Fertilizer Materials and Related Products: Second Quarter 2005

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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 second quarter 2005	11,772	7,770	2,902	7,335	6,530	12,826	8,573	41,558
Third quarter 2003 to second quarter 2004	11,683	6,663	2,979	7,309	6,210	12,686	9,027	41,709
2005								
Second quarter	3,038	2,025	749	1,863	1,595	3,198	2,199	10,203
First quarter	2,729	1,946	706	1,938	1,631	3,260	2,114	10,225
2004 1/								
Total	12,058	7,230	3,006	7,129	6,345	12,691	8,736	41,919
Fourth quarter	2,975	1,977	717	1,847	1,707	3,321	2,194	10,696
Third quarter	3,030	1,822	729	1,688	1,597	3,047	2,066	10,434
Fertilizer year (third quarter 2003-second quarter 2004)	11,683	6,663	2,979	7,309	6,210	12,686	9,027	41,709
Second quarter	2,903	1,663	761	1,742	1,523	3,127	2,201	10,424
First quarter	3,150	1,768	799	1,852	1,518	3,196	2,275	10,365
2003 1/								
Total	11,331	6,328	2,871	7,189	6,374	12,537	8,837	41,144
Fourth quarter	3,086	1,754	762	2,042	1,618	3,247	2,348	10,618
Third quarter	2,544	1,478	657	1,673	1,551	3,116	2,203	10,302
Fertilizer year (third quarter 2002-second quarter 2003)	12,618	6,729	2,979	7,373	7,156	12,361	8,668	40,377
Second quarter	3,015	1,589	737	1,771	1,699	3,023	2,117	10,170
First quarter	2,686	1,507	715	1,703	1,506	3,151	2,169	10,054
2002								
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

1/Data for 2004 and 2003 have been revised based on the summary report, MQ325B(04)-5, "Fertilizer Materials and Related Products," issued September 2005.

