Inorganic Fertilizer Materials and Related Products: 2001

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 2001 totaled 40,793,499 thousand

short tons (100 percent H2SO4), 6.5 percent below the 2000 figure of 43,642,859 thousand short tons.

Production of synthetic ammonia, nitric acid, and ammonium compounds decreased 17.2 percent to 32,132,946 thousand short tons in 2001, from 38,806,921 thousand short tons in 2000. Phosphoric acid production decreased 7.4 percent to 11,566,034 thousand short tons in 2001, from 12,492,002 thousand short tons in 2000.

Production of superphosphate and other phosphatic fertilizer materials for 2001 decreased 8.9 percent to 8,109,404 thousand short tons (100 percent P2O5), from 8,898,997 thousand short tons (100 percent P2O5) in 2000.

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 Walter Hunter, Jr., 301-457-4798.

For mail or fax copies of this publication, please contact the Information Services Center, MCD, Washington, DC 20233-6900, or call 301-457-4673.

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Table 1. Shipments and Production of Principal Fertilizer Materials: 1997 to 2001 [Quantity in thousands of short tons. Value in millions of dollars]

Total shipments, including interplant transfers

	Product description					•		
Product	·			Total				Value
code		Year		production		Quantity		(f.o.b. plant)
3253111120	Ammonia, synthetic anhydrous 1/	2001		12,538		4,953		884
		2000	r/	15,809	r/	6,337		915
		1999		17,337		(X)		(X)
		1998		18,475		8,303		1,214
		1997		17,891		8,589		1,578
3253111201	Ammonium nitrate, original melt liquor 2/	2001	,	6,920	,	3,518	,	526
		2000	r/	7,979	r/	4,146	r/	541
		1999		7,630		(X)		(X)
		1998		9,079		(X)		(X)
		1997		8,604		(X)		(X)
3253111240	Ammonium sulfate 1/	2001		2,556		2,164		151
		2000		2,808		2,082		103
		1999		2,875		(X)		(X)
		1998		2,787		2,861		181
		1997		2,711		2,544		181
3253114000	Urea (100 percent)	2001		6,833		4,426		705
		2000		7,682	r/	4,682	r/	646
		1999		8,907		(X)		(X)
		1998		8,865		5,586		667
		1997		8,190		5,342		772
3253111111	Nitric acid (100 percent)	2001		7,074		1,868		196
		2000		8,708	r/	2,344	r/	280
		1999		8,945		(X)		(X)
		1998		9,285		1,506		160
		1997		9,433		1,805		216
3253121000	Phosphoric acid (100 percent P2O5)	2001		11,566		3,142	,	814
		2000		12,492		3,952	r/	1,126
		1999		13,708		4,415		(X)
		1998		13,891		4,649		1,515
		1997		13,159		4,587		1,405
3251881000	Sulfuric acid, gross (100 percent)	2001		40,793		11,610		566
		2000		43,643	r/	11,930		572
		1999		44,756		(X)		(X)
		1998		48,513		13,043		683
		1997		47,929		12,962		576
3253124000	Superphosphates and other fertilizer	0001						
	materials (100 percent P2O5)	2001		8,109		7,921		2,045
		2000		8,899		8,822		2,649
		1999		9,133		9,769		(X)
		1998		10,259		10,293		3,046
		1997		10,473		10,380		3,692

r/Revised by 5 percent or more from previously published data. X Not applicable.

^{1/}Excludes data for byproduct ammonia liquor and ammonium sulfate published by the Department of Energy.

 $^{2/}Represents \ total \ amount \ of \ original \ melt \ liquor \ produced \ for \ all \ purposes.$

