



## APRIL TIN MARKET REVIEW

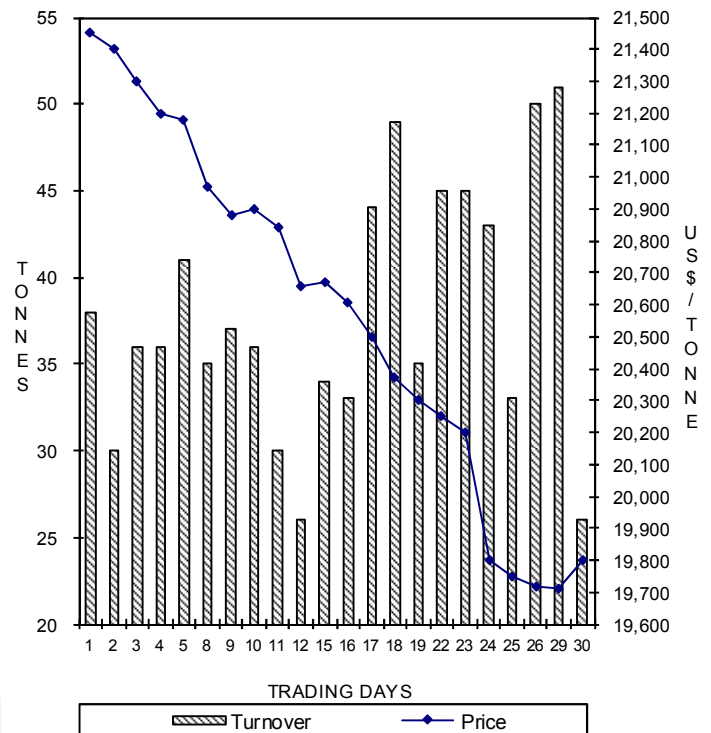
### Kuala Lumpur Tin Market (KLTM)

Tin trading on the KLTM in April was bearish, in tandem with tin trading on the London Metal Exchange (LME). Tin prices were very much influenced by the weakening of the global economy. Although bearish, tin prices during the trading month stayed above the US\$19,600 per tonne resistance level.

The local physical tin market opened trading at US\$21,450 per tonne, the highest price level for the month. Thereafter, tin prices declined towards end of the trading week due to weak demand.

The market continued to decline during the first two trading days of the second trading week. It rebounded slightly the subsequent day before declining towards end of the trading week.

**KLTM PRICES  
APRIL 2019**



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Tin prices inched-up slightly at the opening of the third trading week due to a technical correction. Thereafter, they declined towards end of the trading week due to weak demand and in line with the downward momentum of tin prices on the LME.

During the first two days of the fourth trading week, tin prices slid slightly before losing their grip dipping much lower towards end of the week. Sentiment continued to be sluggish as sellers dominated the market.

The market opened the short final trading week at US\$19,710 per tonne on 29<sup>th</sup> April, the lowest price level for the month. It rebounded to close the trading month of April at US\$19,800 per tonne.

The average tin price for the month of April declined to US\$20,528 per tonne from US\$21,317 per tonne in March. There were 22 days of trading on the KLTM in April.

The average daily turnover recorded for the month of April was 38 tonnes, lower than the March average of 50 tonnes. The highest daily turnover recorded for the month was 51 tonnes and the lowest was 26 tonnes. ♦

## London Metal Exchange (LME)

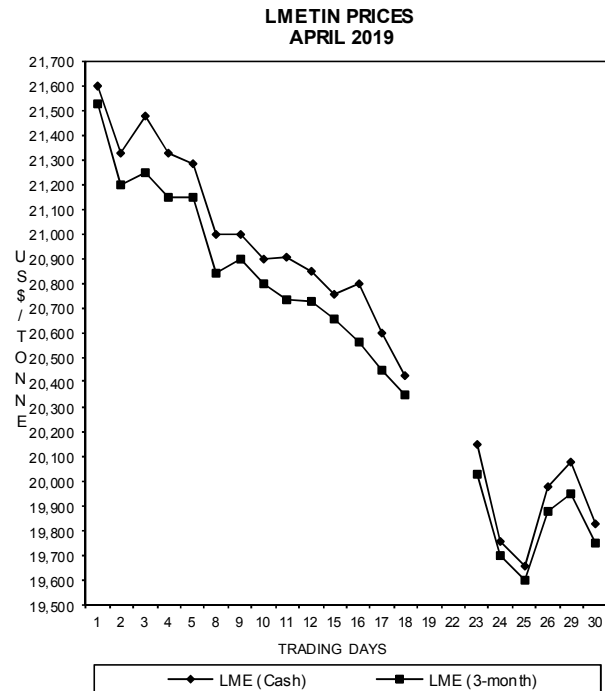
Tin metal trading on the LME in April was bearish. Trading of the metal during the month was within a price range of US\$19,655 to US\$21,600 per tonne for cash tin, while the 3-month tin was traded between US\$19,600 to US\$21,525 per tonne. April's average LME cash and 3-month tin prices were US\$20,684 and US\$20,560 per tonne, respectively.

