

Inorganic Chemicals: 2006

Issued July 2007

Summary

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Current Industrial Reports

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SUMMARY OF FINDINGS

Chlorine, gas and liquid (NAICS 3251811111, 1121) production was virtually unchanged from the 2005 figure of 21,077.5. Sodium hydroxide (NAICS 3251814111) production decreased 5.3 percent to 8,887.7 thousand short tons in 2006, from 9,388.3 thousand short tons in 2005. Potassium hydroxide

(NAICS 3251817111) production decreased by 1.6 percent to 571.7 thousand short tons in 2006, from 581.2 thousand short tons in 2005. Finished sodium bicarbonate (NAICS 3251817131) production was virtually unchanged from the 2005 figure of 640.6.

Hydrochloric acid (NAICS 3251884125, 4131) production decreased 8.4 percent to 4,665.5 thousand short tons in 2006, from 5,091.1 thousand short tons in 2005. Aluminum sulfate, commercial (NAICS 3251887151) production decreased 5.7 percent to 1,004.9 thousand short tons in 2006, from 1,065.4 thousand short tons in 2005. Sodium sulfate, high purity (NAICS 325188A1A1) production decreased 6.1 percent to 319.8 thousand short tons in 2006, from 340.4 thousand short tons in 2005. Sodium chlorate (NAICS 325188A141) production increased 6.5 percent to 614.7 thousand short tons in 2006, from 577.0 thousand short tons in 2005.

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

Address inquiries concerning these data to Primary Goods Industries Branch, Manufacturing and Construction Division, (MCD), Washington, DC 20233-6900, or call Kevin Brennan, 301-763-4768.
For mail or fax copies of this publication, please contact the Information Services Center, MCD, Washington, DC 20233-6900, or call 301-763-4673.

U S C E N S U S B U R E A U

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Economics and Statistics Administration
U.S. CENSUS BUREAU

Table 1. Summary of Production of Principal Inorganic Chemicals
[Short tons]

Quarter and year	Chlorine gas (100 percent) (3251811111)	Sodium hydroxide, total liquid (100 percent) (3251814111)	Hydro- chloric acid (100 percent) (3251884125, 4131)	Aluminum sulfate commercial (17 percent Al2O3) (3251887151)	Sodium sulfate, high purity (100 percent Na2SO4) (325188A1A1)	Finished sodium bicarbonate (58 percent NaHCO3) (3251817131)	Sodium chlorate (100 percent) (325188A141)
2006							
Total.....	11,390,483	8,887,667	4,665,501	1,004,944	319,769	644,098	614,715
Fourth quarter..... r/	2,765,231	r/ 2,080,574	1,107,504	233,605	74,531	164,251	148,609
Third quarter.....	3,022,594	2,247,970	1,209,017	269,992	87,402	159,186	152,520
Second quarter.....	2,771,455	2,246,727	1,185,864	r/ 268,114	75,452	167,954	155,244
First quarter.....	2,831,203	2,312,396	1,163,116	233,233	82,384	152,707	158,342
2005							
Total.....	11,323,291	9,388,277	5,091,121	1,065,385	r/ 340,398	640,587	577,021
Fourth quarter.....	2,754,431	2,265,533	1,172,106	246,457	r/ 86,209	161,761	147,547
Third quarter.....	2,512,367	2,062,191	1,146,110	299,742	r/ 87,672	165,203	127,889
Second quarter.....	2,880,297	2,422,235	1,323,359	274,403	r/ 78,383	163,730	151,843
First quarter.....	3,176,196	2,638,318	1,449,546	244,783	r/ 88,134	149,893	149,742

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

Table 2. Summary of Primary Production and Shipments of Specified Inorganic Chemicals: 2006 and 2005
[Quantity in short tons unless otherwise noted. Value in thousands of dollars]