2001 2000

	Chemical and basis			Total ship	ling			Total shipme	\$	
Product code			Total production	interplant Quantity	Value	Stocks 1/	Total production	interplant tra	Value	Stocks 1/
3253111120	Ammonia: Synthetic, anhydrous (100 percent) Fourth quarter Third quarter Second quarter First quarter	a/ b/ b/r/	12,537,664 3,856,415 b/r/ 2,864,428 b/r/ 2,857,364 b/r/ 2,959,457 b/r/	4,953,080 1,733,719 b/r/ 1,018,475 b/r/ 1,137,786 b/r/ 1,063,100 b/r/		(X) r/ 351,004 b/r/ 342,249 b/r/ 339,035 b/r/ 360,107 b/r/	3,599,053 b/ 3,489,910 b/r/ 4,154,337 b/r/		914,869 202,605 a/r/ 208,527 a/r/ 260,627 a/r/ 243,110 a/r/	(X) 311,844 377,142 326,067 362,386
3253111121	Fertilizer use	b/ b/ b/	11,292,354 3,426,819 b/r/ 2,588,821 b/r/ 2,607,739 b/r/ 2,668,975 b/r/	4,399,693 1,484,276 b/r/ 912,174 b/r/ 1,065,389 b/r/ 937,854 b/r/	156,003 a/ 215,316 a/r/	(X) r/ 337,068 b/r/ 327,428 b/r/ 319,723 b/r/ 330,651 b/r/	3,083,667 b/ 2,969,990 b/r/ 3,660,252 b/r/		750,262 158,417 a/r/ 166,624 a/r/ 220,439 a/r/ 204,782 a/r/	(X) 280,385 354,848 307,305 346,148
3253111131	Other uses. Fourth quarter Third quarter. Second quarter. First quarter.	a/ b/r/ b/r/	1,245,310 429,596 a/r/ 275,607 b/r/ 249,625 290,482 b/r/	553,387 249,443 b/r/ 106,301 b/r/ (S) 125,246	88,212 36,414 b/r/	(X) 13,936 b/ 14,821 b/ 19,312 b/ 29,456 b/	2,028,531 515,386 519,920 b/ 494,085 b/ 499,140 b/	1,157,587 (S) 278,899 298,628 b/ 288,282 b/	164,607 (S) a/ (S) b/ 40,188 38,328	(X) 31,459 22,294 (S) (S)
3253111201	Ammonium nitrate (100 percent): Original melt liquor 2/ Fourth quarter Third quarter Second quarter First quarter	b/ b/	6,920,447 1,853,671 b/ 1,558,663 b/ 1,649,222 b/r/ 1,858,891 b/	3,517,771 943,179 b/ 809,551 b/ 882,159 b/ 882,882 b/	526,219 133,043 a/r/ 122,991 a/r/ 135,171 r/ 135,014 a/r/	(X) r/ 134,572 b/r/ 190,503 b/r/ 180,584 b/r/ 97,355 b/r/	7,979,366 r/ 2,063,330 b/ 1,773,393 b/r/ 1,927,853 b/r/ 2,214,790 b/r/		540,544 132,676 a/r/ 113,947 a/r/ 140,102 b/ 153,819 b/	(X) 132,218 190,503 123,554 146,050
3253111211	Consumed in the manufacture of other nitrogen solutions (e.g., CAN17, AN20, AAN)	r/ r/	110,692 34,552 21,953 28,360	(X) (X) (X) (X)	(X) (X) (X) (X)	(X) r/ (D) r/ (D) a/r/ (D) a/r/	128,561 34,475 28,370 35,056	(X) (X) (X) (X)	(X) (X) (X) (X)	(X) (D) (D) (D)
3253111216	First quarter	b/r/ b/r/	25,827 3,062,240 796,992 675,535 756,862	(X) (X) (X) (X)	(X) (X) (X) (X)	(D) (X) r/ (D) a/r/ (D) a/r/	(S) 3,415,027 980,444 802,313	(X) (X) (X) (X)	(X) (X) (X) r/ (X)	(D) (X) 20,542 (D) 15,406
3253111221	Second quarter First quarter High density prill and granular Fourth quarter Third quarter Second quarter	b/r/ a/r/ a/r/	756,862 832,851 1,929,977 541,174 a/ 361,405 a/ 438,308 a/	(X) (X) 1,803,114 490,940 a/ 354,476 b/ 478,531 a/	(X) (X) 260,639 63,030 49,897 73,332 r/	(D) a/r/ 20,532 b/r/ (X) r/ 40,211 a/r/ 73,121 b/r/ 71,327 b/r/	883,134 749,136 2,327,996 r/ 530,992 b/r/ 417,855 b/r/ 488,807 b/r/	(X) (X) 2,245,152 r/ 513,180 b/r/ 376,696 b/r/ 660,605 b/r/	(X) a/ (X) 283,323 67,660 r/ 48,011 r/ 80,423 a/	15,406 (S) (X) 56,739 73,121 67,671
3253111226	First quarter Low density prill and grained Fourth quarter Third quarter Second quarter	a/r/ b/r/ b/r/ b/r/	589,090 a/ 1,379,632 388,061 b/r/ 362,896 b/r/ 320,710 b/r/	479,167 b/ 1,371,345 372,518 b/ 360,854 b/ 320,967 b/	74,380 r/ 219,138 58,612 b/r/ 60,093 b/r/ 50,621 b/r/	34,952 b/ (X) 28,694 b/ 36,273 26,073	890,342 b/r/ 1,573,210 387,213 b/ (S) (S)	694,671 1,516,468 378,628 (S) (S)	(S) b/ 213,863 (S) b/ (S) b/r/ (S) b/	90,589 (X) 28,291 36,273 20,328
