

Fertilizers and Related Chemicals: Fourth Quarter 2006

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Table 1. Summary of Production of Principal Fertilizers and Related Chemicals: 2004 to 2006
[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 2006 to fourth quarter 2006.....	11,421	6,947	2,870	7,316	5,987	11,802	7,184	39,640
First quarter 2005 to fourth quarter 2005.....	11,181	8,421	2,906	7,398	5,806	12,610	8,142	40,956
2006								
Total.....	11,421	6,947	2,870	7,316	5,987	11,802	7,184	39,640
Fourth quarter.....	3,259	1,960	744	2,016	1,560	2,929	1,710	10,048
Third quarter.....	r/ 2,940	1,737	700	1,915	1,622	3,036	1,830	9,973
Fertilizer year (third quarter 2005-second quarter 2006).....	10,287	7,729	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 1/								
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	2,839	694	1,699	1,403	3,286	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	10,470
First quarter.....	2,844	2,005	722	2,040	1,670	3,216	2,094	10,420
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

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

1/Data for 2005 and 2004 have been revised based on the summary report, MQ325B(05)-5, "Fertilizers and Related Chemicals," issued August 2006.

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	Fourth quarter 2006						Third quarter 2006			
		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/ 3,259,211	a/ 998,114	a/ 268,187	a/ 244,152	a/r/ 2,940,097	a/r/ 1,033,988	a/r/ 273,247	b/r/ 268,097		
3253111121	Fertilizer use.....	b/ 2,914,391	(D)	(D)	b/ 202,501	a/r/ 2,662,033	(D)	(D)	b/r/ 220,366		
3253111131	Other uses.....	344,820	(D)	(D)	a/ 41,651	278,064	(D)	(D)	a/ 47,731		
Ammonium nitrate (100 percent):											
3253111201	Original melt liquor 2/.....	b/ 1,960,058	b/ 867,875	b/ 166,251	b/ 167,634	b/ 1,736,754	b/ 774,972	b/ 152,775	b/r/ 131,888		
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.....	a/ 1,058,641	(X)	(X)	(D)	a/ 960,271	(X)	(X)	(D)		
3253111221	High density prill and granular.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)		
3253111226	Low density prill and grained.....	b/ 529,255	b/ 532,396	b/ 111,234	c/ 57,008	b/ 477,312	b/ 534,617	b/ 112,768	c/ 19,113		
3253111231	All other (e.g., liquor sales, production loss, other)...	c/ 175,446	(D)	(D)	a/ 20,753	c/ 144,827	(D)	(D)	a/ 9,022		
3253111240	Ammonium sulfate (synthetic and byproduct, other than coke oven), total (100 percent).....	743,581	567,123	76,298	138,391	700,218	579,543	72,734	115,086		
3253111241	Synthetic (direct synthesis from sulfuric acid and ammonia).....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)		
3253111246	Byproduct other than coke oven.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)		
3253111250	Nitrogen solutions, including mixtures (100 percent N).....	998,453	700,253	149,935	152,941	931,264	r/ 607,527	r/ 134,711	r/ 153,531		
3253111256	UAN solutions (ammonium nitrate/urea solutions)....	a/ 976,005	a/ 677,994	a/ 143,795	(D)	a/ 912,191	a/r/ 591,713	a/r/ 130,449	(D)		
3253111251	All other solutions (e.g., CAN17, AN20, AAN, other) and solutions containing free ammonia 3/....	b/ 22,448	a/ 22,259	a/ 6,140	(D)	c/ 19,073	c/ 15,814	b/ 4,262	(D)		
3253111111	Nitric acid (100 percent) 4/.....	b/ 2,015,647	c/ 568,524	c/ 79,434	(X)	b/ 1,914,760	c/ 554,203	c/ 75,216	(X)		
3253114101	Urea original melt liquor.....	a/ 1,559,817	a/ 389,493	107,101	a/ 112,099	a/ 1,621,711	a/ 537,852	a/ 132,329	a/r/ 123,297		
3253114111	Consumed in the manufacture of urea-ammonium nitrate solutions.....	a/ 726,327	(D)	(D)	(D)	a/r/ 697,206	(D)	(D)	(D)		
3253114121	Prills.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)		
3253114131	Granular.....	a/ 643,830	b/ 153,874	a/ 33,319	b/ 64,411	a/ 741,671	b/ 300,826	b/ 62,208	a/r/ 83,075		
3253114141	All other (liquor sales, melamine, feedstock, other).....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)		
3253121111	Phosphoric acid (100 percent P2O5)	2,928,729	698,180	198,168	157,663	3,036,371	721,719	r/ 205,397	148,733		
By use:											
3253121211	Fertilizer	a/ 2,676,424	a/ 605,119	a/ 158,941	a/ 148,831	2,774,922	a/r/ 628,373	a/r/ 164,371	141,594		
3253121221	Animal feed (e.g., defluorinated and industrial) (e.g., refined/technical)	252,305	93,061	39,227	8,832	r/ 261,449	r/ 93,346	41,026	7,139		
By grade:											
3253121311	Ortho (less than 65 percent P2O5) (includes merchant grade and all others)	a/ 2,645,778	a/ 413,805	a/ 107,470	a/ 140,037	2,752,563	a/ 434,026	a/ 112,010	128,993		
3253121321	Super (more than 65 percent P2O5)	282,951	284,375	90,698	17,626	r/ 283,808	r/ 287,693	r/ 93,387	19,740		
3253124100	Superphosphate and other phosphatic fertilizer materials:										
	Gross weight.....	3,640,231	3,983,952	768,133	367,960	3,890,367	4,048,365	795,586	490,645		
	Nitrogen content.....	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)		
	Phosphoric oxide content (100 percent P2O5).....	1,709,963	1,772,200	(X)	(X)	1,830,431	1,902,731	(X)	(X)		
3253124131	Monoammonium phosphates:										
	Gross weight.....	b/ 998,562	b/ 1,020,485	b/ 199,990	b/ 83,632	1,132,664	a/ 1,211,833	a/r/ 243,258	93,470		
	Nitrogen content.....	a/ 144,906	(X)	(X)	(X)	r/ 163,615	(X)	(X)	(X)		
	Phosphoric oxide content (100 percent P2O5).....	b/ 483,112	b/ 497,353	b/ (X)	(X)	569,774	613,132	(X)	(X)		
3253124211	Diammonium phosphates:										
	Gross weight.....	b/ 2,321,305	b/ 2,629,858	b/ 501,576	b/ 230,086	2,451,408	2,536,007	494,049	339,005		
	Nitrogen content.....	b/ 426,981	(X)	(X)	(X)	r/ 435,932	(X)	(X)	(X)		
	Phosphoric oxide content (100 percent P2O5).....	b/ 1,052,192	b/ 1,101,114	b/ (X)	(X)	1,099,439	1,137,427	(X)	(X)		
3253124222	Other ammonium phosphates: 5/										
	Gross weight.....	a/ 320,364	b/ 333,609	b/ 66,567	c/ 54,242	a/ 306,295	a/r/ 300,525	a/ 58,279	a/ 58,170		
	Nitrogen content.....	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)		
	Phosphoric oxide content (100 percent P2O5).....	174,659	b/ 173,733	(X)	(X)	b/ 161,218	b/ 152,172	(X)	(X)		
3251881100	Sulfuric acid (100 percent): 4/										
	Total gross.....	a/ 10,047,895	b/ 2,965,780	b/ 166,999	a/ 571,369	a/ 9,972,617	b/ 3,179,701	b/ 176,613	a/ 421,841		
By feedstock:											
3251881111	Elemental sulfur.....	a/ 8,656,851	b/ 1,855,146	c/ 101,260	(X)	8,397,153	b/ 1,904,787	c/ 104,844	(X)		
3251881121	Smelting metallic sulfide ore.....	b/ 460,064	b/ 458,426	c/ 18,654	(X)	560,737	594,495	a/ 23,276	(X)		
3251881131	Decomposition of alkylation and other spent acid.....	a/ 731,734	b/ 489,287	b/ 36,450	(D)	a/ 801,854	a/ 517,291	38,125	(D)		

