

Fertilizers and Related Chemicals: Second Quarter 2007

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Table 1. Summary of Production of Principal Fertilizers and Related Chemicals: 2005 to 2007
 [Thousands 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 original melt liquor (3253114101) (100 percent)	Phosphoric acid (3253121111) (100 percent P2O5)	Phosphatic fertilizer materials (3253124100) (100 percent P2O5)	Sulfuric acid (3251881100) (100 percent)
2007								
Fertilizer year (third quarter 2006-second quarter 2007).....	11,690	7,766	2,962	7,959	6,266	12,006	7,232	39,885
Second quarter.....	3,002	2,023	744	2,007	1,627	3,071	1,849	10,113
First quarter.....	2,950	2,046	775	2,079	1,514	2,975	1,842	9,824
2006 1/								
Total.....	11,142	6,947	2,870	7,316	5,987	11,800	7,184	39,578
Fourth quarter.....	3,013	1,970	743	1,986	1,531	2,926	1,710	9,994
Third quarter.....	2,725	1,747	699	1,887	1,594	3,034	1,831	9,954
Fertilizer year (third quarter 2005-second quarter 2006).....	10,287	6,519	2,845	6,782	5,316	12,068	7,548	39,685
Second quarter.....	2,879	1,783	756	1,839	1,614	2,965	1,875	9,960
First quarter.....	2,343	1,467	670	1,546	1,191	2,872	1,769	9,659
2005								
Total.....	11,181	8,421	2,906	7,398	5,806	12,610	8,142	40,956
Fourth quarter.....	2,226	1,640	725	1,698	1,108	2,945	1,826	9,593
Third quarter.....	2,839	1,629	694	1,699	1,403	3,286	2,078	10,473
Fertilizer year (third quarter 2004-second quarter 2005).....	12,121	7,741	2,931	7,536	6,599	12,749	8,498	42,035
Second quarter.....	3,272	1,937	765	1,961	1,625	3,163	2,144	10,470
First quarter.....	2,844	2,005	722	2,040	1,670	3,216	2,094	10,420

1/Data for 2006 have been revised based on the summary report, MQ325B(06)-5, "Fertilizers and Related Chemicals," issued July 2007.

