

Industrial Gases: Third 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.....	1,085	6,515,561	4,400,273	297,841	17,279	456,802	702,378	504,585
2003.....	1,169	4,548,461	4,381,558	278,148	15,982	377,180	703,346	513,107
2002.....	1,963	3,680,168	5,478,005	314,537	13,217	361,324	683,205	437,188
2004								
Third quarter.....	380	2,339,911	1,703,153	118,261	5,785	169,273	234,974	186,565
Second quarter.....	338	2,210,930	1,426,197	98,478	5,869	143,348	232,343	179,034
First quarter.....	366	1,964,720	1,270,923	81,102	5,625	144,181	235,061	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.

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	Third quarter 2004				Quantity produced and consumed in plant	Second quarter 2004				Quantity produced and consumed in plant
		Quantity produced	Quantity shipped	Value of shipments			Quantity produced	Quantity shipped	Value of shipments		
3251201	Acetylene.....	380	303	10,483	(X)		338	264	10,225	(X)	
3251201111	Produced for compression, including cylinder and pipeline.....	(D)	(D)	(D)	(X)	(D)	(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)	(D)	(X)	
3251204	Carbon dioxide [short tons].....	4,161,325	3,394,164	128,656	148,270	3,735,605	3,146,392	116,975	155,426		
3251204111	Gas, including amounts produced and liquefied.....	b/ 2,339,911	a/ 1,922,410	c/ 13,382	b/ 139,661	a/ 2,210,930	a/ 1,878,319	c/ 13,443	147,989		
3251204121	Liquid, including amounts produced and used to make dry ice.....	c/ 1,703,153	c/ 1,330,096	a/ 103,947	(D)	c/ 1,426,197	b/ 1,154,189	(S)	(D)		
3251204131	Solid (dry ice).....	c/ 118,261	c/ 141,658	c/ 11,327	(D)	c/ 98,478	c/ 113,884	c/ 8,991	(D)		
325120D121	Argon, high purity: Produced for cylinder and bulk delivery and pipeline shipments, and for consumption in same plant.....	c/ 5,785	c/ 6,226	c/ 87,661	(D)	c/ 5,869	c/ 6,318	c/ 78,987	(D)		
325120D pt.	Hydrogen.....	169,273	124,804	206,998	29,089	143,348	111,130	215,856	36,482		
	Gas produced for:										
325120D131	Merchant shipment.....	b/ 150	c/ 341	c/ 2,311	(X)	c/ 177	(S)	(S)	(X)		
325120D141	Pipeline and onsite use.....	b/ 121,795	118,163	c/ 163,345	(X)	a/ 96,823	104,800	c/ 174,307	(X)		
325120D151	Consumption in same plant.....	41,021	(X)	(X)	29,089	40,373	(X)	(X)	36,482		
	Liquid produced for:										
325120D161	Merchant shipment.....	(D)	(D)	(D)	(X)	(D)	(D)	(D)	(X)		
325120D171	Other shipments or uses.....	(D)	(D)	(D)	(X)	(D)	(D)	(D)	(X)		
3251207	Nitrogen.....	234,974	273,079	715,725	1,878	232,343	271,646	696,842	1,471		
	Gas produced by:										
3251207111	Cryogenic onsite and pipeline.....	b/ 138,744	b/ 169,353	(S)	(X)	b/ 138,859	b/ 170,762	(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/ 825	(X)	(X)	(D)	a/ 780	(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/ 80,352	c/ 93,639	c/ 593,264	(X)	c/ 79,071	c/ 91,052	c/ 577,591	(X)		
3251207161	Consumption in same plant.....	a/ 3,023	(X)	(X)	(D)	a/ 2,487	(X)	(X)	(D)		
3251207171	Other shipments or uses.....	b/ 9,143	(D)	(D)	(X)	b/ 8,186	(D)	(D)	(X)		
325120A	Oxygen.....	186,565	170,940	623,319	(D)	179,034	157,054	450,504	1,391		
	Gas produced by:										
325120A111	Cryogenic onsite and pipeline.....	b/ 139,507	b/ 128,745	(S)	(X)	b/ 130,905	b/ 116,132	(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/ 30,777	c/ 29,641	a/ 179,972	(X)	c/ 31,567	c/ 28,215	c/ 59,631	(X)		
325120A161	Consumption in this plant.....	(D)	(X)	(X)	(D)	(D)	(X)	(X)	(D)		
325120A171	Other shipments or uses.....	c/ 7,722	(D)	(D)	(X)	c/ 7,708	(D)	(D)	(X)		

D Withheld to avoid disclosing data for individual companies. pt. Part. 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
Third quarter 2004							
3251204	Carbon dioxide, gas, liquid, and solid (metric tons) 4/.....	3,775,092	31,798	0.8	7,947	3,751,241	0.2
325120D021	Argon 5/.....	164	42	25.6	6	128	4.7
325120D031, 041, 051, 061, 071	Hydrogen 5/.....	9,764	94	1.0	35	9,705	0.4
3251207	Nitrogen 5/.....	6,654	34	0.5	25	6,645	0.4
325120A	Oxygen 5/.....	5,283	16	0.3	4	5,271	0.1
Second quarter 2004							
3251204	Carbon dioxide, gas, liquid, and solid (metric tons) 4/.....	3,388,885	23,189	0.7	6,692	3,372,388	0.2
325120D021	Argon 5/.....	166	44	26.5	6	128	4.7
325120D031, 041, 051, 061, 071	Hydrogen 5/.....	4,059	96	2.4	34	3,997	0.9
3251207	Nitrogen 5/.....	6,579	24	0.4	1	6,556	-
325120A	Oxygen 5/.....	3,942	22	0.6	4	3,924	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.