

# Mineral Industry Surveys

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## SODA ASH IN FEBRUARY 2006

Natural soda ash production in February was 801,000 metric tons (t), 15% lower than the previous month's production of 946,000 t, according to the U.S. Geological Survey (USGS). Ending inventories were estimated to be 197,000 t, 9% higher than the preceding month's inventories. Wyoming trona production in February was 1.23 million metric tons (Mt). Total production of chemical caustic soda was withheld to avoid disclosing company proprietary data.

Apparent consumption of soda ash in January was 563,000 t, 3% higher than the January 2005 level of 544,000 t.

Exports and imports of soda ash in January 2006 were 445,000 t and 673 t, respectively.

The trends in cumulative soda ash statistics through January 2006, compared with those of January 2005, were as follows: production was 2% higher, imports 5% higher, exports 15% higher, ending stocks 45% lower, and apparent consumption 3% higher.

The 2005 quarterly end-use data are included in table 6 of this report.

Included in this report is an analysis of U.S. soda ash exports for 2005. Industry sources had indicated that they believed the U.S. Census Bureau data may have been underreported and/or overreported for certain countries throughout the year. Using the trade data from the Journal of Commerce's Port Import-Export Reporting Service (PIERS) and input from industry

sources, the USGS has conducted an extensive comparison of export data from the two information sources, as shown in table 7. The difference between the annual totals was more than 250,000 t, which is significant when using exports to determine apparent consumption and comparing this with reported consumption. Although there never is perfect agreement between the two export sources (because of differing reporting periods [fiscal month vs. calendar month], missing declaration forms, etc.), two countries stand out as containing major discrepancies: Argentina and Venezuela. Shipments to Argentina beginning in June are absent from the Census Bureau records but are listed in the PIERS system and corroborated by industry sources as real transactions. All the missing exports were through the Port Arthur, TX, customs district. Exports to Venezuela through the Long Beach, CA, and Port Arthur, TX, customs districts also were absent from the Census Bureau data. Of the approximate 250,000 t of difference between the data, about 190,000 t can be adjusted just from these two countries.

Table 8 is the revised monthly exports of soda ash for 2005 based on the analysis using table 7. The previous Census Bureau total of 4.48 Mt has been revised to 4.68 Mt.

**Note:** The average annual value for soda ash in 2005 was \$80.19 per short ton.

TABLE 1  
SALIENT SODA ASH STATISTICS<sup>1</sup>

(Thousand metric tons)

Period	Soda ash		Wyoming trona production
	Production <sup>2</sup>	Ending stocks	
2005:			
January	925	332	1,440
February	858	360	1,350
March	894	285	1,410
April	928	275	1,360
May	931	259	1,510
June	932	266	1,550
July	955	297	1,550
August	893	246	1,380
September	923	296	1,480
October	898	307	1,320
November	895	292	1,310
December	922	243	1,360
Year total	11,000	XX	17,000
Total (January-February)	1,780	XX	2,790
2006:			
January	946 <sup>r</sup>	181 <sup>r</sup>	1,150
February	801	197 <sup>e</sup>	1,230
Total	1,750	XX	2,380

<sup>e</sup>Estimated. <sup>r</sup>Revised. XX Not applicable.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Production data include soda ash equivalent from soda liquors only. Soda ash equivalent from mine water is not included. Soda liquors are withheld to avoid disclosing company proprietary data.

TABLE 2  
U.S. EXPORTS OF SODA ASH BY COUNTRY, IN  
JANUARY 2006<sup>1, 2</sup>

Country	Quantity (metric tons)	Value <sup>3</sup> (thousands)	Unit value
Mexico	54,600	\$7,610	\$139
Brazil	51,900	8,350	161
Indonesia	40,200	5,950	148
Belgium	38,300	4,940	129
Saudi Arabia	37,400	4,720	126
Canada	35,000	4,640	133
Chile	31,800	4,280	135
Taiwan	22,300	3,330	149
Thailand	21,100	3,350	159
Venezuela	17,300	3,170	184
Other	95,400	13,800	145
Total or average	445,000	64,200	144

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>February 2006 data were not available at time of publication.

<sup>3</sup>Free alongside ship value at U.S. ports.