		2006				2005			
Product code	Product description	Total production (quantity)	Total shipments, including interplant transfers		Total production (quantity)	Total shipments, including interplant transfers			
			Quantity	Value		Quantity	Value		
Chlorine and alkalis:									
Chlorine (100 percent):									
3251811111	Gas 1/.....	11,390,483	8,653,377	1,806,700	11,323,291	8,383,626	1,656,292		
	Fourth quarter.....	r/ 2,765,231	2,024,287	420,061	2,754,431	2,128,363	456,558		
	Third quarter.....	3,022,594	2,276,277	463,320	a/ 2,512,367	1,888,672	368,078		
	Second quarter.....	2,771,455	2,190,117	455,497	2,880,297	2,097,763	409,514		
	First quarter.....	2,831,203	2,162,696	467,822	3,176,196	2,268,828	422,142		
3251811121	Liquid.....	9,888,800	9,884,438	2,106,378	9,754,232	9,389,306	1,987,006		
	Fourth quarter.....	2,451,918	2,611,778	487,859	2,394,513	2,347,848	530,573		
	Third quarter.....	2,615,019	2,434,251	537,995	2,193,242	2,105,523	434,983		
	Second quarter.....	2,416,943	2,458,477	543,394	2,505,537	2,375,315	494,728		
	First quarter.....	2,404,920	2,379,932	537,130	2,660,940	2,560,620	526,722		
3251814111	Sodium hydroxide.....	8,887,667	(X)	(X)	9,388,277	(X)	(X)		
	Fourth quarter.....	r/ 2,080,574	(X)	(X)	a/ 2,265,533	(X)	(X)		
	Third quarter.....	2,247,970	(X)	(X)	a/ 2,062,191	(X)	(X)		
	Second quarter.....	2,246,727	(X)	(X)	a/ 2,422,235	(X)	(X)		
	First quarter.....	2,312,396	(X)	(X)	a/ 2,638,318	(X)	(X)		
3251817111	Potassium hydroxide (caustic potash) (88 to 92 percent), liquid 2/.....	r/ 571,725	r/ 524,467	r/ 224,076	581,244	r/ 749,369	203,474		
	Fourth quarter.....	r/ 159,363	r/ 143,237	r/ 60,943	(D)	(D)	(D)		
	Third quarter.....	r/ 148,069	r/ 131,617	r/ 58,311	(D)	(D)	(D)		
	Second quarter.....	134,567	124,530	51,356	154,231	222,697	56,768		
	First quarter.....	129,726	125,083	53,466	156,914	200,619	52,407		
3251817131	Finished sodium bicarbonate (58 percent NaHCO3).....	644,098	562,409	144,445	640,587	549,583	142,643		
	Fourth quarter.....	a/ 164,251	c/ 145,075	c/ 37,239	a/ 161,761	c/ 136,522	c/ 35,977		
	Third quarter.....	159,186	c/ 138,708	c/ 35,603	a/ 165,203	c/ 140,128	c/ 36,527		
	Second quarter.....	167,954	c/ 144,794	c/ 37,033	a/ 163,730	c/ 142,767	c/ 36,662		
	First quarter.....	152,707	c/ 133,832	c/ 34,570	a/ 149,893	c/ 130,166	c/ 33,477		
2123913111	Sodium carbonate, natural (soda ash) (58 percent) 3/.....	11,890	(X)	(X)	12,068	(X)	(X)		
	Fourth quarter.....	2,965	(X)	(X)	2,993	(X)	(X)		
	Third quarter.....	2,975	(X)	(X)	3,047	(X)	(X)		
	Second quarter.....	2,975	(X)	(X)	3,077	(X)	(X)		
	First quarter.....	2,975	(X)	(X)	2,951	(X)	(X)		
Chlorine bleaches and other inorganic bleaching compounds:									
325188G1P4	Industrial, liquid and dry.....	520,631	r/ 584,800	446,589	478,397	513,130	367,087		
	Fourth quarter.....	b/r/ 118,464	b/r/ 138,419	b/r/ 103,749	c/ 111,454	c/ 115,991	c/ 80,268		
	Third quarter.....	b/r/ 156,724	b/r/ 170,157	b/r/ 130,602	c/ 144,528	c/ 154,123	c/ 114,127		
	Second quarter.....	b/r/ 135,811	b/r/ 154,466	a/r/ 121,301	c/ 122,436	c/ 133,771	c/ 97,171		
	First quarter.....	b/r/ 109,632	b/r/ 121,758	b/r/ 90,937	c/ 99,979	c/ 109,245	c/ 75,521		
Acids:									
Hydrochloric (100 percent):									
3251884125	From chlorine and hydrogen.....	r/ 304,293	r/ 139,167	r/ 33,131	306,919	150,695	30,208		
	Fourth quarter.....	b/r/ 86,812	a/r/ 36,997	a/r/ 8,464	b/ 67,237	b/ 26,439	b/ 6,157		
	Third quarter.....	b/r/ 80,236	a/r/ 38,319	a/r/ 8,532	b/ 64,113	b/ 25,266	b/ 5,719		
	Second quarter.....	b/ 67,634	b/ 32,070	a/ 8,465	b/ 76,478	a/ 42,087	a/ 8,143		
	First quarter.....	b/ 69,611	b/ 31,781	a/ 7,670	b/ 99,091	a/ 56,903	a/ 10,189		
3251884131	Byproduct and other 4/.....	4,361,208	3,343,695	136,792	4,784,202	3,616,331	141,445		
	Fourth quarter.....	a/r/ 1,020,692	a/ 807,829	a/ 30,759	b/ 1,104,869	a/ 872,028	a/ 35,866		
	Third quarter.....	a/ 1,128,781	a/ 833,572	a/ 29,262	a/ 1,081,997	a/ 821,651	a/ 29,015		
	Second quarter.....	a/ 1,118,230	a/ 850,294	a/ 34,268	a/ 1,246,881	a/ 920,336	a/ 34,240		
	First quarter.....	a/ 1,093,505	a/ 852,000	a/ 42,503	a/ 1,350,455	a/ 1,002,316	a/ 42,324		
3251884141	Hydrocyanic, including anhydrous (100 percent).....	r/ 353,992	r/ 247,376	r/ 233,834	321,561	243,623	216,934		
	Fourth quarter.....	r/ 92,583	r/ 64,839	r/ 59,632	b/ 89,244	c/ 69,603	b/ 60,907		
	Third quarter.....	r/ 91,060	r/ 64,105	r/ 60,526	b/ 76,743	c/ 49,611	b/ 46,930		
	Second quarter.....	86,374	r/ 62,038	r/ 59,655	b/ 74,974	b/ 63,058	b/ 54,871		
	First quarter.....	83,975	56,394	54,021	b/ 80,600	c/ 61,351	b/ 54,226		
Aluminum oxide and aluminum compounds:									
3313110100	Aluminum oxide (except natural alumina) (100 percent Al2O3).....	(D)	(D)	1,550,907	(D)	(D)	1,410,187		
	Fourth quarter.....	(D)	(D)	388,707	(D)	(D)	415,988		
	Third quarter.....	(D)	(D)	386,744	(D)	(D)	344,134		
	Second quarter.....	(D)	(D)	410,627	(D)	(D)	352,413		
	First quarter.....	(D)	(D)	364,829	(D)	(D)	297,652		

Table 2. Summary of Primary Production and Shipments of Specified Inorganic Chemicals: 2006 and 2005
[Quantity in short tons unless otherwise noted. Value in thousands of dollars]

