

MQ325A(07)-3

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

Helping You Make Informed Decisions

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

Table 1. Summary of Production of Principal Inorganic Chemicals: 2007 and 2006
 [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 Al ₂ O ₃) (3251887151)	Sodium sulfate, high purity (100 percent Na ₂ SO ₄) (325188A1A1)	Finished sodium bicarbonate (58 percent NaHCO ₃) (32518171310)	Sodium chlorate (100 percent) (325188A141)
Year-to-date:							
2007.....	9,068,986	6,716,525	3,596,248	736,470	260,884	481,310	454,787
2006.....	8,625,252	6,807,093	3,557,997	771,339	245,238	479,847	466,106
2007							
Third quarter.....	3,192,760	2,356,761	1,204,303	268,607	92,034	166,083	149,307
Second quarter.....	2,954,109	2,218,358	1,181,401	243,609	83,397	164,149	155,826
First quarter.....	2,922,117	2,141,406	1,210,544	224,254	85,453	151,078	149,654
2006 1/							
Total.....	11,390,483	8,887,667	4,665,501	1,004,944	319,769	644,098	614,715
Fourth quarter.....	2,765,231	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	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

1/Data for 2006 have been revised based on the summary report, MQ-325A(06)-5, "Inorganic Chemicals," issued July 2007.

Table 2. Primary Production and Stocks of Inorganic Chemicals
[Short tons, unless otherwise noted]