Source: U.S. Census Bureau.

TABLE 3  
U.S. EXPORTS OF SODA ASH BY COUNTRY,  
IN 2006<sup>1,2</sup>

(Metric tons)

Country	January	% of total
Australia	2,450	1
Belgium	38,300	9
Brazil	51,900	12
Canada	35,000	8
Chile	31,800	7
Colombia	15,600	4
France	22	(3)
Guatemala	5,950	1
Indonesia	40,200	9
Japan	4,400	1
Mexico	54,600	12
Netherlands	15,100	3
New Zealand	15,000	3
Panama	2,000	(3)
Portugal	10,500	2
Russia	600	(3)
Saudi Arabia	37,400	8
South Africa	6,640	1
Spain	35	(3)
Taiwan	22,300	5
Thailand	21,100	5
United Arab Emirates	17,000	4
Venezuela	17,300	4
Total	445,000	100

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>February 2006 data were not available at time of publication.

<sup>3</sup>Less than 1/2 unit.

Source: U.S. Census Bureau.

TABLE 4  
U.S. IMPORTS OF SODA ASH<sup>1,2</sup>

Period	Quantity (metric tons)	Value <sup>3</sup> (thousands)
2005:		
January	644	\$158
February	807	220
March	1,470	351
April	511	186
May	745	158
June	668	183
July	602	208
August	685	227
September	270	116
October	441	172
November	768	238
December	596	243
Total	8,210	2,460
2006:		
January	673	221

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>February 2006 data were not available at time of publication.

<sup>3</sup>Cost, insurance, and freight value at U.S. ports.

Source: U.S. Census Bureau.

TABLE 5  
U.S. APPARENT CONSUMPTION OF SODA ASH<sup>1</sup>

(Metric tons)

Period	Production	Imports	Exports	Net stock		Apparent consumption <sup>2</sup>
				Increase	Decrease	
2005:						
January	925,000	644	388,000	--	6,180	544,000
February	858,000	807	330,000	28,400	--	501,000
March	894,000	1,470	409,000	--	74,600	561,000
April	928,000	511	485,000	--	10,500	454,000
May	931,000	745	387,000 <sup>r</sup>	--	15,400	559,000 <sup>r</sup>
June	932,000	668	377,000 <sup>r</sup>	40,000	--	516,000 <sup>r</sup>
July	955,000	602	368,000 <sup>r</sup>	--	2,790	591,000 <sup>r</sup>
August	893,000	685	432,000 <sup>r</sup>	--	50,500	513,000 <sup>r</sup>
September	923,000	270	328,000 <sup>r</sup>	49,600	--	545,000 <sup>r</sup>
October	898,000	441	356,000	11,300	--	530,000
November	895,000	768	408,000 <sup>r</sup>	--	14,800	503,000 <sup>r</sup>
December	922,000	596	409,000 <sup>r</sup>	--	49,600	563,000 <sup>r</sup>
Total	11,000,000	8,210	4,680,000 <sup>r</sup>	--	95,000	6,380,000 <sup>r</sup>
2006:						
January	946,000 <sup>r</sup>	673	445,000	--	61,800 <sup>r</sup>	563,000
February	801,000	NA	NA	16,400 <sup>e</sup>	--	NA

<sup>e</sup>Estimated. <sup>r</sup>Revised. NA Not available. -- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Production plus imports minus exports plus or minus stock changes.

TABLE 6  
REPORTED CONSUMPTION OF SODA ASH IN THE UNITED STATES, BY END USE, BY QUARTERS<sup>1</sup>

(Thousand metric tons)

