Fertilizers and Related Chemicals: 2006

Summary

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Current Industrial Reports

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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.

SUMMARY OF FINDINGS. United States production of sulfuric acid in 2006 totaled 39,590,548 short tons (100 percent H2SO4), approximately 3.4 percent below the 2005 level of 40,996,039 short tons.

Production of synthetic ammonia, nitric acid, and ammonium compounds decreased approximately 1.4 percent to 31,923,088 short tons in 2006, from 32,387,542 short tons in 2005. Phosphoric acid production decreased by less than 6.5 percent to 11,796,531 short tons in 2006, from 12,621,487 short tons in 2005.

Production of superphosphate and other phosphatic fertilizer materials for 2006 decreased 11.8 percent to 7,184,063 short tons (100 percent P2O5), from 8,141,361 short tons (100 percent P205) in 2005.

For general CIR information, explanation of general terms and historical note, see the appendix.

Address inquiries concerning these data to Primary Goods Industries Branch, Manufacturing and Construction Division, (MCD), Washington, DC 20233-6900, or call John Linehan, 301-763-4742.

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

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Table 1. Shipments and Production of Principal Fertilizers and Related Chemicals: 2002 to 2006
[Quantity in thousands of short tons. Value in millions of dollars]

Product code	Product description	Year	Total production	Total shipments including interplant transfers: Quantity		Total shipments including interplant transfers: Value (f.o.b. plant)
3253111120	Ammonia, synthetic anhydrous 1/	2006	10,981	4,076		1,253
		2005	11,181	4,587	r/	1,266
		2004	12,058	4,490		1,052
		2003	11,330	4,477		975
		2002	13,863	5,218		765
3253111201	Ammonium nitrate, original melt liquor 2/	2006	7,068	3,282		686
		2005	r/ 7,212	3,457		643
		2004	7,229	4,275		730
		2003	6,328	3,812		588
		2002	7,096	4,074		534
3253111240	Ammonium sulfate 1/	2006	2,870	2,335		306
		2005	2,906	2,775		401
		2004	3,005	2,989		399
		2003	2,871	2,919		315
		2002	2,945	2,506		216
3253114100	Urea (100 percent)	2006	5,934	2,030		552
		2005	5,807	3,588		816
		2004	6,344	4,026		848
		2003	6,375	4,475		686
		2002	7,758	5,564		743
3253111111	Nitric acid (100 percent)	2006	7,284	2,353		322
		2005	7,398	2,352		304
		2004	7,129	1,870		224
		2003	7,189	1,910		202
		2002	7,651	1,686		212
3253121100	Phosphoric acid (100 percent P2O5)	2006	11,797	3,974		1,119
		2005	12,621	4,374		1,213
		2004	12,693	4,614		1,204
		2003	12,537	4,239		1,069
		2002	12,289	3,837		1,129
3251881100	Sulfuric acid, gross (100 percent)	2006	39,591	12,084		683
		2005	40,996	11,823	r/	648
		2004	41,934	12,574		637
		2003	41,144	11,598		611
		2002	39,760	11,891		593
3253124100	Superphosphates and other fertilizer materials (100 percent P2O5)	2006	7,184	7,319		3,143
		2005	8,141	8,112		3,674
		2004	8,737	8,610		3,419
		2003	8,837	8,923		2,827
		2002	8,756	8,419		2,394

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

1/Excludes data for byproduct ammonia liquor and ammonium sulfate published by the Department of Energy.
2/Represents total amount of original melt liquor produced for all purposes.

Table 2a. Production, Shipments, Consumption, and Stocks of Fertilizers and Related Chemicals: 2006
[Quantity in short tons. Value in thousands of dollars]

Product code	Product description	Total production	Total shipments including interplant transfers		Stocks 1/
			Quantity	Value	
	TOTAL				
	Ammonia:				
3253111120	Synthetic, anhydrous (100 percent)	10,980,777	4,075,577	1,253,213	(X)
3253111121	Fertilizer use	9,746,182	3,737,999	1,153,618	(X)
3253111131	Other uses	1,234,595	337,578	99,595	(X)
	Ammonium nitrate (100 percent):				
3253111201	Original melt liquor 2/	7,067,760	3,281,689	686,402	(X)
3253111211	Consumed in the manufacture of other nitrogen solutions (e.g., CAN17, AN20, AAN)	144,728	(X)	(X)	(X)
3253111216	Liquor consumed in the manufacture of urea-ammonium nitrate solutions	3,707,688	(X)	(X)	(X)
3253111221	High density prill and granular	641,595	624,379	119,738	(X)
3253111226	Low density prill and grained	1,977,139	2,135,692	484,208	(X)
3253111231	All other (e.g., liquor sales, etc.)	596,610	521,618	82,456	(X)
3253111240	Ammonium sulfate (100 percent)	2,870,221	2,334,895	305,599	(X)
3253111241	Synthetic (direct synthesis from sulfuric acid and ammonia)	217,849	183,917	29,558	(X)
3253111246	Byproduct 3/	2,652,372	2,150,978	276,041	(X)
3253111250	Nitrogen solutions, including mixtures (100 percent N)	3,720,098	2,759,810	617,015	(X)
3253111251	Ammonium nitrate/urea solutions	3,542,438	2,600,574	592,285	(X)
3253111256	All other solutions 4/	177,660	159,236	24,730	(X)
3253111111	Nitric acid (100 percent) 5/	7,284,232	2,353,264	321,844	(X)
3253114101	Urea original melt liquor	5,933,927	2,030,421	551,901	(X)
3253114111	Consumed in the manufacture of urea-ammonium nitrate solutions	2,570,489	229,316	60,820	(X)
3253114121	Prills	656,393	638,186	164,655	(X)
3253114131	Granular	2,622,129	1,084,247	266,319	(X)
3253114141	All other (liquor sales, melamine, feedstock, other)	84,916	78,672	60,107	(X)
3253121100	Phosphoric acid (100 percent P2O5)	11,796,531	3,973,906	1,118,570	(X)
	By use:				
3253121211	Fertilizer	10,807,680	3,356,106	835,521	(X)
3253121222	Feed and other 6/	988,851	617,800	283,049	(X)
	By grade:				
3253121311	Ortho (less than 65 percent P2O5)	10,608,093	2,780,404	726,059	(X)
3253121322	Super (more than 65 percent P2O5) 6/	1,188,438	1,193,502	392,511	(X)
3253124100	Superphosphate and other phosphatic fertilizer materials:				
	Gross weight	15,287,915	15,743,286	3,142,989	(X)
	Nitrogen content	(X)	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5)	7,184,063	7,319,484	(X)	(X)
3253124131	Monoammonium phosphates:				
	Gross weight	4,346,275	4,415,682	920,860	(X)
	Nitrogen content	644,816	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5)	2,170,318	2,212,351	(X)	(X)
3253124211	Diammonium phosphates:				
	Gross weight	9,615,059	10,072,686	1,970,883	(X)
	Nitrogen content	1,709,083	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5)	4,322,767	4,436,815	(X)	(X)
3253124222	Normal, enriched, concentrated, and other ammonium phosphates and other phosphatic fertilizer materials: 7/				
	Gross weight	1,326,581	1,254,918	251,246	(X)
	Nitrogen content	(X)	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5)	690,978	670,318	(X)	(X)

Table 2a. Production, Shipments, Consumption, and Stocks of Fertilizers and Related Chemicals: 2006
[Quantity in short tons. Value in thousands of dollars]