Product code	Product description	2006				2005			
		Total production (quantity)	Total shipments, including interplant transfers		Total production (quantity)	Total shipments, including interplant transfers			
			Quantity	Value		Quantity	Value		
3251887121	Aluminum chloride, anhydrous (100 percent).....	23,541	(D)	(D)	25,997	(D)	(D)		
	Fourth quarter.....	5,938	(D)	(D)	c/ 6,536	(D)	(D)		
	Third quarter.....	5,972	(D)	(D)	c/ 6,175	(D)	(D)		
	Second quarter.....	5,660	(D)	(D)	c/ 6,396	(D)	(D)		
	First quarter.....	5,971	(D)	(D)	c/ 6,890	(D)	(D)		
3251887131	Aluminum hydroxide, trihydrate (100 percent).....	865,119	704,719	271,921	854,836	797,267	233,962		
	Fourth quarter..... b/	200,879	c/ 167,475	b/ 65,085	b/ 208,250	b/ 191,399	b/ 59,259		
	Third quarter..... b/	219,054	c/ 176,438	b/ 68,506	b/ 217,564	b/ 204,907	b/ 60,269		
	Second quarter..... b/	235,606	b/ 183,739	b/ 70,081	b/ 217,154	b/ 207,133	a/ 59,868		
	First quarter..... b/	209,580	b/ 177,067	b/ 68,249	b/ 211,868	b/ 193,828	b/ 54,566		
3251887151	Aluminum sulfate: Commercial (17 percent aluminum oxide) 5/.....	1,004,944	1,025,117	176,898	1,065,385	1,058,984	146,512		
	Fourth quarter..... a/	233,605	a/ 241,594	a/ 41,375	a/ 246,457	a/ 252,666	a/ 41,248		
	Third quarter..... a/	269,992	a/ 278,346	a/ 49,164	a/ 299,742	a/ 297,395	a/ 39,510		
	Second quarter..... a/r/	268,114	a/r/ 270,425	a/r/ 46,353	a/ 274,403	a/ 270,073	a/ 34,783		
	First quarter..... a/	233,233	a/ 234,752	a/ 40,006	a/ 244,783	a/ 238,850	a/ 30,971		
3251887161	Iron-free (17 percent aluminum oxide).....	331,130	r/ 328,002	r/ 34,272	r/ 332,836	334,463	28,704		
	Fourth quarter.....	84,236	r/ 81,572	r/ 8,792	a/r/ 83,820	a/ 84,420	a/ 7,279		
	Third quarter..... r/	84,736	r/ 82,632	r/ 8,994	a/r/ 83,835	a/ 84,338	a/ 7,284		
	Second quarter..... r/	79,988	r/ 80,374	r/ 8,662	a/r/ 82,766	a/ 82,782	a/ 7,025		
	First quarter..... a/	82,170	a/ 83,424	7,824	a/ 82,415	a/ 82,923	a/ 7,116		
3251887171	Aluminates (sodium aluminate, potassium aluminate, etc.) (100 percent).....	357,378	340,753	66,171	351,028	345,334	57,428		
	Fourth quarter.....	90,221	86,195	17,775	r/ 78,140	r/ 75,814	a/r/ 13,012		
	Third quarter.....	85,250	81,651	15,793	88,501	88,068	a/ 14,442		
	Second quarter.....	91,946	87,889	16,831	100,265	98,647	a/ 15,654		
	First quarter.....	89,961	85,018	15,772	84,122	82,805	a/ 14,320		
325188A111	Potassium and sodium compounds: Potassium iodide (100 percent).....	361	(D)	(D)	379	(D)	(D)		
	Fourth quarter.....	140	(D)	(D)	121	(D)	(D)		
	Third quarter.....	70	(D)	(D)	79	(D)	(D)		
	Second quarter.....	75	(D)	(D)	85	(D)	(D)		
	First quarter.....	76	(D)	(D)	94	(D)	(D)		
325188A117	Potassium pyrophosphate (tetra-potassium pyrophosphate) (anhydrous, 100 percent).....	24,202	r/ 25,125	r/ 27,059	r/ 23,092	23,192	24,378		
	Fourth quarter.....	5,320	r/ 5,316	r/ 6,077	c/r/ 6,931	c/ 6,773	c/ 6,867		
	Third quarter.....	5,880	r/ 6,214	r/ 6,027	c/r/ 6,796	c/ 6,759	b/ 6,856		
	Second quarter..... b/	7,014	b/r/ 6,912	b/r/ 7,620	c/r/ 4,929	c/ 5,518	c/ 5,873		
	First quarter..... b/	5,988	b/r/ 6,683	b/r/ 7,335	c/r/ 4,436	c/ 4,142	c/ 4,782		
325188A124	Potassium phosphates (100 percent by weight).....	26,469	26,101	34,283	24,836	24,132	28,850		
	Fourth quarter.....	6,505	(D)	(D)	b/ 6,800	b/ 6,680	a/ 7,903		
	Third quarter.....	6,846	r/ 6,274	8,316	b/ 6,356	b/ 6,418	a/ 7,626		
	Second quarter.....	6,738	(D)	(D)	b/ 5,692	b/ 6,076	a/ 7,376		
	First quarter..... r/	6,380	6,841	9,150	b/ 5,988	b/ 4,958	a/ 5,945		
325188A141	Sodium chlorate (100 percent).....	614,715	591,691	184,950	577,021	573,246	171,401		
	Fourth quarter..... a/	148,609	a/ 142,256	a/ 44,353	147,547	145,481	43,632		
	Third quarter..... a/	152,520	a/ 147,965	a/ 45,750	127,889	134,198	39,514		
	Second quarter.....	155,244	150,042	46,554	151,843	144,612	44,752		
	First quarter.....	158,342	151,428	48,293	149,742	148,955	43,503		
325188A147	Sodium hydrosulfide (sodium sulfhydrate) (100 percent).....	(D)	(D)	(D)	(D)	(D)	(D)		
	Fourth quarter.....	(D)	(D)	(D)	(D)	(D)	(D)		
	Third quarter.....	(D)	(D)	(D)	(D)	(D)	(D)		
	Second quarter.....	(D)	(D)	(D)	(D)	(D)	(D)		
	First quarter.....	(D)	(D)	(D)	(D)	(D)	(D)		
325188A151	Sodium hydrosulfite (100 percent).....	(D)	(D)	(D)	(D)	(D)	(D)		
	Fourth quarter.....	(D)	(D)	(D)	(D)	(D)	(D)		
	Third quarter.....	(D)	(D)	(D)	(D)	(D)	(D)		
	Second quarter.....	(D)	(D)	(D)	(D)	(D)	(D)		
	First quarter.....	(D)	(D)	(D)	(D)	(D)	(D)		