Product code	Product description	Third quarter 2007						Second quarter 2007			
		Total production (quantity)	Total shipments, including interplant transfers				Total production (quantity)	Total shipments, including interplant transfers			
			Quantity	Value	Quantity	Value		Quantity	Value		
Chlorine and alkalis:											
Chlorine(100 percent):											
3251811111	Gas 1/.....	a/ 3,192,760	a/ 2,298,659	a/ 461,066	a/ 2,954,109	2,153,035	440,868				
3251811121	Liquid.....	a/ 2,735,371	a/ 2,460,775	a/ 522,527	2,591,879	2,397,631	512,268				
Sodium hydroxide (caustic soda) (100 percent) all processes:											
3251814111	Liquid 2/.....	a/ 2,356,761	(D)	(D)	a/ 2,218,358	(D)	(D)				
3251817111	Potassium hydroxide (caustic potash) (88-92 percent), liquid 2/.....	161,420	141,749	67,524	155,582	150,687	67,495				
3251817131	Finished sodium bicarbonate (58 percent NaHCC	a/ 166,083	c/ 152,154	c/ 37,931	a/ 164,149	c/ 155,297	c/ 38,156				
2123913111	Sodium carbonate, natural (soda ash) (58 percent) 3/.....	3,189	(X)	(X)	3,038	(X)	(X)				
Chlorine bleaches and other inorganic bleaching compounds:											
325188G1P4	Industrial, liquid and dry.....	c/ 198,500	c/ 268,674	c/ 203,924	c/ 163,160	c/ 233,023	c/ 177,705				
Acids:											
Hydrochloric (100 percent):											
3251884125	From chlorine and hydrogen.....	b/ 81,110	b/ 32,586	b/ 8,789	b/ 73,124	b/ 35,206	b/ 9,244				
3251884131	Byproduct and other 4/.....	b/ 1,123,193	b/ 784,576	a/ 28,736	b/ 1,108,277	a/ 756,403	a/r/ 26,413				
3251884141	Hydrocyanic (including anhydrous) (100 percent	b/ 83,099	b/ 57,934	b/ 55,036	b/ 76,956	b/ 48,758	b/ 46,013				
Aluminum oxide and aluminum compounds:											
3313110100	Aluminum oxide, except natural alumina (100 percent Al2O3).....	(D)	(D)	c/ 365,893	(D)	(D)	b/ 382,733				
3251887121	Aluminum chloride, anhydrous (100 percent)....	c/ 6,679	(D)	(D)	c/ 6,489	(D)	(D)				
3251887131	Aluminum hydroxide, trihydrate (100 percent)...	b/ 221,847	c/ 177,054	b/ 70,579	b/ 228,687	c/ 192,304	b/ 76,352				
Aluminum sulfate:											
3251887151	Commercial (17 percent aluminum oxide) 5/..	a/ 268,607	b/ 276,840	b/ 51,004	b/ 243,609	b/ 251,960	b/ 45,903				
3251887161	Iron-free (17 percent aluminum oxide).....	a/ 85,496	a/ 82,179	b/ 9,167	b/ 84,984	a/ 80,081	b/ 8,975				
3251887171	Aluminates (sodium aluminate, potassium aluminate, etc.) (100 percent).....	a/ 93,031	85,039	18,540	a/ 91,207	83,706	16,887				
Potassium and sodium compounds:											
325188A111	Potassium iodide (100 percent).....	69	(D)	(D)	58	(D)	(D)				
325188A117	Potassium pyrophosphate (tetrapotassium pyrophosphate) (anhydrous, 100 percent).....	b/ 5,867	b/ 5,806	a/ 6,847	b/ 6,837	b/ 6,607	a/ 8,159				
325188A124	Potassium phosphates (100 percent by weight)...	b/ 8,120	(D)	(D)	b/ 8,242	b/ 9,165	a/ 11,346				
325188A141	Sodium chlorate (100 percent).....	b/ 149,307	b/ 149,633	b/ 51,059	a/ 155,826	a/ 155,444	a/ 52,086				
325188A147	Sodium hydrosulfide (sodium sulfhydryate (100 percent).....	(D)	(D)	(D)	(D)	(D)	(D)				
325188A151	Sodium hydrosulfite (100 percent).....	(D)	(D)	(D)	(D)	(D)	(D)				
Sodium phosphates:											
325188A157	Dibasic (produced for sale) (100 percent) 6/...	4,182	4,188	5,175	4,256	3,694	4,704				
325188A164	Tetrabasic (pyro) (100 percent).....	(D)	(D)	(D)	(D)	(D)	(D)				
325188A167	Meta (100 percent).....	11,381	8,713	9,379	10,193	8,950	9,576				
325188A171	Acid pyro (100 percent).....	8,837	8,757	9,203	7,930	8,265	8,821				
325188A174	Tripoly (100 percent).....	(D)	(D)	(D)	(D)	(D)	(D)				
325188A177	Other sodium phosphates (including mono- and tribasic).....	(X)	(X)	3,400	(X)	(X)	3,770				
325188A181	Sodium silicate (soluble silicate glass, liquid and solid) (anhydrous) 7/.....	b/ 300,137	a/ 181,050	b/ 68,497	b/ 309,597	a/ 204,704	b/ 70,931				
325188A184	Metasilicate pentahydrate (100 percent).....	(D)	(D)	(D)	(D)	(D)	(D)				
325188A187	Metasilicate anhydrous (100 percent).....	(D)	(D)	(D)	(D)	(D)	(D)				
Sodium sulfate (100 percent)											
325188A1A1	High purity.....	a/ 92,034	(D)	(D)	a/ 83,397	(D)	(D)				
325188A1A7	Sodium sulfite (100 percent).....	b/ 25,806	b/ 26,253	c/ 5,747	b/ 18,786	b/ 24,619	c/ 5,454				
Other inorganic chemicals:											
325188G141	Calcium carbonate (precipitated) (100 percent)...	a/ 529,253	a/ 517,819	a/ 73,728	a/ 536,443	a/ 526,235	a/ 74,560				
325188G144	Calcium chloride (100 percent).....	a/ 373,913	(D)	(D)	a/ 321,834	(D)	(D)				
Calcium phosphates:											
325188G147	Monobasic (21 percent minimum P) (100 perc	(D)	(D)	(D)	(D)	(D)	(D)				
325188G151	Dibasic (18.5 percent minimum P) (100 percer	70,002	63,664	20,229	78,371	78,762	21,929				
3253124241	Tribasic (deflourinated phosphate rock) (18.0 percent minimum P) 8/: Animal feed grade (deflourinated phosphate rock) (100 percent).....	(D)	(D)	16,253	(D)	(D)	19,514				
Carbon, activated 9/:											

Table 2. Primary Production and Stocks of Inorganic Chemicals
[Short tons, unless otherwise noted]

