

# Mineral Industry Surveys

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## TIN IN APRIL, MAY, AND JUNE 2009

Domestic consumption of primary tin in the second quarter of 2009 was estimated to be 5,520 metric tons (t), compared with 5,700 t in the first quarter of 2009 and 5,810 t in the second quarter of 2008. Imports of refined tin were 9,420 t in the second quarter of 2009 and 8,170 t in the second quarter of 2008. Peru, Bolivia, and Indonesia, in decreasing order, were the leading sources of tin imports in the first half of 2009.

The Platts Metals Week average composite price of tin in June 2009 was \$9.25 per pound compared with \$13.40 per pound in June 2008.

According to provisional data from China's National Bureau of Statistics, refined tin production continued to recover in April. April 2009 production was reported to be 12,470 t, up 8.5% compared with that in April 2008. This was the first month in 2009 that output was higher than that of the comparable month in 2008. Cumulative production in January through April, at 33,000 t, was still 20% lower than that in the first 4 months of 2008. The increase reflected improved demand and raw material availability compared with that of the first quarter of 2009. Concentrate supply improved as a result of the reopening of small mines (CRU International Ltd., 2009a).

Nanshan Tin Co. Ltd. commissioned a new tin smelter in Nankang Industrial Zone, Jiangxi Province, China, on April 9. The smelter has a design capacity of 10,000 metric tons per year of refined tin and was constructed for \$22 million. The startup took place at a time when Chinese tin smelters were struggling to obtain sufficient raw materials owing to shortage of scrap. However, Nanshan Tin was reported to have a business relationship with a Jiangxi Province mining firm, which was likely to provide part of its concentrate feed (Metals Place, 2009).

Tin production in Indonesia declined during 2009. Independent tin smelters reported continuing problems in obtaining sufficient supplies of tin ore. The PT Bangka-Belitung Timah Sejahtera tin smelter was operating 30% to 40% below its capacity of 5,000 to 6,000 metric tons per month of refined tin. PT Koba Tin was forced to shut down two gravel pump units after they were flooded following heavy rains in May, and they were expected to remain out of operation until July. As a result of these problems, Koba may fall short of its 9,000-t production target in 2009 (CRU International Ltd., 2009b).

The Metals X Ltd. (East Perth, Western Australia, Australia) tin mine in Tasmania produced 1,440 t of tin-in-concentrate in the first quarter of 2009, an increase of 61% from that in the prior quarter. The mill was fed with tin ore from two mines—the Renison underground mine and the nearby Mt. Bichoff open pit mine. The company was focused on boosting production from the Renison Mine, where Metals X expected to complete a feasibility study on the treatment of Renison tailings by the middle of 2009 (CRU International Ltd., 2009a).

### Update

On December, 18, 2009, the Platts Metals Week composite price for tin was \$9.61 per pound.

### References Cited

- CRU International Ltd., 2009a, CRU Week in the News: CRU International Ltd., May 7. (Accessed May 7, 2009, via <http://www.crumonitor.com>.)  
CRU International Ltd., 2009b, CRU Week in the News: CRU International Ltd., May 14. (Accessed May 14, 2009, via <http://www.crumonitor.com>.)  
Metals Place, 2009, New Chinese tin smelter starts up: Metals Place, May 4. (Accessed May 12, 2009, at <http://metalsplace.com/news/articles/27403/new-chinese-tin-smelter-starts-up/>.)

TABLE 1  
SALIENT TIN STATISTICS<sup>1</sup>

(Metric tons, unless otherwise noted)

	2009					
	2008 <sup>P</sup>	March	April	May	June	January- June
Production, secondary <sup>6, 2</sup>	11,900	994	994	994	994	5,960
Consumption:						
Primary	21,100	1,900	1,880	1,830	1,810	11,200
Secondary	10,800	710	693	695	711	4,200
Imports for consumption, metal	36,300	3,500	2,610	4,560	2,250	18,400
Exports, metal	9,800	340	206	141	124	1,560
Stocks at end of period	XX	7,640	7,620	7,640	7,570	XX
Prices (average cents per pound): <sup>3</sup>						
Metals Week composite <sup>4</sup>	1,128.97	668.86	725.34	849.13	924.85	XX
Metals Week New York dealer	864.53	509.22	559.00	648.97	704.72	XX
London, standard grade, cash	839.10	483.74	531.50	624.31	678.74	XX
Kuala Lumpur	837.70	513.15	518.10	618.72	679.87	XX

<sup>6</sup>Estimated. <sup>P</sup>Preliminary. XX Not applicable.

<sup>1</sup>Data are rounded to no more than three significant digits, except prices.

<sup>2</sup>Includes tin recovered from alloys and tinplate. The detinning of tinplate (coated steel) yields only a small part of the total.

<sup>3</sup>Source: Platts Metals Week.

<sup>4</sup>The Metals Week composite price is a calculated formula, not a market price, that includes fixed and finance charges and a risk factor. It is normally substantially higher than other tin prices.