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Product code	Product description	2006				2005			
		Total production (quantity)	Total shipments, including interplant transfers		Total production (quantity)	Total shipments, including interplant transfers		Total production (quantity)	Total shipments, including interplant transfers
			Quantity	Value		Quantity	Value		
325188A157	Sodium phosphates:								
	Dibasic (produced for sale)								
	(100 percent) 6/.....	17,246	16,691	18,947	19,350		18,721	20,181	
	Fourth quarter.....	3,564	3,664	4,468	4,937	a/	4,621	5,045	
	Third quarter.....	3,913	4,077	4,805	5,111	a/	4,744	5,011	
	Second quarter.....	5,085	4,351	4,721	5,013	a/	4,586	4,993	
325188A164	First quarter.....	4,684	4,599	4,953	4,289	a/	4,770	5,132	
	Tetrabasic (pyro) (100 percent).....	(D)	(D)	(D)	14,460		13,228	12,626	
	Fourth quarter.....	(D)	(D)	(D)	(D)		(D)	(D)	
	Third quarter.....	(D)	(D)	(D)	(D)		(D)	(D)	
	Second quarter.....	(D)	(D)	(D)	(D)		(D)	(D)	
	First quarter.....	(D)	(D)	(D)	b/ 4,139	b/	3,675	b/ 3,457	
325188A167	Meta (100 percent).....	33,028	31,430	33,055	37,763		34,653	35,528	
	Fourth quarter.....	9,566	7,861	7,981	8,464		7,146	7,466	
	Third quarter.....	5,189	7,795	8,213	10,573		8,787	8,980	
	Second quarter.....	8,764	8,004	8,544	9,796		8,955	9,088	
	First quarter.....	9,509	7,770	8,317	8,930		9,765	9,994	
325188A171	Acid pyro (100 percent).....	37,497	34,912	34,864	39,546		37,982	36,602	
	Fourth quarter.....	9,848	9,118	9,462	a/ 10,816		9,638	9,232	
	Third quarter.....	8,790	8,532	8,419	a/ 8,797		9,481	9,205	
	Second quarter.....	a/ 9,373	8,619	8,390	a/ 10,583	a/	9,608	9,332	
	First quarter.....	a/ 9,486	a/ 8,643	8,593	a/ 9,350		9,255	8,833	
325188A174	Tripoly (100 percent).....	(D)	(D)	(D)	(D)		(D)	(D)	
	Fourth quarter.....	(D)	(D)	(D)	(D)		(D)	(D)	
	Third quarter.....	(D)	(D)	(D)	(D)		(D)	(D)	
	Second quarter.....	(D)	(D)	(D)	(D)		(D)	(D)	
	First quarter.....	(D)	(D)	(D)	(D)		(D)	(D)	
325188A177	Other sodium phosphates, including mono- and tribasic.....	(X)	(X)	13,312	(X)		(X)	15,758	
	Fourth quarter.....	(X)	(X)	3,177	(X)		(X)	4,291	
	Third quarter.....	(X)	(X)	3,635	(X)		(X)	a/ 3,374	
	Second quarter.....	(X)	(X)	2,955	(X)		(X)	3,680	
	First quarter.....	(X)	(X)	3,545	(X)		(X)	4,413	
325188A181	Sodium silicate (soluble silicate glass, liquid, and solid) (anhydrous) 7/.....	1,161,000	757,488	256,544	1,145,423		687,618	209,788	
	Fourth quarter.....	294,339	a/r/ 188,535	b/ 64,089	b/ 282,717	a/	180,024	b/ 54,770	
	Third quarter.....	292,791	a/r/ 193,950	b/ 66,747	b/ 276,487	a/	166,416	b/ 52,347	
	Second quarter.....	274,369	a/ 178,574	b/ 60,488	a/ 284,636	a/	177,989	b/ 52,437	
	First quarter.....	a/ 299,501	a/ 196,429	b/ 65,220	b/ 301,583	a/	163,189	b/ 50,234	
325188A184	Metasilicate pentahydrate (100 percent).....	26,224	27,576	10,918	33,229		31,402	9,125	
	Fourth quarter.....	(D)	6,603	2,689	7,685		6,815	2,385	
	Third quarter.....	7,091	7,190	2,758	8,166		7,481	2,071	
	Second quarter.....	(D)	7,269	2,897	8,917		8,712	2,447	
	First quarter.....	6,560	6,514	2,574	8,461		8,394	2,222	
325188A187	Metasilicate anhydrous (100 percent).....	28,772	27,321	14,846	31,703		29,729	13,088	
	Fourth quarter.....	(D)	7,004	3,433	7,044		7,292	3,640	
	Third quarter.....	(D)	7,345	4,132	7,096		7,771	3,388	
	Second quarter.....	6,105	6,049	3,393	9,149		7,048	3,016	
	First quarter.....	8,493	6,923	3,888	8,414		7,618	3,044	
325188A1A1	Sodium sulfate (100 percent):								
	High purity.....	319,769	r/ 332,793	r/ 33,303	r/ 340,398	r/	339,639	r/ 28,963	
	Fourth quarter.....	a/ 74,531	(D)	(D)	b/r/ 86,209	b/r/	80,376	b/r/ 4,716	
	Third quarter.....	b/ 87,402	c/r/ 75,698	b/r/ 7,658	b/r/ 87,672	b/r/	90,992	b/r/ 8,245	
	Second quarter.....	b/ 75,452	c/r/ 89,895	b/r/ 9,110	b/r/ 78,383	b/r/	75,591	b/r/ 6,896	
	First quarter.....	b/ 82,384	(D)	(D)	b/r/ 88,134	b/r/	92,680	b/r/ 9,106	
325188A1A7	Sodium sulfite (100 percent).....	100,864	117,184	23,456	102,598		127,767	23,484	
	Fourth quarter.....	b/ 24,470	b/ 29,787	c/ 5,709	b/ 26,359	b/	28,066	c/ 4,963	
	Third quarter.....	b/ 26,615	b/ 29,277	c/ 6,063	b/ 22,998	b/	30,938	c/ 5,790	
	Second quarter.....	b/ 22,708	b/ 29,835	c/ 6,092	b/ 25,970	b/	40,007	c/ 7,230	
	First quarter.....	b/ 27,071	b/ 28,285	c/ 5,592	b/ 27,271	b/	28,756	c/ 5,501	
325188G141	Other inorganic chemicals:								
	Calcium carbonate (precipitated)								
	(100 percent).....	2,167,446	2,118,232	289,180	2,135,356		2,072,853	273,646	
	Fourth quarter.....	a/ 532,137	a/ 521,117	a/ 71,634	a/ 534,649	a/	515,743	a/ 67,514	
	Third quarter.....	a/ 539,133	a/ 527,275	a/ 71,362	a/ 524,677	a/	511,848	a/ 68,237	
	Second quarter.....	a/ 538,852	a/ 524,634	a/ 71,483	a/ 524,034	a/	508,994	a/ 67,114	
325188G141	First quarter.....	a/ 557,324	a/ 545,206	a/ 74,701	a/ 551,996	a/	536,268	a/ 70,781	

