

## Summary

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**SUMMARY OF FINDINGS.** United States production of sulfuric acid in 2005 totaled 40,955,547 short

tons (100 percent H<sub>2</sub>SO<sub>4</sub>), approximately 2.3 percent below the 2004 level of 41,934,163 short tons.

Production of synthetic ammonia, nitric acid, and ammonium compounds decreased approximately 1.0 percent to 32,387,543 short tons in 2005, from 32,659,386 short tons in 2004. Phosphoric acid production decreased by less than 1.0 percent to 12,609,320 short tons in 2005, from 12,692,663 short tons in 2004.

Production of superphosphate and other phosphatic fertilizer materials for 2005 decreased 6.8 percent to 8,141,361 short tons (100 percent P<sub>2</sub>O<sub>5</sub>), from 8,736,571 short tons (100 percent P<sub>2</sub>O<sub>5</sub>) in 2004.

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

*Helping You Make Informed Decisions*

U.S. Department of Commerce  
Economics and Statistics Administration  
U.S. CENSUS BUREAU

Table 1. Shipments and Production of Principal Fertilizers and Related Chemicals: 2001 to 2005  
 [Quantity in thousands of short tons. Value in millions of dollars]

Product code	Product description	Year	Total production	Total shipments including interplant transfers	
				Quantity	Value (f.o.b. plant)
3253111120	Ammonia, synthetic anhydrous 1/.....	2005	11,181	4,432	1,184
		2004	12,058	4,490	1,052
		2003	11,330	4,477	975
		2002	13,863	5,218	765
		2001	12,227	4,894	904
3253111201	Ammonium nitrate, original melt liquor 2/.....	2005	7,212	3,457	643
		2004	7,229	4,275	730
		2003	6,328	3,812	588
		2002	7,096	4,074	534
		2001	6,431	3,317	551
3253111240	Ammonium sulfate 1/.....	2005	2,906	2,775	401
		2004	3,005	2,989	399
		2003	2,871	2,919	315
		2002	2,945	2,506	216
		2001	2,588	2,353	249
3253114100	Urea (100 percent).....	2005	5,807	3,564	807
		2004	6,344	4,026	848
		2003	6,375	4,475	686
		2002	7,758	5,564	743
		2001	6,702	4,426	647
3253111111	Nitric acid (100 percent).....	2005	7,398	2,352	304
		2004	7,129	1,870	224
		2003	7,189	1,910	202
		2002	7,651	1,686	212
		2001	7,074	1,868	174
3253121100	Phosphoric acid (100 percent P2O5).....	2005	12,609	4,363	1,206
		2004	12,693	4,614	1,204
		2003	12,537	4,239	1,069
		2002	12,289	3,837	1,129
		2001	11,546	3,384	937
3251881100	Sulfuric acid, gross (100 percent).....	2005	40,956	11,782	568
		2004	41,934	12,574	637
		2003	41,144	11,598	611
		2002	39,760	11,891	593
		2001	40,064	10,940	557
3253124100	Superphosphates and other fertilizer materials (100 percent P2O5).....	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
		2001	8,109	8,055	2,232

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: 2005  
 [Quantity in short tons. Value in thousands of dollars]

Product code	Product description	Total production	Total shipments including interplant transfers		Stocks 1/
			Quantity	Value	
<b>TOTAL</b>					
Ammonia:					
3253111120	Synthetic, anhydrous (100 percent).....	11,180,832	4,432,262	1,183,775	(X)
3253111121	Fertilizer use.....	9,994,712	4,091,746	1,078,354	(X)
3253111131	Other uses.....	1,186,120	340,516	105,421	(X)
Ammonium nitrate (100 percent):					
3253111201	Original melt liquor 2/.....	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).....	3,690,546	3,003,099	667,278	(X)
3253111251	Ammonium nitrate/urea solutions.....	3,587,576	2,932,007	649,941	(X)
3253111256	All other solutions 4/.....	102,970	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	3,563,670	806,560	(X)
3253114111	Consumed in the manufacture of urea-ammonium nitrate solutions.....	2,550,624	246,313	63,125	(X)
3253114121	Prills.....	722,391	709,022	175,900	(X)
3253114131	Granular.....	2,441,367	2,513,123	520,315	(X)
3253114141	All other (liquor sales, melamine, feedstock, and other).....	92,121	95,212	47,220	(X)
3253121100	Phosphoric acid (100 percent P2O5).....	12,609,320	4,363,178	1,205,849	(X)
By use:					
3253121211	Fertilizer.....	11,599,365	3,708,270	890,135	(X)
3253121222	Feed and other 6/.....	1,009,955	654,908	315,714	(X)
By grade:					
3253121311	Ortho (less than 65 percent P2O5).....	11,266,255	3,119,094	794,446	(X)
3253121322	Super (more than 65 percent P2O5) 6/.....	1,346,603	1,272,246	419,403	(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)

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

Product code	Product description	Total production	Total shipments including interplant transfers		Stocks 1/
			Quantity	Value	
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)
3251881100	Sulfuric acid (100 percent): 5/				
	Total gross.....	40,955,547	11,782,425	568,356	(X)
	By feedstock:				
3251881111	Elemental sulfur.....	35,150,311	7,045,246	344,494	(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	126,544	(X)
3251881141	Other.....	766,098	752,912	35,713	(X)
	By grade:				
3251881212	Oleum grades.....	1,602,352	1,067,348	44,945	(X)
3251881231	Other than oleum grades.....	39,353,195	10,715,077	523,411	(X)
3251881311	Spent acid fortified in contact units and included in above production data .....	(D)	(X)	(X)	(X)
	Total new acid 8/.....	38,216,931	(X)	(X)	(X)
<b>FOURTH QUARTER</b>					
Ammonia:					
3253111120	Synthetic, anhydrous (100 percent).....	b/ 2,225,954	b/r/ 1,097,269	b/r/ 326,079	b/r/ 340,466
3253111121	Fertilizer use.....	a/ 1,900,707	(D)	b/ 297,737	b/r/ 286,749
3253111131	Other uses.....	r/ 325,247	(D)	r/ 28,342	a/r/ 53,717
Ammonium nitrate (100 percent):					
3253111201	Original melt liquor 2/.....	b/ 1,640,015	b/r/ 798,522	b/r/ 156,107	b/r/ 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/r/ 832,502	(X)	(X)	c/r/ 90,274
3253111221	High density prill and granular.....	(D)	(D)	(D)	(D)
3253111226	Low density prill and grained.....	b/ 498,347	b/r/ 520,048	b/r/ 111,169	c/r/ 21,172
3253111231	All other (e.g., liquor sales, etc.).....	c/r/ 126,914	(D)	(D)	a/r/ 8,361
3253111240	Ammonium sulfate (100 percent).....	725,349	r/ 729,059	r/ 100,880	r/ 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).....	864,449	r/ 673,410	r/ 157,290	r/ 134,602
3253111251	Ammonium nitrate/urea solutions.....	b/ 832,222	b/r/ 650,629	b/r/ 151,300	(D)
3253111256	All other solutions 4/.....	b/r/ 32,227	a/ 22,781	5,990	(D)
3253111111	Nitric acid (100 percent) 5/.....	b/r/ 1,698,354	c/r/ 596,911	c/r/ 79,542	(X)
3253114101	Urea original melt liquor.....	a/ 1,108,080	c/r/ 630,873	c/r/ 155,856	b/r/ 151,825
3253114111	Consumed in the manufacture of urea-ammonium nitrate solutions.....	572,772	(D)	(D)	(D)
3253114121	Prills.....	a/r/ 191,250	(D)	(D)	(D)
3253114131	Granular.....	a/r/ 321,690	b/r/ 387,148	b/r/ 81,076	b/r/ 86,240
3253114141	All other (liquor sales, melamine, feedstock, and other).....	b/r/ 22,368	(D)	(D)	(D)