3253111231	First quarter. All other (e.g., liquor sales, etc.) Fourth quarter. Third quarter. Second quarter. First quarter	b/r/ b/r/ b/r/	307,965 b/r/ 437,906 92,892 b/r/ 136,874 b/r/ 104,982 b/r/ 103,158 b/r/	317,006 343,312 79,721 b/r/ 94,221 b/r/ 82,661 b/r/ 86,709 b/r/	13,001 a/ 11,218 b/	23,564 (X) r/ 19,818 b/r/ 20,645 b/r/ 13,603 b/r/ 10,499 b/r/	(S) 534,572 130,206 b/ 121,716 b/ 144,319 b/ 138,331 b/	(S) 384,345 87,470 93,617 103,030 b/ 100,228 b/	(S) b/ 43,358 (S) b/ (S) a/r/ 11,243 b/ 12,109	19,329 (X) 20,404 20,645 15,123 (D)
3253111240	Ammonium sulfate (100 percent)		2,555,922 698,336 593,111 647,279 617,196	2,163,519 (D) 509,362 628,211 (D)	150,865 (D) 38,834 42,939 (D)	(X) 163,241 112,425 56,155 93,116	2,807,595 672,257 692,328 712,598 730,412	2,081,848 (D) (D) (D) (D)	102,903 (D) (D) (D) (D)	(X) 130,768 104,325 103,894 106,079
3253111241	Synthetic (direct synthesis from sulfuric acid and ammonia) Fourth quarter Third quarter Second quarter		(D) (D) (D) (D)	(D) (D) (D) (D)	(D) (D) (D) (D)	(X) (D) (D) (D)	(D) (D) (D) (D)	(D) (D) (D) (D)	(D) (D) (D) (D)	(X) (D) (D) (D)
3253111246	First quarter. Byproduct 3/. Fourth quarter. Third quarter. Second quarter. First quarter.		(D) (D) (D) (D) (D)	(D) (D) (D) (D) (D)	(D) (D) (D) (D) (D) (D)	(D) (X) (D) (D) (D) (D)	(D) (D) (D) (D) (D) (D)	(D) (D) (D) (D) (D) (D)	(D) (D) (D) (D) (D)	(D) (X) (D) (D) (D) (D)
3253111250	Nitrogen solutions, including mixtures (100 percent N). Fourth quarter. Third quarter. Second quarter. First quarter.		3,045,024 743,555 r/ 684,100 r/ 775,202 r/ 842,167 r/	2,976,739 685,598 r/ 713,941 r/ 861,820 r/ 715,380 r/	97,127	(X) r/ 199,968 r/ 158,059 r/ 255,262 r/ 223,483 r/	3,502,747 r/ 928,820 r/ 778,426 r/ 906,069 r/ 889,432 r/	3,047,373 r/ 781,603 r/ 613,493 r/ 909,453 r/ 742,824 r/	645,054 168,222 r/ 142,115 r/ 182,607 r/ 152,110	(X) 124,362 99,887 115,526 243,766
3253111251	Ammonium nitrate/urea solutions Fourth quarter Third quarter Second quarter First quarter	b/ b/ b/	2,961,563 721,016 b/ 667,728 a/ 755,731 b/ 817,088 b/r/	2,895,811 667,855 a/r/ 699,141 a/r/ 839,736 a/r/ 689,079 a/r/	94,931 149,268	(X) (D) b/ 154,591 b/ 252,924 b/ (D) b/	3,432,527 r/ 905,329 b/r/ 764,428 b/r/ 891,542 b/r/ 871,228 b/r/	2,943,047 r/ 760,674 b/r/ 598,029 b/r/ 894,266 b/r/ 690,078 b/r/	634,035 165,878 a/r/ 140,881 180,887 146,389 b/	(X) 116,403 91,316 106,510 234,208
3253111256	All other solutions 4/	a/r/ b/r/ b/r/	83,461 22,539 a/ 16,372 b/ 19,471 b/ 25,079 b/	80,978 a/r/ 80,928 17,743 a/r/ 14,800 b/r/ 22,084 b/r/ 26,301 b/r/	12,367 2,407 2,196 r/ 3,578	(X) r/ (D) a/r/ 3,468 a/r/ 2,338 a/r/ (D) b/r/	70,220 r/ 23,491 a/r/ 13,998 a/r/ 14,527 a/r/ 18,204	104,326 r/ 20,929 a/r/ 15,464 a/r/ 15,187 a/r/ (S)	11,019 2,344 1,234 1,720 (S)	(X) (D) (D) (D) (D) (D)
3253111111	Nitric acid (100 percent) 5/ Fourth quarter Third quarter Second quarter First quarter	b/r/ b/r/	7,073,889 1,871,004 b/r/ 1,572,368 1,659,945 b/r/ 1,970,572	1,867,792 479,254 b/r/ (S) b/r/ 430,401 b/r/ (S) b/r/	34,364	(X) (X) b/ (X) b/ (X) b/ (X) b/	8,707,910 r/ 2,268,001 b/r/ 1,981,897 2,171,620 2,286,392	2,343,833 r/ 551,599 (S) (S) b/r/ (S)	279,752 (S) (S) 64,014 (S)	(X) (X) (X) (X) (X)
3253114000	Urea original melt liquor	a/ a/ a/	6,832,704 2,042,703 a/r/ 1,514,879 a/r/ 1,568,958 a/r/ 1,706,164 a/r/	4,425,790 1,369,492 a/ 966,275 a/r/ 1,064,256 a/r/ 1,025,767 a/r/		(X) 281,807 a/ 194,949 a/ 215,372 a/ 179,350 a/	7,681,640 r/ 1,941,520 a/r/ 1,670,852 a/r/ 1,819,903 a/r/ 2,249,365 a/r/	901,953 a/r/ 1,084,263 a/r/	645,597 162,588 b/ 128,533 b/ 143,696 b/ 210,780 a/	(X) 120,358 144,274 87,149 167,539