Table 2. Summary of Primary Production and Shipments of Specified Inorganic Chemicals: 2006 and 2005
[Quantity in short tons unless otherwise noted. Value in thousands of dollars]

Product code	Product description	2006				2005			
		Total production (quantity)	Total shipments, including interplant transfers		Total production (quantity)	Total shipments, including interplant transfers			
			Quantity	Value		Quantity	Value		
325188G144	Calcium chloride (100 percent)..... r/	1,523,828	(D)	(D)	1,948,738	(D)	(D)		
	Fourth quarter.....	361,398	(D)	(D)	b/ 503,283	(D)	(D)		
	Third quarter..... a/r/	380,334	(D)	(D)	b/ 520,586	(D)	(D)		
	Second quarter..... a/r/	425,860	(D)	(D)		(D)	(D)		
	First quarter..... a/r/	356,236	(D)	(D)		(D)	(D)		
325188G147	Calcium phosphates:								
	Monobasic (21 percent minimum P)								
	(100 percent).....	(D)	(D)	(D)	(D)	(D)	(D)		
	Fourth quarter.....	(D)	(D)	(D)	(D)	(D)	a/ 55,237		
	Third quarter.....	(D)	(D)	a/ 69,492	(D)	(D)	a/ 66,951		
	Second quarter.....	(D)	(D)	a/ 60,836	(D)	(D)	(D)		
	First quarter.....	(D)	(D)	a/ 50,429	(D)	(D)	a/ 60,788		
325188G151	Dibasic (18.5 percent minimum P)								
	(100 percent).....	269,234	270,703	78,170	315,371	307,082	80,428		
	Fourth quarter..... c/	62,864	b/ 68,554	b/ 20,321	81,604	75,646	19,067		
	Third quarter.....	62,838	65,667	19,162	71,418	79,389	19,625		
	Second quarter.....	67,620	65,361	18,710	70,363	72,785	19,911		
	First quarter.....	75,912	71,121	19,977	91,986	79,262	21,825		
3253124241	Tribasic (defluorinated phosphate rock) (18.0 percent minimum P): 8/								
	Animal feed grade (defluorinated phosphate rock) (100 percent).....	(D)	(D)	(D)	251,873	253,576	73,020		
	Fourth quarter.....	(D)	(D)	(D)	(D)	(D)	(D)		
	Third quarter.....	(D)	(D)	(D)	(D)	(D)	18,076		
	Second quarter.....	(D)	(D)	(D)	(D)	(D)	(D)		
	First quarter.....	(D)	(D)	(D)	67,322	68,358	19,869		
325998H1E4	Carbon, activated: 9/								
	Granular carbons (dry weight) 10/.....	24,225	28,396	38,632	(D)	(D)	(D)		
	Fourth quarter..... c/r/	6,500	b/r/ 6,640	c/r/ 8,924	(D)	(D)	(D)		
	Third quarter..... r/	5,921	r/ 6,683	a/r/ 8,976	(D)	(D)	(D)		
	Second quarter..... a/	4,800	6,943	a/ 10,397	(D)	(D)	(D)		
	First quarter..... a/	7,004	8,130	a/ 10,335	(D)	(D)	(D)		
325998H1E7	Pulverized carbons (dry weight)..... r/	64,543	(D)	(D)	(D)	(D)	(D)		
	Fourth quarter..... a/r/	25,410	b/ 24,989	a/ 14,650	(D)	(D)	(D)		
	Third quarter..... a/r/	15,032	a/ 29,838	16,684	(D)	(D)	(D)		
	Second quarter..... a/	12,944	a/ 27,579	15,102	(D)	(D)	(D)		
	First quarter..... a/	11,157	(D)	(D)	(D)	(D)	(D)		
325188G181	Hydrogen peroxide (100 percent by weight).....	387,123	243,636	121,422	401,907	315,932	158,209		
	Fourth quarter..... b/	87,020	b/ 50,409	b/ 26,309	b/ 96,464	b/ 51,657	b/ 24,429		
	Third quarter..... b/	99,456	b/ 63,595	b/ 31,959	b/ 89,446	c/ 78,657	c/ 39,719		
	Second quarter..... b/	97,773	b/ 62,934	b/ 32,001	b/ 111,514	c/ 99,204	c/ 50,734		
	First quarter..... b/	102,874	b/ 66,698	b/ 31,153	b/ 104,483	c/ 86,414	c/ 43,327		
325188G184	Iodine (100 percent) (quantity in pounds).....	(D)	3,679,993	45,736	(D)	(D)	39,069		
	Fourth quarter.....	(D)	895,505	b/ 11,668	(D)	(D)	10,925		
	Third quarter.....	(D)	(D)	b/ 11,674	(D)	(D)	8,456		
	Second quarter.....	(D)	(D)	b/ 11,733	(D)	(D)	10,125		
	First quarter.....	(D)	893,117	b/ 10,661	(D)	(D)	9,563		
325188G187	Ferric chloride (100 percent).....	233,486	258,544	52,742	179,004	174,981	32,580		
	Fourth quarter..... c/r/	50,579	c/ 64,973	c/ 11,942	c/ 47,464	(D)	(D)		
	Third quarter..... c/	91,165	(D)	(D)	c/ 46,735	b/ 41,521	c/ 7,637		
	Second quarter..... c/r/	43,477	(D)	(D)	c/ 41,238	b/ 38,088	c/ 7,085		
	First quarter..... c/	48,265	(D)	(D)	c/ 43,567	(D)	(D)		
325188G191	Iron oxides and hydroxides, excluding iron oxide pigments (100 percent).....	(D)	(D)	(D)	(D)	(D)	(D)		
	Fourth quarter.....	(D)	(D)	(D)	(D)	(D)	(D)		
	Third quarter.....	(D)	(D)	(D)	(D)	(D)	(D)		
	Second quarter.....	(D)	(D)	(D)	(D)	(D)	(D)		
	First quarter.....	(D)	(D)	(D)	(D)	(D)	(D)		
325188G1A1	Magnesium chloride (100 percent).....	(D)	(D)	r/ 22,103	(D)	(D)	21,532		
	Fourth quarter.....	(D)	(D)	r/ 6,565	(D)	(D)	c/ 7,330		
	Third quarter.....	(D)	(D)	5,073	(D)	(D)	c/ 4,653		
	Second quarter.....	(D)	(D)	4,871	(D)	(D)	c/ 4,529		
	First quarter.....	(D)	(D)	r/ 5,594	(D)	(D)	5,020		
325188G1B1	Manganese dioxide (100 percent).....	58,674	54,088	78,878	64,440	64,179	81,553		
	Fourth quarter.....	(D)	(D)	c/ 21,876	a/ 16,432	a/ 15,949	21,843		
	Third quarter.....	(D)	(D)	20,522	a/ 16,200	18,458	22,994		
	Second quarter.....	14,462	11,296	16,949	16,089	15,497	18,905		
	First quarter.....	14,340	(D)	19,531	15,719	14,275	17,811		

Table 2. Summary of Primary Production and Shipments of Specified Inorganic Chemicals: 2006 and 2005
[Quantity in short tons unless otherwise noted. Value in thousands of dollars]

