Fertilizer Materials and Related Products: First Quarter 2005

Issued June 2005

MQ325B(05)-1

Current Industrial Reports

Current data are released electronically on Internet for all individual surveys as they become available. Use: http://www.census.gov/mcd/. Individual reports can be accessed by choosing "Current Industrial Reports (CIR)," clicking on "CIRs by Subsector;" then 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 on Internet through the U.S. Department of Commerce and STAT-USA by subscription. The Internet address is: www.stat-usa.gov/. Follow the prompts to register. Also, you may call 202-482-1986 or 1-800-STAT-USA, for further information.

Address inquiries concerning these data to Primary Goods Industries Branch, Manufacturing and Construction Division (MCD), Washington, DC 20233-6900, or call Nancy Higgins, 301-763-4768.

For mail or fax copies of this publication, please contact the Information Services Center, MCD, Washington, DC 20233-6900, or call 301-763-4673.

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 Fertilizer Materials and Related Products: 2001 to 2005
[1,000 of short tons]

Quarter and year	Ammonia, synthetic anhydrous (3253111120) (100 percent)	Ammonium nitrate, original melt liquor (3253111201)	Ammonium sulfate (3253111240) (100 percent)	Nitric acid (3253111111) (100 percent)	Urea (3253114101) (100 percent)	Phosphoric acid (3253121100) (100 percent P2O5)	Phosphatic fertilizer materials (3253124100) (100 percent P2O5)	Sulfuric acid, gross (3251881100) (100 percent)
Year-to-date:								
Third quarter 2004 to first quarter 2005	8,627	5,471	2,107	5,561	4,821	9,675	6,375	31,037
Third quarter 2003 to first quarter 2004	8,844	4,940	2,195	5,811	4,746	9,422	6,910	31,228
2005								
First quarter	2,729	1,946	706	1,938	1,631	3,260	2,114	10,225
2004								
Total	11,866	6,835	2,914	7,387	6,344	12,636	8,764	41,354
Fourth quarter	2,927	r/ 1,956	694	1,921	1,646	3,348	2,191	10,541
Third quarter	2,972	1,569	706	1,702	1,544	3,066	2,070	10,271
Fertilizer year (third quarter 2003-second quarter 2004)	11,702	6,540	2,933	7,611	6,324	12,560	9,150	41,493
Second quarter	2,858	1,600	738	1,800	1,578	3,138	2,240	10,265
First quarter	3,110	1,710	776	1,964	1,576	3,084	2,263	10,277
2003								
Total	11,539	6,321	2,871	7,439	6,375	12,485	8,895	41,205
Fourth quarter	3,140	1,753	762	2,114	1,618	3,235	2,463	10,633
Third quarter	2,594	1,476	657	1,733	1,551	3,103	2,184	10,317
Fertilizer year (third quarter 2002-second quarter 2003)	12,722	6,724	2,979	7,491	7,156	12,335	8,630	40,407
Second quarter	3,069	1,585	737	1,835	1,699	3,009	2,098	10,185
First quarter	2,736	1,506	715	1,757	1,506	3,139	2,150	10,069
2002 1/								
Total	13,863	7,096	2,945	7,651	7,758	12,289	8,756	39,760
Fourth quarter	3,623	1,905	764	2,036	2,029	3,153	2,196	10,179
Third quarter	3,294	1,728	763	1,863	1,922	3,034	2,186	9,974
Fertilizer year (third quarter 2001-second quarter 2002)	13,471	6,615	2,740	7,196	7,282	12,219	8,745	40,472
Second quarter	3,365	1,728	747	1,847	1,917	3,046	2,214	9,985
First quarter	3,581	1,735	671	1,906	1,890	3,056	2,159	9,622
2001								
Total	12,227	6,431	2,588	7,074	6,702	11,546	8,109	40,064
Fourth quarter	3,747	1,725	715	1,871	1,998	3,333	2,376	10,990
Third quarter	2,778	1,427	607	1,572	1,477	2,784	1,995	9,875
Fertilizer year (third quarter 2000-second quarter 2001)	12,790	7,116	2,630	7,880	6,839	11,539	8,115	40,982
Second quarter	2,772	1,512	649	1,660	1,528	2,641	1,845	9,560
First quarter	2,929	1,768	617	1,971	1,699	2,788	1,893	9,639

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

Note: Detail may not add to total due to independent rounding.