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

Product code	Product description	Total production	Total shipments including interplant transfers				Stocks 1/
			Quantity		Value		
3253121100	Phosphoric acid (100 percent P2O5).....	2,944,616	r/	967,895	r/	275,943	176,348
	By use:						
3253121211	Fertilizer.....	2,690,628	a/r/	807,157	b/r/	194,208	169,447
3253121222	Feed and other 6/.....	253,988	r/	160,738	r/	81,735	6,901
	By grade:						
3253121311	Ortho (less than 65 percent P2O5).....	b/ 2,609,126	a/r/	683,879	a/r/	181,311	154,787
3253121322	Super (more than 65 percent P2O5) 6/.....	r/ 335,177		332,696		106,968	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)
	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/r/ 383,040	r/	339,421	r/	74,628	85,383
	Nitrogen content.....	(X)		(X)		(X)	(X)
	Phosphoric oxide content (100 percent P2O5).....	188,408		(D)		(X)	(X)
3251881100	Sulfuric acid (100 percent): 5/						
	Total gross.....	a/ 9,592,624	b/r/	2,892,043	b/	138,326	a/ 461,615
	By feedstock:						
3251881111	Elemental sulfur.....	a/ 8,189,673	b/r/	1,719,400	c/r/	82,846	(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/r/	395,862	b/r/	28,952	(D)
3251881141	Other.....	a/r/ 184,443	a/r/	189,598		(S)	(X)
	By grade:						
3251881212	Oleum grades.....	b/r/ 410,058	b/r/	277,389	b/r/	11,712	b/r/ 30,976
3251881231	Other than oleum grades.....	a/ 9,182,566	b/	2,614,654	b/	126,614	a/ 430,639
3251881311	Spent acid fortified in contact units and included in above production data .....	(D)		(X)		(X)	(D)
	Total new acid 8/.....	8,984,422		(X)		(X)	(X)
<b>THIRD QUARTER</b>							
Ammonia:							
3253111120	Synthetic, anhydrous (100 percent).....	b/ 2,838,961	b/r/	1,120,838	b/r/	287,232	b/r/ 388,810
3253111121	Fertilizer use.....	b/ 2,517,580		(D)		(D)	c/r/ 336,431
3253111131	Other uses.....	r/ 321,381		(D)		(D)	a/ 52,379
Ammonium nitrate (100 percent):							
3253111201	Original melt liquor 2/.....	b/ 1,629,044	b/r/	746,883	b/r/	140,650	b/r/ 115,948
3253111211	Consumed in the manufacture of other nitrogen solutions (e.g., CAN17, AN20, AAN).....	(D)		(X)		(X)	(D)

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

Product code	Product description		Total production	Total shipments including interplant transfers		Stocks 1/
				Quantity	Value	
3253111216	Liquor consumed in the manufacture of urea-ammonium nitrate solutions.....	a/r/	867,758	(X)	(X)	b/r/ 73,477
3253111221	High density prill and granular.....		(D)	(D)	(D)	(D)
3253111226	Low density prill and grained.....	b/	431,280	b/r/	455,952	b/r/ 91,903
3253111231	All other (e.g., liquor sales, etc.).....	c/r/	137,134		(D)	(D) a/ 3,657
3253111240	Ammonium sulfate (100 percent).....		693,530	r/	714,086	r/ 103,632
3253111241	Synthetic (direct synthesis from sulfuric acid and ammonia).....		(D)		(D)	(D)
3253111246	Byproduct 3/.....		(D)		(D)	(D)
3253111250	Nitrogen solutions, including mixtures (100 percent N).....		929,915	r/	754,087	r/ 170,971
3253111251	Ammonium nitrate/urea solutions.....	a/	908,327	a/r/	738,554	b/r/ 167,200
3253111256	All other solutions 4/.....	c/	21,588	c/	15,533	c/ 3,771
3253111111	Nitric acid (100 percent) 5/.....	b/r/	1,698,894	c/r/	559,171	c/r/ 72,258
3253114101	Urea original melt liquor.....	b/	1,403,450	b/r/	915,578	c/r/ 208,254
3253114111	Consumed in the manufacture of urea-ammonium nitrate solutions.....		(D)		(D)	(D)
3253114121	Prills.....		(D)		(D)	(D)
3253114131	Granular.....	a/r/	616,790	b/r/	648,637	b/r/ 136,471
3253114141	All other (liquor sales, melamine, feedstock, and other).....		(D)		(D)	(D)
3253121100	Phosphoric acid (100 percent P2O5).....		3,285,988	r/	1,094,907	r/ 305,296
3253121211	By use: Fertilizer.....	a/	3,034,563	a/r/	926,424	b/r/ 223,928
3253121222	Feed and other 6/.....		251,425	r/	168,483	r/ 81,368
3253121311	By grade: Ortho (less than 65 percent P2O5).....	a/	2,953,223	a/r/	763,878	a/r/ 195,767
3253121322	Super (more than 65 percent P2O5) 6/.....	r/	333,116		329,278	109,018
3253124100	Superphosphate and other phosphatic fertilizer materials:					
	Gross weight.....		4,507,778		4,528,302	987,878
	Nitrogen content.....		(X)		(X)	(X)
	Phosphoric oxide content (100 percent P2O5).....		2,078,114		2,086,053	(X)
3253124131	Monoammonium phosphates:					
	Gross weight.....		1,000,441		1,035,309	226,688
	Nitrogen content.....	b/	157,235		(X)	(X)
	Phosphoric oxide content (100 percent P2O5).....		510,924		529,123	(X)
3253124211	Diammonium phosphates:					
	Gross weight.....		3,128,495		3,147,442	689,022
	Nitrogen content.....		532,494		(X)	(X)
	Phosphoric oxide content (100 percent P2O5).....		1,419,139		1,424,026	(X)
3253124222	Normal, enriched, concentrated, and other ammonium phosphates and other phosphatic fertilizer materials: 7/					
	Gross weight.....	a/r/	378,842	r/	345,551	r/ 72,168
	Nitrogen content.....		(X)		(X)	(X)
	Phosphoric oxide content (100 percent P2O5).....	a/r/	148,051		(D)	(X)

