,219	13,782	49,047	10,559
Second quarter.....	4,689	2,362	720	2,201	2,350	3,451	12,459	2,723
First quarter.....	4,697	2,234	698	2,137	2,284	3,638	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	701.8	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
1996								
Total.....	17,923	8,498	2,662	8,548	9,205	13,210	47,770	10,547
Fourth quarter.....	4,559	2,183	685.03	2,154	2,477	3,387	12,160	2,688
Third quarter.....	4,365	1,983	686	2,025	2,163	3,451	12,438	2,849
Fertilizer year (third quarter 1995-second quarter 1996).....	8,999	4,332	1,290	4,369	4,564	6,371	23,173	5,010
Second quarter.....	4,404	2,144	657	2,135	2,288	3,130	11,365	2,412
First quarter.....	4,595	2,188	633	2,234	2,277	3,242	11,808	2,598

Note: Data for 1998 and 1997 have been revised based on the reconciliation of data from the quarterly report, MQ325B, and the 1998 annual report, MA325B(98)-1, issued January 2000.

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	First quarter 2000				Fourth quarter 1999			
		Total production	Total shipments, including interplant transfers		Stocks 1/	Total production	Total shipments, including interplant transfers		Stocks 1/
			Quantity	Value			Quantity	Value	
Ammonia:									
325311 1120	Synthetic, anhydrous (100 percent).....	b/ 5,112,308	b/ 2,057,165	(S)	(D)	b/ 4,982,220	(X)	(X)	(D)
325311 1121	Fertilizer use.....	b/ 4,613,366	b/ 1,832,509	(S)	(D)	b/ 4,527,296	(X)	(X)	(D)
325311 1131	Other uses.....	b/ 498,942	b/ 224,656	b/ 27,299	(D)	b/ 454,924	(X)	(X)	(D)
Ammonium nitrate (100 percent):									
325311 1201	Original melt liquor 2/.....	b/ 2,199,530	b/ 1,082,748	(S)	(D)	b/ 2,112,704	(X)	(X)	(D)
325311 1211	Consumed in the manufacture of other nitrogen solutions (e.g., CAN17, AN20, AAN).....	(D)	(X)	(X)	(D)	(D)	(X)	(X)	(D)
325311 1216	Liquor consumed in the manufacture of urea-ammonium nitrate solutions.....	b/ 616,583	(X)	(X)	b/ 49,684	794,539	(X)	(X)	b/ 71,160
325311 1221	High density prill and granular.....	b/ 947,149	(S)	(S)	b/ 89,575	r/b/ 913,461	(X)	(X)	71,861
325311 1226	Low density prill and grained.....	(S)	(S)	(S)	(S)	b/ 234,355	(X)	(X)	(D)
325311 1231	All other (e.g., liquor sales, etc.).....	(D)	(D)	(D)	(D)	(D)	(X)	(X)	(D)
325311 1240	Ammonium sulfate (100 percent).....	833,076	634,520	30,277	161,083	r/ 813,435	(X)	(X)	r/ 278,253
325311 1241	Synthetic (direct synthesis from sulfuric acid and ammonia).....	(D)	(D)	(D)	(D)	(D)	(X)	(X)	(D)
325311 1246	Byproduct 3/.....	(D)	(D)	(D)	(D)	(D)	(X)	(X)	(D)
Nitrogen solutions, including mixtures (100 percent N):									
325311 1251	Ammonium nitrate/urea solutions.....	b/ 898,622	(D)	(D)	(D)	r/b/ 951,189	(X)	(X)	(D)
325311 1256	All other solutions 4/.....	b/ 874,741	(D)	(D)	(D)	r/b/ 926,305	(X)	(X)	(D)
325311 1256	All other solutions 4/.....	(S)	(D)	(D)	(D)	b/ 24,884	(X)	(X)	(D)
325311 1111	Nitric acid (100 percent) 5/.....	b/ 2,158,627	b/ 260,244	b/ 33,674	(X)	b/ 2,304,630	(X)	(X)	(X)
325311 4000	Urea original melt liquor.....	b/ 2,496,322	b/ 1,165,376	b/ 144,255	b/ 285,126	b/ 2,575,823	(X)	(X)	(D)
325311 4011	Consumed in the manufacture of urea-ammonium nitrate solutions.....	b/ 621,888	(D)	(D)	(D)	b/ 715,816	(X)	(X)	(D)
325311 4021	Prills.....	594,380	b/ 431,771	b/ 56,182	b/ 125,153	r/ 521,278	(X)	(X)	r/b/ 135,111
325311 4031	Granular.....	1,221,292	b/ 614,456	b/ 69,931	b/ 120,606	b/ 1,263,629	(X)	(X)	b/ 157,534
325311 4041	All other (liquor sales, melamine, feedstock, other).....	b/ 58,762	(D)	(D)	(D)	b/ 75,100	(X)	(X)	(D)
325312 1000	Phosphoric acid (100 percent P2O5).....	3,390,843	1,133,715	352,444	216,823	3,391,593	1,072,248	(X)	233,834
325312 1111	Thermal.....	62,261	46,396	24,538	6,218	65,091	43,568	(X)	4,642
325312 1121	Wet.....	3,328,582	1,087,319	327,906	210,605	3,326,502	1,028,680	(X)	229,192
By use:									
325312 1211	Fertilizer.....	3,129,450	(D)	(D)	(D)	3,138,073	(X)	(X)	(D)
325312 1221	Feed and other.....	199,132	(D)	(D)	(D)	188,429	(X)	(X)	(D)
By grade:									
325312 1311	Ortho (less than 65 percent P2O5).....	2,921,086	(D)	(D)	191,468	2,917,592	(X)	(X)	208,507
325312 1321	Super (more than 65 percent P2O5).....	407,496	(D)	(D)	19,137	408,910	(X)	(X)	20,685
325312 4000	Superphosphate and other phosphatic fertilizer materials:								
	Gross weight.....	4,832,076	4,038,380	461,155	1,075,524	4,419,472	4,964,868	(X)	627,204
	Nitrogen content.....	678,726	(X)	(X)	(X)	709,446	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5).....	2,308,699	3,962,940	1,535,478	400,011	2,209,057	2,475,969	(X)	180,794
325312 4111	Normal and enriched: 6/								
	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)	(D)	(D)	(D)	(X)	(D)
325312 4121	Concentrated: 6/								
	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)	(D)	(D)	(D)	(X)	(D)
325312 4131	Monoammonium phosphates:								
	Gross weight.....	1,289,210	1,081,365	147,369	180,620	825,115	939,572	(X)	187,440
	Nitrogen content.....	145,899	(X)	(X)	(X)	93,809	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5).....	665,324	700,924	(S)	(D)	424,794	r/ 500,358	(X)	(D)
325312 4211	Diammonium phosphates:								
	Gross weight.....	2,960,238	2,483,516	261,797	733,319	3,111,589	3,572,832	(X)	278,123
	Nitrogen content.....	517,067	(X)	(X)	(X)	603,491	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5).....	1,411,836	3,063,145	(S)	(D)	1,555,770	1,745,511	(X)	(D)
325312 4222	Other ammonium phosphates and other phosphatic fertilizer materials:								
	Gross weight.....	(S)	(S)	(D)	67,589	r/b/ 151,964	(D)	(X)	58,420
	Nitrogen content.....	b/ 15,760	(X)	(X)	(X)	12,146	(X)	(X)	(X)