Continued 1

2001 2000 Total shipments, including interplant transfers Total shipments, including interplant transfers Chemical and basis Total production Product code Total production Quantity Quantity Stocks 1/ Value Value Stocks 1/ 3253114011 Consumed in the manufacture of urea-9 494 441 976 019 70.012 2 700 606 32 32 32 32 32

3253114011 3253114021 3253114031	Consumed in the manufacture of urea- ammonium nitrate solutions. Fourth quarter. Third quarter. First quarter. First quarter. Fourth quarter. Third quarter. Second quarter. First quarter. Fourth quarter. Fourth quarter. Fourth quarter. First quarter. Second quarter. Fourth quarter. Fourth quarter. Fourth quarter. Second quarter. Second quarter.	b/r/ b/r/ b/r/ a/ a/ a/r/ a/r/ a/r/	2,424,441 643,901 539,300 591,356 649,884 1,615,486 414,786 386,639 341,196 2,524,830 854,359 479,155 529,044 662,272	b/r/ b/ b/ b/ a/r/ a/r/ a/r/	276,012 (D) 57,158 (D) (D) 1,397,435 369,525 380,980 347,367 299,563 2,495,255 842,346 449,267 581,421 622,221	b/ b/ b/	70,013 (D) 12,118 (D) (D) 197,221 48,082 47,004 52,780 49,355 381,687 127,359 67,833 87,851 98,644	b/ b/ b/	(D) a (D) a (D) a	r/ a/r/ a/r/ a/r/ a/r/ a/r/ a/r/ a/r/ a	2,700,606 734,536 591,571 718,257 656,242 1,636,302 354,345 439,959 366,312 475,686 3,173,804 819,943 582,044 713,549 1,058,268	a/r/ a/r/	(D) (D) (D) (D) (D) 1,128,205 210,847 286,755 265,278 365,325 3,167,667 829,720 529,367 719,015 1,089,565	a/r/ a/r/ a/r/ a/ r/ a/r/ a/r/ a/r/	(D) (D) (D) (D) (D) 156,786 31,521 38,715 35,369 51,181 412,269 109,734 70,344 90,730 141,461	b/ b/ a/ a/ a/ a/	(X) (D) (D) (D) (X) (D) 109,903 (D) 100,951 (X) 18,706 25,032 18,100 45,884
3253114041	All other (liquor sales, melamine, feedstock, other). Fourth quarter		267,947 71,578 81,638 61,919 52,812		257,088 (D) 78,870 (D) (D)		56,530 (D) 15,505 (D) (D)		(X) (D) (D) (D) (D)	b /	170,928 32,696 57,278 21,785 59,169		(D) (D) (D) (D) (D)		(D) (D) (D) (D) (D)		(X) (D) (D) (D) (D)
3253121000	Phosphoric acid (100 percent P205)		11,566,034 3,336,659 2,789,167 2,645,934 2,794,274	r/ r/	3,142,382 999,024 755,630 660,987 726,741		814,254 200,504 135,546 228,917 249,287		(X) 166,024 166,410 163,307 176,073	r/ r/	12,492,002 3,037,814 3,072,511 3,156,497 3,225,180	r/ r/ r/	3,952,015 1,005,606 894,378 1,017,788 1,034,243	r/ r/ r/ r/	1,126,144 289,976 264,283 286,981 284,904		(X) 189,196 175,006 199,651 201,406
3253121111 3253121121	Thermal. Fourth quarter. Third quarter. Second quarter. First quarter. Wet.	a/ a/	156,206 30,438 35,733 37,792 52,243 11,409,828	a/ a/ a/ a/	132,091 29,504 31,266 31,883 39,438 3,010,291	a/ a/ a/ a/	76,086 21,485 23,014 23,119 27,852 718,784		4,641 5,347	r/ a/r/ a/ a/ a/r/ r/	267,709 51,089 64,843 77,600 74,177 12,224,293	a/ a/ a/ a/ r/	187,916 39,637 45,270 53,800 49,209 3,764,099	a/r/ a/r/ a/r/ a/r/	80,456 25,656 27,566 32,163 24,277 1,016,482		(X) 5,157 6,344 6,795 6,002 (X)
	Fourth quarter		3,306,221 2,753,434 2,608,142 2,742,031	r/ r/	969,520 724,364 629,104 687,303	b /	179,019 112,532 205,798 221,435		159,305 161,769 157,960 169,917	r/ r/ r/	2,986,725 3,007,668 3,078,897 3,151,003	r/ r/ r/ r/	965,969 849,108 963,988 985,034	r/ r/ r/	264,320 236,717 254,818 260,627		184,039 168,662 192,856 195,404
3253121211	Fertilizer. Fourth quarter		10,742,771 3,129,076 2,590,063 2,444,035 2,579,597		(D) (D) (D) (D)		(D) (D) (D) (D)		(X) (D) (D) (D)	r/ r/ r/ r/	11,479,416 2,803,212 2,833,982 2,890,351 2,951,871		(D) (D) (D) (D)		(D) (D) (D) (D)		(X) (D) (D) (D)
3253121221	Feed and other		667,057 177,145 163,371 164,107 162,434		(D) (D) (D) (D) (D)		(D) (D) (D) (D) (D)		(X) (D) (D) (D) (D)		744,877 183,513 173,686 188,546 199,132		(D) (D) (D) (D) (D)		(D) (D) (D) (D) (D)		(X) (D) (D) (D) (D)
3253121311	Ortho (less than 65 percent P205) Fourth quarter Third quarter Second quarter First quarter		9,903,379 2,821,800 2,438,256 2,256,995 2,386,328		1,686,132 (D) (D) 327,735 369,575		425,960 (D) (D) 106,725 118,449		(X) 135,227 141,218 137,792 151,780	r/ r/ r/	10,712,176 (D) 2,636,678 2,718,010 (D)	г/	2,392,420 (D) (D) (D) (D)	r/	664,065 (D) (D) (D) (D)		(X) 162,361 153,903 171,957 176,164
3253121321	Super (more than 65 percent P205). Fourth quarter Third quarter Second quarter First quarter		1,506,449 484,421 315,178 351,147 355,703		1,324,159 (D) (D) 301,369 317,728	b /	292,824 (D) (D) 99,073 102,986		(X) 24,078 20,551 20,168 18,137		1,512,117 (D) 370,990 360,887 (D)		1,371,679 (D) (D) (D) (D)	r/	352,417 (D) (D) (D) (D)		(X) 21,678 14,759 20,899 19,240
3253124000	Superphosphate and other phosphatic fertilizer materials: Gross weight	r/	17,206,449 5,008,137 4,230,357 3,881,965 4,085,990 606,33 622,077 619,803 8,109,404 2,376,081 1,994,812 1,845,340		14,793,333 4,374,257 3,797,931 3,494,292 3,126,853 (X) (X) (X) (X) (X) (X) 7,920,556 2,210,474 1,793,807 1,857,947 2,058,328		(X) (X) (X) (X) (X) (X) (X) (X)		(X) 476,324 499,804 578,077 726,050 (X)		18,843,099 4,375,974 4,904,311 4,690,095 4,872,719 2,816,548 649,939 706,061 754,437 706,111 8,898,997 2,055,251 2,321,620 2,184,709		15,537,133 3,663,937 3,724,322 3,969,988 4,178,886 (X) (X) (X) (X) (X) (X) (X) (X) (X) (X)		(X) (X) (X) (X) (X) (X) (X) (X)		(X) 676,418 587,831 610,496 1,095,294 (X)
3253124111	Normal and enriched: Gross weight Fourth quarter Third quarter Second quarter First quarter Nitrogen content Fourth quarter Third quarter Second quarter First quarter First quarter First quarter		(D) (D) (D) (D) (D) (X) (X) (X) (X) (X) (X)		(D) (D) (D) (D) (X) (X) (X) (X) (X) (X)		(X) (X) (X) (X) (X) (X) (X) (X) (X) (X)		(X) (D) (D) (D) (D) (X) (X) (X) (X) (X)		(D) (D) (D) (D) (D) (X) (X) (X) (X) (X)		(D) (D) (D) (D) (D) (X) (X) (X) (X) (X)		(X) (X) (X) (X) (X) (X) (X) (X) (X) (X)		(X) (D) (D) (D) (X) (X) (X) (X) (X)
	Phosphoric oxide content (100 percent P205) Fourth quarter Third quarter Second quarter First quarter		(D) (D) (D) (D) (D)		(D) (D) (D) (D) (D)		(D) (D) (D) (D) (D)		(X) (X) (X) (X) (X)		(D) (D) (D) (D) (D)		(D) (D) (D) (D) (D)		(D) (D) (D) (D) (D)		(X) (X) (X) (X) (X)

