

Mineral Industry Surveys

For information, contact:

Rob Crangle, Gypsum Commodity Specialist
National Minerals Information Center
Telephone: (703) 648-6410
Email: rcrangle@usgs.gov

Susan M. Weaver (Data)
Telephone: (703) 648-7979
Email: sweaver@usgs.gov
Internet: <https://www.usgs.gov/centers/national-minerals-information-center>

GYPSUM IN THE SECOND QUARTER 2023

Producers mined 5.51 million metric tons (Mt) of gypsum during the second quarter of 2023. That was 3% more than the first quarter of 2023 and essentially unchanged from the amount of the second quarter of 2022. Synthetic gypsum utilized was estimated to be 3.63 Mt in the second quarter of 2023, which was unchanged from those in the first quarter of 2023 and the second quarter of 2022. During the second quarter of 2023, synthetic gypsum accounted for approximately 32% of the 11.3-Mt total supply of gypsum in the United States (table 1). Both mined and synthetic gypsum are used as raw material for wallboard. The wallboard industry is the leading domestic consumer of gypsum.

Calcined gypsum production during the second quarter of 2023 was 4.79 Mt, which was slightly more than that of the first quarter of 2023 and essentially unchanged from the second quarter of 2022 (table 1). Sales of board products were 3.96 Mt, equivalent to approximately 635 million square meters (6.85 billion square feet), slightly more than those of the first quarter of 2023, and 5% less than those of the second quarter of 2022 (table 2).

Sales of uncalcined gypsum in the second quarter of 2023, primarily for portland cement and agricultural uses, were estimated to be 4.95 Mt, essentially unchanged from those of the first quarter of 2023 and unchanged from those of the second quarter of 2022 (table 2).

The occurrence of quarterly fluctuations is not unusual in the production and consumption of gypsum, synthetic gypsum, and calcined gypsum. These variances are often the result of differences in weather conditions, which can impede or encourage construction activities, coupled with market demands that are often driven by residential and commercial building activity.

According to the U.S. Census Bureau, imports of crude gypsum in the second quarter of 2023 were 2.20 Mt, 20% more

than those of the first quarter of 2023 and 8% more than those of the second quarter of 2022. Spain was the leading source with 35% of total crude imports, followed by Mexico with 29%, and Canada with 28% (table 3).

According to the U.S. Census Bureau, gypsum wallboard imports from 8 countries or localities in the second quarter of 2023 were 215,000 t, equivalent to about 23.9 million square meters (257 million square feet). These imports were 4% more than those of the first quarter of 2023 and 4% more than those of the second quarter of 2022. Mexico was the source of 96% of wallboard imports, followed by Canada with 3%.

Wallboard exports to 31 countries or localities in the second quarter of 2023 were 179,000 t, equivalent to 19.9 million square meters (214 million square feet). These were slightly less than those of the first quarter of 2023 and 7% more than those of the second quarter of 2022. Most wallboard exports were shipped to Canada, which accounted for 95% of the total.

Changes in wallboard import and export data are frequently amplified as a result of relatively small quantities of traded material.

All percentages in this report were calculated based on unrounded data.

List services and web feed subscribers are the first to receive notification of new USGS minerals information publications and data releases. For more information on how to subscribe, visit:
<https://www.usgs.gov/centers/national-minerals-information-center/minerals-information-publication-list-services>.

TABLE 1
GYPSUM SUPPLY^{1,2}

(Metric tons)

	2022				2023		
	2d quarter	3d quarter	4th quarter	1st quarter– 4th quarter	1st quarter	2d quarter	1st quarter– 2d quarter
Crude:							
Mined ³	5,480,000	5,710,000 ^r	5,950,000	22,300,000	5,360,000 ^r	5,510,000	10,900,000
Imported ⁴	2,040,000	1,630,000 ^r	1,780,000	6,870,000 ^r	1,840,000	2,200,000	4,050,000
Synthetic gypsum ⁵	3,630,000 ^r	3,630,000 ^r	3,630,000 ^r	14,500,000 ^r	3,630,000 ^r	3,630,000	7,250,000
Total supply	11,100,000 ^r	11,000,000 ^r	11,400,000 ^r	43,700,000 ^r	10,800,000 ^r	11,300,000	22,200,000
Crude, exported ⁴	12,400	8,660 ^r	8,950 ^r	39,000 ^r	10,500	11,500	22,000
Consumption	11,100,000 ^r	11,000,000 ^r	11,300,000 ^r	43,700,000 ^r	10,800,000 ^r	11,300,000	22,100,000
Calcined:							
Produced	4,750,000	4,820,000	4,860,000	18,700,000	4,680,000	4,790,000	9,470,000
Imported ⁶	8,350	7,340	7,930 ^r	29,200	10,700	14,900	25,500
Total supply	4,760,000	4,830,000	4,860,000	18,700,000	4,690,000	4,810,000	9,500,000
Exported ⁶	25,900 ^r	27,400	27,200	106,000 ^r	29,300	34,800	64,100
Consumption	4,730,000	4,800,000	4,840,000	18,600,000	4,660,000	4,770,000	9,430,000

^rRevised.

