

Industrial Gases: Second Quarter 2004

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

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

Table 1. Summary of Production of Principal Gases: 2002 to 2004
 [Million cubic feet, except as noted]

Quarter and year	Acetylene (3251201)	Gas (3251204011)	Carbon dioxide [short tons]		Argon high purity (325120D021)	Hydrogen, high and low purity (100 percent) (325120D pt.)	Nitrogen, high and low purity (100 percent) (3251207)	Oxygen, high and low purity (100 percent) (325120A)
			Liquid (3251204021)	Solid (3251204031)				
Year-to-date:								
2004.....	704	4,175,650	2,697,120	179,580	11,493	287,529	467,404	278,195
2003.....	770	2,874,481	2,653,313	174,081	10,352	249,572	466,238	336,868
2002.....	1,300	2,463,600	3,636,038	199,488	9,223	244,901	482,152	299,898
2004								
Second quarter.....	338 r/	2,210,930 r/	1,426,197	98,478 r/	5,868 r/	143,348	232,343	139,209
First quarter.....	366 r/	1,964,720 r/	1,270,923	81,102 r/	5,625 r/	144,181	235,061 r/	138,986
2003 1/								
Total.....	1,591	6,236,115	5,696,359	366,847	21,459	507,624	937,856	697,741
Fourth quarter.....	423	1,687,654	1,314,801	88,699	5,476	130,444	234,510	184,634
Third quarter.....	399	1,673,980	1,728,245	104,067	5,630	127,608	237,108	176,239
Second quarter.....	405	1,428,567	1,432,718	91,792	5,131	128,720	232,775	171,372
First quarter.....	365	1,445,914	1,220,595	82,289	5,221	120,852	233,463	165,496
2002								
Total.....	2,618	5,081,134	7,007,979	416,111	18,661	478,533	918,983	605,745
Fourth quarter.....	655	1,400,966	1,529,974	101,574	5,444	117,209	235,778	168,557
Third quarter.....	663	1,216,568	1,841,967	115,049	3,994	116,423	201,053	137,290
Second quarter.....	656	1,262,040	1,884,245	104,529	4,776	127,247	237,543	155,120
First quarter.....	644	1,201,560	1,751,793	94,959	4,447	117,654	244,609	144,778

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

1/Data are revised based on the annual summary report for this series, MQ325C(03)-5, "Industrial Gases," issued December 2004.

Table 2. Primary Production of Specified Industrial Gases
 [Quantity in million cubic feet, unless otherwise noted. Value in thousands of dollars]