2001 2000

Total shipments,							Total shipments,								
	Chemical and basis					includi lant tra					i interpl	ncludii ant tra			
Product code			Total production		Quantity		Value	Stocks 1/	Total production		Quantity		Value		Stocks 1/
3253124121	Concentrated: Gross weight		(D)		(D)		(X)	(X)	(D)		(D)		(X)		(X)
	Fourth quarter		(D)		(D)		(X)	(D)	(D)		(D)		(X)		(D)
	Third quarterSecond quarter		(D) (D)		(D) (D)		(X) (X)	(D) (D)	(D) (D)		(D) (D)		(X) (X)		(D) (D)
	First quarter		(D)		(D)		(X)	(D)	(D)		(D)		(X)		(D)
	Nitrogen content Fourth quarter		(X) (X)		(X) (X)		(X) (X)	(X) (X)	(X) (X)		(X) (X)		(X) (X)		(X) (X)
	Third quarter		(X)		(X)		(X)	(X)	(X)		(X)		(X)		(X)
	Second quarter First quarter		(X) (X)		(X) (X)		(X) (X)	(X) (X)	(X) (X)		(X) (X)		(X) (X)		(X) (X)
	Phosphoric oxide content (100 percent P2O5)		(D)		(D)		(D)	(X)	(D)		(D)		(D)		(X)
	Fourth quarter		(D)		(D)		(D)	(X) (X)	(D)		(D)		(D)		(X)
	Third quarterSecond quarter		(D) (D)		(D) (D)		(D) (D)	(X) (X)	(D) (D)		(D) (D)		(D) (D)		(X) (X)
	First quarter		(D)		(D)		(D)	(X)	(D)		(D)		(D)		(X)
3253124131	Monoammonium phosphates: Gross weight		4,324,335		3,910,677		(X)	(X)	4,564,793		3,994,137		(X)		(X)
	Fourth quarter		1,222,534		1,232,614 888,687		(X) (X)	120,652 165,722	1,050,105 1,362,202		909,737		(X) (X)		168,319 156,983
	Third quarterSecond quarter		1,013,443 940,051		985,682		(X) r/		860,053		974,274 1,026,239		(X)		127,036
	First quarter		1,148,307 500,112		803,694 (X)		(X) (X)	247,898 (X)	1,292,433 523,158		1,083,887 (X)		(X) (X)		179,982 (X)
	Fourth quarter	r/	103,112		(X)		(X)	(X)	114,381		(X)		(X)		(X)
	Third quarterSecond quarter	r/ r/	86,352 157,709		(X) (X)		(X) (X)	(X) (X)	126,556 123,880		(X) (X)		(X) (X)		(X) (X)
	First quarter	r/	152,939		(X)		(X)	(X)	158,341		(X)		(X)		(X)
	Phosphoric oxide content (100 percent P2O5)		2,232,618		2,034,362		540,115	(X)	2,351,165		2,336,828		663,824		(X)
	Fourth quarterThird quarter		627,408 523,471		536,738 451,407		135,840 130,034	(X) (X)	540,796 702,644		524,431 696,204		145,673 165,422		(X) (X)
	Second quarter		516,749		540,956		145,457	(X)	440,733		456,152		158,065		(X)
3253124211	First quarter Diammonium phosphates:		564,990		505,261		128,784	(X)	666,992		660,041	a/	194,664		(X)
	Gross weight	- /	11,028,515		9,329,700		(X)	(X)	12,387,212	- /	9,934,881		(X)		(X)
	Fourth quarterThird quarter	a/ a/	3,244,974 2,794,838		2,708,549 2,502,502		(X) (X)	239,377 233,834	2,878,745 3,112,127	a/ a/	2,414,484 2,350,508		(X) (X)		384,571 346,853
	Second quarterFirst quarter		2,485,775 2,502,928	a/	2,134,311 1,984,338		(X) (X)	266,498 324,513	3,365,598 3,030,742	a/	2,541,781 2,628,108		(X) (X)		397,518 759,174
	Nitrogen content		2,015,644		(X)		(X)	(X)	2,247,295		(X)		(X)		(X)
	Fourth quarterThird quarter		590,967 510,277		(X) (X)		(X) (X)	(X) (X)	526,287 569,868		(X) (X)		(X) (X)		(X) (X)
	Second quarter		454,751		(X)		(X)	(X)	617,260		(X)		(X)		(X)
	First quarterPhosphoric oxide content (100 percent		459,649		(X)		(X)	(X)	533,880		(X)		(X)		(X)
	P2O5)Fourth quarter	a/	5,078,207 1,495,896	r/	5,152,538 1,462,286		1,333,249 351,601	(X) (X)	5,762,551 1,327,497	a/	5,734,081 1,320,085	r/	1,775,090 426,023		(X) (X)
	Third quarter	a/	1,288,474		1,145,814		293,782	(X)	1,434,206	a/	1,454,757		459,957		(X)
	Second quarterFirst quarter		1,145,792 1,148,045		1,143,112 1,401,326		339,124 348,742	(X) (X)	1,551,766 1,449,082	a/	1,518,474 1,440,765	a/ a/	462,335 426,775		(X) (X)