Product code	Product description	Total production (quantity)	2006				Total production (quantity)	2005		
			Total shipments, including interplant transfers			Total shipments, including interplant transfers		Quantity	Value	
			Quantity		Value					
325188G1F1	Phosphorus oxychloride (100 percent).....	(D)	(D)		(D)	(D)	(D)	(D)		(D)
	Fourth quarter.....	(D)	(D)		(D)	(D)	(D)	(D)		(D)
	Third quarter.....	(D)	(D)		(D)	(D)	(D)	(D)		(D)
	Second quarter.....	(D)	(D)		(D)	(D)	(D)	(D)		(D)
	First quarter.....	(D)	(D)		(D)	(D)	(D)	(D)		(D)
325188G1F7	Phosphorus trichloride (chloride) (100 percent).....	(D)	(D)		(D)	(D)	(D)	(D)		15,191
	Fourth quarter.....	(D)	(D)		(D)	(D)	(D)	b/		3,082
	Third quarter.....	(D)	(D)		(D)	(D)	(D)	b/		4,371
	Second quarter.....	(D)	(D)		(D)	(D)	(D)			(D)
	First quarter.....	(D)	(D)		(D)	(D)	(D)			(D)
325188G1G7	Silicon tetrachloride (sitet) (100 percent SiC14).....	(D)	(D)		12,468	(D)	(D)			12,987
	Fourth quarter.....	(D)	(D)	c/	3,117	(D)	(D)	c/		3,177
	Third quarter.....	(D)	(D)	c/	3,117	(D)	(D)	c/		3,317
	Second quarter.....	(D)	(D)	c/	3,117	(D)	(D)	c/		3,177
	First quarter.....	(D)	(D)	c/	3,117	(D)	(D)	c/		3,316
325188G1K1	Sulfur dioxide (100 percent).....	48,695	40,753		7,367	51,817	45,078			8,093
	Fourth quarter.....	11,080	a/ 8,870	b/	1,523	11,508	a/ 10,074	b/		1,860
	Third quarter.....	12,128	a/ 10,597	b/	1,956	14,615	a/ 12,721	b/		2,261
	Second quarter.....	12,665	a/ 10,505	b/	2,013	13,452	a/ 11,448	b/		2,028
	First quarter.....	12,822	a/ 10,781	b/	1,875	12,242	a/ 10,835	b/		1,944
325188G1M1	Zinc sulfate (100 percent).....	r/ 66,401	88,197	r/	83,961	36,690	(D)			27,757
	Fourth quarter.....	16,719	25,155		23,493	a/ 9,677	(D)	a/		6,281
	Third quarter.....	15,819	21,076		20,137	a/ 9,612	(D)	a/		6,173
	Second quarter.....	r/ 17,670	20,855	r/	21,146	a/ 7,743	(D)	a/		7,560
	First quarter.....	r/ 16,193	21,111	r/	19,185	a/ 9,658	(D)	a/		7,743

D Withheld to avoid disclosing data for individual companies. r/Revised by 5 percent or more from previously published data. X Not applicable.

1/Production includes amounts liquefied.

2/Liquid production data represent total production, including quantities later evaporated to solid caustic.

3/Source: U.S. Geological Survey. Quantity reported in thousands of short tons.

4/Includes production from salt and acid.

5/Excludes quantities produced and consumed in municipalities.

6/Represents quantities produced only for sale or interplant transfer.

7/Excludes amounts produced and consumed in making meta, ortho, and sesquisilicates.

8/Includes animal feed, but excludes other grades and superphosphate or other fertilizer materials.

9/Excludes reactivated carbon.

10/Includes pelleted carbon.

Note: Percent of estimation of each item is indicated as follows: a/10 to 25 percent of this item is estimated. b/26 to 50 percent of this item is estimated. c/Over 50 percent of this item is estimated.