¹Includes data from the Gypsum Association.

²Data are rounded to no more than three significant digits; may not add to totals shown.

³Includes estimated data.

⁴Import and export data are for “Gypsum; anhydrite,” Harmonized Tariff Schedule 2520.10.0000.

⁵Estimated, based on American Coal Ash Association data for FGD gypsum used.

⁶Import and export data are for “Plaster,” Harmonized Tariff Schedule 2520.20.0000.

TABLE 2
GYPSUM SOLD OR USED BY PRODUCERS, BY USE^{1,2}

(Metric tons, unless otherwise specified)

	2022				2023		
	2d quarter	3d quarter	4th quarter	1st quarter– 4th quarter	1st quarter	2d quarter	1st quarter– 2d quarter
Uncalcined: ^{6, 3}							
Portland and masonry cement	1,375,000	1,375,000	1,375,000 ^r	5,500,000 ^r	1,400,000	1,400,000	2,800,000
Agriculture and other ⁴	3,600,000	3,600,000	3,600,000	14,400,000 ^r	3,550,000	3,550,000	7,100,000
Total	4,975,000	4,975,000	4,975,000 ^r	19,900,000 ^r	4,950,000	4,950,000	9,900,000
Calcined:							
Board products ⁵	4,180,000	4,100,000	3,850,000	15,900,000	3,860,000	3,960,000	7,820,000
Plaster	21,800	19,100	17,100	75,600	19,700	19,900	39,600
Total	4,200,000	4,120,000	3,870,000	16,000,000	3,880,000	3,980,000	7,860,000
Board products: (thousand square feet) ⁶							
Regular board	4,290,000	4,220,000	3,850,000	16,300,000	3,600,000	3,640,000	7,240,000
Type X board	2,190,000	2,120,000	2,030,000	8,290,000	2,160,000	2,300,000	4,450,000
Other	925,000	921,000	903,000	3,620,000	946,000	912,000	1,860,000
Total supply	7,400,000	7,270,000	6,780,000	28,200,000	6,700,000	6,850,000	13,500,000

⁶Estimated. ^rRevised.

¹Includes data from the Gypsum Association.

²Data are rounded to no more than three significant digits; may not add to totals shown.

³Does not include synthetic gypsum from electric powerplants.

⁴Includes gypsum used for infrastructure purposes, unspecified uses, and estimated under-reported amount.

⁵Includes weight of paper and other materials.

⁶One square meter equals 10.78 square feet.

TABLE 3
CRUDE GYPSUM IMPORTED FOR CONSUMPTION^{1, 2}

(Metric tons)

Country or locality	2022				2023		
	2d quarter	3d quarter	4th quarter	1st quarter– 4th quarter	1st quarter	2d quarter	1st quarter– 2d quarter
Canada	657,000	501,000	557,000	2,120,000	484,000	627,000	1,110,000
China	131	466	91	821	80	41	121
Dominican Republic	19,400	--	7,520	34,400	--	9,130	9,130
Germany	18	3	21	42	18	244	262
India	--	--	2,840	2,840	1	--	1
Mexico	566,000	569,000 ^r	479,000	1,980,000 ^r	455,000	650,000	1,100,000
Morocco	144	288	320	923	101	25	126
Spain	769,000	537,000	611,000	2,510,000	811,000	782,000	1,590,000
Taiwan	2	--	2	4	23	--	23
Thailand	45	48	--	103	--	80	80
Turkey	29,500	20,300	123,000	225,000	58,600	136,000	195,000
United Arab Emirates	--	--	--	--	34,500	--	34,500
United Kingdom	20	91	--	116	132	--	132
Other	1	15 ^r	19	35 ^r	--	--	--
Total	2,040,000	1,630,000 ^r	1,780,000	6,870,000 ^r	1,840,000	2,200,000	4,050,000

^rRevised. -- Zero.