3253124222	Other ammonium phosphates and other phosphatic fertilizer materials:														
	Gross weight		581,651		326,770		(X)	(X) r/	517,599	r/	331,723		(X)		(X)
	Fourth quarterThird quarter		238,734 101,026	b/ b/r/	138,408 65,202		(X) (X)	56,964 b/r/ 52,559 b/r/	106,329 106,815	b/r/	(S) 85,397		(X) (X)		(D) (D)
	Second quarter	a/r/	144,600	b/	67,553		(X)	(D) b/r/	150,148		(S)		(X)		(D)
	First quarter Nitrogen content	a/r/	97,291 38,695	b /	55,607 (X)		(X) (X)	57,199 b/r/ (X)	154,307 32,798	b/r/	117,409 (X)		(X) (X)		(D) (X)
	Fourth quarter	r/	28,991 9,704		(X) (X)		(X) (X)	(X) (X)	9,271 9,637		(X) (X)		(X) (X)		(X) (X)
	Third quarter Second quarter		(D)		(X)		(X)	(X)	(D)		(X)		(X)		(X)
	First quarter Phosphoric oxide content (100 percent		(D)		(X)		(X)	(X)	(D)		(X)		(X)		(X)
	P2O5)		211,779		163,903		38,415	(X)	(D)		(D)	r/	53,457		(X)
	Fourth quarterThird quarter	b/r/ b/	105,693 32,981		(D) (D)		(D) (D)	(X) (X)	(D) (D)		(D) (D)		(D) (D)		(X) (X)
	Second quarterFirst quarter	b /	(S) 29,540		(S) (S)	b /	(S) 6,850	(X) (X)	(D) (D)		(D) (D)		(D) (D)		(X) (X)
0054004000	·				.,		.,	. ,					. ,		
3251881000	Sulfuric acid (100 percent): 5/ Total gross		40,793,499		11,610,403		566,131	(X)	43,642,859		11,929,655		572,126		(X)
	Fourth quarterThird quarter	a/ a/	11,196,459 10,051,633		2,802,930 2,981,434		138,480 a/r/ 142,556 b/r/		10,878,442 10,904,341		3,020,930 3,041,206	b/ b/	139,669 146,250	b/ b/	564,830 420,154
	Second quarter	a/	9,731,436	b/r/	2,919,533	b/r/	143,081 b/r	/ 579,510 a/	10,894,367	b/r/	2,970,304	b/	147,211	a/	533,637
	First quarter	a/	9,813,971	b/r/	2,906,506	b/r/	142,014 b/r	/ 567,688 a/	10,965,709	b/r/	2,897,215	b /	138,996	a/r/	634,347
3251881111	By feedstock: Elemental sulfur		33,421,753		6,570,821		332,739	(X)	35,651,192		7,203,739	г/	337,704		(X)
3231331111	Fourth quarter	a/	9,690,204	b/	1,577,175		81,459	(X) a/	8,871,457	b/	1,747,790	b/r/	80,852		(X)
	Third quarterSecond quarter	a/ a/	8,209,913 7,550,909	b/ b/	1,716,021 1,591,270		83,876 79,737	(X) a/ (X)	8,856,937 8,803,678	b/ b/		b/r/ b/r/	82,353 83,414		(X) (X)
3251881121	First quarterSmelting metallic sulfide ore	a/	7,970,727 2,677,699	b/r/	1,686,355 2,499,188	b/r/	87,667 55,591	(X) (X) r/	9,119,120 2,921,330	b/	1,853,293 2,241,604	b/r/ r/	91,085 50,747		(X) (X)
3231001121	Fourth quarter		677,160		(S)		(S)	(X) b/r/	706,348	17	(S)	17	(S)		(X)
	Third quarter Second quarter		600,214 694,186		(S) (S)		(S) (S)	(X) b/r/ (X) b/r/	750,683 743,817	b/r/	(S) 520,551	b/r/	(S) 12,905		(X) (X)
2051001120	First quarter		706,139		(S)		(S)	(X) b/r/	720,482			b/r/	12,831		(X)
3251881130	Decomposition of alkylation and other spent acid		3,922,815		2,012,148		150,692	(X) r/	4,172,942	r/	1,877,100	r/	147,295		(X)
	Fourth quarterThird quarter	a/ a/	633,950 1,047,294	b/r/ b/	447,894 551,192	b/r/ b/	35,349 38,541	(S) a/r/ (S) a/r/	1,067,214 1,070,572			b/r/ b/r/	38,126 42,395		(S) (S)
	Second quarter	a/	1,296,620	b/	560,693	b/	42,880 33,922	(S) a/r/	1,120,864	a/	497,792 336,736	b/	41,309 25,465		(S) (S)
3251881141	First quarter Other	a/	944,951 771,232	b/	452,369 528,246	b/	27,109	(X) r/	914,292 897,395	b/r/ r/	607,212	b/ r/	36,380		(X)
	Fourth quarterThird quarter		195,145 194,212	a/ a/	129,374 147,668	a/ a/	6,606 7,496	(X) b/r/ (X) a/r/	233,423 226,149	a/r/	(S) 142,377	b/r/	(S) 8,304		(X) (X)
	Second quarter	a/r/	189,721	a/	126,714	a/	6,563	(X) a/r/	226,008	a/r/	154,182	b/r/	9,583		(X) (X)
	First quarter	a/f/	192,154	a/	124,490	a/	6,444	(X) a/r/	211,815	D/T/	159,529	D/T/	9,615		(A)