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

Product code	Product description	Total production	Total shipments including interplant transfers		Stocks 1/
			Quantity	Value	
3251881100	Sulfuric acid (100 percent): 5/ Total gross.....	a/ 10,472,544	b/r/ 2,923,177	b/ 142,700	a/r/ 449,275
	By feedstock:				
3251881111	Elemental sulfur.....	a/ 8,967,643	c/r/ 1,675,039	c/r/ 82,446	(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/ 34,413	(D)
3251881141	Other.....	a/r/ 186,954	c/ 179,479	b/r/ 8,895	(X)
	By grade:				
3251881212	Oleum grades.....	b/r/ 396,889	b/r/ 251,562	b/r/ 10,372	b/r/ 20,755
3251881231	Other than oleum grades.....	a/ 10,075,655	b/ 2,671,615	b/ 132,328	a/ 428,520
3251881311	Spent acid fortified in contact units and included in above production data .....	(D)	(X)	(X)	(D)
	Total new acid 8/.....	9,723,370	(X)	(X)	(X)
<b>SECOND QUARTER</b>					
Ammonia:					
3253111120	Synthetic, anhydrous (100 percent).....	b/r/ 3,271,696	b/r/ 1,303,419	b/ 341,486	c/r/ 304,111
3253111121	Fertilizer use.....	b/ 2,961,472	(D)	(D)	b/r/ 265,912
3253111131	Other uses.....	r/ 310,224	(D)	(D)	a/r/ 38,199
Ammonium nitrate (100 percent):					
3253111201	Original melt liquor 2/.....	b/ 1,937,465	b/r/ 943,558	c/r/ 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/r/ 9,111
3253111226	Low density prill and grained.....	b/ 458,775	b/r/ 481,614	b/r/ 95,848	c/r/ 40,468
3253111231	All other (e.g., liquor sales, etc.).....	c/r/ 117,563	b/r/ 100,745	c/r/ 16,535	a/r/ 15,602
3253111240	Ammonium sulfate (100 percent).....	765,079	r/ 709,030	r/ 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)
3253111250	Nitrogen solutions, including mixtures (100 percent N).....	r/ 1,031,990	r/ 860,001	r/ 174,895	r/ 167,198
3253111251	Ammonium nitrate/urea solutions.....	a/r/ 1,010,614	a/r/ 846,111	b/r/ 171,736	(D)
3253111256	All other solutions 4/.....	b/r/ 21,376	a/r/ 13,890	a/r/ 3,159	(D)
3253111111	Nitric acid (100 percent) 5/.....	b/r/ 1,960,914	c/r/ 591,170	c/r/ 75,738	(X)
3253114101	Urea original melt liquor.....	a/ 1,624,867	a/r/ 1,012,466	c/r/ 222,173	a/r/ 89,414
3253114111	Consumed in the manufacture of urea-ammonium nitrate solutions.....	a/ 670,408	(D)	(D)	(D)
3253114121	Prills.....	a/r/ 186,995	(D)	(D)	(D)
3253114131	Granular.....	a/r/ 741,818	b/r/ 734,706	b/r/ 152,545	a/ 54,066
3253114141	All other (liquor sales, melamine, feedstock, and other).....	r/ 25,646	(D)	(D)	(D)
3253121100	Phosphoric acid (100 percent P2O5).....	3,163,115	r/ 1,058,851	r/ 297,187	167,420
	By use:				
3253121211	Fertilizer.....	2,909,108	a/r/ 891,136	b/r/ 214,440	161,554
3253121222	Feed and other 6/.....	254,007	r/ 167,715	r/ 82,747	r/ 5,866
	By grade:				
3253121311	Ortho (less than 65 percent P2O5).....	2,836,820	a/r/ 763,293	a/r/ 197,558	140,168
3253121322	Super (more than 65 percent P2O5) 6/.....	r/ 326,132	294,481	99,247	27,252
3253124100	Superphosphate and other phosphatic fertilizer materials: Gross weight.....	4,550,789	4,767,092	979,772	488,959

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

Product code	Product description	Total production	Total shipments including interplant transfers		Stocks 1/
			Quantity	Value	
	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/r/ 352,679	a/r/ 312,490	a/r/ 62,153	61,841
	Nitrogen content.....	(X)	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5).....	a/r/ 130,108	a/r/ 120,222	(X)	(X)
3251881100	Sulfuric acid (100 percent): 5/				
	Total gross.....	10,470,032	a/r/ 3,088,313	b/r/ 145,897	a/ 457,289
	By feedstock:				
3251881111	Elemental sulfur.....	a/ 9,014,054	b/r/ 1,869,600	c/r/ 91,257	(X)
3251881121	Smelting metallic sulfide ore.....	587,696	529,686	11,941	(X)
3251881131	Decomposition of alkylation and other spent acid.....	a/r/ 675,392	a/ 496,331	a/r/ 33,213	(D)
3251881141	Other.....	a/r/ 192,890	a/r/ 192,696	b/r/ 9,486	(X)
	By grade:				
3251881212	Oleum grades.....	b/r/ 399,594	b/r/ 274,810	b/r/ 11,518	c/ 17,065
3251881231	Other than oleum grades.....	10,070,438	a/r/ 2,813,503	b/r/ 134,379	a/ 440,224
3251881311	Spent acid fortified in contact units and included in above production data .....	(D)	(X)	(X)	(D)
	Total new acid 8/.....	9,794,640	(X)	(X)	(X)
<b>FIRST QUARTER</b>					
	Ammonia:				
3253111120	Synthetic, anhydrous (100 percent).....	b/ 2,844,221	b/ 910,736	b/r/ 228,978	b/r/ 371,257
3253111121	Fertilizer use.....	b/ 2,614,953	(D)	(D)	b/r/ 333,470
3253111131	Other uses.....	a/r/ 229,268	(D)	(D)	a/r/ 37,787
	Ammonium nitrate (100 percent):				
3253111201	Original melt liquor 2/.....	a/ 2,005,433	b/r/ 967,844	c/r/ 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/r/ 70,424	a/r/ 32,537
3253111226	Low density prill and grained.....	b/ 412,908	b/r/ 433,170	b/r/ 85,575	b/r/ 40,051
3253111231	All other (e.g., liquor sales, etc.).....	b/r/ 123,382	b/r/ 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)