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 [Quantity in short tons. Value in thousands of dollars]

Product code	Chemical and basis	Fourth quarter 2006							Third quarter 2006								
		Total production		Total shipments, including interplant transfers			Total production		Total shipments, including interplant transfers								
		Quantity	Value	Quantity	Value	Stocks 1/	Quantity	Value	Stocks 1/								
3251881141	Other.....	b/	199,246	b/	162,921	b/	10,635	(X)	a/	212,873	a/	163,128	b/r/	10,368	(X)		
	By grade:																
3251881212	Oleum grades.....	b/	428,740	b/	284,755	b/	13,557	b/	35,032	b/	414,943	b/	296,516	b/	14,735	b/	29,847
3251881231	Other than oleum grades.....	a/	9,619,155	b/	2,681,025	b/	153,442	a/	536,337	a/	9,557,674	b/	2,883,185	b/	161,878		391,994
3251881311	Spent acid used in fortification.....		(D)		(X)		(X)		(D)		(D)		(X)		(X)		(D)
	Total new acid 6/.....		9,316,161		(X)		(X)		(X)		9,170,763		(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/Solutions containing two or more products such as (a) ammonia, ammonium nitrate; (b) ammonia, urea; (c) ammonia, ammonium nitrate, urea.
- 4/Includes data for government-owned, contractor-operated plants.
- 5/Product code 3253124222 includes product codes 3253124111 and 3253124121.
- 6/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: Third Quarter 2006
[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.....	284,315	2,667,212	1,771,760	243,214	N/A	N/A	N/A
3253111201	Ammonium nitrate, original melt liquor....	158,139	1,575,557	170,742	119,647	N/A	N/A	N/A
3253111240	Ammonium sulfate.....	140,453	635,227	57,506	104,404	N/A	N/A	N/A
3253111250	Nitrogen solutions, including mixtures 5/.....	132,233	844,829	309,668	139,281	N/A	N/A	N/A
3253114101	Urea original melt liquor.....	146,688	1,471,192	826,942	111,853	N/A	N/A	N/A
3253121111	Phosphoric acid.....	133,191	2,754,550	23,076	134,928	N/A	N/A	N/A
3253124211	Diammonium phosphates 6/.....	339,274	2,223,881	1,271	307,540	N/A	N/A	N/A
3251881100	Sulfuric acid.....	479,840	9,047,009	679,794	382,688	N/A	N/A	N/A

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: 2006

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: 2006 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 (2006).