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

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

Product code	Chemical and basis	Second quarter 2007						First quarter 2007			
		Total production	Total shipments, including interplant transfers			Total production	Total shipments, including interplant transfers				
			Quantity	Value	Stocks 1/		Quantity	Value	Stocks 1/		
Ammonia:											
3253111120	Synthetic, anhydrous (100 percent).....	b/ 3,001,578	b/ 755,125	b/ 208,261	b/ 311,097	b/ 2,949,949	c/ 711,231	c/ 183,411	b/ 297,317		
3253111121	Fertilizer use.....	b/ 2,694,067	c/ 677,966	c/ 185,876	b/ 281,343	b/ 2,603,502	c/ 630,783	c/ 160,514	b/ 269,449		
3253111131	Other uses.....	a/ 307,511	77,159	22,385	29,754	a/ 346,447	80,448	22,897	27,868		
Ammonium nitrate (100 percent):											
3253111201	Original melt liquor 2/.....	a/ 2,023,325	b/ 945,593	b/ 195,665	b/ 176,337	b/ 2,045,933	b/ 946,932	b/ 185,981	c/ 204,156		
Consumed in the manufacture of other nitrogen solutions (e.g., CAN17, AN20, AAN).....											
3253111211		(D)	(X)	(X)	(D)	(D)	(X)	(X)	(D)		
3253111216	Liquor consumed in the manufacture of urea-ammonium nitrate solutions.....	a/ 1,092,130	(X)	(X)	(D)	a/ 1,102,705	(X)	(X)	(D)		
3253111221	High density prill and granular.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)		
3253111226	Low density prill and grained.....	b/ 523,125	b/ 599,214	b/ 128,516	b/ 49,273	b/ 545,041	b/ 587,155	b/ 123,376	b/ 57,350		
3253111231	All other (e.g., liquor sales, etc.).....	b/ 175,056	(D)	(D)	a/ 23,004	c/ 167,296	(D)	(D)	a/ 25,859		
3253111240	Ammonium sulfate (100 percent).....	744,495	611,851	98,464	(X)	775,093	629,077	83,368	a/ 90,228		
3253111241	Synthetic (direct synthesis from sulfuric acid and ammonia).....	(D)	(D)	(D)	7,533	(D)	(D)	(D)	r/ 23,985		
3253111246	Byproduct 3/.....	(D)	(D)	(D)	74,238	(D)	(D)	(D)	a/ 66,243		
3253111250	Nitrogen solutions, including mixtures (100 percent N)....	a/ 1,005,223	a/ 729,852	a/ 197,887	142,997	b/ 1,039,980	b/ 704,973	b/ 160,193	c/ 183,994		
3253111251	Ammonium nitrate/urea solutions.....	a/ 961,811	685,439	190,065	(D)	994,557	662,012	153,859	(D)		
3253111256	All other solutions 4/.....	43,412	c/ 44,413	a/ 7,822	(D)	r/ 45,423	r/ 42,961	r/ 6,334	(D)		
3253111111	Nitric acid (100 percent) 5/.....	b/ 2,007,452	c/ 648,455	96,375	(X)	b/ 2,078,606	c/ 588,590	b/ 82,557	b/ (X)		
3253114101	Urea original melt liquor.....	a/ 1,627,198	b/ 456,812	b/ 134,618	90,044	a/ 1,514,218	a/r/ 473,323	r/ 135,971	b/ 83,736		
3253114111	Consumed in the manufacture of urea-ammonium nitrate solutions.....	b/ 739,604	(D)	(D)	(D)	b/ 722,898	(D)	(D)	(D)		
3253114121	Prills.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)		
3253114131	Granular.....	a/ 692,345	c/ 205,165	c/ 41,234	39,179	(D)	r/ 204,726	a/r/ 38,444	36,923		
3253114141	All other (liquor sales, melamine, feedstock, other).....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)		
3253121100	Phosphoric acid (100 percent P2O5)	3,071,090	a/ 707,420	a/ 221,530	156,371	a/ 2,974,805	b/ 728,482	b/ 209,252	a/ 146,940		
By use:											
3253121211	Fertilizer.....	2,793,828	a/ 607,628	a/ 184,182	149,524	a/ 2,719,750	b/ 643,356	b/ 171,232	a/ 138,800		
3253121222	Feed and other 6/.....	277,262	99,792	37,348	6,847	255,055	85,126	38,020	8,140		
By grade:											
3253121311	Ortho (less than 65 percent P2O5).....	2,798,656	434,396	122,622	a/ 138,245	2,692,487	b/ 450,070	b/ 115,913	126,536		
3253121322	Super (more than 65 percent P2O5) 6/	272,434	273,024	98,908	18,126	282,318	278,412	93,339	20,404		
3253124100	Superphosphate and other phosphatic fertilizer materials:										
	Gross weight.....	3,913,392	4,241,000	940,563	388,136	3,969,293	4,093,970	834,200	364,311		
	Nitrogen content.....	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)		
	Phosphoric oxide content (100 percent P2O5).....	1,849,076	1,887,786	(X)	(X)	1,842,107	1,947,386	(X)	(X)		
3253124131	Monoammonium phosphates:										
	Gross weight.....	a/ 1,363,670	1,336,394	a/ 321,037	129,513	a/r/ 1,185,682	a/ 1,085,316	a/r/ 243,445	r/ 116,755		
	Nitrogen content.....	191,029	(X)	(X)	(X)	160,066	(X)	(X)	(X)		
	Phosphoric oxide content (100 percent P2O5).....	617,226	616,731	(X)	(X)	a/ 536,498	a/ 538,942	(X)	(X)		
3253124211	Diammonium phosphates:										
	Gross weight.....	2,112,371	2,470,568	520,796	196,396	2,350,489	2,580,249	r/ 495,157	r/ 186,609		
	Nitrogen content.....	406,077	(X)	(X)	(X)	425,919	(X)	(X)	(X)		
	Phosphoric oxide content (100 percent P2O5).....	1,018,241	1,068,450	(X)	(X)	1,086,295	1,190,368	(X)	(X)		
3253124222	Normal, enriched, concentrated, and other ammonium phosphates and other phosphatic fertilizer materials: 7/										
	Gross weight.....	437,351	434,038	98,730	(D) b/r/	433,122	b/r/ 428,405	b/r/ 95,598	b/r/ 60,947		
	Nitrogen content.....	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)		
	Phosphoric oxide content (100 percent P2O5).....	213,609	(D)	(X)	(X) b/r/	219,314	(D)	(X)	(X)		
3251881100	Sulfuric acid (100 percent): 5/										
	Total gross.....	a/ 10,112,520	b/ 3,311,307	c/ 175,101	a/ 478,362	a/ 9,824,233	b/ 3,065,601	b/ 162,935	a/ 514,308		
By feedstock:											
3251881111	Elemental sulfur.....	a/ 8,552,151	b/ 2,026,035	c/ 108,844	(X)	b/ 8,478,652	c/ 1,804,032	c/ 99,426	(X)		
3251881121	Smelting metallic sulfide ore.....	b/ 718,700	b/ 670,243	c/ 21,642	(X)	r/ 655,735	665,731	a/r/ 21,225	(X)		
3251881131	Decomposition of alkylation and other spent acid.....	a/ 645,876	a/ 467,872	a/ 36,263	(D)	a/ 517,254	b/ 451,919	a/ 33,958	(D)		
3251881141	Other.....	a/ 195,793	b/ 147,157	a/ 8,352	(X)	a/ 172,592	b/ 143,919	b/r/ 8,326	(X)		