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

Product code	Product description	Total production		Total shipments including interplant transfers		Value	Stocks 1/		
		Quantity	Value	Quantity	Value				
3253111250	Nitrogen solutions, including mixtures (100 percent N).....	r/	864,192	r/	715,601	r/	164,122	r/	226,084
3253111251	Ammonium nitrate/urea solutions.....	a/r/	836,413	b/r/	696,713	c/r/	159,705		(D)
3253111256	All other solutions 4/.....	b/	27,779	a/	18,888	a/r/	4,417		(D)
3253111111	Nitric acid (100 percent) 5/.....	b/r/	2,039,898	c/r/	604,591	c/r/	76,392		(X)
3253114101	Urea original melt liquor.....	a/	1,670,106	a/	1,004,753	c/r/	220,277	b/r/	73,416
3253114111	Consumed in the manufacture of urea-ammonium nitrate solutions.....		(D)		(D)		(D)		(D)
3253114121	Prills.....		(D)	a/r/	190,008	b/r/	46,659		(D)
3253114131	Granular.....	a/r/	761,069	c/	742,632	c/r/	150,223	a/	36,277
3253114141	All other (liquor sales, melamine, feedstock, and other).....		(D)		(D)		(D)		(D)
3253121100	Phosphoric acid (100 percent P2O5).....		3,215,601	r/	1,241,525		327,423		167,845
	By use:								
3253121211	Fertilizer.....		2,965,066	a/r/	1,083,553	a/r/	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).....		2,867,086	a/	908,044	a/	219,810		144,209
3253121322	Super (more than 65 percent P2O5) 6/.....	r/	352,178		315,791		104,170		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.....	r/	388,937	a/r/	355,908	a/r/	67,576		(D)
	Nitrogen content.....		(X)		(X)		(X)		(X)
	Phosphoric oxide content (100 percent P2O5).....	a/r/	154,957	a/r/	143,966		(X)		(X)
3251881100	Sulfuric acid (100 percent): 5/								
	Total gross.....	a/	10,420,347	a/r/	2,878,892	b/r/	141,433	a/	465,899
	By feedstock:								
3251881111	Elemental sulfur.....	a/	8,978,941	b/r/	1,781,207	c/r/	87,945		(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/r/	415,515	a/r/	29,966		(D)
3251881141	Other.....	a/r/	201,811	a/r/	191,139	b/r/	9,587		(X)

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

Product code	Product description		Total production	Total shipments including interplant transfers		Stocks 1/
				Quantity	Value	
	By grade:					
3251881212	Oleum grades.....	b/r/	395,811	b/r/	263,587	b/r/ 37,160
3251881231	Other than oleum grades.....		10,024,536	a/r/	2,615,305	b/r/ 130,090
3251881311	Spent acid fortified in contact units and included in above production data .....		(D)		(X)	(X)
	Total new acid 8/.....		9,714,499		(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. S Does not meet publication standards. 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: 2004  
 [Quantity in short tons. Value in thousands of dollars]

Product code		Total production	Total shipments including interplant transfers		Stocks 1/
			Quantity	Value	
<b>TOTAL</b>					
Ammonia:					
3253111120	Synthetic, anhydrous (100 percent).....	12,057,896	4,490,481	1,052,327	(X)
3253111121	Fertilizer use.....	11,355,555	4,332,648	1,015,189	(X)
3253111131	Other uses.....	702,341	157,833	37,138	(X)
Ammonium nitrate (100 percent):					
3253111201	Original melt liquor 2/.....	7,229,397	4,274,897	729,947	(X)
3253111211	Consumed in the manufacture of other nitrogen solutions (e.g., CAN17, AN20, AAN).....	137,685	(X)	(X)	(X)
3253111216	Liquor consumed in the manufacture of urea-ammonium nitrate solutions.....	3,679,022	(X)	(X)	(X)
3253111221	High density prill and granular.....	1,384,499	1,397,946	229,139	(X)
3253111226	Low density prill and grained.....	1,609,757	1,603,839	296,247	(X)
3253111231	All other (e.g., liquor sales, etc.).....	418,434	415,476	62,774	(X)
3253111240	Ammonium sulfate (100 percent).....	3,005,015	2,988,603	398,624	(X)
3253111241	Synthetic (direct synthesis from sulfuric acid and ammonia).....	(D)	(D)	(D)	(X)
3253111246	Byproduct 3/.....	(D)	(D)	(D)	(X)
3253111250	Nitrogen solutions, including mixtures (100 percent N).....	3,238,080	2,985,207	551,727	(X)
3253111251	Ammonium nitrate/urea solutions.....	(D)	(D)	(D)	(X)
3253111256	All other solutions 4/.....	(D)	(D)	(D)	(X)
3253111111	Nitric acid (100 percent) 5/.....	7,128,998	1,869,809	223,937	(X)
3253114101	Urea original melt liquor.....	6,344,182	4,026,470	847,811	(X)
3253114111	Consumed in the manufacture of urea-ammonium nitrate solutions.....	2,517,757	241,332	62,873	(X)
3253114121	Prills.....	868,267	813,761	177,934	(X)
3253114131	Granular.....	2,858,829	2,866,756	553,575	(X)
3253114141	All other (liquor sales, melamine, feedstock, and other).....	99,329	104,621	53,429	(X)
3253121100	Phosphoric acid (100 percent P2O5).....	12,692,663	4,613,861	1,203,939	(X)
By use:					
3253121211	Fertilizer.....	11,721,157	3,987,710	940,750	(X)
3253121222	Feed and other 6/.....	971,506	626,151	263,189	(X)
By grade:					
3253121311	Ortho (less than 65 percent P2O5).....	11,328,651	3,353,518	809,737	(X)
3253121322	Super (more than 65 percent P2O5) 6/.....	1,364,012	1,260,343	394,202	(X)
3253124100	Superphosphate and other phosphatic fertilizer materials:				
	Gross weight.....	18,371,108	18,106,635	3,418,756	(X)
	Nitrogen content.....	2,740,525	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5).....	8,736,571	8,610,229	(X)	(X)
3253124131	Monoammonium phosphates:				
	Gross weight.....	5,739,799	5,683,315	1,080,730	(X)
	Nitrogen content.....	655,113	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5).....	2,926,576	2,878,799	(X)	(X)
3253124211	Diammonium phosphates:				
	Gross weight.....	11,120,722	10,779,799	2,044,480	(X)
	Nitrogen content.....	1,994,465	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5).....	5,138,732	5,047,236	(X)	(X)