Product code	Product description	Third quarter 2007				Second quarter 2007			
		Total production (quantity)	Total shipments, including interplant transfers		Total production (quantity)	Total shipments, including interplant transfers			
			Quantity	Value		Quantity	Value		
325998H1E4	Granular carbons (dry weight) 10/.....	b/ 5,584	(D)	b/ 7,327	b/r/ 6,210	(D)	b/r/ 10,059		
325998H1E7	Pulverized carbons (dry weight).....	c/ 23,218	c/ 29,525	c/ 17,953	c/ 25,121	c/ 27,503	c/ 16,723		
325188G181	Hydrogen peroxide (100 percent by weight).....	b/ 101,135	b/ 59,695	b/ 29,220	b/ 95,234	b/ 65,813	b/ 32,936		
325188G184	Iodine (100 percent) quantity in pounds.....	(D)	1,085,886	b/ 14,772	(D)	848,800	b/ 11,601		
325188G187	Ferric chloride (100 percent).....	c/ 42,999	c/ 56,150	c/ 10,676	c/ 47,149	c/ 58,517	c/ 10,754		
325188G191	Iron oxides and hydroxides (excluding iron oxide pigments) (100 percent).....	(D)	(D)	(D)	(D)	(D)	(D)		
325188G1A1	Magnesium chloride (100 percent).....	(D)	(D)	4,090	(D)	(D)	b/ 2,721		
325188G1B1	Manganese dioxide (100 percent).....	(D)	(D)	c/ 23,014	(D)	(D)	c/ 22,762		
325188G1F1	Phosphorus oxychloride (100 percent).....	(D)	(D)	(D)	(D)	(D)	(D)		
325188G1F7	Phosphorus trichloride (chloride) (100 percent)....	(D)	(D)	(D)	(D)	(D)	(D)		
325188G1G7	Silicon tetrachloride (sitet) (100 percent SiCl4).....	(D)	(D)	c/ 3,120	(D)	(D)	c/ 3,117		
325188G1K1	Sulfur dioxide (100 percent).....	(D)	(D)	(D)	(D)	5,356	b/ 632		
325188G1M1	Zinc sulfate (100 percent).....	(D)	(D)	(D)	(D)	(D)	(D)		

D Data withheld to avoid disclosing figures 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 figures 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 3a. Production, Exports, Imports, and Apparent Consumption of Selected Inorganic Chemical: Third Quarter 2007
[Metric tons]

Product code	Product description	Quantity produced	Exports of domestic merchandise 1/	Imports for consumption 2/	Apparent consumption 3/	Percent imports to apparent consumption
3251811111	Chlorine gas.....	2,896,424	7,460	113,857	3,002,821	3.8
3251814111	Sodium hydroxide, total liquid (all processes).....	2,138,018	1,046,334	429,012	1,520,696	28.2
3251817111	Potassium hydroxide, liquid.....	146,438	40,967	1,662	107,133	1.6
3251817131	Finished sodium bicarbonate.....	150,668	17,722	5,454	138,400	3.9
3251884125, 131	Hydrochloric acid.....	1,092,525	10	50	1,092,565	(Z)
3313110100	Aluminum oxide.....	(D)	272,486	559,320	(D)	(D)
3251887121	Aluminum chloride.....	6,059	3,875	421	2,605	16.2
3251887131	Aluminum hydroxide, trihydrate.....	201,256	15,609	61,953	247,600	25.0
3251887151	Aluminum sulfate (commercial).....	243,676	2,733	3,773	244,716	1.5
3251887171	Aluminates.....	84,396	-	-	84,396	-
325188A111	Potassium iodide.....	63	33	145	175	83.0
325188A124	Potassium phosphates.....	7,366	632	5,960	12,694	47.0
325188A141	Sodium chlorate.....	135,449	6,729	134,186	262,906	51.0
325188A174	Sodium phosphate tripoly.....	(D)	1,563	30,692	(D)	(D)
325188A181	Sodium silicates.....	272,280	19,192	10,671	263,759	4.0
325188A184, 187	Sodium metasilicates.....	(D)	2,962	1,221	(D)	(D)
325188A1A7	Sodium sulfite.....	23,411	8,900	4,956	19,467	25.5
325188G141	Calcium carbonate, precipitated.....	480,130	20,990	19,153	478,293	4.0
325188G144	Calcium chloride.....	339,208	124,387	50,367	265,188	19.0
325998H1E4, 1E7	Carbon activated (granular and pulverized).....	26,129	13,054	15,898	28,973	54.9
325188G181	Hydrogen peroxide.....	91,748	18,481	11,889	85,156	14.0
325188G184	Iodine.....	(D)	317	1,333	(D)	(D)
325188G191	Iron oxides and hydroxides.....	(D)	18,751	2,635	(D)	(D)
325188G1A1	Magnesium chloride.....	(D)	2,001	10,901	(D)	(D)
325188G1B1	Manganese dioxide.....	(D)	2,268	9,386	(D)	(D)
325188G1F1, 1F7	Phosphorous, oxychloride and trichloride.....	(D)	130	147	(D)	(D)
325188G1K1	Sulfur dioxide.....	(D)	-	-	(D)	-
325188G1M1	Zinc sulfate.....	(D)	-	-	(D)	-

- Represents zero. D Withheld to avoid disclosing data for individual companies. 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 IN 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.