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

²May include revisions to previously published data.

Source: U.S. Census Bureau.

TABLE 4
CRUDE GYPSUM IN THE UNITED STATES^{1, 2}

(Metric tons)

Period	Consumption ³	Production ⁴	Imports ⁵	Exports ⁵
2022:				
2d quarter	7,510 ^r	5,480	2,040	12
3d quarter	7,330 ^r	5,710 ^r	1,630 ^r	9
4th quarter	7,720	5,950	1,780	9
1st quarter–4th quarter	29,200	22,300	6,870 ^r	39
2023:				
1st quarter	7,200 ^r	5,360 ^r	1,840	10
2d quarter	7,700	5,510	2,200	12
1st quarter–2d quarter	14,900	10,900	4,050	22

^rRevised.

¹Excludes synthetic gypsum.

²Data are rounded to no more than three significant digits; may not add to totals shown.

³Consumption calculated by adding production and imports and subtracting exports. Quarterly inventory changes are not included.

⁴Production data derived from semiannual gypsum canvasses of non-wallboard producers, annual canvass of all producers, and quarterly data provided by the Gypsum Association.

⁵Data from U.S. Census Bureau.

TABLE 5
SALES OF GYPSUM BOARD PRODUCTS, BY SALES REGIONS IN 2023^{1,2}

(Thousand square feet)³

	New England	Middle Atlantic	E. North Central	W. North Central	South Atlantic	E. South Central	W. South Central	Mountain	Pacific	Exports	Total
2d quarter:											
Veneer base	53,100	1,630	9,600	198	4,240	--	82	122	1,090	--	70,100
Sheathing	3,560	9,520	6,590	7,630	19,300	4,710	21,500	8,970	22,900	15,000	120,000
Regular gypsum board	60,400	246,000	337,000	208,000	1,170,000	308,000	616,000	308,000	313,000	75,900	3,640,000
Type X gypsum board	68,000	240,000	250,000	167,000	471,000	100,000	262,000	286,000	411,000	40,000	2,300,000
Liner panel	2,060	8,900	4,180	1,790	36,500	3,150	6,160	6,290	2,870	927	72,800
Predecorated board	465	1,690	2,100	1,010	2,800	767	2,020	669	1,420	301	13,200
5/16 Mobile home board	--	1,890	3,570	--	849	4,280	511	--	--	62	11,200
Water/moisture resistant board	27,700	125,000	58,500	29,000	165,000	30,700	65,700	36,300	65,000	22,600	625,000
Total	215,000	634,000	671,000	414,000	1,870,000	452,000	974,000	647,000	818,000	155,000	6,850,000
1st quarter–2d quarter:											
Veneer base	105,000	3,700	20,500	544	9,410	--	82	197	2,010	24	142,000
Sheathing	7,020	22,300	14,500	15,400	38,500	10,100	40,800	18,300	46,500	37,200	251,000
Regular gypsum board	123,000	514,000	710,000	435,000	2,350,000	612,000	1,160,000	627,000	564,000	144,000	7,240,000
Type X gypsum board	134,000	477,000	499,000	323,000	943,000	191,000	513,000	548,000	746,000	77,400	4,450,000
Liner panel	3,480	17,100	8,650	2,760	60,000	6,120	11,300	11,300	5,920	1,680	128,000
Predecorated board	1,210	3,300	4,000	1,870	6,190	1,810	4,200	1,800	2,680	619	27,700
5/16 Mobile home board	--	3,870	7,840	--	1,530	7,950	1,130	--	--	90	22,400
Water/moisture resistant board	55,600	254,000	122,000	60,100	346,000	63,000	136,000	76,900	125,000	48,500	1,290,000
Total	431,000	1,300,000	1,390,000	839,000	3,750,000	892,000	1,870,000	1,280,000	1,490,000	310,000	13,500,000

-- Zero.

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

²Sales region equivalent to U.S. Census Bureau Geographic Division as follows: New England (CT, MA, ME, NH, RI, VT); Middle Atlantic (NJ, NY, PA); East North Central (IL, IN, MI, OH, WI); West North Central (IA, KS, MN, MO, ND, NE, SD); South Atlantic (DC, DE, FL, GA, MD, NC, SC, VA, WV); East South Central (AL, KY, MS, TN); West South Central (AR, LA, OK, TX); Mountain (AZ, CO, ID, MT, NM, NV, UT, WY); Pacific (AK, CA, HI, OR, WA).

³One square meter equals 10.78 square feet.

Source: Gypsum Association.