Product code	Product description		Total production		Total shipments including interplant transfers: Quantity		Value		Stocks 1/
3251881100	Sulfuric acid (100 percent): 5/								
	Total gross		39,590,548		12,083,554		682,711		(X)
	By feedstock:								
3251881111	Elemental sulfur		33,697,815		7,319,130		420,398		(X)
3251881121	Smelting metallic sulfide ore		2,258,047		2,242,457		80,655		(X)
3251881131	Decomposition of alkylation and other spent acid		2,843,997		1,854,954		148,312		(X)
3251881141	Other		790,689		667,013		33,346		(X)
	By grade:								
3251881212	Oleum grades		1,784,856		1,262,951		64,618		(X)
3251881231	Other than oleum grades		37,805,692		10,820,603		618,093		(X)
3251881311	Spent acid fortified in contact units and included in above production data		(D)		(X)		(X)		(X)
	Total new acid 8/		36,746,551		(X)		(X)		(X)
	FOURTH QUARTER								
	Ammonia:								
3253111120	Synthetic, anhydrous (100 percent)	a/	3,013,391		961,580	r/	279,143	r/	269,999
3253111121	Fertilizer use	a/	2,673,395		(D)		(D)	r/	231,751
3253111131	Other uses		339,996		(D)		(D)		38,248
	Ammonium nitrate (100 percent):								
3253111201	Original melt liquor 2/	a/	1,970,267	b/	836,428	b/	163,343	b/r/	152,281
3253111211	Consumed in the manufacture of other nitrogen solutions (e.g., CAN17, AN20, AAN)		(D)		(X)		(X)		(D)
3253111216	Liquor consumed in the manufacture of urea-ammonium nitrate solutions		1,056,214		(X)		(X)		(D)
3253111221	High density prill and granular		(D)		(D)		(D)		(D)
3253111226	Low density prill and grained	a/	525,608	b/r/	505,801	b/	107,465	a/r/	44,905
3253111231	All other (e.g., liquor sales, etc.)	b/	175,295		(D)		(D)	a/	20,009
3253111240	Ammonium sulfate (100 percent)		742,799		565,998		76,298		135,804
3253111241	Synthetic (direct synthesis from sulfuric acid and ammonia)		(D)		(D)		(D)		(D)
3253111246	Byproduct 3/		(D)		(D)		(D)		(D)
3253111250	Nitrogen solutions, including mixtures (100 percent N)	a/	1,030,604	a/r/	759,596	a/r/	170,224	a/	145,976
3253111251	Ammonium nitrate/urea solutions	a/	983,810	r/	713,928	r/	162,385		(D)
3253111256	All other solutions 4/	a/r/	46,794	r/	45,668	r/	7,839		(D)
3253111111	Nitric acid (100 percent) 5/	b/	1,986,120	c/	573,723	c/	80,204		(X)
3253114101	Urea original melt liquor	a/	1,530,453	b/	391,805	b/r/	112,909	a/r/	100,324
3253114111	Consumed in the manufacture of urea-ammonium nitrate solutions	a/	723,133		(D)		(D)		(D)
3253114121	Prills		(D)		(D)		(D)		(D)
3253114131	Granular		(D)		158,880	r/	39,344	r/	51,405
3253114141	All other (liquor sales, melamine, feedstock, other)		(D)		(D)		(D)		(D)
3253121100	Phosphoric acid (100 percent P2O5)		2,926,112	r/	986,233	r/	266,951		157,663
	By use:								
3253121211	Fertilizer	a/	2,675,669	b/r/	834,518	b/r/	202,807	a/	148,831
3253121222	Feed and other 6/		250,443	r/	151,715	r/	64,144		8,832
	By grade:								
3253121311	Ortho (less than 65 percent P2O5)	a/	2,646,353	c/r/	704,159	c/r/	176,729	a/	139,990
3253121322	Super (more than 65 percent P2O5) 6/		279,759		282,074		90,222		17,673
3253124100	Superphosphate and other phosphatic fertilizer materials:								
	Gross weight		3,640,231		3,983,954		768,134		369,130
	Nitrogen content		(X)		(X)		(X)		(X)
	Phosphoric oxide content (100 percent P2O5)		1,709,963		1,772,199		(X)		(X)
3253124131	Monoammonium phosphates:								
	Gross weight	b/	998,562	b/	1,020,485	b/	199,991	b/	84,773
	Nitrogen content	a/	146,150		(X)		(X)		(X)

Table 2a. Production, Shipments, Consumption, and Stocks of Fertilizers and Related Chemicals: 2006
[Quantity in short tons. Value in thousands of dollars]

Product code	Product description		Total production		Total shipments including interplant transfers: Quantity		Value		Stocks 1/
	Phosphoric oxide content (100 percent P2O5)	b/	483,112	b/	497,353		(X)		(X)
3253124211	Diammonium phosphates:								
	Gross weight	b/	2,321,305	b/	2,629,860	b/	501,576	b/	230,115
	Nitrogen content	b/	426,981		(X)		(X)		(X)
	Phosphoric oxide content (100 percent P2O5)	b/	1,052,192	b/	1,101,113	b/	(X)		(X)
3253124222	Normal, enriched, concentrated, and other ammonium phosphates and other phosphatic fertilizer materials: 7/								
	Gross weight	a/	320,364	a/	333,609	b/	66,567	a/	54,242
	Nitrogen content		(X)		(X)		(X)		(X)
	Phosphoric oxide content (100 percent P2O5)	c/	174,659	b/	173,733		(X)		(X)
3251881100	Sulfuric acid (100 percent): 5/								
	Total gross	a/	9,993,605	b/	2,865,651	b/	163,912	a/	577,630
	By feedstock:								
3251881111	Elemental sulfur	a/	8,643,662	b/	1,802,632	b/	100,867		(X)
3251881121	Smelting metallic sulfide ore	b/	448,798	b/	449,754	c/	18,144		(X)
3251881131	Decomposition of alkylation and other spent acid		701,014		461,956		36,156		(D)
3251881141	Other	a/	200,131	a/	151,309	a/r/	8,745		(X)
	By grade:								
3251881212	Oleum grades	a/r/	456,573	b/r/	312,151	b/r/	15,143	b/	35,063
3251881231	Other than oleum grades	a/	9,537,032	b/	2,553,500	b/	148,769	a/	542,567
3251881311	Spent acid fortified in contact units and included in above production data		(D)		(X)		(X)		(D)
	Total new acid 8/		9,292,591		(X)		(X)		(X)
	THIRD QUARTER								
	Ammonia:								
3253111120	Synthetic, anhydrous (100 percent)	a/r/	2,725,172	r/	792,896	a/r/	236,255	r/	250,786
3253111121	Fertilizer use	a/r/	2,451,594		(D)		(D)	r/	208,231
3253111131	Other uses		273,578		(D)		(D)	r/	42,555
	Ammonium nitrate (100 percent):								
3253111201	Original melt liquor 2/	a/	1,746,689	b/	745,254	b/	149,952	b/	131,888
3253111211	Consumed in the manufacture of other nitrogen solutions (e.g., CAN17, AN20, AAN)		(D)		(X)		(X)		(D)
3253111216	Liquor consumed in the manufacture of urea-ammonium nitrate solutions		958,114		(X)		(X)	b/	(D)
3253111221	High density prill and granular		(D)		(D)		(D)		(D)
3253111226	Low density prill and grained	a/	474,024	b/r/	507,654	b/	108,947	a/	19,113
3253111231	All other (e.g., liquor sales, etc.)	b/	144,784		(D)		(D)		9,022
3253111240	Ammonium sulfate (100 percent)		699,436		578,418		72,734		113,363
3253111241	Synthetic (direct synthesis from sulfuric acid and ammonia)		(D)		(D)		(D)		(D)
3253111246	Byproduct 3/		(D)		(D)		(D)		(D)
3253111250	Nitrogen solutions, including mixtures (100 percent N)	a/	963,479	a/r/	665,997	a/r/	154,691	a/	159,059
3253111251	Ammonium nitrate/urea solutions	a/	920,060	a/r/	626,774	a/r/	148,730		(D)
3253111256	All other solutions 4/	b/r/	43,419	a/r/	39,223	b/r/	5,961		(D)
3253111111	Nitric acid (100 percent) 5/	a/	1,886,722	c/	559,405	c/	75,986		(X)
3253114101	Urea original melt liquor	a/	1,593,817	b/	547,385	b/r/	144,832	a/	121,195
3253114111	Consumed in the manufacture of urea-ammonium nitrate solutions	a/	694,134		(D)		(D)		(D)
3253114121	Prills		(D)		(D)		(D)		(D)
3253114131	Granular		(D)		313,053	r/	74,928		83,075
3253114141	All other (liquor sales, melamine, feedstock, other)		(D)		(D)		(D)		(D)
3253121100	Phosphoric acid (100 percent P2O5)		3,033,515	r/	994,443	r/	274,074		148,733

Table 2a. Production, Shipments, Consumption, and Stocks of Fertilizers and Related Chemicals: 2006
[Quantity in short tons. Value in thousands of dollars]