SIC code	End use	2004	2005				Total
			First quarter	Second quarter	Third quarter	Fourth quarter	
32	Glass:						
3221	Container	1,520	363	372	374	351	1,460
3211	Flat	1,130	269	289	291	277	1,130
3296	Fiber	283	69	72	70	74	284
3229	Other	188	43	46	47	42	179
	Total	3,120	744	779	782	745	3,050
281	Chemicals	1,620	405	432	428	416	1,680
284	Soaps and detergents	661	163	158	154	149	624
26	Pulp and paper	90	22	23	22	22	90
2899	Water treatment <sup>2</sup>	82	20	21	17	20	78
	Flue gas desulfurization	128	34	33	39	36	141
	Distributors	300	75	74	72	70	290
	Other	255	72	54	59	56	241
	Total domestic consumption <sup>3</sup>	6,260	1,540	1,570	1,570	1,510	6,200
	Exports <sup>4</sup>	4,610	1,220	1,280	1,190	1,180	4,870
	Canada	332	98	96	94	104	393
	Total industry sales <sup>5</sup>	10,900	2,750	2,860	2,760	2,690	11,100
	Total sales from plants	11,500	2,760	2,860	2,790	2,790	11,200
	Total production	11,000	2,680	2,790	2,770	2,720	11,000

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Includes soda ash equivalent from soda liquors and purge liquors sold to powerplant for water treatment. Sales of mine water are excluded.

<sup>3</sup>Imports reported by the producer/importer have been distributed into appropriate end-use categories listed above.

<sup>4</sup>As reported by producers. Includes Canada. Data may not necessarily agree with that reported by the U.S. Census Bureau for the same periods.

<sup>5</sup>Represents soda ash from domestic origin (production and inventory changes) and imports and for exports. Includes soda ash sold by coproducers and distributed by purchasers into appropriate end-use categories.

TABLE 7  
U.S. EXPORTS OF SODA ASH BY COUNTRY, IN 2005<sup>1,2</sup>

(Metric tons)

Country	January		February		March	
	U.S. Census		U.S. Census		U.S. Census	
	Bureau	PIERS	Bureau	PIERS	Bureau	PIERS
Argentina	1,400	(3)	14,700	11,300	8,500	(3)
Aruba	--	--	--	--	--	--
Australia	7,000	5,500	9,000	9,000	6,000	6,000
Belgium	--	--	20,000	10,200	--	10,000
Belize	--	--	--	--	--	--
Brazil	55,000	35,700	6,010	6,030	20,700	20,700
Canada <sup>4</sup>	35,100	35,100	34,200	34,200	40,900	40,900
Chile	26,100	27,300	8,280	27,800	30,800	57,100
China	--	9,500	12,200	12,000	15,000	15,000
Colombia	13,300	3,000	8,500	8,500	10,000	10,000
Costa Rica	--	--	--	--	4,200	4,200
Ecuador	--	--	--	--	5,000	5,000
Finland	--	--	17	17	--	--
France	--	1,000	--	--	5,710	5,710
Grenada	--	--	--	--	--	--
Guatemala	--	--	--	--	2,700	2,700
Indonesia	60,800	36,400	--	18,000	44,200	26,200
Ireland	--	10,000	--	19	--	37
Italy	--	2,500	44	16	--	16
Japan	10,400	7,000	45,800	45,800	40,000	40,000
Korea, Republic of	13,000	12,000	20,300	20,400	13,900	13,900
Malaysia	10,500	5,400	--	3	--	--
Mexico <sup>4</sup>	63,600	63,600	51,600	51,600	53,500	53,500
Netherlands	9,510	1,900	9,110	25,500	10,100	10,000
New Zealand	6,000	2,000	--	--	7,000	7,000
Pakistan	4	--	--	--	--	--
Panama	2,000	8,000	--	--	--	--
Peru	8,850	12,400	--	7,390	7,820	19,600
Philippines	--	--	14,000	14,000	--	--
Poland	--	--	--	--	--	--
Portugal	--	--	--	--	1,360	12,300
Russia	1,830	16,000	--	--	--	--
Saudi Arabia	13,000	18,100	--	--	14,000	14,000
South Africa	--	2,750	13,000	7,980	--	--
Spain	10,000	3,000	10,000	16	17,600	27,600
Taiwan	18,500	31,400	20,600	20,600	20,400	20,400
Thailand	16,500	12,100	598	20,500	19,900	--
United Arab Emirates	5,500	328	--	--	4,760	4,760
United Kingdom	--	--	--	--	--	--
Venezuela	--	--	32,100	28,100	4,000	11,500
Vietnam	--	--	--	--	735	735
Other <sup>2</sup>	--	7,690	--	85	--	84
Total	388,000	370,000	330,000	379,000	409,000	439,000

See footnotes at end of table.

