

Fertilizers and Related Chemicals: Third Quarter 2007

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Table 1. Summary of Production of Principal Fertilizers and Related Chemicals: 2005 to 2007
[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 original melt liquor (3253114101) (100 percent)	Phosphoric acid (3253121111) (100 percent P2O5)	Phosphatic fertilizer materials (3253124100) (100 percent P2O5)	Sulfuric acid (3251881100) (100 percent)
Year-to-date:								
First quarter 2007 to third quarter 2007.....	8,864	6,017	2,254	6,069	4,737	8,919	5,520	29,916
First quarter 2006 to third quarter 2006.....	7,967	5,097	2,127	5,298	4,403	8,871	5,474	29,597
2007								
Third quarter.....	2,903	1,932	735	1,997	1,594	2,966	1,858	10,224
Fertilizer year (third quarter 2006-second quarter 2007).....	11,699	7,802	2,961	7,946	6,267	11,912	7,202	39,640
Second quarter.....	3,011	2,039	744	1,994	1,628	2,977	1,820	9,868
First quarter.....	2,950	2,046	775	2,079	1,514	2,975	1,842	9,824
2006 1/								
Total.....	10,981	7,068	2,870	7,284	5,934	11,797	7,184	39,591
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).....	10,307	6,619	2,847	6,808	5,320	12,079	7,548	39,709
Second quarter.....	2,891	1,831	757	1,849	1,620	2,969	1,875	9,943
First quarter.....	2,351	1,519	671	1,562	1,189	2,868	1,769	9,700
2005 1/								
Total.....	11,181	7,212	2,906	7,398	5,807	12,621	8,141	40,996
Fourth quarter.....	2,226	1,640	725	1,698	1,108	2,951	1,826	9,593
Third quarter.....	2,839	1,629	694	1,699	1,403	3,291	2,078	10,473
Fertilizer year (third quarter 2004-second quarter 2005).....	12,121	7,741	2,933	7,536	6,599	12,747	8,498	42,020
Second quarter.....	3,272	1,937	765	1,961	1,625	3,163	2,144	10,490
First quarter.....	2,844	2,005	722	2,040	1,670	3,216	2,094	10,441

1/Data for 2005 and 2006 have been revised based on the summary report, MQ325B(065)-5, "Fertilizers and Related Chemicals," issued July 2007.