Product code	Product description		Total production		Total shipments including interplant transfers: Quantity		Value		Stocks 1/
	By use:								
3253121211	Fertilizer		2,774,013	b/r/	829,310	b/r/	202,649		141,594
3253121222	Feed and other 6/		259,502	r/	165,133	r/	71,425		7,139
	By grade:								
3253121311	Ortho (less than 65 percent P2O5)		2,751,654	b/r/	709,128	b/r/	181,178		128,993
3253121322	Super (more than 65 percent P2O5) 6/		281,861		285,315		92,896		19,740
3253124100	Superphosphate and other phosphatic fertilizer materials:								
	Gross weight		3,890,367		4,048,365		795,586		490,645
	Nitrogen content		(X)		(X)		(X)		(X)
	Phosphoric oxide content (100 percent P2O5)		1,830,431		1,902,731		(X)		(X)
3253124131	Monoammonium phosphates:								
	Gross weight		1,132,664		1,211,833	a/	243,258		93,470
	Nitrogen content		163,615		(X)		(X)		(X)
	Phosphoric oxide content (100 percent P2O5)		569,774		613,132		(X)		(X)
3253124211	Diammonium phosphates:								
	Gross weight		2,451,408		2,536,007		494,049		339,005
	Nitrogen content		435,932		(X)		(X)		(X)
	Phosphoric oxide content (100 percent P2O5)		1,099,439		1,137,427		(X)		(X)
3253124222	Normal, enriched, concentrated, and other ammonium phosphates and other phosphatic fertilizer materials: 7/								
	Gross weight		306,295	a/	300,525	a/	58,279	a/	58,170
	Nitrogen content		(X)		(X)		(X)		(X)
	Phosphoric oxide content (100 percent P2O5)	c/	161,218	b/	152,172		(X)		(X)
3251881100	Sulfuric acid (100 percent): 5/								
	Total gross	a/	9,953,925	b/	3,104,494	b/	174,359		421,711
	By feedstock:								
3251881111	Elemental sulfur		8,388,393	b/	1,848,437	b/	104,265		(X)
3251881121	Smelting metallic sulfide ore		560,737		594,495	a/	23,276		(X)
3251881131	Decomposition of alkylation and other spent acid		783,302		504,947		38,157		(D)
3251881141	Other		221,493	a/	156,615	a/r/	8,661		(X)
	By grade:								
3251881212	Oleum grades	a/r/	445,639	b/r/	324,888	b/r/	16,385	b/	29,847
3251881231	Other than oleum grades		9,508,286	a/	2,779,606	b/	157,974		391,864
3251881311	Spent acid fortified in contact units and included in above production data		(D)		(X)		(X)		(D)
	Total new acid 8/		9,170,623		(X)		(X)		(X)
	SECOND QUARTER								
	Ammonia:								
3253111120	Synthetic, anhydrous (100 percent)	a/	2,890,781	a/	1,094,718	a/r/	337,770	r/	296,523
3253111121	Fertilizer use	a/	2,581,953		(D)		(D)	a/	246,413
3253111131	Other uses		308,828		(D)		(D)	r/	50,110
	Ammonium nitrate (100 percent):								
3253111201	Original melt liquor 2/	b/	1,831,285	b/	850,589	b/	182,639	b/r/	164,388
3253111211	Consumed in the manufacture of other nitrogen solutions (e.g., CAN17, AN20, AAN)		(D)		(X)		(X)		(D)
3253111216	Liquor consumed in the manufacture of urea-ammonium nitrate solutions	a/	984,589		(X)		(X)	c/	(D)
3253111221	High density prill and granular		(D)		(D)		(D)		(D)
3253111226	Low density prill and grained	a/	487,691	b/r/	537,636	b/	125,690	a/	36,666
3253111231	All other (e.g., liquor sales, etc.)	b/	129,207	b/	(D)	b/	(D)	a/	6,929
3253111240	Ammonium sulfate (100 percent)		757,001		587,711		77,394		152,175
3253111241	Synthetic (direct synthesis from sulfuric acid and ammonia)		(D)		(D)		(D)		(D)
3253111246	Byproduct 3/		(D)		(D)		(D)		(D)

Table 2a. Production, Shipments, Consumption, and Stocks of Fertilizers and Related Chemicals: 2006
[Quantity in short tons. Value in thousands of dollars]

Product code	Product description		Total production		Total shipments including interplant transfers: Quantity		Value		Stocks 1/
3253111250	Nitrogen solutions, including mixtures (100 percent N)	b/r/	931,840	a/r/	732,358	b/r/	163,568	b/	146,506
3253111251	Ammonium nitrate/urea solutions	b/	892,454	b/r/	696,784	b/r/	158,521		(D)
3253111256	All other solutions 4/	b/r/	39,386	a/r/	35,574	b/r/	5,047		(D)
3253111111	Nitric acid (100 percent) 5/	b/	1,849,444	c/	584,830	c/	78,535		(X)
3253114101	Urea original melt liquor	a/	1,620,196	b/	639,968	b/r/	167,223	a/r/	146,192
3253114111	Consumed in the manufacture of urea-ammonium nitrate solutions	a/r/	639,688		(D)		(D)		(D)
3253114121	Prills		181,601		(D)		(D)		(D)
3253114131	Granular		774,314		385,987	r/	96,033		97,293
3253114141	All other (liquor sales, melamine, feedstock, other)		24,593		(D)		(D)		(D)
3253121100	Phosphoric acid (100 percent P2O5)		2,969,006	r/	975,962	r/	280,756		148,729
	By use:								
3253121211	Fertilizer	a/	2,735,673	b/r/	830,386	b/r/	210,904		142,825
3253121222	Feed and other 6/		233,333	r/	145,576	r/	69,852		5,904
	By grade:								
3253121311	Ortho (less than 65 percent P2O5)		2,673,620	c/r/	679,510	b/r/	182,043		130,873
3253121322	Super (more than 65 percent P2O5) 6/		295,386		296,452		98,713		17,856
3253124100	Superphosphate and other phosphatic fertilizer materials:								
	Gross weight		4,011,819		4,036,215		802,813		589,577
	Nitrogen content		(X)		(X)		(X)		(X)
	Phosphoric oxide content (100 percent P2O5)		1,874,762		1,906,665		(X)		(X)
3253124131	Monoammonium phosphates:								
	Gross weight		1,049,559		1,110,612		241,772		163,196
	Nitrogen content	b/	161,297		(X)		(X)		(X)
	Phosphoric oxide content (100 percent P2O5)		534,337		567,625		(X)		(X)
3253124211	Diammonium phosphates:								
	Gross weight		2,676,558		2,688,043		515,837		373,985
	Nitrogen content	r/	472,777		(X)		(X)		(X)
	Phosphoric oxide content (100 percent P2O5)		1,197,969		1,204,461		(X)		(X)
3253124222	Normal, enriched, concentrated, and other ammonium phosphates and other phosphatic fertilizer materials: 7/								
	Gross weight	b/	285,702	a/	237,560	a/	45,204		52,396
	Nitrogen content		(X)		(X)		(X)		(X)
	Phosphoric oxide content (100 percent P2O5)	b/	142,456	b/	134,579		(X)		(X)
3251881100	Sulfuric acid (100 percent): 5/								
	Total gross	a/	9,943,193	b/	3,163,288	b/	178,242		525,711
	By feedstock:								
3251881111	Elemental sulfur	a/	8,413,458	b/	1,888,533	b/	109,289		(X)
3251881121	Smelting metallic sulfide ore		594,075		596,059	a/	20,942		(X)
3251881131	Decomposition of alkylation and other spent acid	b/	754,999		494,296		39,076		(D)
3251881141	Other		180,661	a/	184,400	a/r/	8,935		(X)
	By grade:								
3251881212	Oleum grades	a/r/	443,059	b/r/	334,656	b/r/	18,574	b/	35,301
3251881231	Other than oleum grades	a/	9,500,134	a/	2,828,632	b/	159,668		490,410
3251881311	Spent acid fortified in contact units and included in above production data		(D)		(X)		(X)		(D)
	Total new acid 8/		9,188,194		(X)		(X)		(X)
	FIRST QUARTER								
	Ammonia:								
3253111120	Synthetic, anhydrous (100 percent)	b/	2,351,433	a/	1,226,383	a/r/	400,045	a/	401,016
3253111121	Fertilizer use	a/	2,039,240		1,131,851	a/r/	367,460	a/	355,342
3253111131	Other uses	c/	312,193		94,532		32,585	b/r/	45,674

Table 2a. Production, Shipments, Consumption, and Stocks of Fertilizers and Related Chemicals: 2006
[Quantity in short tons. Value in thousands of dollars]