Table 2b. Production, Shipments, Consumption, and Stocks of Fertilizers and Related Chemicals: 2004  
 [Quantity in short tons. Value in thousands of dollars]

Product code		Total production	Total shipments including interplant transfers		Stocks 1/
			Quantity	Value	
3253124222	Normal, enriched, concentrated, and other ammonium phosphates and other phosphatic fertilizer materials: 7/				
	Gross weight.....	1,510,587	1,643,521	293,546	(X)
	Nitrogen content.....	(X)	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5).....	671,263	684,194	(X)	(X)
3251881100	Sulfuric acid (100 percent): 5/				
	Total gross.....	41,934,163	12,573,983	636,683	(X)
	By feedstock:				
3251881111	Elemental sulfur.....	35,675,552	7,487,901	387,865	(X)
3251881121	Smelting metallic sulfide ore.....	2,453,338	2,391,605	68,029	(X)
3251881131	Decomposition of alkylation and other spent acid.....	3,000,818	1,937,254	143,069	(X)
3251881141	Other.....	804,455	757,223	37,720	(X)
	By grade:				
3251881212	Oleum grades.....	1,703,907	1,159,652	55,902	(X)
3251881231	Other than oleum grades.....	40,230,256	11,414,331	580,781	(X)
3251881311	Spent acid fortified in contact units and included in above production data.....	(D)	(X)	(X)	(X)
	Total new acid 8/.....	38,933,345	(X)	(X)	(X)
<b>FOURTH QUARTER</b>					
Ammonia:					
3253111120	Synthetic, anhydrous (100 percent).....	b/ 2,974,748	c/ 985,008	c/ 237,876	b/ 400,521
3253111121	Fertilizer use.....	b/ 2,823,136	c/ 951,684	c/ 229,746	(D)
3253111131	Other uses.....	a/ 151,612	(S)	(S)	(D)
Ammonium nitrate (100 percent):					
3253111201	Original melt liquor 2/.....	b/ 1,977,344	b/ 1,081,552	b/ 186,826	b/ 152,540
3253111211	Consumed in the manufacture of other nitrogen solutions (e.g., CAN17, AN20, AAN).....	38,099	(X)	(X)	4,105
3253111216	Liquor consumed in the manufacture of urea-ammonium nitrate solutions.....	a/ 1,067,060	(X)	(X)	b/ 52,931
3253111221	High density prill and granular.....	a/ 396,138	a/ 391,595	a/ 66,179	33,359
3253111226	Low density prill and grained.....	c/ 375,776	c/ 370,244	c/ 69,849	c/ 47,994
3253111231	All other (e.g., liquor sales, etc.).....	c/ 100,271	b/ 100,960	c/ 14,888	b/ 14,151
3253111240	Ammonium sulfate (100 percent).....	716,798	b/ 760,522	b/ 108,514	95,976
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).....	845,733	753,258	147,069	110,635
3253111251	Ammonium nitrate/urea solutions.....	b/ 815,210	b/ 727,269	c/ 141,651	(D)
3253111256	All other solutions 4/.....	b/ 30,523	a/ 25,989	a/ 5,418	(D)
3253111111	Nitric acid (100 percent) 5/.....	b/ 1,846,676	c/ 463,056	c/ 56,235	(X)
3253114101	Urea original melt liquor.....	a/ 1,706,689	c/ 1,018,409	c/ 219,560	b/ 107,736
3253114111	Consumed in the manufacture of urea-ammonium nitrate solutions.....	a/ 686,101	a/ 50,338	a/ 10,729	(D)
3253114121	Prills.....	a/ 211,783	(D)	(D)	b/ 30,876
3253114131	Granular.....	a/ 791,731	(D)	(D)	a/ 62,511
3253114141	All other (liquor sales, melamine, feedstock, and other).....	17,074	(D)	(D)	(D)

Table 2b. Production, Shipments, Consumption, and Stocks of Fertilizers and Related Chemicals: 2004  
 [Quantity in short tons. Value in thousands of dollars]

Product code		Total production	Total shipments including interplant transfers			Stocks 1/
			Quantity	Value		
3253121100	Phosphoric acid (100 percent P2O5).....	3,321,487	1,256,000	319,375		173,307
	By use:					
3253121211	Fertilizer.....	3,066,978	b/ 1,091,495	b/ 257,478		162,098
3253121222	Feed and other 6/.....	254,509	164,505	61,897		11,209
	By grade:					
3253121311	Ortho (less than 65 percent P2O5).....	2,960,255	b/ 932,269	b/ 216,950		152,324
3253121322	Super (more than 65 percent P2O5) 6/.....	361,232	323,731	102,425		20,983
3253124100	Superphosphate and other phosphatic fertilizer materials:					
	Gross weight.....	4,600,025	4,448,077	887,566		618,018
	Nitrogen content.....	709,811	(X)	(X)		(X)
	Phosphoric oxide content (100 percent P2O5).....	2,193,889	2,106,513	(X)		(X)
3253124131	Monoammonium phosphates:					
	Gross weight.....	1,273,653	1,245,082	247,512		108,207
	Nitrogen content.....	144,498	(X)	(X)		(X)
	Phosphoric oxide content (100 percent P2O5).....	646,310	617,282	(X)		(X)
3253124211	Diammonium phosphates:					
	Gross weight.....	2,994,352	2,764,787	556,533		433,483
	Nitrogen content.....	542,744	(X)	(X)		(X)
	Phosphoric oxide content (100 percent P2O5).....	1,390,069	1,325,583	(X)		(X)
3253124222	Normal, enriched, concentrated, and other ammonium phosphates and other phosphatic fertilizer materials: 7/					
	Gross weight.....	a/ 332,020	a/ 438,208	a/ 83,521	a/ 76,328	
	Nitrogen content.....	(X)	(X)	(X)	(X)	
	Phosphoric oxide content (100 percent P2O5).....	b/ 157,510	b/ 163,648	(X)	(X)	
3251881100	Sulfuric acid (100 percent): 5/					
	Total gross.....	a/ 10,704,623	b/ 3,112,378	b/ 155,179	b/ 477,589	
	By feedstock:					
	Elemental sulfur.....	a/ 9,191,439	b/ 1,881,519	b/ 97,290	(X)	
	Smelting metallic sulfide ore.....	614,853	608,019	a/ 16,460	(X)	
	Decomposition of alkylation and other spent acid.....	a/ 692,742	b/ 432,709	b/ 31,980	(D)	
	Other.....	a/ 205,589	a/ 190,131	a/ 9,449	(X)	
	By grade:					
	Oleum grades.....	b/ 427,132	b/ 294,031	b/ 14,254	b/ 39,659	
	Other than oleum grades.....	10,277,491	a/ 2,818,347	b/ 140,925	b/ 437,930	
	Spent acid fortified in contact units and included in above production data.....	(D)	(X)	(X)	(D)	
	Total new acid 8/.....	10,011,881	(X)	(X)	(X)	
<b>THIRD QUARTER</b>						
	Ammonia:					
3253111120	Synthetic, anhydrous (100 percent).....	b/ 3,029,959	c/ 1,270,985	c/ 298,786	b/ 319,186	
3253111121	Fertilizer use.....	b/ 2,845,821	b/ 1,217,877	c/ 286,809	(D)	
3253111131	Other uses.....	a/ 184,138	b/ 53,108	b/ 11,977	(D)	
	Ammonium nitrate (100 percent):					
3253111201	Original melt liquor 2/.....	b/ 1,821,504	b/ 1,015,453	b/ 174,475	c/ 103,355	
3253111211	Consumed in the manufacture of other nitrogen solutions (e.g., CAN17, AN20, AAN).....	30,148	(X)	(X)	(D)	