Table 2. Production, Shipments, Consumption, and Stocks of Fertilizer Materials and Other Related Chemicals [Quantity in short tons. Value in thousands of dollars]

2001 2000

		Total shipments, including interplant transfers							Total shipments, including interplant transfers							
Product code		Total production		Quantity		Value		Stocks 1/		Total production		Quantity		Value		Stocks 1/
	By grade:															
3251881212	Oleum grades	1,732,682		1,285,659		65,349		(X)	r/	1,967,543		1,467,677	r/	74,511		(X)
	Fourth quarter b/r/	476,303	b/	325,604	b/	16,509	b/	34,831	b/r/	472,725		(S)		(S)	b/	30,315
	Third quarter b/r/	445,032	b/	332,829	b/	16,841	b/	18,648	b/r/	489,838	b/	359,451	b/r/	18,831	b/	21,098
	Second quarter b/r/	380,499	b/	295,032	b/	15,005	a/	14,340	b/r/	505,846	b/	369,915	b/r/	18,294	b/	17,413
	First quarter b/r/	430,848	b/	332,194	b/	16,994	b/	29,930	b/r/	499,134	b/	378,985	b/r/	18,308	b/	20,197
3251881231	Other than oleum grades	39,060,817		10,324,744		500,782		(X)		41,675,316	r/	10,461,978	r/	497,615		(X)
	Fourth quarter a/	10,720,156	b/r/	2,477,326	b/r/	121,971	a/r/	703,954	a/	10,405,717	b/r/	2,661,604	b/r/	120,591	b/	534,515
	Third quarter a/	9,606,601	b/r/	2,648,605	b/	125,715	b/r/	477,506	a/	10,414,503	b/r/	2,681,755	b/r/	127,419	b/	399,056
	Second quarter a/	9,350,937	b/r/	2,624,501	b/	128,076	b/r/	565,170	a/	10,388,521	b/r/	2,600,389	b/r/	128,917	a/	516,224
	First quarter a/	9,383,123	b/r/	2,574,312	b/	125,020	b/r/	537,758	a/	10,466,575	b/r/	2,518,230	b/r/	120,688	a/r/	614,150
3251881311	Spent acid fortified in contact units and															
	included in above production data	(X)		(X)		(X)		(X)		(X)		(X)		(X)		(X)
	Fourth quarter	(X)		(X)		(X)		(D)		(X)		(X)		(X)		(D)
	Third quarter	(X)		(X)		(X)		(D)		(X)		(X)		(X)		(D)
	Second quarter	(X)		(X)		(X)		(D)		(X)		(X)		(X)		(D)
	First quarter	(X)		(X)		(X)		(D)		(X)		(X)		(X)		(D)
	Total new acid 6/	36,870,684		(X)		(X)		(X)		39,469,917		(X)		(X)		(X)
	Fourth quarter	10,562,509		(X)		(X)		(X)		9,811,228		(X)		(X)		(X)
	Third quarter	9,004,339		(X)		(X)		(X)		9,833,769		(X)		(X)		(X)
	Second quarter	8,434,816		(X)		(X)		(X)		9,773,503		(X)		(X)		(X)
	First quarter	8.869.020		(X)		(X)		(X)		10.051.417		(X)		(X)		(X)