Product code	Product description		Total production		Total shipments including interplant transfers: Quantity		Value		Stocks 1/
	Ammonium nitrate (100 percent):								
3253111201	Original melt liquor 2/	b/	1,519,519	b/	849,418	b/	190,468		168,793
3253111211	Consumed in the manufacture of other nitrogen solutions (e.g., CAN17, AN20, AAN)		(D)		(X)		(X)		(D)
3253111216	Liquor consumed in the manufacture of urea-ammonium nitrate solutions	a/r/	708,771		(X)		(X)		(D)
3253111221	High density prill and granular		(D)		(D)		(D)		(D)
3253111226	Low density prill and grained	a/	489,816	b/r/	584,601	b/	142,106	a/	21,209
3253111231	All other (e.g., liquor sales, etc.)	b/	147,324		(D)		(D)		8,907
3253111240	Ammonium sulfate (100 percent)		670,985		602,768		79,173		158,302
3253111241	Synthetic (direct synthesis from sulfuric acid and ammonia)		(D)		(D)		(D)		(D)
3253111246	Byproduct 3/		(D)		(D)		(D)		(D)
3253111250	Nitrogen solutions, including mixtures (100 percent N)	b/r/	794,175	b/r/	601,859	b/r/	128,532	b/	215,361
3253111251	Ammonium nitrate/urea solutions	b/	746,114	b/r/	563,088	b/r/	122,649		(D)
3253111256	All other solutions 4/	b/r/	48,061	a/r/	38,771	b/r/	5,883		(D)
3253111111	Nitric acid (100 percent) 5/	b/	1,561,946	c/	635,306	c/	87,119		(X)
3253114101	Urea original melt liquor	b/	1,189,461	b/	451,263	b/r/	126,937	b/	172,416
3253114111	Consumed in the manufacture of urea-ammonium nitrate solutions	a/r/	513,534		(D)		(D)		(D)
3253114121	Prills		(D)		(D)		(D)		(D)
3253114131	Granular		(D)		226,327	r/	56,014		114,339
3253114141	All other (liquor sales, melamine, feedstock, other)		(D)		(D)		(D)		(D)
3253121100	Phosphoric acid (100 percent P2O5)		2,867,898	r/	1,017,268	r/	296,789		159,822
	By use:								
3253121211	Fertilizer	a/	2,622,325	b/r/	861,892	b/r/	219,161		154,562
3253121222	Feed and other 6/		245,573	r/	155,376	r/	77,628		5,260
	By grade:								
3253121311	Ortho (less than 65 percent P2O5)		2,536,466	c/r/	687,607	c/r/	186,109		137,407
3253121322	Super (more than 65 percent P2O5) 6/		331,432		329,661		110,680		22,415
3253124100	Superphosphate and other phosphatic fertilizer materials:								
	Gross weight		3,745,498		3,674,752		776,456		590,254
	Nitrogen content		(X)		(X)		(X)		(X)
	Phosphoric oxide content (100 percent P2O5)		1,768,907		1,737,889		(X)		(X)
3253124131	Monoammonium phosphates:								
	Gross weight		1,165,490		1,072,752		235,839		204,751
	Nitrogen content	b/	173,754		(X)		(X)		(X)
	Phosphoric oxide content (100 percent P2O5)		583,095		534,241		(X)		(X)
3253124211	Diammonium phosphates:								
	Gross weight		2,165,788		2,218,776		459,421		288,544
	Nitrogen content		373,393		(X)		(X)		(X)
	Phosphoric oxide content (100 percent P2O5)		973,167		993,814		(X)		(X)
3253124222	Normal, enriched, concentrated, and other ammonium phosphates and other phosphatic fertilizer materials: 7/								
	Gross weight	a/	414,220		383,224		81,196		96,959
	Nitrogen content		(X)		(X)		(X)		(X)
	Phosphoric oxide content (100 percent P2O5)	b/	212,645	b/	209,834		(X)		(X)
3251881100	Sulfuric acid (100 percent): 5/								
	Total gross	a/	9,699,825	b/	2,950,121	b/	166,198		581,765
	By feedstock:								
3251881111	Elemental sulfur	a/	8,252,302	b/	1,779,528	b/	105,977		(X)
3251881121	Smelting metallic sulfide ore		654,437		602,149	a/	18,293		(X)
3251881131	Decomposition of alkylation and other spent acid		604,682		393,755		34,923		(D)

Table 2a. Production, Shipments, Consumption, and Stocks of Fertilizers and Related Chemicals: 2006
[Quantity in short tons. Value in thousands of dollars]

Product code	Product description	Total production		Total shipments including interplant transfers: Quantity		Value		Stocks 1/
3251881141	Other	188,404	a/	174,689	a/	7,005		(X)
	By grade:							
3251881212	Oleum grades	b/r/ 439,585	b/r/	291,256	b/r/	14,516	b/	42,873
3251881231	Other than oleum grades	9,260,240	a/	2,658,865	b/	151,682	a/	538,892
3251881311	Spent acid fortified in contact units and included in above production data	(D)		(X)		(X)		(D)
	Total new acid 8/	9,095,143		(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 2b. Production, Shipments, Consumption, and Stocks of Fertilizers and Related Chemicals: 2005
[Quantity in short tons. Value in thousands of dollars]

Product code		Total production	Total shipments including interplant transfers: Quantity	Total shipments including interplant transfers: Value	Stocks 1/
	TOTAL				
	Ammonia:				
3253111120	Synthetic, anhydrous (100 percent)	11,180,832	4,587,221 r/	1,266,384	(X)
3253111121	Fertilizer use	9,994,712	4,246,705 r/	1,160,963	(X)
3253111131	Other uses	1,186,120	340,516	105,421	(X)
	Ammonium nitrate (100 percent):				
3253111201	Original melt liquor 2/	r/ 7,211,957	3,456,807	642,766	(X)
3253111211	Consumed in the manufacture of other nitrogen solutions (e.g., CAN17, AN20, AAN)	130,262	(X)	(X)	(X)
3253111216	Liquor consumed in the manufacture of urea-ammonium nitrate solutions	3,733,746	(X)	(X)	(X)
3253111221	High density prill and granular	1,041,646	1,116,155	191,537	(X)
3253111226	Low density prill and grained	1,801,310	1,890,784	384,495	(X)
3253111231	All other (e.g., liquor sales, etc.)	504,993	449,868	66,734	(X)
3253111240	Ammonium sulfate (100 percent)	2,906,148	2,775,021	400,727	(X)
3253111241	Synthetic (direct synthesis from sulfuric acid and ammonia)	282,158	243,266	38,916	(X)
3253111246	Byproduct 3/	2,623,990	2,531,755	361,811	(X)
3253111250	Nitrogen solutions, including mixtures (100 percent N)	3,690,545	r/ 3,422,944 r/	751,049	(X)
3253111251	Ammonium nitrate/urea solutions	3,587,576	r/ 3,351,852 r/	733,712	(X)
3253111256	All other solutions 4/	102,969	71,092	17,337	(X)
3253111111	Nitric acid (100 percent) 5/	7,398,060	2,351,843	303,930	(X)
3253114101	Urea original melt liquor	5,806,503	3,588,135	815,594	(X)
3253114111	Consumed in the manufacture of urea-ammonium nitrate solutions	2,550,624	r/ 270,778 r/	56,767	(X)
3253114121	Prills	722,391	709,022 r/	191,292	(X)
3253114131	Granular	2,441,367	2,513,123	520,315	(X)
3253114141	All other (liquor sales, melamine, feedstock, other)	92,121	95,212	47,220	(X)
3253121100	Phosphoric acid (100 percent P2O5)	12,621,487	4,374,215	1,213,311	(X)
	By use:				
3253121211	Fertilizer	11,611,630	3,718,599	897,517	(X)
3253121222	Feed and other 6/	1,009,857	655,616	315,794	(X)
	By grade:				
3253121311	Ortho (less than 65 percent P2O5)	11,275,158	3,151,910	806,642	(X)
3253121322	Super (more than 65 percent P2O5) 6/	1,346,329	1,272,846	419,551	(X)
3253124100	Superphosphate and other phosphatic fertilizer materials:				
	Gross weight	17,432,805	17,395,942	3,674,467	(X)
	Nitrogen content	(X)	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5)	8,141,361	8,111,839	(X)	(X)
3253124131	Monoammonium phosphates:				
	Gross weight	4,611,503	4,607,452	978,395	(X)
	Nitrogen content	711,792	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5)	2,350,646	2,347,133	(X)	(X)
3253124211	Diammonium phosphates:				
	Gross weight	11,317,804	11,435,120	2,419,547	(X)
	Nitrogen content	1,954,748	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5)	5,169,191	5,201,492	(X)	(X)
3253124222	Normal, enriched, concentrated, and other ammonium phosphates and other phosphatic fertilizer materials: 7/				
	Gross weight	1,503,498	1,353,370	276,525	(X)
	Nitrogen content	(X)	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5)	621,524	563,214	(X)	(X)