Table 2b. Production, Shipments, Consumption, and Stocks of Fertilizers and Related Chemicals: 2004  
 [Quantity in short tons. Value in thousands of dollars]

Product code			Total production	Total shipments including interplant transfers			Stocks 1/
				Quantity	Value		
3253111216	Liquor consumed in the manufacture of urea-ammonium nitrate solutions.....	a/	992,270	(X)	(X)	c/	33,594
3253111221	High density prill and granular.....	a/	249,408	a/	257,056	a/	41,016 (D)
3253111226	Low density prill and grained.....	b/	434,090	b/	424,073	b/	79,231 c/ 39,365
3253111231	All other (e.g., liquor sales, etc.).....	b/	115,588	b/	105,856	b/	16,593 14,987
3253111240	Ammonium sulfate (100 percent).....		728,643	b/	698,480	b/	95,674 123,069
3253111241	Synthetic (direct synthesis from sulfuric acid and ammonia).....		(D)		(D)		(D) 7,797
3253111246	Byproduct 3/.....		(D)		(D)		(D) 115,272
3253111250	Nitrogen solutions, including mixtures (100 percent N).....		757,448		718,238		133,168 r/ 83,732
3253111251	Ammonium nitrate/urea solutions.....		(D)		(D)		(D) (D)
3253111256	All other solutions 4/.....		(D)		(D)		(D) (D)
3253111111	Nitric acid (100 percent) 5/.....	b/	1,688,238	c/	478,147	b/	55,190 (X)
3253114101	Urea original melt liquor.....	b/	1,597,059	b/	940,673	c/	195,639 b/ 111,614
3253114111	Consumed in the manufacture of urea-ammonium nitrate solutions.....	a/	619,808		43,725		8,971 c/ 7,076
3253114121	Prills.....		(D)		(D)		(D) (D)
3253114131	Granular.....	a/	714,522		(D)		(D) a/ 56,224
3253114141	All other (liquor sales, melamine, feedstock, and other).....		(D)		(D)		(D) (D)
3253121100	Phosphoric acid (100 percent P2O5).....		3,047,495		1,147,663		293,738 164,611
	By use:						
3253121211	Fertilizer.....		2,812,823	a/	983,581	a/	232,215 (D)
3253121222	Feed and other 6/.....		234,672		164,082		61,523 (D)
	By grade:						
3253121311	Ortho (less than 65 percent P2O5).....		2,716,482	a/	836,109	a/	195,724 151,232
3253121322	Super (more than 65 percent P2O5) 6/.....		331,013		311,554		98,014 13,379
3253124100	Superphosphate and other phosphatic fertilizer materials:						
	Gross weight.....		4,357,812		4,377,840		846,783 469,856
	Nitrogen content.....		641,788		(X)		(X) (X)
	Phosphoric oxide content (100 percent P2O5).....		2,066,200		2,073,166		(X) (X)
3253124131	Monoammonium phosphates:						
	Gross weight.....		1,456,737		1,510,105		293,396 83,833
	Nitrogen content.....		167,386		(X)		(X) (X)
	Phosphoric oxide content (100 percent P2O5).....		740,235		763,754		(X) (X)
3253124211	Diammonium phosphates:						
	Gross weight.....		2,555,454		2,531,994		492,983 290,128
	Nitrogen content.....		453,572		(X)		(X) (X)
	Phosphoric oxide content (100 percent P2O5).....		1,176,492		1,164,983		(X) (X)
3253124222	Normal, enriched, concentrated, and other ammonium phosphates and other phosphatic fertilizer materials: 7/						
	Gross weight.....		345,621	b/	335,741	c/	60,404 95,895
	Nitrogen content.....		(X)		(X)		(X) (X)
	Phosphoric oxide content (100 percent P2O5).....	b/	149,473	b/	144,429		(X) (X)

Table 2b. Production, Shipments, Consumption, and Stocks of Fertilizers and Related Chemicals: 2004  
 [Quantity in short tons. Value in thousands of dollars]