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	First quarter 2000				Fourth quarter 1999			
		Total production	Total shipments, including interplant transfers		Stocks 1/	Total production	Total shipments, including interplant transfers		Stocks 1/
			Quantity	Value			Quantity	Value	
	Phosphoric oxide content (100 percent P2O5)...	(S)	(S)	(D)	-	(D)	(S)	(X)	-
	Sulfuric acid (100 percent): 5/								
	Total gross.....	11,114,708	b/ 1,978,264	b/ 101,111	578,768	11,265,153	(X)	(X)	652,081
	By feedstock:								
325188 1111	Elemental Sulfur.....	9,024,188	b/ 1,289,597	(S)	(X)	9,193,593	(X)	(X)	(X)
325188 1121	Smelting metallic sulfide ore.....	a/ 677,334	(S)	(S)	(X)	r/ 722,322	(X)	(X)	(X)
325188 1130	Decomposition of alkylation and other spent acid.....	b/ 1,240,014	b/ 254,618	b/ 14,739	(D)	r/b/ 1,239,161	(X)	(X)	(D)
325188 1141	Other.....	173,172	126,843	6,095	(X)	110,077	(X)	(X)	(X)
	By grade:								
325188 1212	Oleum grades.....	b/ 424,996	b/ 269,482	b/ 14,790	(D)	b/ 412,692	(X)	(X)	-
325188 1231	Other than oleum grades.....	10,689,712	b/ 1,708,782	b/ 86,321	(D)	10,852,461	(X)	(X)	(D)
325188 1311	Spent acid fortified in contact units and included in above production data.....	(D)	(X)	(X)	(S)	(D)	(X)	(X)	(S)
	Total new acid 7/.....	9,874,694	(X)	(X)	(X)	10,025,992	(X)	(X)	(X)

- Represents zero. 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/Product code 3253124111 is combined with product code 3253124121.
- 7/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: Fourth Quarter 1999
 [Metric tons]

Product code 1/	Product description	Beginning stock fourth quarter 1999	Quantity produced	Imports for consumption 2/	Ending stock fourth quarter 1999	Exports of domestic merchandise 3/	Apparent consumption 4/	Percent imports to apparent consumption
325311 1120	Anhydrous ammonia, synthetic.....	(D)	4,519,840	(D)	(D)	(D)	(D)	(D)
325311 1201	Ammonium nitrate, original solution.....	(D)	1,916,632	292,220	(D)	8,058	2,200,794	13.3
325311 1240	Ammonium sulfate.....	167,143	737,943	82,182	225,226	285,135	414,367	19.8
325311 1250	Nitrogen solutions, ammonium nitrate/urea solutions 5/.....	(D)	862,913	212,116	(D)	2,719	1,072,310	19.8
325311 4000	Urea.....	113,725	2,336,771	1,039,187	284,854	176,088	3,028,741	34.3
325312 1000	Phosphoric acid.....	217,542	3,076,833	14,497	212,133	(D)	(D)	(D)
325312 4111	Normal and enriched superphosphates 6/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)
325312 4121	Concentrated superphosphates 6/.....	77,885	(D)	-	(D)	(D)	(D)	-
325312 4211	Diammonium phosphates 7/.....	392,914	2,822,815	10,665	252,312	2,601,053	999,486	1.1
325188 1000	Sulfuric acid.....	641,833	10,219,680	408,876	591,564	40,353	10,638,472	3.8

- Represents zero. D Withheld to avoid disclosing data for individual companies.

1/For comparison of North American Industry Classification System, Schedule B export numbers, and HTSUSA import numbers, see Table 4 in the first quarter 1999 report for this series, MQ325B(99)-1, issued July 1999.

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 325311 1251 (gross weight) is combined with product code 325311 1256 (gross weight).

6/Product code 325312 4111 (gross weight) is combined with product code 325312 4121 (gross weight).

7/Gross weight.