Table 2b. Production, Shipments, Consumption, and Stocks of Fertilizers and Related Chemicals: 2005
[Quantity in short tons. Value in thousands of dollars]

Product code			Total production		Total shipments including interplant transfers: Quantity		Value		Stocks 1/
3251881100	Sulfuric acid (100 percent): 5/								
	Total gross		40,996,039		11,822,585	r/	648,466		(X)
	By feedstock:								
3251881111	Elemental sulfur		35,190,803		7,085,406	r/	417,557		(X)
3251881121	Smelting metallic sulfide ore		2,300,522		2,198,963		61,605		(X)
3251881131	Decomposition of alkylation and other spent acid		2,738,616		1,785,304	r/	133,591		(X)
3251881141	Other		766,098		752,912		35,713		(X)
	By grade:								
3251881212	Oleum grades		1,602,354		1,061,397		44,945		(X)
3251881231	Other than oleum grades		39,393,685		10,761,188	r/	603,521		(X)
3251881311	Spent acid fortified in contact units and included in above production data		(D)		(X)		(X)		(X)
	Total new acid 8/		38,347,110		(X)		(X)		(X)
	FOURTH QUARTER								
	Ammonia:								
3253111120	Synthetic, anhydrous (100 percent)	b/	2,225,954	b/	1,123,646	b/r/	348,818	b/	340,466
3253111121	Fertilizer use	a/	1,900,707		(D)	b/r/	320,476	c/	286,749
3253111131	Other uses		325,247		(D)		28,342	a/	53,717
	Ammonium nitrate (100 percent):								
3253111201	Original melt liquor 2/	b/	1,640,015	b/	798,522	b/	156,107	b/	136,031
3253111211	Consumed in the manufacture of other nitrogen solutions (e.g., CAN17, AN20, AAN)		(D)		(X)		(X)		(D)
3253111216	Liquor consumed in the manufacture of urea-ammonium nitrate solutions	a/	832,502		(X)		(X)	b/	90,274
3253111221	High density prill and granular		(D)		(D)		(D)		(D)
3253111226	Low density prill and grained	b/	498,347	b/	520,048	b/	111,169	c/	21,172
3253111231	All other (e.g., liquor sales, etc.)	c/	126,914		(D)		(D)	a/	8,361
3253111240	Ammonium sulfate (100 percent)		725,349	b/	729,059	b/	100,880		203,657
3253111241	Synthetic (direct synthesis from sulfuric acid and ammonia)		(D)		(D)		(D)		(D)
3253111246	Byproduct 3/		(D)		(D)		(D)		(D)
3253111250	Nitrogen solutions, including mixtures (100 percent N)	b/	864,449	b/r/	785,690	b/r/	179,746	c/	134,602
3253111251	Ammonium nitrate/urea solutions	b/	832,222	b/r/	762,909	b/r/	173,756		(D)
3253111256	All other solutions 4/	b/	32,227	a/	22,781		5,990		(D)
3253111111	Nitric acid (100 percent) 5/	b/	1,698,354	c/	596,911	c/	79,542		(X)
3253114101	Urea original melt liquor	a/	1,108,080	c/	630,873	c/	159,755	b/	151,825
3253114111	Consumed in the manufacture of urea-ammonium nitrate solutions		572,772		(D)		(D)		(D)
3253114121	Prills	a/	191,250		(D)		(D)		(D)
3253114131	Granular	a/	321,690	c/	387,148	c/	81,076	b/	86,240
3253114141	All other (liquor sales, melamine, feedstock, other)	b/	22,368		(D)		(D)		(D)
3253121100	Phosphoric acid (100 percent P2O5)		2,950,165		973,054		279,597		176,348
	By use:								
3253121211	Fertilizer		2,696,177	b/	812,316	c/	197,862		169,447
3253121222	Feed and other 6/		253,988		160,738		81,735		6,901
	By grade:								
3253121311	Ortho (less than 65 percent P2O5)	b/	2,615,261	c/	690,590	b/	185,422		154,787
3253121322	Super (more than 65 percent P2O5) 6/		334,904		333,005		107,057		22,520
3253124100	Superphosphate and other phosphatic fertilizer materials:								
	Gross weight		3,915,500		3,803,118		843,288		654,273
	Nitrogen content		(X)		(X)		(X)		(X)
	Phosphoric oxide content (100 percent P2O5)		1,825,541		1,754,228		(X)		(X)
3253124131	Monoammonium phosphates:								
	Gross weight		989,800		965,825		218,266		114,805
	Nitrogen content	c/	147,554		(X)		(X)		(X)

Table 2b. Production, Shipments, Consumption, and Stocks of Fertilizers and Related Chemicals: 2005
[Quantity in short tons. Value in thousands of dollars]

Product code		Total production	Total shipments including interplant transfers: Quantity		Value		Stocks 1/	
	Phosphoric oxide content (100 percent P2O5)	493,874		478,866		(X)		(X)
3253124211	Diammonium phosphates:							
	Gross weight	2,542,660	b/	2,497,872		550,394	a/	454,085
	Nitrogen content	429,006		(X)		(X)		(X)
	Phosphoric oxide content (100 percent P2O5)	1,143,259		1,109,240		(X)		(X)
3253124222	Normal, enriched, concentrated, and other ammonium phosphates and other phosphatic fertilizer materials: 7/							
	Gross weight	a/ 383,040		339,421		74,628		85,383
	Nitrogen content	(X)		(X)		(X)		(X)
	Phosphoric oxide content (100 percent P2O5)	188,408		166,122		(X)		(X)
3251881100	Sulfuric acid (100 percent): 5/							
	Total gross	a/ 9,592,624	b/	2,892,043	a/r/	156,747	a/	461,615
	By feedstock:							
3251881111	Elemental sulfur	a/ 8,189,673	c/	1,719,400	b/r/	100,062		(X)
3251881121	Smelting metallic sulfide ore	610,306		587,183	a/	18,783		(X)
3251881131	Decomposition of alkylation and other spent acid	c/ 608,202	b/	395,862	a/	30,157		(D)
3251881141	Other	a/ 184,443	a/	189,598		(S)		(X)
	By grade:							
3251881212	Oleum grades	b/ 410,058	b/	277,389	b/	11,712	b/	30,976
3251881231	Other than oleum grades	a/ 9,182,566	b/	2,614,654	a/r/	145,035	a/	430,639
3251881311	Spent acid fortified in contact units and included in above production data	(D)		(X)		(X)		(D)
	Total new acid 8/	9,035,999		(X)		(X)		(X)
	THIRD QUARTER							
	Ammonia:							
3253111120	Synthetic, anhydrous (100 percent)	b/ 2,838,961	b/	1,174,761	b/r/	313,086	b/	388,810
3253111121	Fertilizer use	b/ 2,517,580		(D)		(D)	c/	336,431
3253111131	Other uses	321,381		(D)		(D)	a/	52,379
	Ammonium nitrate (100 percent):							
3253111201	Original melt liquor 2/	b/r/ 1,629,044	b/	746,883	b/	140,650	b/	115,948
3253111211	Consumed in the manufacture of other nitrogen solutions (e.g., CAN17, AN20, AAN)	(D)		(X)		(X)		(D)
3253111216	Liquor consumed in the manufacture of urea-ammonium nitrate solutions	a/ 867,758		(X)		(X)	b/	73,477
3253111221	High density prill and granular	(D)		(D)		(D)		(D)
3253111226	Low density prill and grained	b/ 431,280	b/	455,952	b/	91,903		(S)
3253111231	All other (e.g., liquor sales, etc.)	c/ 137,134		(D)		(D)	a/	3,657
3253111240	Ammonium sulfate (100 percent)	693,530	a/	714,086	b/	103,632		(S)
3253111241	Synthetic (direct synthesis from sulfuric acid and ammonia)	(D)		(D)		(D)		(D)
3253111246	Byproduct 3/	(D)		(D)		(D)		(D)
3253111250	Nitrogen solutions, including mixtures (100 percent N)	c/ 929,915	c/r/	878,675	c/r/	195,889	c/	131,570
3253111251	Ammonium nitrate/urea solutions	a/ 908,327	b/r/	863,142	b/r/	192,118		(D)
3253111256	All other solutions 4/	c/ 21,588	c/	15,533	c/	3,771		(D)
3253111111	Nitric acid (100 percent) 5/	b/ 1,698,894	c/	559,171	c/	72,258		(X)
3253114101	Urea original melt liquor	b/ 1,403,450	c/	915,578	c/	214,890	b/	71,885
3253114111	Consumed in the manufacture of urea-ammonium nitrate solutions	(D)		(D)		(D)		(D)
3253114121	Prills	(D)		(D)		(D)		(D)
3253114131	Granular	a/ 616,790	c/	648,637	c/	136,471	a/	42,321
3253114141	All other (liquor sales, melamine, feedstock, other)	(D)		(D)		(D)		(D)
3253121100	Phosphoric acid (100 percent P2O5)	3,291,488		1,100,019		308,922		178,002