Product code		Total production	Total shipments including interplant transfers			Stocks 1/
			Quantity	Value		
3251881100	Sulfuric acid (100 percent): 5/					
	Total gross.....	a/ 10,440,434	b/ 3,296,470	b/ 171,333	a/ 477,475	
	By feedstock:					
3251881111	Elemental sulfur.....	8,739,042	b/ 1,942,665	b/ 100,418		(X)
3251881121	Smelting metallic sulfide ore.....	662,001	625,754	a/ 19,740		(X)
3251881131	Decomposition of alkylation and other spent acid.....	a/ 834,599	a/ 533,299	b/ 41,186		(D)
3251881141	Other.....	a/ 204,792	b/ 194,752	b/ 9,989		(X)
	By grade:					
3251881212	Oleum grades.....	b/ 414,667	b/ 293,688	b/ 14,161	b/ 29,793	
3251881231	Other than oleum grades.....	10,025,767	b/ 3,002,782	b/ 157,172	a/ 447,682	
3251881311	Spent acid fortified in contact units and included in above production data.....	(D)	(X)	(X)		(D)
	Total new acid 8/.....	9,605,835	(X)	(X)		(X)
<b>SECOND QUARTER</b>						
	Ammonia:					
3253111120	Synthetic, anhydrous (100 percent).....	b/ 2,903,026	b/ 1,121,180	c/ 252,065	b/ 305,109	
3253111121	Fertilizer use.....	b/ 2,740,731	(D)	(D)		(D)
3253111131	Other uses.....	a/ 162,295	(D)	(D)		(D)
	Ammonium nitrate (100 percent):					
3253111201	Original melt liquor 2/.....	a/ 1,662,828	b/ 1,089,387	b/ 186,781	c/ 88,447	
3253111211	Consumed in the manufacture of other nitrogen solutions (e.g., CAN17, AN20, AAN).....	36,970	(X)	(X)		(D)
3253111216	Liquor consumed in the manufacture of urea-ammonium nitrate solutions.....	a/ 827,584	(X)	(X)	c/ 36,118	
3253111221	High density prill and granular.....	a/ 284,564	a/ 342,643	56,811		11,952
3253111226	Low density prill and grained.....	b/ 411,311	b/ 406,022	b/ 73,230		(D)
3253111231	All other (e.g., liquor sales, etc.).....	b/ 102,399	b/ 103,628	b/ 15,970	a/ 5,560	
3253111240	Ammonium sulfate (100 percent).....	760,998	b/ 781,241	b/ 98,766		110,650
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).....	832,397	861,538	156,437		114,218
3253111251	Ammonium nitrate/urea solutions.....	a/ 801,250	a/ 840,631	b/ 152,986	b/ 109,360	
3253111256	All other solutions 4/.....	b/ 31,147	a/ 20,907	a/ 3,451		4,858
3253111111	Nitric acid (100 percent) 5/.....	b/ 1,742,170	c/ 456,238	c/ 52,686		(X)
3253114101	Urea original melt liquor.....	a/ 1,522,661	a/ 1,003,763	c/ 210,761	a/ 101,281	
3253114111	Consumed in the manufacture of urea-ammonium nitrate solutions.....	a/ 614,058	(D)	(D)		(D)
3253114121	Prills.....	(D)	a/ 211,171	a/ 44,518		45,233
3253114131	Granular.....	a/ 659,641	a/ 692,844	c/ 129,246	b/ 47,720	
3253114141	All other (liquor sales, melamine, feedstock, and other).....	(D)	(D)	(D)		(D)
3253121100	Phosphoric acid (100 percent P2O5).....	3,127,462	1,113,686	294,158		173,668
	By use:					
3253121211	Fertilizer.....	2,861,612	a/ 947,889	a/ 218,541		164,315
3253121222	Feed and other 6/.....	265,850	165,797	75,617		9,353
	By grade:					
3253121311	Ortho (less than 65 percent P2O5).....	2,788,934	a/ 799,916	a/ 196,264		152,565
3253121322	Super (more than 65 percent P2O5) 6/.....	338,528	313,770	97,894		21,103
3253124100	Superphosphate and other phosphatic fertilizer materials:					
	Gross weight.....	4,622,372	4,606,561	846,794		501,606

Table 2b. Production, Shipments, Consumption, and Stocks of Fertilizers and Related Chemicals: 2004  
 [Quantity in short tons. Value in thousands of dollars]

Product code	Total production	Total shipments including interplant transfers			Stocks 1/
		Quantity	Value		
	Nitrogen content.....	686,975	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5).....	2,201,010	2,192,517	(X)	(X)
3253124131	Monoammonium phosphates:				
	Gross weight.....	1,423,350	1,435,406	a/ 265,431	145,005
	Nitrogen content.....	161,948	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5).....	731,458	731,423	(X)	(X)
3253124211	Diammonium phosphates:				
	Gross weight.....	2,837,126	2,814,803	520,594	a/ 279,711
	Nitrogen content.....	507,303	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5).....	1,310,264	1,306,621	(X)	(X)
3253124222	Normal, enriched, concentrated, and other ammonium phosphates and other phosphatic fertilizer materials: 7/				
	Gross weight.....	a/ 361,896	c/ 356,352	c/ 60,769	76,890
	Nitrogen content.....	(X)	(X)	(X)	(X)
	Phosphoric oxide content (100 percent P2O5).....	c/ 159,288	c/ 154,473	(X)	(X)
3251881100	Sulfuric acid (100 percent): 5/				
	Total gross.....	a/ 10,423,699	b/ 3,172,493	b/ 159,295	a/ 438,452
	By feedstock:				
3251881111	Elemental sulfur.....	a/ 8,815,246	b/ 1,828,961	b/ 95,643	(X)
3251881121	Smelting metallic sulfide ore.....	630,992	636,954	a/ 17,060	(X)
3251881131	Decomposition of alkylation and other spent acid.....	a/ 777,698	b/ 519,144	b/ 37,302	(D)
3251881141	Other.....	a/ 199,763	b/ 187,434	b/ 9,290	(X)
	By grade:				
3251881212	Oleum grades.....	b/ 408,696	b/ 272,339	b/ 13,190	b/ 28,364
3251881231	Other than oleum grades.....	10,015,003	b/ 2,900,154	b/ 146,105	a/ 410,088
3251881311	Spent acid fortified in contact units and included in above production data.....	(D)	(X)	(X)	(D)
	Total new acid 8/.....	9,646,001	(X)	(X)	(X)
<b>FIRST QUARTER</b>					
Ammonia:					
3253111120	Synthetic, anhydrous (100 percent).....	b/ 3,150,163	b/ 1,113,308	b/ 263,600	b/ 380,784
3253111121	Fertilizer use.....	b/ 2,945,867	(D)	(D)	(D)
3253111131	Other uses.....	a/ 204,296	(D)	(D)	(D)
Ammonium nitrate (100 percent):					
3253111201	Original melt liquor 2/.....	a/ 1,767,721	b/ 1,088,505	b/ 181,865	b/ 206,189
3253111211	Consumed in the manufacture of other nitrogen solutions (e.g., CAN17, AN20, AAN).....	32,468	(X)	(X)	(D)
3253111216	Liquor consumed in the manufacture of urea-ammonium nitrate solutions.....	a/ 792,108	(X)	(X)	(D)
3253111221	High density prill and granular.....	a/ 454,389	a/ 406,652	a/ 65,133	82,716
3253111226	Low density prill and grained.....	b/ 388,580	b/ 403,500	b/ 73,937	c/ 37,769
3253111231	All other (e.g., liquor sales, etc.).....	b/ 100,176	b/ 105,032	b/ 15,323	a/ 12,225
3253111240	Ammonium sulfate (100 percent).....	798,576	a/ 748,360	b/ 95,670	141,249
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: 2004  
 [Quantity in short tons. Value in thousands of dollars]