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

Product code	Chemical and basis	First quarter 2005 Total production	First quarter 2005 Total shipments, including interplant transfers Quantity	First quarter 2005 Total shipments, including interplant transfers Value	First quarter 2005 Stocks 1/	Fourth quarter 2004 Total production	Fourth quarter 2004 Total shipments, including interplant transfers Quantity	Fourth quarter 2004 Total shipments, including interplant transfers Value	Fourth quarter 2004 Stocks 1/
	Ammonia:								
3253111120	Synthetic, anhydrous (100 percent)	b/ 2,728,785	c/ 895,819	c/ 197,361	b/ 338,190	b/ 2,926,522	c/ 1,081,279	c/ 249,381	b/ 366,946
3253111121	Fertilizer use	b/ 2,506,189	(D)	(D)	b/ 313,609	b/ 2,725,484	(D)	(D)	b/ 338,136
3253111131	Other uses	b/ 222,596	(D)	(D)	b/ 24,581	b/ 201,038	(D)	(D)	b/ 28,810
	Ammonium nitrate (100 percent):								
3253111201	Original melt liquor 2/	a/ 1,946,100	b/ 1,131,335	c/ 197,124	b/ 169,025	b/r/ 1,956,328	b/ 1,013,769	b/ 176,313	b/r/ 153,928
3253111211	Consumed in the manufacture of other nitrogen solutions (e.g., CAN17, AN20, AAN)	34,628	(X)	(X)	(D)	38,099	(X)	(X)	(D)
3253111216	Liquor consumed in the manufacture of urea-ammonium nitrate solutions	a/ 968,157	(X)	(X)	(D)	a/r/ 977,817	(X)	(X)	(D)
3253111221	High density prill and granular	a/ 413,628	a/ 407,749	a/ 75,266	51,388	a/ 387,574	a/ 390,334	a/ 68,596	35,573
3253111226	Low density prill and grained	b/ 422,110	c/ 565,755	c/ 100,516	a/ 16,041	c/ 443,629	c/ 511,936	c/ 90,387	c/ 33,580
3253111231	All other (e.g., liquor sales, etc.)	b/ 107,577	a/ 97,347	(S)	(S)	(S)	c/ 111,499	c/ 17,330	(S)
3253111240	Ammonium sulfate (100 percent)	706,493	b/ 622,151	b/ 90,234	142,682	694,177	a/ 737,901	b/ 105,086	95,976
3253111241	Synthetic (direct synthesis from sulfuric acid and ammonia)	(D)	(D)	(D)	9,975	(D)	(D)	(D)	(D)
3253111246	Byproduct 3/	(D)	(D)	(D)	132,707	(D)	(D)	(D)	(D)
3253111250	Nitrogen solutions, including mixtures (100 percent N)	807,108	663,216	136,338	130,607	812,841	734,551	147,215	b/r/ 80,312
3253111251	Ammonium nitrate/urea solutions	a/ 779,330	b/ 644,328	c/ 132,278	(D)	a/ 782,318	b/ 708,562	c/ 141,797	(D)
3253111256	All other solutions 4/	b/ 27,778	a/ 18,888	a/ 4,060	(D)	b/ 30,523	a/ 25,989	a/ 5,418	(D)
3253111111	Nitric acid (100 percent) 5/	b/ 1,937,554	b/ 392,669	c/ 47,837	(X)	b/ 1,921,187	c/ 406,846	c/ 49,983	(X)
3253114101	Urea original melt liquor	b/ 1,631,362	(S)	(S)	(S)	a/ 1,646,082	b/r/ 952,391	b/r/ 203,100	c/ 117,161
3253114111	Consumed in the manufacture of urea-ammonium nitrate solutions	a/ 707,343	(D)	(D)	(D)	a/ 704,835	a/r/ 50,204	a/r/ 10,697	(D)
3253114121	Prills	b/ 221,035	a/ 180,015	b/ 37,883	(D)	(D)	(D)	(D)	(D)
3253114131	Granular	a/ 675,066	(S)	c/ 141,550	(D)	a/ 702,691	c/ 708,912	c/ 146,045	53,903
3253114141	All other (liquor sales, melamine, feedstock, other)	a/ 27,918	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3253121100	Phosphoric acid (100 percent P2O5)	3,260,400	1,197,649	314,000	168,000	3,348,288	1,209,824	307,926	168,192
	By use:								
3253121211	Fertilizer	a/ 2,958,686	a/ 982,270	a/ 226,001	160,839	3,051,035	b/r/ 1,000,697	b/r/ 227,115	155,792
3253121222	Feed and other 6/	301,714	215,379	87,999	7,161	r/ 297,253	r/ 209,127	r/ 80,811	r/ 12,400
	By grade:								
3253121311	Ortho (less than 65 percent P2O5)	a/ 2,874,336	a/ 866,242	a/ 209,790	143,906	a/ 2,963,461	b/ 886,392	b/ 205,368	147,369
3253121322	Super (more than 65 percent P2O5) 6/	386,064	331,407	104,210	24,094	384,827	323,432	102,558	r/ 20,823
3253124100	Superphosphate and other phosphatic fertilizer materials:								
	Gross weight	4,519,920	4,364,256	881,748	696,881	4,599,057	4,456,755	896,445	597,115
	Nitrogen content	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5)	2,114,128	2,052,140	(X)	(X)	2,190,675	2,105,407	(X)	(X)
3253124131	Monoammonium phosphates:								
	Gross weight	a/ 1,265,270	a/ 1,247,287	a/ 252,925	122,168	1,273,653	1,245,082	249,404	108,207
	Nitrogen content	a/ 134,953	(X)	(X)	(X)	144,498	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5)	a/ 645,775	a/ 633,861	a/ (X)	(X)	646,310	617,282	b/ (X)	(X)
3253124211	Diammonium phosphates:								
	Gross weight	2,736,700	2,672,251	540,582	486,475	2,906,417	2,683,041	543,265	414,092
	Nitrogen content	517,581	(X)	(X)	(X)	a/ 546,397	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5)	1,262,807	1,227,197	a/ (X)	(X)	1,351,318	1,289,691	(X)	(X)
3253124222	Normal, enriched, concentrated and other ammonium phosphates and other phosphatic fertilizer materials: 7/								
	Gross weight	b/ 517,950	b/ 444,718	b/ 88,241	b/ 88,238	b/ 418,987	b/ 528,632	b/ 103,776	b/ 74,816
	Nitrogen content	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5)	b/ 205,546	b/ 191,082	(X)	(X)	b/r/ 193,047	b/r/ 198,434	(X)	(X)
3251881100	Sulfuric acid (100 percent): 5/								
	Total gross	a/ 10,224,787	a/ 2,728,692	b/ 137,021	a/ 456,125	10,540,856	a/ 2,970,027	b/ 150,217	b/ 467,039
	By feedstock:								
3251881111	Elemental sulfur	a/ 8,747,794	b/ 1,575,371	b/ 75,693	(X)	9,013,771	b/ 1,729,879	b/ 84,486	(X)
3251881121	Smelting metallic sulfide ore	533,689	490,838	13,931	(X)	617,103	609,090	a/ 16,456	(X)
3251881131	Decomposition of alkylation and other spent acid	b/ 746,958	b/ 480,482	b/ 37,356	(D)	b/ 702,075	b/ 448,636	b/ 40,094	(D)
3251881141	Other	a/ 196,346	a/ 182,001	b/ 10,041	(X)	a/ 207,907	182,422	a/ 9,181	(X)