TABLE 2  
METALS WEEK COMPOSITE PRICE<sup>1</sup>

(Cents per pound)

Period	High	Low	Average
2008	1,529.29	630.41	1,128.97
2009:			
January	748.18	688.67	711.90
February	712.54	670.97	692.57
March	698.72	647.98	668.86
April	781.18	661.48	725.34
May	874.60	785.83	849.13
June	970.28	891.14	924.85

<sup>1</sup>The Metals Week composite price is a calculated formula, not a market price, that includes fixed and finance charges and a risk factor. It is normally substantially higher than other tin prices.

Source: Platts Metals Week.

TABLE 3  
TINPLATE PRODUCTION AND SHIPMENTS IN THE UNITED STATES<sup>1</sup>

(Metric tons, unless otherwise noted)

Period	Tinplate waste (waste, strips, cobble, etc.) (gross weight)	Tinplate (all forms)			Shipments <sup>2</sup>
		Gross weight	Tin content	Tin per metric ton of plate (kilograms)	
2008	30,900	2,280,000	6,690	2.9	1,770,000
2009:					
January	1,440	118,000	562	4.8	103,000
February	1,170	86,500	523	6.0	94,400
March	1,350	96,000	547	5.7	107,000
April	372	87,900	527	6.0	122,000
May	402	78,600	479	6.1	NA
June	508	73,600	452	6.1	NA

NA Not available.

<sup>1</sup>Data are rounded to no more than three significant digits.

<sup>2</sup>Source: American Iron and Steel Institute monthly publication.

TABLE 4  
U.S. TIN IMPORTS FOR CONSUMPTION AND EXPORTS<sup>1</sup>

(Metric tons)

Country or product	2008	2009				January- June
		March	April	May	June	
<b>Imports:</b>						
Metal (unwrought tin):						
Bolivia	4,980	1,160	740	186	237	3,040
Brazil	1,570	326	100	225	75	951
China	2,380	79	98	175	95	564
Indonesia	2,000	510	690	686	--	2,030
Malaysia	1,740	--	30	45	--	90
Peru	20,900	1,280	943	3,130	1,690	11,200
Singapore	706	118	--	51	154	323
Thailand	1,670	--	--	--	--	15
United Kingdom	225	--	--	--	--	--
Other	152	23	7	59	--	109
<b>Total</b>	<b>36,300</b>	<b>3,500</b>	<b>2,610</b>	<b>4,560</b>	<b>2,250</b>	<b>18,400</b>
Other (gross weight):						
Alloys	1,720	65	336	88	98	762
Bars and rods	4,190	219	278	239	222	1,390
Foil, tubes, pipes	97	2	13	3	3	36
Plates, sheets, strip	1,150	26	317	(2)	1	362
Waste and scrap	23,300	5,700	7,430	9,040	11,100	40,900
Miscellaneous	2,940	114	310	178	180	1,080
<b>Total</b>	<b>33,400</b>	<b>6,130</b>	<b>8,680</b>	<b>9,540</b>	<b>11,600</b>	<b>44,500</b>
Exports (metal)	9,800	340	206	141	124	1,560

-- 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 ½ unit.

Source: U.S. Census Bureau.

TABLE 5  
CONSUMPTION OF TIN IN THE UNITED STATES, BY FINISHED PRODUCT<sup>1</sup>

(Metric tons of contained tin)

Product	2008 <sup>p</sup>	2009												January- June
		March			April			May			June			
		Primary	Secondary	Total										
Alloys (miscellaneous) <sup>2</sup>	1,800	131	W	131	130	W	130	129	W	129	132	W	132	846
Babbitt	459	18	W	18	205									
Bar tin and anodes	218	16	--	16	16	--	16	16	--	16	16	--	16	96
Bronze and brass	2,250	72	87	159	71	87	158	72	88	160	74	88	162	981
Chemicals	2,940	242	W	242	1,490									
Collapsible tubes and foil	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Solder	5,750	197	277	474	197	277	475	200	277	477	198	277	475	2,840
Tinning	322	25	--	25	28	--	28	25	--	25	28	--	28	156
Tinplate <sup>3</sup>	6,690	547	--	547	527	--	527	479	--	479	452	--	452	3,090
Tin powder	227	18	W	18	113									
White metal <sup>4</sup>	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Other	389	28	47	75	29	30	59	29	30	59	33	47	80	193
Total reported	21,100	1,300	410	1,710	1,280	393	1,670	1,230	395	1,620	1,210	411	1,620	10,000
Estimated undistributed consumption <sup>5</sup>	10,800	600	300	900	600	300	900	600	300	900	600	300	900	5,400
Grand total	31,900	1,900	710	2,610	1,880	693	2,570	1,830	695	2,520	1,810	711	2,520	15,400

<sup>p</sup>Preliminary. W Withheld to avoid disclosing company proprietary data; included with "Other." -- Zero.

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

<sup>2</sup>Includes terne metal.

<sup>3</sup>Includes secondary pig tin and tin components of tinning chemical solutions.

<sup>4</sup>Includes pewter, britannia metal, and jewelers' metal.

<sup>5</sup>Estimated consumption of plants reporting on an annual basis.