Product code	Product description	Second quarter 2004					Quantity produced and consumed in plant	First quarter 2004					Quantity produced and consumed in plant
		Quantity produced	Quantity shipped		Value of shipments			Quantity produced	Quantity shipped		Value of shipments		
3251201	Acetylene.....	338	264	r/	10,225		(X)	366	300		12,640		(X)
3251201111	Produced for compression, including cylinder and pipeline.....	(D)	(D)		(D)		(X)	(D)	(D)		(D)		(X)
3251201121	Produced for pipeline shipment, excluding that shipped to be compressed, and for consumption in same plant.....	(D)	(D)		(D)		(X)	(D)	(D)		(D)		(X)
3251204	Carbon dioxide [short tons].....	3,735,605	r/ 3,146,392	r/	116,975	155,426	r/	3,316,745	2,618,963	r/	97,803	r/	164,240
3251204111	Gas, including amounts produced and liquefied.....	a/r/ 2,210,930	a/r/ 1,878,319	c/	13,443	147,989	a/r/	1,964,720	a/ 1,541,391	c/	12,335	r/	157,461
3251204121	Liquid, including amounts produced and used to make dry ice.....	c/r/ 1,426,197	b/ 1,154,189		(S)	(D)	c/r/	1,270,923	b/ 984,213		(S)		(D)
3251204131	Solid (dry ice).....	c/ 98,478	c/r/ 113,884	c/r/	8,991	(D)	c/	81,102	c/r/ 93,359	c/r/	7,358		(D)
325120D121	Argon, high purity: Produced for cylinder and bulk delivery and pipeline shipments, and for consumption in same plant.....	c/r/ 5,868	c/r/ 6,318	c/r/	78,987		(D)	5,625	c/r/ 6,023	c/	69,816		(D)
325120D pt.	Hydrogen.....	r/ 143,348	r/ 111,130		215,856	36,482	r/	144,181	r/ 113,140	r/	204,838		27,347
	Gas produced for:												
325120D131	Merchant shipment.....	c/ 177	(S)		(D)	(X)	b/	178	c/r/ 366		(D)		(X)
325120D141	Pipeline and onsite use.....	a/ 96,823	a/ 104,800	c/	174,307	(X)	c/r/	97,998	c/r/ 108,267	c/r/	162,745		(X)
325120D151	Consumption in same plant.....	40,373	(X)		(X) a/	36,482		41,598	(X)		(X) a/		27,347
	Liquid produced for:												
325120D161	Merchant shipment.....	(D)	(D)	c/	38,996	(X)		(D)	(D)	c/	39,583		(X)
325120D171	Other shipments or uses.....	(D)	(D)		(D)	(X)		(D)	(D)		(D)		(X)
3251207	Nitrogen.....	232,343	r/ 271,046	r/	696,842	1,471		235,061	r/ 240,265		642,124		1,462
	Gas produced by:												
3251207111	Cryogenic onsite and pipeline.....	a/ 138,859	a/r/ 170,762		(S)	(X)	a/	148,025	a/ 146,598		(S)		(X)
3251207121	Noncryogenic processes by industrial gas producing companies, including psa, vpsa, membrane, etc.	(D)	(D)		(D)	(X)		(D)	(D)		(D)		(X)
	Captive uses for consumption in same plant (user owned):												
3251207131	Cryogenic processes.....	a/ 780	(X)		(X)	(D)	a/	764	(X)		(X)		(D)
3251207141	Noncryogenic processes, including psa, vpsa, membrane, etc.	(D)	(X)		(X)	(D)		(D)	(X)		(X)		(D)
	Liquid produced for:												
3251207151	Merchant shipment.....	c/ 79,071	c/r/ 91,052	c/r/	577,591	(X)	c/	71,956	c/r/ 80,562		(S)		(X)
3251207161	Consumption in same plant.....	a/ 2,487	(X)		(X)	(D)	a/	2,433	(X)		(X)		(D)
3251207171	Other shipments or uses.....	a/ 8,186	(D)		(D)	(X)	a/	8,439	(D)		(D)		(X)
325120A	Oxygen.....	139,209	157,054		450,504	r/ 1,391	r/	138,986	158,879	r/	459,904	r/	1,506
	Gas produced by:												
325120A111	Cryogenic onsite and pipeline.....	b/ 130,905	b/ 116,132		(S)	(X)	b/	130,177	b/ 119,225		(S)		(X)
325120A121	Noncryogenic processes by industrial gas producing companies, including psa, vpsa, membrane, etc.	(D)	(D)		(D)	(X)		(D)	(D)		(D)		(X)
	Captive uses for consumption in same plant (user owned):												
325120A131	Cryogenic processes.....	(D)	(X)		(X)	(D)		(D)	(X)		(X)		(D)
325120A141	Noncryogenic processes, including psa, vpsa, membrane, etc.	(D)	(X)		(X)	(D)		(D)	(X)		(X)		(D)
	Liquid produced for:												
325120A151	Merchant shipment.....	c/r/ 31,567	c/r/ 28,215	c/r/	59,631	(X)	c/	29,019	c/r/ 25,947	c/r/	45,070		(X)
325120A161	Consumption in this plant.....	(D)	(X)		(X)	(D)		(D)	(X)		(X)		(D)
325120A171	Other shipments or uses.....	c/ 7,708	c/ 5,993		(D)	(X)	b/r/	6,412	(D)		(D)		(X)

D Withheld to avoid disclosing data for individual companies. pt. Partial. r/Revised by 5 percent or more from previously published data. S Does not meet publication standards. X Not applicable.

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 Industrial Gases
 [Million cubic meters, unless otherwise noted]

Product code	Product description	Manufacturers' production	Exports of domestic merchandise 1/	Percent exports to manufacturers' net production	Imports for consumption 2/	Apparent consumption 3/	Percent exports to manufacturers' net production
Second quarter 2004							
3251204	Carbon dioxide, gas, liquid, and solid (metric tons) 4/.....	3,388,885	31,798	0.9	7,947	3,365,034	0.2
325120D021	Argon 5/..... r/	166	42	25.3	6	130	4.6
325120D031, 041, 051, 061, 071	Hydrogen 5/..... r/	4,059	94	2.3	35	4,000	0.9
3251207	Nitrogen 5/.....	6,579	34	0.5	25	6,570	0.4
325120A	Oxygen 5/.....	3,942	16	0.4	4	3,930	0.1
First quarter 2004							
3251204	Carbon dioxide, gas, liquid, and solid (metric tons) 4/.....	3,008,901	23,189	0.8	6,692	2,992,404	0.2
325120D021	Argon 5/..... r/	159	44	27.6	6	121	4.9
325120D031, 041, 051, 061, 071	Hydrogen 5/..... r/	4,083	96	2.4	34	4,021	0.8
3251207	Nitrogen 5/.....	6,656	24	0.4	1	6,633	-
325120A	Oxygen 5/..... r/	3,936	22	0.6	4	3,918	0.1

- Represents zero.

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 the total of net production plus imports.

4/A conversion factor of .907185 metric tons per one short ton was used to convert manufacturers' production from short tons to metric tons.

5/A conversion factor of .028317 million cubic meters per one million cubic feet was used to convert manufacturers' production from cubic feet to cubic meters.

Table 4. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Exports Codes, and HTSUSA Import Codes: 2004

Product code	Product description	Export code 1/	Import code 2/
3251204	Carbon dioxide (gas, liquid, and solid) (metric tons).....	2811.21.0000	2811.21.0000
325120D021	Argon, high purity.....	2804.21.2000	2804.21.2000
325120D031, 041, 051, 061, 071	Hydrogen.....	2804.10.0000	2804.10.0000
3251207	Nitrogen.....	2804.30.0000	2804.30.0000
325120A	Oxygen.....	2804.40.0000	2804.40.0000

1/Source: 2004 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 (2004).