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

Product code	Chemical and basis	First quarter 2005				Fourth quarter 2004			
		Total production	Total shipments, including interplant transfers		Stocks 1/	Total production	Total shipments, including interplant transfers		Stocks 1/
			Quantity	Value			Quantity	Value	
	By grade:								
3251881212	Oleum grades	a/ 348,902	a/ 234,344	b/ 10,245	b/ 39,382	a/ 389,977	b/ 271,431	b/ 12,041	b/ 39,892
3251881231	Other than oleum grades	a/ 9,875,885	a/ 2,494,348	b/ 126,776	a/ 416,743	10,150,879	a/ 2,698,596	b/ 138,176	a/ 427,147
3251881311	Spent acid fortified in contact units and included in above production data	(D)	(X)	(X)	(D)	(D)	(X)	(X)	(D)
	Total new acid 8/	9,477,829	(X)	(X)	(X)	9,838,781	(X)	(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/Product code 3253121222 includes product codes 3253121111 and 3253121221, and product code 3253121322 includes product codes 3253121111 and 3253121321.

7/Product code 3253124222 includes product codes 3253124111 and 3253124121.

8/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 and Related Products: Fourth Quarter 2004
[Metric tons]

Product code 1/	Product description	Beginning stock	Quantity produced	Imports for consumption 2/	Ending stock	Exports of domestic merchandise 3/	Apparent consumption 4/	Percent imports to apparent consumption
3253111120	Anhydrous ammonia, synthetic.....	257,484	2,654,941	1,838,291	332,893	59,516	4,358,307	42.2
3253111201	Ammonium nitrate, original solution...	82,413	1,774,781	291,556	139,643	38,354	1,970,753	14.8
3253111240	Ammonium sulfate.....	111,648	629,757	74,928	87,069	179,566	549,698	13.6
3253111250	Nitrogen solutions, ammonium nitrate/urea solutions 5/.....	56,871	737,409	601,594	72,859	6,018	1,316,997	45.7
3253114100	Urea.....	112,260	1,493,326	1,396,911	106,288	155,683	2,740,526	51.0
3253121100	Phosphoric acid.....	143,660	3,037,567	20,393	151,169	97,889	2,951,155	0.7
3253124211	Diammonium phosphates 6/.....	245,618	2,636,702	2,946	375,664	1,213,075	1,296,527	0.2
3251881100	Sulfuric acid.....	423,378	9,562,665	689,212	427,400	56,609	10,191,246	6.8

1/For comparison of North American Industry Classification System (NAICS)-based product codes, Schedule B export codes, and HTSUSA import codes, 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 3253111250 (gross weight) includes product codes 3253111251 and 3253111256 (gross weight).
6/Gross weight.

Table 4. Comparison of North American Industry Classification System (NAICS)-Based Products Codes with Schedule B Export Codes, and HTUSA Import Codes: 2005

Product code	Product description	Export code1/	Import code 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
3253114100	Urea.....	3102.10.0000	3102.10.0000
3253121100	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
3251881100	Sulfuric acid.....	2807.00.0000	2807.00.0000

1/Source: 2005 edition, Harmonized System-based Schedule B, Statisical Classification of Domestic and Foreign Commodities, Exported from the United States.

2/Source: Harmonized Tariff Schedule of the United states, Annotated (2005).