

Fertilizers and Related Chemicals: Fourth Quarter 2007

Issued March 2008

MQ325B(07)-4

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 (XLS 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 Bridgett Parker-Bell, 301-763-6618.

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 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 fourth quarter 2007.....	11,846	8,061	3,126	8,138	6,205	12,128	7,341	40,393
First quarter 2006 to fourth quarter 2006.....	10,981	7,068	2,870	7,284	5,934	11,797	7,184	39,591
2007								
Total.....	11,846	8,061	3,126	8,138	6,205	12,128	7,341	40,393
Fourth quarter.....	3,011	2,070	852	2,097	1,493	3,209	1,811	10,480
Third quarter.....	2,874	1,906	755	1,968	1,570	2,966	1,868	10,222
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	2,945	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

1/Data for 2005 to 2006 have been revised based on the summary report, MQ325B(05)-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	Fourth quarter 2007						Third quarter 2007					
		Total production		Total shipments, including interplant transfers		Stocks 1/	Total production		Total shipments, including interplant transfers		Stocks 1/		
		Quantity	Value	Quantity	Value		Quantity	Value	Quantity	Value			
Ammonia:													
3253111120	Synthetic, anhydrous (100 percent).....	b/ 3,011,193	c/ 936,041	c/ 321,089	b/ 212,431	b/ 2,874,199	b/ 824,298	b/r 294,040	b/ 320,597				
3253111121	Fertilizer use.....	b/ 2,648,843	c/ 831,102	c/ 289,418	b/ 191,342	b/ 2,618,475	b/ 733,713	b/r 268,532	b/ 296,562				
3253111131	Other uses.....	b/ 362,350	c/ 104,939	c/ 31,671	b/ 21,089	b/ 255,724	c/ 90,585	c/ 25,508	b/ 24,035				
Ammonium nitrate (100 percent):													
3253111201	Original melt liquor 2/.....	2,069,702	c/ 982,896	b/ 200,223	b/ 159,873	1,905,844	c/ 893,004	b/ 180,402	b/ 152,296				
3253111211	Consumed in the manufacture of other nitrogen solutions (e.g., CAN17, AN20, AAN).....	38,256	(X)	(X)	(D)	36,632	(X)	(X)	(D)				
3253111216	Liquor consumed in the manufacture of urea-ammonium nitrate solutions.....	a/ 1,130,816	(X)	(X)	c/ 82,613	b/ 1,033,272	(X)	(X)	b/ 90,715				
3253111221	High density prill and granular.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)				
3253111226	Low density prill and grained.....	b/ 574,211	c/ 632,298	c/ 136,620	c/ 42,397	c/ 539,476	c/ 606,530	c/ 131,312	c/ 35,037				
3253111231	All other (e.g., liquor sales, production loss, other).....	(D)	(D)	(D)	c/ 15,144	(D)	(D)	(D)	b/ 13,018				
3253111240	Ammonium sulfate (synthetic and byproduct, other than coke oven), total (100 percent).....	852,331	557,605	115,570	174,912	754,693	530,921	90,914	r/ 152,177				
3253111241	Synthetic (direct synthesis from sulfuric acid and ammonia).....	(D)	(D)	(D)	a/ 20,206	(D)	(D)	(D)	b/ 18,886				
3253111246	Byproduct other than coke oven.....	(D)	(D)	(D)	154,706	(D)	(D)	(D)	r/ 133,291				
3253111250	Nitrogen solutions, including mixtures (100 percent N).....	1,031,364	b/ 784,246	b/ 231,771	c/ 140,978	b/ 961,857	b/ 705,645	b/r 203,326	b/ 141,891				
3253111256	UAN solutions (ammonium nitrate/urea solutions).....	b/ 978,727	a/ 735,141	222,785	(D)	916,736	668,500	r/ 196,824	(D)				
3253111251	All other solutions (e.g., CAN17, AN20, AAN, other) and solutions containing free ammonia 3/.....	52,637	49,105	8,986	(D)	45,121	37,145	6,502	(D)				
3253111111	Nitric acid (100 percent) 4/.....	b/ 2,097,347	c/ 640,088	b/ 95,481	(X)	b/ 1,967,744	c/ 687,335	c/ 100,818	(X)				
3253114101	Urea original melt liquor.....	b/ 1,492,519	b/ 420,216	b/ 141,857	b/ 126,139	b/ 1,570,414	b/ 481,548	b/ 148,479	b/r 134,943				
3253114111	Consumed in the manufacture of urea-ammonium nitrate solutions.....	b/ 744,462	b/ 80,260	b/ 29,445	c/ 6,988	b/ 715,011	81,880	27,845	(D)				
3253114121	Prills.....	b/ 155,832	(D)	(D)	(D)	(D)	(D)	(D)	(D)				
3253114131	Granular.....	(D)	c/ 151,079	b/ 38,122	c/ 85,075	b/ 663,357	c/ 197,159	b/ 47,285	b/r 94,434				
3253114141	All other (liquor sales, melamine, feedstock, other).....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)				
3253121111	Phosphoric acid (100 percent P2O5).....	3,209,377	614,249	211,596	121,250	2,966,471	565,301	177,360	174,507				
By use:													
3253121211	Fertilizer.....	b/ 2,941,076	a/ 521,051	a/ 168,669	b/ 112,839	b/ 2,692,265	b/ 475,769	b/ 136,007	168,815				
3253121221	Animal feed (e.g., defluorinated and industrial) (e.g., refined/technical).....	268,301	93,198	42,927	8,411	274,206	89,532	41,353	5,692				
By grade:													
3253121311	Ortho (less than 65 percent P2O5) (includes merchant grade and all others).....	2,918,130	b/ 255,280	b/ 87,508	a/ 104,467	2,696,435	b/r 257,482	r/ 79,115	152,492				
3253121321	Super (more than 65 percent P2O5).....	291,247	358,969	124,088	16,783	270,036	r/ 307,819	r/ 98,245	22,015				
3253124100	Superphosphate and other phosphatic fertilizer materials:	4,032,989	3,925,681	1,234,718	429,607	4,068,645	4,032,932	r/ 1,278,583	r/ 468,157				
	Gross weight.....	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)				
	Nitrogen content.....	1,811,143	1,863,547	(X)	(X)	1,868,143	1,927,659	(X)	(X)				
3253124131	Monoammonium phosphates:	1,308,600	c/ 1,275,829	b/ 402,516	a/ 145,542	1,319,009	b/ 1,391,010	430,272	r/ 137,541				
	Gross weight.....	c/ 174,027	(X)	(X)	(X)	b/ 173,577	(X)	(X)	(X)				
	Nitrogen content.....	c/ 630,270	(D)	(X)	(X)	b/ 635,273	(D)	(X)	(X)				
3253124211	Diammonium phosphates:	2,415,764	c/ 2,356,958	c/ 728,056	b/ 241,735	b/ 2,523,547	2,431,680	777,201	b/ 295,787				
	Gross weight.....	c/ 381,950	(X)	(X)	(X)	b/ 445,206	(X)	(X)	(X)				
	Nitrogen content.....	c/ 1,019,452	c/ 1,028,735	(X)	(X)	1,122,019	1,092,615	(X)	(X)				
3253124222	Other ammonium phosphates: 5/	308,625	292,894	104,146	42,330	r/ 226,089	r/ 210,242	r/ 71,110	34,829				
	Gross weight.....	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)				
	Nitrogen content.....	161,421	(D)	(X)	(X)	r/ 110,851	(D)	(X)	(X)				
3251881100	Sulfuric acid (100 percent): 4/	b/ 10,479,835	c/ 3,317,248	c/ 181,464	b/ 386,643	b/ 10,221,507	b/ 3,432,721	b/ 181,623	b/ 384,005				
Total gross.....													
By feedstock:													
3251881111	Elemental sulfur.....	b/ 8,956,904	c/ 2,087,614	c/ 114,772	(X)	b/ 8,635,488	b/ 2,115,316	c/ 115,604	(X)				
3251881121	Smelting metallic sulfide ore.....	b/ 651,254	b/ 601,938	c/ 18,921	(X)	b/ 710,529	b/ 674,481	c/ 20,106	(X)				
3251881131	Decomposition of alkylation and other spent acid.....	b/ 671,249	b/ 451,888	b/ 38,003	c/ 25,914	b/ 676,771	b/ 486,412	b/ 37,183	c/ 38,057				
3251881141	Other.....	c/ 200,428	c/ 175,808	c/ 9,768	(X)	b/ 198,719	b/ 156,512	b/ 8,730	(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	Fourth quarter 2007					Third quarter 2007				
		Total production	Total shipments, including interplant transfers		Stocks 1/	Total production	Total shipments, including interplant transfers		Stocks 1/		
			Quantity	Value			Quantity	Value			
3251881311	Spent acid used in fortification.....	b/ 255,889	(X)	(X)	(D)	b/ 262,537	(X)	(X)	(D)		
	Total new acid 6/.....	9,608,158	(X)	(X)	(X)	9,346,017	(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 2007
[Metric tons]