TABLE 7--Continued  
U.S. EXPORTS OF SODA ASH BY COUNTRY, IN 2005<sup>1,2</sup>

(Metric tons)

Country	April		May		June	
	U.S. Census		U.S. Census		U.S. Census	
	Bureau	PIERS	Bureau	PIERS	Bureau	PIERS
Argentina	25,200	40,200	--	--	--	14,900
Aruba	--	--	2,680	--	--	--
Australia	7,010	--	7,010	14,000	7,010	7,010
Belgium	12,800	12,800	--	16	38,700	31,900
Belize	--	2	--	--	--	--
Brazil	58,200	52,100	21,700	21,700	34,600	34,700
Canada <sup>4</sup>	37,000	37,000	49,200	49,200	33,500	33,500
Chile	--	--	32,200	32,200	28,100	28,100
China	248	16	163	(3)	--	(3)
Colombia	9,250	12,200	10,900	10,900	750	11,300
Costa Rica	--	(3)	4,400	4,400	--	--
Ecuador	--	--	--	--	--	--
Finland	16	16	--	--	--	--
France	7,420	7,420	--	7	--	(3)
Grenada	--	--	--	--	--	--
Guatemala	--	--	5,000	5,000	--	--
Indonesia	17,500	17,500	27,100	27,100	--	--
Ireland	--	19	--	--	--	19
Italy	15	16	49	--	--	--
Japan	25,500	21,800	31,500	31,600	27,600	27,700
Korea, Republic of	15,600	15,800	15,500	15,600	--	2
Malaysia	30,500	31,500	--	11	27,300	27,300
Mexico <sup>4</sup>	96,100	96,100	66,100	66,100	65,600	65,600
Netherlands	10,000	10,100	19	61	10,200	10,100
New Zealand	6,010	--	--	6,010	--	--
Pakistan	--	--	--	--	--	--
Panama	--	(3)	--	1,890	--	--
Peru	--	--	--	21	6,870	6,870
Philippines	5,700	5,700	9,000	9,000	--	--
Poland	--	--	--	--	--	--
Portugal	--	--	--	21	--	--
Russia	--	--	401	--	--	--
Saudi Arabia	12,000	12,000	--	--	17,000	17,000
South Africa	--	--	6,540	6,580	6,560	6,550
Spain	12,900	12,900	34,900	34,900	12,000	12,000
Taiwan	26,200	26,300	15,100	15,100	20	21
Thailand	36,800	37,300	24,500	18,900	--	--
United Arab Emirates	4,000	4,000	--	--	5,000	5,010
United Kingdom	--	(3)	--	--	--	--
Venezuela	27,700	15,300	7,500	23,400	22,400	41,200
Vietnam	1,100	634	--	--	--	--
Other <sup>2</sup>	--	2,490	--	19	--	38
Total	485,000	471,000	371,000	394,000	343,000	381,000

See footnotes at end of table.

TABLE 7--Continued  
U.S. EXPORTS OF SODA ASH BY COUNTRY, IN 2005<sup>1,2</sup>

(Metric tons)