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

Product code	Chemical and basis	Second quarter 2007						First quarter 2007			
		Total production		Total shipments, including interplant transfers			Total production		Total shipments, including interplant transfers		
		Quantity	Value	Quantity	Value	Stocks 1/	Quantity	Value	Quantity	Value	Stocks 1/
By grade:											
3251881212	Oleum grades.....	a/ 377,298	b/ 258,205	b/ 12,772	a/ 35,080	b/ 401,148	a/ 273,520	b/ 13,334	b/ 37,153		
3251881231	Other than oleum grades.....	a/ 9,735,222	b/ 3,053,102	b/ 162,329	a/ 443,282	a/ 9,423,085	b/ 2,792,081	b/ 149,601	b/ 477,155		
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/.....	9,270,851	(X)	(X)	(X)	9,134,387	(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.
 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 Fertilizers and Related Chemicals: First Quarter 2007
[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	Ammonia, synthetic, anhydrous.....	206,495	2,654,954	1,854,384	267,585	(NA)	(NA)	(NA)
3253111201	Ammonium nitrate, original melt liquor....	152,075	1,841,340	369,365	183,740	(NA)	(NA)	(NA)
3253111240	Ammonium sulfate.....	126,201	697,584	116,230	81,205	(NA)	(NA)	(NA)
3253111250	Nitrogen solutions, including mixtures 5/.....	138,746	935,982	970,076	165,595	(NA)	(NA)	(NA)
3253114101	Urea original melt liquor.....	101,695	1,362,796	2,011,755	75,362	(NA)	(NA)	(NA)
3253121111	Phosphoric acid.....	143,030	2,677,325	7,389	132,246	(NA)	(NA)	(NA)
3253124211	Diammonium phosphates 6/.....	208,731	977,666	1,805	167,948	(NA)	(NA)	(NA)
3251881100	Sulfuric acid.....	514,143	8,841,810	663,799	462,877	86,841	9,367,502	7.1

NA Not available.

1/For comparison of North American Industry Classification System (NAICS)-based product codes with 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 HTSUSA Import Codes: 2007

Product code	Product description	Export code 1/	Import code 2/
3253111120	Ammonia, synthetic, anhydrous.....	2814.10.0000	2814.10.0000
3253111201	Ammonium nitrate, original melt liquor.....	3102.30.0000	3102.30.0000
3253111240	Ammonium sulfate.....	3102.21.0000	3102.21.0000
3253111250	Nitrogen solutions, including mixtures.....	3102.80.0000	3102.80.0000
3253114101	Urea original melt liquor.....	3102.10.0000	3102.10.0000
3253121111	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: 2007 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 (2007).