D Withheld to avoid disclosing data for individual companies. N Nitrogen content. P2O5 Phosphoric oxide content. published data. S Does not meet publication standards. X Not applicable. r/Revised by 5 percent or more from previously

^{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/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 Fertilizer Materials: 2001 and 2000 [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 consump- tion
	2001						
3253111120	Ammonia, synthetic anhydrous	11,374.2	(D)	(D)	5,542.8	16,917.0	32.8
3253111201	Ammonium nitrate, original solution	6,278.2	19.3	0.3	952.5	7,211.4	13.2
3253111250	Nitrogen solutions, ammonium nitrate/ urea solutions	2,762.4	33.9	1.2	1,994.7	4,723.2	42.2
3253111240	Ammonium sulfate	2,318.7	668.1	28.8	335.4	1,986.0	16.9
3253114000	Urea	6,198.6	791.7	12.8	4,799.5	10,206.5	47.0
3253121000	Phosphoric acid	10,492.7	(D)	(D)	111.8	(D)	(D)
3253124111	Normal and enriched superphosphate	(D)	(D)	(D)	(D)	(D)	(D)
3253124121	Concentrated superphosphate	(D)	682.9	(D)	(D)	(D)	(D)
3253124211	Diammonium phosphates	10,005.1	6,410.6	64.1	133.5	3,728.0	3.6
3251881000	Sulfuric acid, gross	37,007.9	209.7	0.6	1,414.4	38,212.6	3.7
	2000						
3253111120	Ammonia, synthetic anhydrous r/	14,342.2	(D)	(D)	3,798.0	18,140.2	20.9
3253111201	Ammonium nitrate, original solution r/	7,238.9	21.4	0.3	817.6	8,035.1	10.2
3253111250	Nitrogen solutions, ammonium nitrate/ urea solutions r/	3,177.7	22.8	0.7	1,305.4	4,460.3	29.3
3253111240	Ammonium sulfate	2,547.1	983.0	38.6	347.1	1,911.2	18.2
3253114000	Urea	6,968.8	662.7	9.5	3,903.9	10,210.0	38.2
3253121000	Phosphoric acid	11,332.7	(D)	(D)	69.2	(D)	(D)
3253124111	Normal and enriched superphosphate	(D)	(D)	(D)	(D)	(D)	(D)
3253124121	Concentrated superphosphate	(D)	544.8	(D)	(D)	(D)	(D)
3253124211	Diammonium phosphates	11,237.7	7,619.0	67.8	123.3	3,741.9	3.3
3251881000	Sulfuric acid, gross	39,592.8	190.6	0.5	1,417.0	40,819.2	3.5

D Withheld to avoid disclosing data for individual companies. r/Revised by 5 percent or more from previously published data.

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

^{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.

Table 4. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2001

Product code	Product description	Export code 1/	Import code 2/
3253111120	Anhydrous ammonia, synthetic	2814.10.0000	2814.10.0000
3253111201 3253111240	Ammonium nitrate, original solution Ammonium sulfate	3102.30.0000 3102.21.0000	3102.30.0000 3102.21.0000
3253111251 3253114001	Nitrogen solutions, ammonium nitrate/ urea solutions Urea	3102.80.0000 3102.10.0000	3102.80.0000 3102.10.0000
3253121101	Phosphoric acid	2809.20.0010 2809.20.0020	2809.20.0010 2809.20.0020
		2809.20.0020	2809.20.0020
3253124111 3253124121 3253124211	Normal and enriched superphosphates Concentrated superphosphates Diammonium phosphates	3103.10.0010 3103.10.0020 3105.30.0000	3103.10.0010 3103.10.0020 3105.30.0000
3251881000	Sulfuric acid	2807.00.0000	2807.00.0000

1/Source: 2001 edition, Harmonized System-based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated (2001).

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.