Table 2b. Production, Shipments, Consumption, and Stocks of Fertilizers and Related Chemicals: 2005
[Quantity in short tons. Value in thousands of dollars]

Product code		Total production	Total shipments including interplant transfers: Quantity		Value		Stocks 1/	
	By use:							
3253121211	Fertilizer	a/ 3,040,063	b/ 931,536	b/	227,554			170,601
3253121222	Feed and other 6/	251,425	168,483		81,368			7,401
	By grade:							
3253121311	Ortho (less than 65 percent P2O5)	a/ 2,958,372	b/ 770,741	b/	199,904			152,532
3253121322	Super (more than 65 percent P2O5) 6/	333,116	329,278		109,018			25,470
3253124100	Superphosphate and other phosphatic fertilizer materials:							
	Gross weight	4,507,778	4,528,302		987,878			478,207
	Nitrogen content	(X)	(X)		(X)			(X)
	Phosphoric oxide content (100 percent P2O5)	2,078,114	2,086,053		(X)			(X)
3253124131	Monoammonium phosphates:							
	Gross weight	1,000,441	1,035,309		226,688			88,385
	Nitrogen content	b/ 157,235	(X)		(X)			(X)
	Phosphoric oxide content (100 percent P2O5)	510,924	529,123		(X)			(X)
3253124211	Diammonium phosphates:							
	Gross weight	3,128,495	3,147,442		689,022			317,443
	Nitrogen content	532,494	(X)		(X)			(X)
	Phosphoric oxide content (100 percent P2O5)	1,419,139	1,424,026		(X)			(X)
3253124222	Normal, enriched, concentrated, and other ammonium phosphates and other phosphatic fertilizer materials: 7/							
	Gross weight	a/ 378,842	345,551		72,168			72,379
	Nitrogen content	(X)	(X)		(X)			(X)
	Phosphoric oxide content (100 percent P2O5)	a/ 148,051	a/ 132,904		(X)			(X)
3251881100	Sulfuric acid (100 percent): 5/							
	Total gross	a/ 10,472,544	b/ 2,923,177	a/r/	162,594		a/	449,275
	By feedstock:							
3251881111	Elemental sulfur	a/ 8,967,643	c/ 1,675,039	b/r/	99,972			(X)
3251881121	Smelting metallic sulfide ore	568,773	591,063	a/	16,946			(X)
3251881131	Decomposition of alkylation and other spent acid	a/ 749,174	a/ 477,596	a/r/	36,781			(D)
3251881141	Other	a/ 186,954	c/ 179,479	b/	8,895			(X)
	By grade:							
3251881212	Oleum grades	b/ 396,889	b/ 251,562	b/	10,372		b/	20,755
3251881231	Other than oleum grades	a/ 10,075,655	b/ 2,671,615	a/r/	152,222		a/	428,520
3251881311	Spent acid fortified in contact units and included in above production data	(D)	(X)		(X)			(D)
	Total new acid 8/	9,761,480	(X)		(X)			(X)
	SECOND QUARTER							
	Ammonia:							
3253111120	Synthetic, anhydrous (100 percent)	b/ 3,271,696	b/r/ 1,378,078	b/r/	375,757		c/	304,111
3253111121	Fertilizer use	b/ 2,961,472	(D)		(D)		c/	265,912
3253111131	Other uses	310,224	(D)		(D)		a/	38,199
	Ammonium nitrate (100 percent):							
3253111201	Original melt liquor 2/	a/ 1,937,465	b/ 943,558	c/	173,212		c/	113,106
3253111211	Consumed in the manufacture of other nitrogen solutions (e.g., CAN17, AN20, AAN)	31,370	(X)		(X)			1,474
3253111216	Liquor consumed in the manufacture of urea-ammonium nitrate solutions	a/ 1,021,949	(X)		(X)		b/	46,451
3253111221	High density prill and granular	a/ 307,808	a/ 361,199	a/	60,829		b/	9,111
3253111226	Low density prill and grained	b/ 458,775	b/ 481,614	b/	95,848		c/	40,468
3253111231	All other (e.g., liquor sales, etc.)	c/ 117,563	b/ 100,745	c/	16,535		a/	15,602
3253111240	Ammonium sulfate (100 percent)	765,079	b/ 709,030	b/	105,638		c/	114,618
3253111241	Synthetic (direct synthesis from sulfuric acid and ammonia)	(D)	(D)		(D)			(D)
3253111246	Byproduct 3/	(D)	(D)		(D)			(D)

Table 2b. Production, Shipments, Consumption, and Stocks of Fertilizers and Related Chemicals: 2005
[Quantity in short tons. Value in thousands of dollars]

Product code		Total production	Total shipments including interplant transfers: Quantity	Value	Stocks 1/
3253111250	Nitrogen solutions, including mixtures (100 percent N)	c/ 1,031,990	c/r/ 1,042,978	b/r/ 211,292	c/ 167,198
3253111251	Ammonium nitrate/urea solutions	a/ 1,010,614	b/r/ 1,029,088	b/r/ 208,133	(D)
3253111256	All other solutions 4/	b/ 21,376	a/ 13,890	a/ 3,159	(D)
3253111111	Nitric acid (100 percent) 5/	b/ 1,960,914	c/ 591,170	c/ 75,738	(X)
3253114101	Urea original melt liquor	1,624,867	1,012,466	217,197	90,068
3253114111	Consumed in the manufacture of urea-ammonium nitrate solutions	a/ 670,408	(D)	(D)	(D)
3253114121	Prills	a/ 186,995	(D)	(D)	(D)
3253114131	Granular	a/ 741,818	b/ 734,706	c/ 152,545	a/ 54,066
3253114141	All other (liquor sales, melamine, feedstock, other)	25,646	(D)	(D)	(D)
3253121100	Phosphoric acid (100 percent P2O5)	3,163,017	r/ 1,059,617	r/ 297,369	167,420
	By use:				
3253121211	Fertilizer	2,909,108	b/ 891,194	b/ 214,542	161,554
3253121222	Feed and other 6/	253,909	168,423	82,827	5,866
	By grade:				
3253121311	Ortho (less than 65 percent P2O5)	2,836,886	b/ 764,611	b/ 198,014	140,168
3253121322	Super (more than 65 percent P2O5) 6/	326,131	295,006	99,355	27,252
3253124100	Superphosphate and other phosphatic fertilizer materials:				
	Gross weight	4,550,789	4,767,092	979,772	488,959
	Nitrogen content	(X)	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5)	2,143,840	2,252,327	(X)	(X)
3253124131	Monoammonium phosphates:				
	Gross weight	1,388,963	1,393,348	288,396	122,719
	Nitrogen content	203,960	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5)	716,671	719,431	(X)	(X)
3253124211	Diammonium phosphates:				
	Gross weight	2,809,147	3,061,254	629,223	304,399
	Nitrogen content	474,963	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5)	1,297,061	1,412,674	(X)	(X)
3253124222	Normal, enriched, concentrated, and other ammonium phosphates and other phosphatic fertilizer materials: 7/				
	Gross weight	a/ 352,679	a/ 312,490	a/ 62,153	61,841
	Nitrogen content	(X)	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5)	a/ 130,108	a/ 120,222	(X)	(X)
3251881100	Sulfuric acid (100 percent): 5/				
	Total gross	10,490,278	a/ 3,108,393	a/r/ 167,915	a/ 457,289
	By feedstock:				
3251881111	Elemental sulfur	a/ 9,034,300	b/ 1,889,680	a/r/ 111,161	(X)
3251881121	Smelting metallic sulfide ore	587,696	529,686	11,941	(X)
3251881131	Decomposition of alkylation and other spent acid	a/ 675,392	a/ 496,331	a/r/ 35,327	(D)
3251881141	Other	a/ 192,890	a/ 192,696	b/ 9,486	(X)
	By grade:				
3251881212	Oleum grades	b/ 399,595	b/ 274,810	b/ 11,518	c/ 17,065
3251881231	Other than oleum grades	10,090,683	a/ 2,833,583	r/ 156,397	a/ 440,224
3251881311	Spent acid fortified in contact units and included in above production data	(D)	(X)	(X)	(D)
	Total new acid 8/	9,814,886	(X)	(X)	(X)
	FIRST QUARTER				
	Ammonia:				
3253111120	Synthetic, anhydrous (100 percent)	b/ 2,844,221	b/ 910,736	b/ 228,723	c/ 371,257
3253111121	Fertilizer use	b/ 2,614,953	(D)	(D)	b/ 333,470
3253111131	Other uses	a/ 229,268	(D)	(D)	a/ 37,787