Product code		Total production	Total shipments including interplant transfers			Stocks 1/
			Quantity	Value		
3253111250	Nitrogen solutions, including mixtures (100 percent N).....	802,502	652,173	115,053	205,129	
3253111251	Ammonium nitrate/urea solutions.....	a/ 767,850	a/ 626,400	c/ 110,354	a/ 198,695	
3253111256	All other solutions 4/.....	b/ 34,652	a/ 25,773	b/ 4,699	6,434	
3253111111	Nitric acid (100 percent) 5/.....	b/ 1,851,914	c/ 472,368	b/ 59,826		(X)
3253114101	Urea original melt liquor.....	a/ 1,517,773	a/ 1,063,625	c/ 221,851	b/ 117,468	
3253114111	Consumed in the manufacture of urea-ammonium nitrate solutions.....	a/ 597,790	(D)	(D)	(D)	
3253114121	Prills.....	a/ 175,872	a/ 180,404	a/ 40,425	b/ 42,032	
3253114131	Granular.....	a/ 692,935	(D)	(D)	b/ 60,984	
3253114141	All other (liquor sales, melamine, feedstock, and other).....	51,176	55,022	20,894	(D)	
3253121100	Phosphoric acid (100 percent P2O5).....	3,196,219	1,096,512	296,668	173,006	
	By use:					
3253121211	Fertilizer.....	2,979,744	a/ 964,745	b/ 232,516	164,979	
3253121222	Feed and other 6/.....	216,475	131,767	64,152	8,027	
	By grade:					
3253121311	Ortho (less than 65 percent P2O5).....	2,862,980	a/ 785,224	b/ 200,799	146,621	
3253121322	Super (more than 65 percent P2O5) 6/.....	333,239	311,288	95,869	26,385	
3253124100	Superphosphate and other phosphatic fertilizer materials:					
	Gross weight.....	4,790,899	4,674,157	837,613	504,921	
	Nitrogen content.....	701,951	(X)	(X)	(X)	
	Phosphoric oxide content (100 percent P2O5).....	2,275,472	2,238,033	(X)	(X)	
3253124131	Monoammonium phosphates:					
	Gross weight.....	1,586,059	1,492,722	a/ 274,391	150,479	
	Nitrogen content.....	181,281	(X)	(X)	(X)	
	Phosphoric oxide content (100 percent P2O5).....	808,573	766,340	(X)	(X)	
3253124211	Diammonium phosphates:					
	Gross weight.....	2,733,790	2,668,215	a/ 474,370	a/ 273,551	
	Nitrogen content.....	490,846	(X)	(X)	(X)	
	Phosphoric oxide content (100 percent P2O5).....	1,261,907	1,250,049	(X)	(X)	
3253124222	Normal, enriched, concentrated, and other ammonium phosphates and other phosphatic fertilizer materials: 7/					
	Gross weight.....	a/ 471,050	b/ 513,220	b/ 88,852	80,891	
	Nitrogen content.....	(X)	(X)	(X)	(X)	
	Phosphoric oxide content (100 percent P2O5).....	b/ 204,992	b/ 221,644	(X)	(X)	
3251881100	Sulfuric acid (100 percent): 5/					
	Total gross.....	a/ 10,365,407	b/ 2,992,642	b/ 150,876	a/ 415,459	
	By feedstock:					
3251881111	Elemental sulfur.....	a/ 8,929,825	b/ 1,834,756	b/ 94,514	(X)	
3251881121	Smelting metallic sulfide ore.....	545,492	520,878	a/ 14,769	(X)	
3251881131	Decomposition of alkylation and other spent acid.....	a/ 695,779	b/ 452,102	b/ 32,601	(D)	
3251881141	Other.....	a/ 194,311	b/ 184,906	b/ 8,992	(X)	

Table 2b. Production, Shipments, Consumption, and Stocks of Fertilizers and Related Chemicals: 2004  
 [Quantity in short tons. Value in thousands of dollars]

Product code		Total production	Total shipments including interplant transfers		Stocks 1/
			Quantity	Value	
	By grade:				
3251881212	Oleum grades.....	b/ 453,412	b/ 299,594	b/ 14,297	b/ 26,668
3251881231	Other than oleum grades.....	9,911,995	b/ 2,693,048	b/ 136,579	a/ 388,791
3251881311	Spent acid fortified in contact units and included in above production data.....	(D)	(X)	(X)	(D)
	Total new acid 8/.....	9,669,628	(X)	(X)	(X)

D Withheld to avoid disclosing data for individual companies. N Nitrogen content. P2O5 Phosphoric oxide content. S Does not meet publication standards. 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: 2005 and 2004  
 [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
<b>2005</b>							
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.....	11,439.2	492.5	4.3	88.1	11,034.8	0.8
3253124211	Diammonium phosphates.....	10,267.5	5,685.5	55.4	11.5	4,593.6	0.3
3251881100	Sulfuric acid, gross.....	37,154.9	318.3	0.9	2,703.2	39,539.8	6.8
<b>2004</b>							
3253111120	Ammonia, synthetic anhydrous.....	10,938.9	463.3	4.2	7,177.9	17,653.5	40.7
3253111201	Ammonium nitrate, original solution.....	6,558.5	110.0	1.7	1,056.0	7,504.5	14.1
3253111250	Nitrogen solutions, ammonium nitrate/ urea solutions.....	2,937.6	33.3	1.1	2,011.8	4,916.1	40.9
3253111240	Ammonium sulfate.....	2,726.1	717.6	26.3	325.8	2,334.3	14.0
3253114100	Urea.....	5,755.4	704.2	12.2	4,934.7	9,985.9	49.4
3253121100	Phosphoric acid.....	11,514.8	298.8	2.6	108.3	11,324.2	1.0
3253124211	Diammonium phosphates.....	10,088.7	5,040.9	50.0	60.6	5,108.5	1.2
3251881100	Sulfuric acid, gross.....	38,042.7	204.6	0.5	2,400.5	40,238.6	6.0

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: 2005

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 2809.20.0020 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: 2005 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 (2005).

# Appendix.

## General CIR Survey Information, Explanation of General Terms and Historical Note

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### 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.)

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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.

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**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.