Table 3. Production, Exports, Imports, and Apparent Consumption of Selected Inorganic Chemicals: 2006 and 2005
[Quantity in metric tons]

Product code	Product description	Year	Production (quantity)	Exports of domestic merchandise 1/	Imports for consumption 2/	Apparent consumption 3/ (quantity)	Percent imports to apparent consumption (quantity)
3251811111	Chlorine gas.....	2006	10,333,274	39,481	454,414	10,748,207	4.2
		2005	10,272,318	12,306	476,103	10,736,115	4.4
3251814111	Sodium hydroxide, total liquid (all processes).....	2006	8,062,757	3,107,653	1,758,643	6,713,747	26.2
		2005	8,516,903	2,790,640	1,580,524	7,306,787	21.6
3251817111	Potassium hydroxide, liquid.....	2006	r/ 518,660	212,636	6,250	312,274	2.0
		2005	527,296	267,754	5,961	265,503	2.2
3251817131	Finished sodium bicarbonate.....	2006	584,316	58,440	16,434	542,310	3.0
		2005	581,131	63,571	17,953	535,513	3.4
3251884125, 131	Hydrochloric acid.....	2006	4,232,472	33	141	4,232,580	(Z)
		2005	4,618,588	43,402	110,800	4,685,986	2.4
3313110100	Aluminum oxide.....	2006	(D)	1,496,963	1,653,035	(D)	(D)
		2005	(D)	1,151,957	1,715,911	(D)	(D)
3251887121	Aluminum chloride.....	2006	21,356	15,217	1,124	7,263	15.5
		2005	23,584	13,114	712	11,182	6.4
3251887131	Aluminum hydroxide, trihydrate.....	2006	784,823	61,280	314,217	1,037,760	30.3
		2005	775,494	81,562	228,330	922,262	24.8
3251887151	Aluminum sulfate (commercial).....	2006	911,670	10,372	16,390	917,688	1.8
		2005	966,501	12,581	9,864	963,784	1.0
3251887171	Aluminates.....	2006	324,208	37,389	11,906	298,725	4.0
		2005	318,447	34,552	8,663	292,558	3.0
325188A111	Potassium iodide.....	2006	327	108	619	838	73.8
		2005	344	90	602	856	70.3
325188A124	Potassium phosphate.....	2006	24,012	1,851	18,033	40,194	44.9
		2005	22,531	2,667	21,861	41,725	52.4
325188A141	Sodium chlorate.....	2006	557,660	13,791	563,721	1,107,590	50.9
		2005	523,465	28,271	607,534	1,102,728	55.1
325188A174	Sodium phosphate tripoly.....	2006	(D)	5,398	128,694	(D)	(D)
		2005	(D)	9,028	128,667	(D)	(D)
325188A181	Sodium silicates (other than metasilicates).....	2006	1,053,242	72,000	38,646	1,019,888	3.8
		2005	1,039,110	48,814	37,117	1,027,413	3.6
325188A184, 187	Sodium metasilicates.....	2006	49,892	10,833	1,449	40,508	3.6
		2005	58,905	15,490	935	44,350	2.1
325188A1A7	Sodium sulfite.....	2006	91,502	62,533	25,453	54,422	46.8
		2005	93,075	44,939	34,936	83,072	42.1
325188G141	Calcium carbonate (precipitated).....	2006	1,966,274	95,292	37,145	1,908,127	1.9
		2005	1,937,163	90,570	28,596	1,875,189	1.5
325188G144	Calcium chloride.....	2006	r/ 1,382,394	89,321	165,990	1,459,063	11.4
		2005	1,767,866	114,730	139,680	1,792,816	7.8
325998H1E4, 1E7	Carbon activated (granular and pulverized).....	2006	r/ 80,529	53,996	67,559	94,092	71.8
		2005	(D)	47,240	78,683	(D)	(D)
325188G181	Hydrogen peroxide.....	2006	351,192	52,806	39,050	337,436	11.6
		2005	364,604	57,840	40,304	347,068	11.6
325188G184	Iodine.....	2006	(D)	1,580	5,638	(D)	(D)
		2005	(D)	2,425	6,254	(D)	(D)