Table 2b. Production, Shipments, Consumption, and Stocks of Fertilizers and Related Chemicals: 2005
[Quantity in short tons. Value in thousands of dollars]

Product code			Total production		Total shipments including interplant transfers: Quantity		Value		Stocks 1/
	Ammonium nitrate (100 percent):								
3253111201	Original melt liquor 2/	a/	2,005,433	b/	967,844	c/	172,797	b/	157,544
3253111211	Consumed in the manufacture of other nitrogen solutions (e.g., CAN17, AN20, AAN)		34,627		(X)		(X)		(D)
3253111216	Liquor consumed in the manufacture of urea-ammonium nitrate solutions	a/	1,011,537		(X)		(X)		(D)
3253111221	High density prill and granular	a/	422,979	a/	416,692	a/	70,424	a/	32,537
3253111226	Low density prill and grained	b/	412,908	b/	433,170	c/	85,575	b/	40,051
3253111231	All other (e.g., liquor sales, etc.)	b/	123,382	b/	117,982	c/	16,798	a/	14,743
3253111240	Ammonium sulfate (100 percent)		722,190	b/	622,846	b/	90,577		142,682
3253111241	Synthetic (direct synthesis from sulfuric acid and ammonia)		(D)		(D)		(D)		(D)
3253111246	Byproduct 3/		(D)		(D)		(D)		(D)
3253111250	Nitrogen solutions, including mixtures (100 percent N)	b/	864,191	b/	715,601	c/	164,122	b/	226,084
3253111251	Ammonium nitrate/urea solutions	b/	836,413	b/	696,713	c/	159,705		(D)
3253111256	All other solutions 4/	b/	27,778	a/	18,888	a/	4,417		(D)
3253111111	Nitric acid (100 percent) 5/	b/	2,039,898	c/	604,591	c/	76,392		(X)
3253114101	Urea original melt liquor	a/	1,670,106	a/	1,029,218	c/	223,752	b/	73,416
3253114111	Consumed in the manufacture of urea-ammonium nitrate solutions		(D)		(D)		(D)		(D)
3253114121	Prills		(D)	a/	190,008	b/	48,377		(D)
3253114131	Granular	a/	761,069	c/	742,632	c/	150,223	a/	36,277
3253114141	All other (liquor sales, melamine, feedstock, other)		(D)		(D)		(D)		(D)
3253121100	Phosphoric acid (100 percent P2O5)		3,216,817		1,241,525		327,423		167,845
	By use:								
3253121211	Fertilizer		2,966,282	a/	1,083,553	a/	257,559		160,684
3253121222	Feed and other 6/		250,535		157,972		69,864		7,161
	By grade:								
3253121311	Ortho (less than 65 percent P2O5)		2,864,639		925,968		223,302		143,053
3253121322	Super (more than 65 percent P2O5) 6/		352,178		315,557		104,121		24,792
3253124100	Superphosphate and other phosphatic fertilizer materials:								
	Gross weight		4,458,738		4,297,430		863,529		751,264
	Nitrogen content		(X)		(X)		(X)		(X)
	Phosphoric oxide content (100 percent P2O5)		2,093,866		2,019,231		(X)		(X)
3253124131	Monoammonium phosphates:								
	Gross weight		1,232,299		1,212,970		245,045		122,636
	Nitrogen content		203,043		(X)		(X)		(X)
	Phosphoric oxide content (100 percent P2O5)		629,177		619,713		(X)		(X)
3253124211	Diammonium phosphates:								
	Gross weight		2,837,502		2,728,552		550,908		547,376
	Nitrogen content		518,285		(X)		(X)		(X)
	Phosphoric oxide content (100 percent P2O5)		1,309,732		1,255,552		(X)		(X)
3253124222	Normal, enriched, concentrated, and other ammonium phosphates and other phosphatic fertilizer materials: 7/								
	Gross weight		388,937	a/	355,908	a/	67,576		(D)
	Nitrogen content		(X)		(X)		(X)		(X)
	Phosphoric oxide content (100 percent P2O5)	a/	154,957	a/	143,966		(X)		(X)
3251881100	Sulfuric acid (100 percent): 5/								
	Total gross		10,440,593	a/	2,898,972	a/r/	161,210	a/	465,899
	By feedstock:								
3251881111	Elemental sulfur	a/	8,999,187	b/	1,801,287	a/r/	106,362		(X)
3251881121	Smelting metallic sulfide ore		533,747		491,031		13,935		(X)
3251881131	Decomposition of alkylation and other spent acid	a/	705,848	a/	415,515	a/	31,326		(D)

Table 2b. Production, Shipments, Consumption, and Stocks of Fertilizers and Related Chemicals: 2005
[Quantity in short tons. Value in thousands of dollars]

Product code		Total production	Total shipments including interplant transfers: Quantity	Value	Stocks 1/
3251881141	Other	a/ 201,811	a/ 191,139	b/ 9,587	(X)
	By grade:				
3251881212	Oleum grades	b/ 395,812	a/ 257,636	b/ 11,343	b/ 37,160
3251881231	Other than oleum grades	10,044,781	2,641,336	r/ 149,867	a/ 428,739
3251881311	Spent acid fortified in contact units and included in above production data	(D)	(X)	(X)	(D)
	Total new acid 8/	9,734,745	(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. Quantity of Production, Exports, Imports, and Apparent Consumption of Fertilizers and Related Chemicals: 2006 and 2005
[Quantity in thousands of metric tons]

Product code	Product description	Production	Exports of domestic merchandise 1/	Percent exports to production	Imports for consumption 2/	Apparent consumption 3/	Percent imports to apparent consumption
	2006						
3253111120	Ammonia, synthetic anhydrous	9,961.8	(NA)	(NA)	7,197.8	(NA)	(NA)
3253111201	Ammonium nitrate, original solution	6,411.9	(NA)	(NA)	1,110.3	(NA)	(NA)
3253111250	Nitrogen solutions, ammonium nitrate/ urea solutions	3,374.9	(NA)	(NA)	1,978.0	(NA)	(NA)
3253111240	Ammonium sulfate	2,603.9	(NA)	(NA)	339.0	(NA)	(NA)
3253114100	Urea	5,383.3	(NA)	(NA)	5,029.4	(NA)	(NA)
3253121100	Phosphoric acid	10,701.8	(NA)	(NA)	109.5	(NA)	(NA)
3253124211	Diammonium phosphates	8,722.8	(NA)	(NA)	54.4	(NA)	(NA)
3251881100	Sulfuric acid, gross	35,916.5	248.3	0.7	2,453.2	38,121.4	6.4
	2005						
3253111120	Ammonia, synthetic anhydrous	10,143.3	569.8	5.6	7,743.3	17,316.7	44.7
3253111201	Ammonium nitrate, original solution	6,542.7	100.6	1.5	881.6	7,323.7	12.0
3253111250	Nitrogen solutions, ammonium nitrate/ urea solutions	3,348.1	20.5	0.6	2,548.2	5,875.8	43.4
3253111240	Ammonium sulfate	2,636.5	621.3	23.6	292.2	2,307.3	12.7
3253114100	Urea	5,267.7	579.4	11.0	5,026.2	9,714.5	51.7
3253121100	Phosphoric acid	11,450.2	492.5	4.3	88.1	11,045.8	0.8
3253124211	Diammonium phosphates	10,267.5	5,685.5	55.4	11.5	4,593.6	0.3
3251881100	Sulfuric acid, gross	37,191.6	318.3	0.9	2,703.2	39,576.6	6.8

NA Not available.