Country	July		August		September	
	U.S. Census		U.S. Census		U.S. Census	
	Bureau	PIERS	Bureau	PIERS	Bureau	PIERS
Argentina	--	18,400	--	18,000	--	16,000
Aruba	--	--	294	--	--	--
Australia	7,060	7,050	--	6,050	10,800	10,800
Belgium	--	--	9,950	9,950	100	10,000
Belize	23	2	--	--	--	--
Brazil	37,000	32,100	47,300	47,400	74,100	74,100
Canada <sup>4</sup>	37,300	37,300	31,700	31,700	36,000	36,000
Chile	--	27,500	27,500	--	30,500	29,200
China	7,000	7,000	--	(3)	6	(3)
Colombia	11,500	11,500	23,300	23,200	--	--
Costa Rica	3,500	3,500	4,400	4,400	--	--
Ecuador	--	4,000	4,500	4,500	--	--
Finland	--	--	17	17	--	--
France	49	3	7,010	--	--	4
Grenada	5	--	--	--	--	--
Guatemala	--	5,300	5,300	5	--	--
Indonesia	37,800	37,700	14,400	14,400	10,900	7,000
Ireland	--	--	249	--	--	--
Italy	49	49	131	196	--	--
Japan	28,900	28,900	16,000	16,000	9,000	9,020
Korea, Republic of	38,300	36,200	9,900	9,960	22,500	22,600
Malaysia	--	208	13,000	13,300	--	--
Mexico <sup>4</sup>	75,200	75,200	73,800	73,800	64,600	64,600
Netherlands	10,000	10,100	1,060	10,100	9,780	9,850
New Zealand	6,000	6,070	20	--	5,200	5,200
Pakistan	--	--	--	--	--	--
Panama	2,000	2,000	--	--	--	--
Peru	--	--	9,000	9,000	--	--
Philippines	8,000	8,000	--	--	7,000	7,000
Poland	--	--	17	--	--	--
Portugal	--	--	8,030	5,030	--	--
Russia	--	--	--	--	--	--
Saudi Arabia	--	--	14,000	8,000	--	--
South Africa	--	(3)	6,530	6,530	--	1
Spain	16	16	17,500	10,000	--	--
Taiwan	20,200	20,200	17,800	17,500	22,100	22,100
Thailand	19,500	19,200	--	--	9,500	9,500
United Arab Emirates	--	--	4,000	3,000	--	--
United Kingdom	--	--	1	--	--	--
Venezuela	40	--	26,700	45,900	--	--
Vietnam	98	98	1,000	1,000	--	--
Other <sup>2</sup>	--	2,850	--	45	--	19
Total	350,000	401,000	394,000	389,000	312,000	333,000

See footnotes at end of table.



TABLE 7--Continued  
U.S. EXPORTS OF SODA ASH BY COUNTRY, IN 2005<sup>1, 2</sup>

(Metric tons)

Country	October		November		December		Total	
	U.S. Census		U.S. Census		U.S. Census		U.S. Census	
	Bureau	PIERS	Bureau	PIERS	Bureau	PIERS	Bureau	PIERS
Argentina	--	(3)	--	30,300	--	18,500	49,800	168,000
Aruba	--	--	--	--	--	--	2,970	--
Australia	9,950	10,000	12,500	12,500	16,500	16,500	99,900	105,000
Belgium	15,300	5,000	26,000	25,500	26,900	17,000	150,000	132,000
Belize	6	--	--	--	--	--	29	4
Brazil	36,000	45,000	14,700	14,700	44,500	8,520	450,000	393,000
Canada <sup>4</sup>	37,500	37,500	35,500	35,500	32,500	32,500	441,000	441,000
Chile	23,900	23,900	5	--	27,100	27,100	234,000	280,000
China	--	5	60,800	57,100	--	275	95,400	101,000
Colombia	--	--	27,100	27,000	--	--	114,000	118,000
Costa Rica	--	--	--	2,140	--	--	16,500	18,600
Ecuador	--	--	--	--	--	--	9,500	13,500
Finland	--	--	--	--	17	--	67	50
France	--	6	--	7	12,200	12,200	32,400	26,400
Grenada	--	--	--	--	--	--	5	--
Guatemala	5,000	5,020	--	--	5	--	18,000	18,000
Indonesia	26,900	22,400	--	1	26,200	26,200	266,000	233,000
Ireland	--	19	--	19	--	--	249	10,100
Italy	--	--	--	--	--	--	288	2,790
Japan	19,300	19,500	22,300	22,400	26,300	26,400	302,000	296,000
Korea, Republic of	12,500	11,300	11,800	11,300	14,600	13,800	188,000	183,000
Malaysia	--	--	33,000	53,000	--	5	114,000	131,000
Mexico <sup>4</sup>	69,700	69,700	58,200	58,200	72,400	72,400	811,000	811,000
Netherlands	10,000	10,200	9,630	9,620	13,000	23,100	102,000	131,000
New Zealand	6,000	6,000	--	--	--	--	36,200	32,300
Pakistan	--	--	--	--	--	--	4	--
Panama	2,000	(3)	--	(3)	--	--	6,000	11,900
Peru	--	--	--	--	--	--	32,500	55,300
Philippines	--	(3)	7,430	13,100	--	--	51,100	56,800
Poland	223	--	--	--	--	(3)	240	(3)
Portugal	5,000	5,010	--	--	--	--	14,400	22,400
Russia	--	--	--	19	--	39	2,230	16,100
Saudi Arabia	26,000	26,000	--	--	--	20,500	96,000	116,000
South Africa	--	8,570	17,100	5,860	--	17	49,800	44,800
Spain	17,000	17,000	3,190	7,010	23,000	18,000	158,000	143,000
Taiwan	--	(3)	12,000	12,000	22,000	21,900	195,000	208,000
Thailand	--	--	14,400	14,400	--	--	142,000	132,000
United Arab Emirates	6,000	6,000	--	--	--	6,540	29,300	29,600
United Kingdom	--	--	--	--	--	17	1	17
Venezuela	28,000	27,900	11,600	11,600	6,500	33,300	166,000	238,000
Vietnam	--	--	--	--	--	--	2,930	2,470
Other <sup>2</sup>	--	31	--	129	--	69	--	13,600
Total	356,000	356,000	377,000	424,000	364,000	395,000	4,480,000	4,730,000

-- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>The following countries were listed in the Journal of Commerce PIERS trade service database but no records were contained in the U.S. Census Bureau data: (Angola, The Bahamas, Bahrain, Congo, Dominican Republic, El Salvador, Germany, Ghana, Guyana, Haiti, Hong Kong, Honduras, Netherlands Antilles, Singapore, Sweden, Trinidad and Tobago, Turkey, Turks and Caicos Islands, and Uruguay). PIERS export totals for each of these is included with "Other."

<sup>3</sup>Less than 1/2 unit.

<sup>4</sup>Data not included in PIERS database, U.S. Census Bureau data used.

Source: U.S. Census Bureau and the Journal of Commerce PIERS trade service.

TABLE 8  
U.S. EXPORTS OF SODA ASH BY COUNTRY, IN 2005<sup>1</sup>

(Metric tons)

Country	January	February	March	April	May	June
Argentina	1,400	14,700	8,500	25,200	--	14,900 <sup>r</sup>
Aruba	--	--	--	--	2,680	--
Australia	7,000	9,000	6,000	7,010	7,010	7,010
Belgium	--	20,000	--	12,800	--	38,700
Belize	--	--	--	--	--	--
Brazil	55,000	6,010	20,700	58,200	21,700	34,600
Canada	35,100	34,200	40,900	37,000	49,200	33,500
Chile	26,100	8,280	30,800	--	32,200	28,100
China	--	12,200	15,000	248	163	--
Colombia	13,300	8,500	10,000	9,250	10,900	750
Costa Rica	--	--	4,200	--	4,400	--
Ecuador	--	--	5,000	--	--	--
Finland	--	17	--	16	--	--
France	--	--	5,710	7,420	--	--
Grenada	--	--	--	--	--	--
Guatemala	--	--	2,700	--	5,000	--
Indonesia	60,800	--	44,200	17,500	27,100	--
Ireland	--	--	--	--	--	--
Italy	--	44	--	15	49	--
Japan	10,400	45,800	40,000	25,500	31,500	27,600
Korea, Republic of	13,000	20,300	13,900	15,600	15,500	--
Malaysia	10,500	--	--	30,500	--	27,300
Mexico	63,600	51,600	53,500	96,100	66,100	65,600
Netherlands	9,510	9,110	10,100	10,000	19	10,200
New Zealand	6,000	--	7,000	6,010	--	--
Pakistan	4	--	--	--	--	--
Panama	2,000	--	--	--	--	--
Peru	8,850	--	7,820	--	--	6,870
Philippines	--	14,000	--	5,700	9,000	--
Poland	--	--	--	--	--	--
Portugal	--	--	1,360	--	--	--
Russia	1,830	--	--	--	401	--
Saudi Arabia	13,000	--	14,000	12,000	--	17,000
South Africa	--	13,000	--	--	6,540	6,560
Spain	10,000	10,000	17,600	12,900	34,900	12,000
Taiwan	18,500	20,600	20,400	26,200	15,100	20
Thailand	16,500	598	19,900	36,800	24,500	--
United Arab Emirates	5,500	--	4,760	4,000	--	5,000
United Kingdom	--	--	--	--	--	--
Venezuela	--	32,100	4,000	27,700	23,400 <sup>r</sup>	41,200 <sup>r</sup>
Vietnam	--	--	735	1,100	--	--
Total	388,000	330,000	409,000	485,000	387,000 <sup>r</sup>	377,000 <sup>r</sup>

See footnotes at end of table.