Note: Export and import data for the following product descriptions have been deleted from this report due to a lack of comparability with this survey: bleaches (sodium and calcium hypochlorite, etc.); sodium phosphate, mono- and dibasic; sodium phosphate, tribasic; sodium sulfate; and calcium phosphates.

Table 3b. Production, Exports, Imports, and Apparent Consumption of Selected Inorganic Chemicals: Second Quarter 2007 [Metric tons].

Product code	Product description	Quantity produced	Exports of domestic merchandise 1/	Imports for consumption 2/	Apparent consumption 3/	Percent imports to apparent consumption
3251811111	Chlorine gas.....	2,679,923	6,028	104,193	2,778,088	3.8
3251814111	Sodium hydroxide, total liquid (all processes).....	2,012,461	872,250	387,739	1,527,950	25.4
3251817111	Potassium hydroxide, liquid.....	141,142	29,313	2,536	114,365	2.2
3251817131	Finished sodium bicarbonate.....	148,913	16,918	4,048	136,043	3.0
3251884125, 131	Hydrochloric acid.....	1,071,749	9	40	1,071,780	(Z)
3313110100	Aluminum oxide.....	(D)	316,695	567,576	(D)	(D)
3251887121	Aluminum chloride.....	5,887	4,151	345	2,081	16.6
3251887131	Aluminum hydroxide, trihydrate.....	207,461	13,992	73,259	266,728	27.5
3251887151	Aluminum sulfate (commercial).....	220,998	2,767	3,142	221,373	1.4
3251887171	Aluminates.....	82,742	-	-	82,742	-
325188A111	Potassium iodide.....	53	36	134	151	89.0
325188A124	Potassium phosphates.....	7,477	723	5,969	12,723	46.9
325188A141	Sodium chlorate.....	141,363	6,895	121,449	255,917	47.5
325188A174	Sodium phosphate tripoly.....	(D)	1,270	31,355	(D)	(D)
325188A181	Sodium silicates.....	280,862	16,391	9,658	274,129	3.5
325188A184, 187	Sodium metasilicates.....	(D)	3,602	1,144	(D)	(D)
325188A1A7	Sodium sulfite.....	17,042	21,474	6,228	1,796	(S)
325188G141	Calcium carbonate, precipitated.....	486,653	23,501	13,812	476,964	2.9
325188G144	Calcium chloride.....	291,963	101,578	37,732	228,117	16.5
325998H1E4, 1E7	Carbon activated (granular and pulverized).....	28,423	11,081	13,509	30,851	43.8
325188G181	Hydrogen peroxide.....	86,395	13,559	11,876	84,712	14.0
325188G184	Iodine.....	(D)	149	1,434	(D)	(D)
325188G191	Iron oxides and hydroxides.....	(D)	15,224	26,515	(D)	(D)
325188G1A1	Magnesium chloride.....	(D)	3,191	2,575	(D)	(D)
325188G1B1	Manganese dioxide.....	(D)	2,405	9,577	(D)	(D)
325188G1F1, 1F7	Phosphorous, oxychloride and trichloride.....	(D)	256	136	(D)	(D)
325188G1K1	Sulfur dioxide.....	(D)	-	-	(D)	-
325188G1M1	Zinc sulfate.....	(D)	-	-	(D)	-

- Represents zero. D Withheld to avoid disclosing data for individual companies. S Does not meet publication standards. 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 IN 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.

Note: Export and import data for the following product descriptions have been deleted from this report due to a lack of comparability with this survey: bleaches (sodium and calcium hypochlorite, etc.); sodium phosphate, mono- and dibasic; sodium phosphate, tribasic; sodium sulfate; and calcium phosphates.

Table 4. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes and HTSUSA Import Codes: 2007

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 phosphates.....	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.....	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 2835.26.0000	2827.20.0000 2835.26.0000
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

Table 4. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes and HTSUSA Import Codes: 2007

Product code	Product description	Export code 1/	Import code 2/
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	2823.00.0000
		3206.11.0000	3206.11.0000
		3206.19.0000	3206.19.0000

1/Source: 2007 edition, Harmonized System-based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated (2007).