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	Third quarter 2007						Second quarter 2007					
		Total shipments, including interplant transfers			Total shipments, including interplant transfers								
		Total production	Quantity	Value	Stocks 1/	Total production	Quantity	Value	Stocks 1/				
Ammonia:													
3253111120	Synthetic, anhydrous (100 percent).....	b/ 2,903,070	b/ 803,519	b/ 279,824	b/ 321,635	b/ 3,011,057	b/ 790,533	b/r/ 225,114	b/ 298,034				
3253111121	Fertilizer use.....	b/ 2,647,346	b/ 712,934	a/ 254,316	b/ 297,600	b/ 2,703,546	b/ 713,374	b/r/ 202,729	a/ 268,280				
3253111131	Other uses.....	b/ 255,724	c/ 90,585	c/ 25,508	a/ 24,035	307,511	77,159	22,385	29,754				
Ammonium nitrate (100 percent):													
3253111201	Original melt liquor 2/.....	1,931,953	c/ 893,004	b/ 180,402	b/ 152,296	2,039,482	b/ 945,593	b/ 195,665	b/r/ 142,196				
3253111211	Consumed in the manufacture of other nitrogen solutions (e.g., CAN17, AN20, AAN).....	(D)	(X)	(X)	(D)	(D)	(X)	(X)	(D)				
3253111216	Liquor consumed in the manufacture of urea-ammonium nitrate solutions.....	b/ 1,053,175	(X)	(X)	a/ 90,715	a/ 1,106,396	(X)	(X)	b/ 78,660				
3253111221	High density prill and granular.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)				
3253111226	Low density prill and granular.....	c/ 539,476	c/ 606,530	c/ 131,302	c/ 35,037	b/ 523,125	b/ 599,214	b/ 128,516	b/ 46,273				
3253111231	All other (e.g., liquor sales, etc.).....	c/ 159,488	c/ (D)	c/ (D)	b/ 13,018	b/ 175,094	(D)	(D)	b/r/ 9,146				
3253111240	Ammonium sulfate (100 percent).....	734,820	530,921	90,914	92,177	744,495	611,851	98,464	69,412				
3253111241	Synthetic (direct synthesis from sulfuric acid and ammonia).....	(D)	(D)	(D)	a/ 18,886	(D)	(D)	(D)	r/ 15,174				
3253111246	Byproduct 3/.....	(D)	(D)	(D)	73,291	(D)	(D)	(D)	r/ 54,238				
3253111250	Nitrogen solutions, including mixtures (100 percent N).....	b/ 977,356	c/ 711,599	c/ 190,052	a/ 140,249	1,017,848	r/ 816,972	a/r/ 212,508	r/ 125,048				
3253111256	UAN solutions (ammonium nitrate/urea solutions).....	932,235	674,454	183,550	126,208	a/ 974,196	r/ 774,473	r/ 205,554	115,523				
3253111251	All other solutions 4/.....	45,121	37,145	6,502	14,041	43,652	c/ 42,499	b/r/ 6,954	a/ 9,525				
3253111111	Nitric acid (100 percent) 5/.....	c/ 1,996,763	c/ 687,640	b/ 100,872	(X)	b/ 1,993,525	c/r/ 611,460	r/ 88,842	(X)				
3253114101	Urea original melt liquor.....	b/ 1,594,233	b/ 481,548	a/ 148,479	b/ 84,943	a/ 1,628,056	b/ 458,583	a/r/ 146,020	90,044				
3253114111	Consumed in the manufacture of urea-ammonium nitrate solutions.....	c/ 738,830	81,880	27,845	(D)	a/ 740,266	76,553	26,441	(D)				
3253114121	Prills.....	(D)	(D)	(D)	(D)	a/ 164,115	(D)	(D)	24,907				
3253114131	Granular.....	a/ 663,357	c/ 197,159	b/ 47,285	b/ 44,434	a/ 692,029	c/ 202,717	b/r/ 50,739	39,179				
3253114141	All other (liquor sales, melamine, feedstock, other).....	(D)	(D)	(D)	(D)	31,646	(D)	(D)	(D)				
3253121111	Phosphoric acid (100 percent P2O5).....	2,966,471	565,301	177,360	174,507	2,977,364	r/ 752,486	r/ 238,030	r/ 185,109				
By use:													
3253121211	Fertilizer.....	a/ 2,692,265	a/ 475,769	a/ 136,007	168,815	a/ 2,703,950	a/r/ 652,694	a/ 191,958	r/ 179,524				
3253121221	Feed and other 6/.....	274,206	89,532	41,353	5,692	273,414	99,792	r/ 46,072	r/ 5,585				
By grade:													
3253121311	Ortho (less than 65 percent P2O5).....	2,696,435	a/ 299,200	a/ 86,757	152,492	2,708,778	r/ 479,462	a/r/ 139,122	r/ 167,273				
3253121321	Super (more than 65 percent P2O5) 6/.....	270,036	266,101	90,603	22,015	268,586	273,024	98,908	17,836				
3253124100	Superphosphate and other phosphatic fertilizer materials:												
	Gross weight.....	4,028,645	3,992,601	1,258,252	445,057	3,924,787	r/ 3,852,791	r/ 1,015,647	r/ 413,883				
	Nitrogen content.....	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)				
	Phosphoric oxide content (100 percent P2O5).....	1,858,143	1,917,987	(X)	(X)	1,819,696	1,825,610	(X)	(X)				
3253124131	Monoammonium phosphates:												
	Gross weight.....	1,319,009	a/ 1,390,679	429,941	114,541	r/ 1,456,700	r/ 1,424,707	r/ 350,157	132,225				
	Nitrogen content.....	b/ 173,577	(X)	(X)	(X)	198,446	(X)	(X)	(X)				
	Phosphoric oxide content (100 percent P2O5).....	a/ 635,273	(D)	(X)	(X)	r/ 725,501	(D)	(X)	(X)				
3253124211	Diammonium phosphates:												
	Gross weight.....	a/ 2,523,547	2,431,680	777,201	a/ 295,787	2,217,244	r/ 2,175,858	r/ 597,587	r/ 248,901				
	Nitrogen content.....	a/ 445,206	(X)	(X)	(X)	423,159	(X)	(X)	(X)				
	Phosphoric oxide content (100 percent P2O5).....	1,122,019	1,093,147	(X)	(X)	r/ 960,908	r/ 972,316	(X)	(X)				
3253124222	Normal, enriched, concentrated, and other ammonium phosphates and other phosphatic fertilizer materials: 7/												
	Gross weight.....	186,089	170,242	51,110	34,729	r/ 250,843	r/ 252,226	r/ 67,903	32,757				
	Nitrogen content.....	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)				
	Phosphoric oxide content (100 percent P2O5).....	100,851	(D)	(X)	(X)	r/ 133,287	(D)	(X)	(X)				
3251881100	Sulfuric acid (100 percent): 5/												
	Total gross.....	b/ 10,223,992	b/ 3,450,277	c/ 185,658	a/ 383,715	a/ 9,868,255	b/ 3,312,987	c/ 176,737	a/r/ 438,362				
By feedstock:													
3251881111	Elemental sulfur.....	a/ 8,636,414	c/ 2,128,657	c/ 119,427	(X)	a/r/ 8,307,886	b/ 2,027,715	c/ 109,922	(X)				
3251881121	Smelting metallic sulfide ore.....	b/ 712,304	b/ 678,696	c/ 20,320	(X)	b/ 718,700	b/ 670,243	c/ 21,642	(X)				
3251881131	Decomposition of alkylation and other spent acid.....	a/ 676,771	a/ 486,412	a/ 37,181	c/ 38,057	a/ 645,876	a/ 467,872	a/ 36,821	a/ 32,176				
3251881141	Other.....	b/ 198,503	b/ 156,512	b/ 8,730	(X)	a/ 195,793	b/ 147,157	a/ 8,352	(X)				
By grade:													
3251881212	Oleum grades.....	b/ 377,311	a/ 295,719	b/ 12,121	27,577	a/ 377,298	b/ 258,205	b/ 12,772	a/ 35,080				
3251881231	Other than oleum grades.....	a/ 9,846,681	b/ 3,154,558	b/ 173,537	a/ 356,138	a/ 9,490,957	b/ 3,054,782	163,965	a/r 403,282				