TABLE 8--Continued  
U.S. EXPORTS OF SODA ASH BY COUNTRY, IN 2005<sup>1</sup>

(Metric tons)

Country	July	August	September	October	November	December	Total	% of total
Argentina	18,400 <sup>r</sup>	18,000 <sup>r</sup>	16,000 <sup>r</sup>	--	30,300 <sup>r</sup>	18,500 <sup>r</sup>	166,000 <sup>r</sup>	4 <sup>r</sup>
Aruba	--	294	--	--	--	--	2,970	(2)
Australia	7,060	--	10,800	9,950	12,500	16,500	99,900	2
Belgium	--	9,950	100	15,300	26,000	26,900	150,000	3
Belize	23	--	--	6	--	--	29	(2)
Brazil	37,000	47,300	74,100	36,000	14,700	44,500	450,000	10
Canada	37,300	31,700	36,000	37,500	35,500	32,500	441,000	9
Chile	--	27,500	30,500	23,900	5	27,100	234,000	5
China	7,000	--	6	--	60,800	--	95,400	2
Colombia	11,500	23,300	--	--	27,100	--	114,000	2
Costa Rica	3,500	4,400	--	--	--	--	16,500	(2)
Ecuador	--	4,500	--	--	--	--	9,500	(2)
Finland	--	17	--	--	--	17	67	(2)
France	49	7,010	--	--	--	12,200	32,400	1
Grenada	5	--	--	--	--	--	5	(2)
Guatemala	--	5,300	--	5,000	--	5	18,000	(2)
Indonesia	37,800	14,400	10,900	26,900	--	26,200	266,000	6
Ireland	--	249	--	--	--	--	249	(2)
Italy	49	131	--	--	--	--	288	(2)
Japan	28,900	16,000	9,000	19,300	22,300	26,300	302,000	6
Korea, Republic of	38,300	9,900	22,500	12,500	11,800	14,600	188,000	4
Malaysia	--	13,000	--	--	33,000	--	114,000	2
Mexico	75,200	73,800	64,600	69,700	58,200	72,400	811,000	17
Netherlands	10,000	1,060	9,780	10,000	9,630	13,000	102,000	2
New Zealand	6,000	20	5,200	6,000	--	--	36,200	1
Pakistan	--	--	--	--	--	--	4	(2)
Panama	2,000	--	--	2,000	--	--	6,000	(2)
Peru	--	9,000	--	--	--	--	32,500	1
Philippines	8,000	--	7,000	--	7,430	--	51,100	1
Poland	--	17	--	223	--	--	240	(2)
Portugal	--	8,030	--	5,000	--	--	14,400	(2)
Russia	--	--	--	--	--	--	2,230	(2)
Saudi Arabia	--	14,000	--	26,000	--	--	96,000	2
South Africa	--	6,530	--	--	17,100	--	49,800	1
Spain	16	17,500	--	17,000	3,190	23,000	158,000	3
Taiwan	20,200	17,800	22,100	--	12,000	22,000	195,000	4
Thailand	19,500	--	9,500	--	14,400	--	142,000	3
United Arab Emirates	--	4,000	--	6,000	--	--	29,300	1
United Kingdom	--	1	--	--	--	--	1	(2)
Venezuela	40	45,900	--	28,000	11,600	33,300 <sup>r</sup>	247,000 <sup>r</sup>	5 <sup>r</sup>
Vietnam	98	1,000	--	--	--	--	2,930	(2)
Total	368,000 <sup>r</sup>	432,000 <sup>r</sup>	328,000 <sup>r</sup>	356,000	408,000 <sup>r</sup>	409,000 <sup>r</sup>	4,680,000 <sup>r</sup>	100

<sup>r</sup>Revised. -- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Less than 1/2 unit.

Source: U.S. Census Bureau, as adjusted by the U.S. Geological Survey using data and information from the Journal of Commerce PIERs trade service and industry sources.