1/Source: Census Bureau report EM 545, U.S. Exports.
2/Source: Census Bureau report IM 145, U.S. Imports for Consumption.
3/Apparent consumption is derived by subtracting exports from manufacturers' production plus imports. Apparent consumption does not include any adjustments for changes in inventories.

Note: For comparison of North American Industry Classification System (NAICS)-based product codes with Schedule B export codes and HTSUSA import codes, see Table 4.

Table 4. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes and HTSUSA Import Codes: 2006

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	2809.20.0010
		2809.20.0020	2809.20.0020
		2809.20.0030	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/Harmonized Tariff Schedule of the United States, Annotated (2006).

Appendix.
General CIR Survey Information, Explanation of General Terms and Historical Note

GENERAL

The CIR program has been providing monthly, quarterly, and annual measures of industrial activity for many years. Since 1904, with its cotton and fats and oils surveys, the CIR program has formed an essential part of an integrated statistical system involving the quinquennial economic census, manufacturing sector, and the annual survey of manufactures. The CIR surveys, however, provide current statistics at a more detailed product level than either of the other two statistical programs.

The primary objective of the CIR program is to produce timely, accurate data on production and shipments of selected products. The data are used to satisfy economic policy needs and for market analysis, forecasting, and decision making in the private sector. The product-level data generated by these surveys are used extensively by individual firms, trade associations, and market analysts in planning or recommending marketing and legislative strategies, particularly if their industry is significantly affected by foreign trade. Although production and shipments information are the two most common data items collected, the CIR program collects other measures also such as inventories, orders, and consumption. These surveys measure manufacturing activity in important commodity areas such as textiles and apparel, chemicals, primary metals, computer and electronic components, industrial equipment, aerospace equipment, and consumer goods.

The CIR program uses a unified data collection, processing, and publication system. The U.S. Census Bureau updates the survey panels for most reports annually and reconciles the estimates to the results of the broader-based annual survey of manufactures and the economic census, manufacturing sector. The manufacturing sector provides a complete list of all producers of the products covered by the CIR program and serves as the primary source for CIR sampling. Where a small number of producers exist, CIR surveys cover all known producers of a product. However, when the number of producers is too large, cutoff and random sampling techniques are used. Surveys are continually reviewed and modified to provide the most up-to-date information on products produced. The CIR program includes a group of mandatory and voluntary surveys. Typically the monthly and quarterly surveys are conducted on a voluntary basis. Those companies that choose not to respond to the voluntary surveys are required to submit a mandatory annual counterpart corresponding to the more frequent survey.

NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS), 1997

The adoption of the North American Industry Classification System (NAICS) in the 1997 Economic Census has had a major impact on the comparability of current and historic data. Approximately half of the industries in the manufacturing sector of NAICS do not have comparable industries in the Standard Industrial Classification (SIC) system that was used in the past.

While most of the change affecting the manufacturing sector was change within the sector, some industries left manufacturing and others came into manufacturing. Prominent among those that left manufacturing are logging and portions of publishing. Prominent among the industries that came into the manufacturing sector are bakeries, candy stores where candy is made on the premises, custom tailors, makers of custom draperies, and tire retreading. The net effect of the classification changes are such that if the 1997 value of shipments data for all manufacturers were tabulated on an SIC basis, it would be approximately 3 percent higher.

Listed below are the NAICS sectors:

21 Mining
22 Utilities
23 Construction
31-33 Manufacturing
42 Wholesale Trade
44-45 Retail Trade
48-49 Transportation and Warehousing
51 Information
52 Finance and Insurance
53 Real Estate and Rental and Leasing
54 Professional, Scientific, and Technical Services
55 Management of Companies and Enterprises
56 Administrative and Support and Waste Management and Remediation Services
61 Educational Services
62 Health Care and Social Assistance
71 Arts, Entertainment, and Recreation
72 Accommodation and Food Services
81 Other Services (except Public Administration)

(Not listed above are the Agriculture, Forestry, Fishing, and Hunting sector (NAICS 11), partially covered by the census of agriculture conducted by the U.S. Department of Agriculture, and the Public Administration sector (NAICS 92), covered by the census of governments conducted by the Census Bureau.)

The 20 NAICS sectors are subdivided into 96 subsectors (three-digit codes), 313 industry groups (four-digit codes), and, as implemented in the United States, 1170 industries (five- and six-digit codes).

FUNDING

The Census Bureau funds most of the surveys. However, a number of surveys are paid for either fully or partially by other Federal Government agencies or private trade associations. A few surveys are mandated, but all are authorized by Title 13 of the United States Code.

RELIABILITY OF DATA

Survey error may result from several sources including the inability to obtain information about all cases in the survey, response errors, definitional difficulties, differences in the interpretation of questions, mistakes in recording or coding the reported data, and other errors of collection, response, coverage, and estimation. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to these nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is the imputing of data for nonrespondents, for late reporters, and for data that fail logic edits. Missing figures are imputed based on period-to-period movements shown by reporting firms. A figure is considered to be an impute if the value was not directly reported on the questionnaire, directly derived from other reported items, directly available from supplemental sources, or obtained from the respondent during the analytical review phase. Imputation generally is limited to a maximum of 10 percent for any one data cell. Figures with imputation rates greater than 10 percent are suppressed or footnoted. The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, because the actual yearly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is assumed to be small. The degree of uncertainty regarding the accuracy of the published data increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

DATA REVISIONS

Statistics for previous years may be revised as the result of corrected figures from respondents, late reports for which imputations were originally made, or other corrections. Data that have been revised by more than 5 percent from previously published data are indicated by footnotes.

DISCLOSURE

The Census Bureau collects the CIR data under the authority of Title 13, United States Code, which specifies that the information can only be used for statistical purposes and cannot be published or released in any manner that would identify a person, household, or establishment. "D" indicates that data in the cell have been suppressed to avoid disclosure of information pertaining to individual companies.

EXPLANATION OF GENERAL TERMS

Capacity. The maximum quantity of a product that can be produced in a plant in 1 day if operating for 24 hours. Includes the capacity of idle plants until the plant is reported to be destroyed, dismantled, or abandoned.

Consumption. Materials used in producing or processing a product or otherwise removing the product from the inventory.

Exports. Includes all types of products shipped to foreign countries, or to agents or exporters for reshipment to foreign countries.

Gross shipments. The quantity or value of physical shipments from domestic establishments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale or use. Shipments of products purchased for resale are omitted. Shipments of products made under toll arrangements are included.

Interplant transfers. Shipments to other domestic plants within a company for further assembly, fabrication, or manufacture.

Inventories. The quantity or value of finished goods, work in progress, and materials on hand.

Machinery in place. The number of machines of a particular type in place as of a particular date whether the machinery was used for production, prototype, or sampling, or was idle. Machinery in place includes all machinery set up in operating positions.

Net receipts. Derived by subtracting the materials held at the end of the previous month from the sum of materials used during the current month.

Production. The total volume of products produced, including: products sold; products transferred or added to inventory after adjustments for breakage, shrinkage, and obsolescence, plus any other inventory adjustment; and products that undergo further manufacture at the same establishment.

Quantities produced and consumed. Quantities of each type of product produced by a company for internal consumption within that same company.

Quantity and value of new orders. The sales value of orders received during the current reporting period for products and services to be delivered immediately or at some future date. Also represents the net sales value of contract change documents that increase or decrease the sales value of the orders to which they are related, when the parties concerned are in substantial agreement as to the amount involved. Included as orders are only those that are supported by binding legal documents such as signed contracts or letter contracts.

Quantity and value of shipments. The figures on quantity and value of shipments represent physical shipments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and returns. Shipments to a company's own branches are assigned the same value as comparable appropriate allocation of company overhead and profit. Products bought and resold without further manufacture are excluded.

Stocks. Total quantity of ending finished inventory.

Unfilled orders (backlog). Calculated by adding net new orders and subtracting net sales from the backlog at the end of the preceding year.

HISTORICAL NOTE

Data on inorganic fertilizer chemicals and sulfuric acid have been collected by the Census Bureau since 1941. Historical data may be obtained from Current Industrial Reports (called Facts for Industry before 1959) available at your local Federal Depository Library.