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	Third quarter 2007					Second quarter 2007			
		Total production	Total shipments, including interplant transfers			Total production	Total shipments, including interplant transfers			
			Quantity	Value	Stocks 1/		Quantity	Value	Stocks 1/	
3251881311	Spent acid fortified in contact units and included in above production data..... a/	262,537	(X)	(X)	(D)	a/ 282,282	(X)	(X)	(D)	
	Total new acid 8/.....	9,348,718	(X)	(X)	(X)	9,026,586	(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: Second 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.....	269,721	2,731,586	2,177,222	270,372	(NA)	(NA)	(NA)
3253111201	Ammonium nitrate, original melt liquor....	185,207	1,850,187	233,893	128,998	(NA)	(NA)	(NA)
3253111240	Ammonium sulfate.....	81,853	675,395	120,906	62,970	(NA)	(NA)	(NA)
3253111250	Nitrogen solutions, including mixtures 5/.....	166,916	923,376	578,051	113,442	(NA)	(NA)	(NA)
3253114101	Urea original melt liquor.....	75,964	1,476,948	1,610,650	81,687	(NA)	(NA)	(NA)
3253121111	Phosphoric acid.....	133,301	2,701,020	26,996	167,928	(NA)	(NA)	(NA)
3253124211	Diammonium phosphates 6/.....	169,288	871,721	4,819	225,799	(NA)	(NA)	(NA)
3251881100	Sulfuric acid.....	466,572	8,952,333	669,428	397,675	80,064	9,610,594	7.0

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/Phosphoric oxide content

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).