Table 3. Production, Exports, Imports, and Apparent Consumption of Selected Inorganic Chemicals: 2006 and 2005
[Quantity in metric tons]

Product code	Product description	Year	Production (quantity)	Exports of domestic merchandise 1/	Imports for consumption 2/	Apparent consumption 3/ (quantity)	Percent imports to apparent consumption (quantity)
325188G191	Iron oxides and hydroxides.....	2006	(D)	68,281	8,448	(D)	(D)
		2005	(D)	73,060	6,206	(D)	(D)
325188G1A1	Magnesium chloride.....	2006	(D)	7,650	64,440	(D)	(D)
		2005	(D)	6,060	72,934	(D)	(D)
325188G1B1	Manganese dioxide.....	2006	53,228	5,824	36,429	83,833	43.5
		2005	58,459	5,897	31,507	84,069	37.5
325188G1F1, 1F7	Phosphorous, oxychloride and trichloride.....	2006	(D)	697	356	(D)	(D)
		2005	(D)	875	774	(D)	(D)
325188G1K1	Sulfur dioxide.....	2006	44,175	3,301	67,691	108,565	62.4
		2005	47,008	4,247	64,243	107,004	60.0
325188G1M1	Zinc sulfate.....	2006	r/ 60,238	42,817	44,444	61,865	71.8
		2005	33,285	2,815	31,106	61,576	50.5

D Withheld to avoid disclosing data for individual companies. r/Revised by 5 percent or more from previously published data.
Z Less than one-half of one percent

1/Source: Census Bureau report EM 545, U.S. Exports (see Table 4).

2/Source: Census Bureau report IM 145, U.S. Imports for Consumption (see Table 4).

3/Apparent consumption represents new domestic supply and is derived by subtracting exports from the total of manufacturers' production plus imports.

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

Product code	Product description	Export code 1/	Import code 2/
3251881111	Chlorine gas.....	2801.10.0000	2801.10.0000
3251814111	Sodium hydroxide, total liquid (all processes).....	2815.11.0000 2815.12.0000	2815.11.0000 2815.12.0000
3251817111	Potassium hydroxide, liquid.....	2815.20.0050 2815.20.0090	2815.20.0050 2815.20.0090
3251817131	Finished sodium bicarbonate.....	2836.30.0000	2836.30.0000
3251884125, 131	Hydrochloric acid.....	2806.10.0000	2806.10.0000
3313110100	Aluminum oxide.....	2818.20.0000	2818.20.0000
3251887121	Aluminum chloride.....	2827.32.0000	2827.32.0000
3251887131	Aluminum hydroxide, trihydrate.....	2818.30.0000	2818.30.0000
3251887151	Aluminum sulfate (commercial).....	2833.22.0000	2833.22.0000
3251887171	Aluminates.....	2841.10.0000	2841.10.0000
325188A111	Potassium iodide.....	2827.60.2000	2827.60.2000
325188A124	Potassium phosphate.....	2835.24.0000	2835.24.0000
325188A141	Sodium chlorate.....	2829.11.0000	2829.11.0000
325188A174	Sodium phosphate tripoly.....	2835.31.0000	2835.31.0000
325188A181	Sodium silicates (other than metasilicates).....	2839.19.0000	2839.19.0000
325188A184, 187	Sodium metasilicates.....	2839.11.0000	2839.11.0000
325188A1A7	Sodium sulfite.....	2832.10.0000	2832.10.0000
325188G141	Calcium carbonate (precipitated).....	2836.50.0000	2836.50.0000
325188G144	Calcium chloride.....	2827.20.0000	2827.20.0000
325998H1E4, 1E7	Carbon activated (granular and pulverized).....	3802.10.0000	3802.10.0000
325188G181	Hydrogen peroxide.....	2847.00.0000	2847.00.0000
325188G184	Iodine.....	2801.20.0000	2801.20.0000
325188G191	Iron oxides and hydroxides.....	2821.10.0050	2821.10.0050
325188G01A1	Magnesium chloride.....	2827.31.0000	2827.31.0000
325188G01B1	Manganese dioxide.....	2820.10.0000	2820.10.0000
325188G1F1, 1F7	Phosphorous, oxychloride and trichloride.....	2812.10.5010	2812.10.5010
325188G1K1	Sulfur dioxide.....	2811.23.0000	2811.23.0000
325188G1M1	Zinc sulfate.....	2833.26.0000	2833.26.0000
3251311100	Titanium dioxide (composite and pure).....	2823.00.0000 3206.11.0000 3206.19.0000	2823.00.0000 3206.11.0000 3206.19.0000

1/Source: 2006 edition, Harmonized System-based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated (2006).

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 chemicals 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.