Product code 1/	Product description	Beginning stock	Quantity produced	Imports for consumption 2/	Ending stock	Exports of domestic merchandise 3/ 7/	Apparent consumption 4/	Percent imports to apparent consumption
3253111120	Ammonia, synthetic, anhydrous.....	290,841	2,607,430	1,885,739	192,714	(NA)	(NA)	(NA)
3253111201	Ammonium nitrate, original melt liquor.....	138,161	1,728,953	235,145	145,034	(NA)	(NA)	(NA)
3253111240	Ammonium sulfate.....	138,053	684,646	84,461	158,678	(NA)	(NA)	(NA)
3253111250	Nitrogen solutions, including mixtures 5/.....	128,721	872,582	732,638	127,893	(NA)	(NA)	(NA)
3253114101	Urea original melt liquor.....	122,418	1,424,656	1,231,350	114,431	(NA)	(NA)	(NA)
3253121111	Phosphoric acid.....	158,310	2,691,138	17,362	109,996	(NA)	(NA)	(NA)
3253124211	Diammonium phosphates 6/.....	268,334	1,017,879	5,840	219,298	(NA)	(NA)	(NA)
3251881100	Sulfuric acid.....	348,364	9,272,798	666,282	350,757	112,977	9,736,104	6.8

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.

7/Export data no longer available.

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).