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	Second quarter 2005				First quarter 2005			
		Total production	Total shipments, including interplant transfers: Quantity	Value	Stocks 1/	Total production	Total shipments, including interplant transfers: Quantity	Value	Stocks 1/
	Ammonia:								
3253111120	Synthetic, anhydrous (100 percent)	b/ 3,037,928	c/ 1,288,398	c/ 298,082	c/ 254,222	b/ 2,728,785	c/ 895,819	c/ 197,361	b/ 338,190
3253111121	Fertilizer use	b/ 2,844,945	(D)	(D)	b/ 232,057	b/ 2,512,058	(D)	(D)	b/ 313,609
3253111131	Other uses	b/ 192,983	(D)	(D)	b/ 22,165	b/ 216,727	(D)	(D)	b/ 24,581
	Ammonium nitrate (100 percent):								
3253111201	Original melt liquor 2/	a/ 2,024,937	b/ 1,199,395	(S)	(S)	a/ 1,946,100	b/r/ 1,070,851	c/ 190,360	b/r/ 152,747
3253111211	Consumed in the manufacture of other nitrogen solutions (e.g., CAN17, AN20, AAN)	b/ 28,802	(X)	(X)	(D)	34,628	(X)	(X)	(D)
3253111216	Liquor consumed in the manufacture of urea-ammonium nitrate solutions	a/ 978,649	(X)	(X)	b/ 35,908	a/ 968,157	(X)	(X)	(D)
3253111221	High density prill and granular	a/ 425,103	a/ 346,546	a/ 62,852	(S)	a/ 413,628	a/ 407,749	a/ 75,266	a/r/ 35,110
3253111226	Low density prill and grained	c/ 487,598	c/ 599,050	c/ 110,005	c/ 12,543	b/ 422,110	c/ 565,755	c/ 100,516	a/ 16,041
3253111231	All other (e.g., liquor sales, etc.)	c/ 104,785	c/ 89,719	(S)	(S)	b/ 107,577	a/ 97,347	(S)	(S)
3253111240	Ammonium sulfate (100 percent)	749,043	b/ 507,901	b/ 73,207	c/ 114,618	706,154	a/ 606,810	b/ 88,135	142,682
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)
3253111250	Nitrogen solutions, including mixtures (100 percent N)	819,365	612,488	103,366	67,505	807,108	663,216	136,338	130,607
3253111251	Ammonium nitrate/urea solutions	(D)	(D)	(D)	(D)	a/ 779,330	b/ 644,328	c/ 132,278	(D)
3253111256	All other solutions 4/	(D)	(D)	(D)	(D)	b/ 27,778	a/ 18,888	a/ 4,060	(D)
3253111111	Nitric acid (100 percent) 5/	b/ 1,862,801	c/ 380,404	c/ 46,791	(X)	b/ 1,937,554	b/ 392,669	c/ 47,837	(X)
3253114101	Urea original melt liquor	a/ 1,594,709	c/ 503,621	c/ 113,188	c/ 108,281	a/ 1,631,362	c/ 960,644	c/ 204,577	b/ 96,046
3253114111	Consumed in the manufacture of urea-ammonium nitrate solutions	a/ 678,617	(D)	(D)	(D)	a/ 707,522	(D)	(D)	(D)
3253114121	Prills	b/ 225,105	(D)	(D)	(D)	b/ 221,035	a/ 180,015	b/ 37,883	(D)
3253114131	Granular	a/ 659,786	b/ 255,345	b/ 55,619	(D)	a/ 675,066	(S)	c/ 141,550	a/ 36,277
3253114141	All other (liquor sales, melamine, feedstock, other)	b/ 31,201	(D)	(D)	(D)	b/ 27,739	(D)	(D)	(D)
3253121100	Phosphoric acid (100 percent P2O5)	3,198,059	755,725	222,142	167,715	3,253,686	1,181,830	314,497	169,001
	By use:								
3253121211	Fertilizer	a/ 2,942,352	a/ 662,007	a/ 167,625	161,849	3,001,500	a/ 1,020,936	a/r/ 242,649	161,840
3253121222	Feed and other 6/	255,707	93,718	54,517	5,866	r/ 252,186	r/ 160,894	r/ 71,848	7,161
	By grade:								
3253121311	Ortho (less than 65 percent P2O5)	a/ 2,844,202	a/ 462,537	a/ 122,506	140,463	2,873,662	a/ 868,608	a/ 210,732	144,209
3253121322	Super (more than 65 percent P2O5) 6/	353,857	293,188	99,636	27,252	380,024	r/ 313,222	103,765	24,792
3253124100	Superphosphate and other phosphatic fertilizer materials:								
	Gross weight	4,704,099	4,896,560	1,008,686	489,319	4,581,114	4,387,599	884,496	r/ 749,722
	Nitrogen content	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5)	2,199,067	2,298,212	(X)	(X)	2,142,860	2,066,091	(X)	(X)
3253124131	Monoammonium phosphates:								
	Gross weight	a/ 1,389,945	a/ 1,394,278	a/ 288,010	122,424	1,233,313	1,213,825	245,220	122,168
	Nitrogen content	a/ 195,428	(X)	(X)	(X)	r/ 203,043	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5)	a/ 716,671	a/ 719,427	a/ (X)	(X)	629,177	619,713	(X)	(X)
3253124211	Diammonium phosphates:								
	Gross weight	2,809,145	3,061,254	628,232	304,399	2,837,500	2,728,552	550,908	r/ 547,376
	Nitrogen content	474,963	(X)	(X)	(X)	521,756	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5)	1,297,061	1,412,674	a/ (X)	(X)	1,309,732	1,255,552	(X)	(X)
3253124222	Normal, enriched, concentrated and other ammonium phosphates and other phosphatic fertilizer materials: 7/								
	Gross weight	b/ 505,009	b/ 441,028	b/ 92,444	a/ 62,496	b/ 510,301	b/ 445,222	b/ 88,368	a/r/ 80,178
	Nitrogen content	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5)	b/ 185,335	b/ 166,111	(X)	(X)	b/ 203,951	b/ 190,826	(X)	(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	Second quarter 2005				First quarter 2005			
		Total production	Total shipments, including interplant transfers: Quantity	Total shipments, including interplant transfers: Value	Stocks 1/	Total production	Total shipments, including interplant transfers: Quantity	Total shipments, including interplant transfers: Value	Stocks 1/
3251881100	Sulfuric acid (100 percent): 5/								
	Total gross	a/ 10,203,036	a/ 2,910,777	b/ 136,883	a/ 447,078	10,223,655	a/ 2,723,803	b/ 132,996	a/ 456,125
	By feedstock:								
3251881111	Elemental sulfur	a/ 8,781,533	b/ 1,654,904	b/ 78,043	(X)	8,757,770	b/ 1,581,416	b/ 74,792	(X)
3251881121	Smelting metallic sulfide ore	587,631	529,508	11,938	(X)	533,689	490,838	13,931	(X)
3251881131	Decomposition of alkylation and other spent acid	b/ 621,858	b/ 514,073	b/ 35,076	(D)	a/r/ 707,754	b/r/ 444,240	b/r/ 32,733	(D)
3251881141	Other	a/ 212,014	a/ 212,292	c/ 11,826	(X)	a/r/ 224,442	a/r/ 207,309	c/r/ 11,540	(X)
	By grade:								
3251881212	Oleum grades	a/ 359,236	a/ 244,159	b/ 10,367	c/ 17,822	a/ 355,625	a/ 234,144	b/ 10,227	b/ 39,382
3251881231	Other than oleum grades	a/ 9,843,800	a/ 2,666,618	b/ 126,516	a/ 429,256	9,868,030	a/ 2,489,659	b/ 122,769	a/ 416,743
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/	9,581,178	(X)	(X)	(X)	9,515,901	(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: First Quarter 2005
[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	363,347	2,475,554	1,762,932	306,806	58,382	4,236,645	41.6
3253111201	Ammonium nitrate, original solution	138,382	1,765,502	166,103	138,572	22,393	1,909,022	8.7
3253111240	Ammonium sulfate	87,068	640,623	87,746	129,441	131,240	554,756	15.8
3253111250	Nitrogen solutions, ammonium nitrate/urea solutions 5/	100,366	732,208	723,830	118,487	4,744	1,433,173	50.5
3253114100	Urea	97,736	1,479,972	1,345,903	87,133	143,119	2,693,359	50.0
3253121100	Phosphoric acid	157,222	2,951,744	20,569	153,318	122,329	2,853,888	0.7
3253124211	Diammonium phosphates 6/	393,249	2,574,180	3,381	496,580	1,470,475	1,003,755	0.3
3251881100	Sulfuric acid	433,262	9,274,900	720,486	417,451	71,923	9,939,274	7.2

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 code 1/	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).