Tin prices opened the first trading week at US\$21,600 per tonne for cash tin and US\$21,525 per tonne for 3-month tin, their respective highest level for the month. They softened the subsequent day before rebounding during mid-week. The rebound, however, was short lived as tin prices declined towards end of the trading week.

Tin prices softened further throughout the trading week in-line with the movement of the other base-metals on the market.

Weak demand pulled down the LME's tin prices lower during the third trading week. However, the cash tin price was checked somewhat from further declining by a technical correction around the beginning of the trading week.

Tin prices continued to decline during the fourth trading week to record their lowest level for the month at US\$19,655 per tonne for cash tin, and at US\$19,600 per tonne for 3-month tin, both recorded on 25<sup>th</sup> April. The decline, however, was checked by



a technical correction during the final day of the trading week to end the trading week on a firmer note.

At the opening of the short final trading week, tin prices inched-up slightly before softening the subsequent day to close the trading month of April at US\$19,825 and US\$19,750 per tonne for cash and 3-month tin, respectively.

## NEWS HIGHLIGHT

### MSC Raises Mining Output

Amid a recovery in global tin prices, Malaysia Smelting Corp Bhd (MSC) is targeting to raise its mining output by 30% for the financial year ending Dec 31, 2019 (FY19). According to chief executive officer Patrick Yong, the global integrated tin mining and smelting group is on track to hit the target, thanks partly to its initiatives in improving the efficiencies of its processes at its tin mines.

He told *StarBiz* that MSC expected to increase further the production of its tin-in-concentrates by maintaining its new daily mining output throughout this year. "The future production cost on a per tonne basis will also decrease as a result of our im-

proved efficiency in maximizing the recovery yields of tin ore," he said.

Yong added that MSC would be on the lookout for strategic opportunities that would enable the group to expand on its mining capacity, especially in Malaysia. He expects the company to incur capital expenditure of about RM10mil to further enhance its mining output to reach 10 tonnes per day within the next two to three years.

Based on the Kuala Lumpur Tin market statistics, the average monthly tin prices have been on the up-trend this year. In January, February and March, the

average tin prices had surged to US\$20,417, US\$21,268 and US\$21,317 per tonne, respectively. This is in comparison with the average price of US\$20,067 per tonne last year. MSC owns and operates Rahman Hydraulic Tin Sdn Bhd (RHT), the country's largest open-pit mine, in Pengkalan Hulu, Perak.

Since July 2018, RHT has successfully increased its daily mining output of tin to exceed 9 tonnes per day, from an average of 8.4 tonnes per day previously. This was achieved with minimal capex and by improving the efficiencies of its mining processes. As a result, total production in FY18 from MSC's mine increased by 6% to 2,355 tonnes from 2,226 tonnes previously. Yong noted that MSC's main aim is to increase RHT's daily production as well as explore new tin sources in Malaysia.

"We will start small-scale tin mining activities at Sungai Lembing, Pahang, via our 80%-owned subsidiary SL Tin Sdn Bhd. Mining and first commercial production are expected to be carried out this year. This will contribute to additional tin production," said Yong.

In September last year, RHT entered into a memorandum of understanding (MoU) with Menteri Besar Inc Perak (MB Inc) to lease two parcels of land measuring about 100 acres and 323 acres, respectively. In the near term, this will be used for waste dumping and further tin ore extraction from discards. The move would also free up space within the existing mining leases, allowing the company to increase mining productivity.

The MoU will pave the way for both parties to commence strategic alliances and other joint ventures. According to Yong, tin mining has always been the key profit contributor to MSC. In FY18, it contributed a net profit of RM25.3mil, representing more than 70% of the group's net profit. However, net

profit from the tin mining division during the period under review was 27% lower than in 2017. This was partly due to the appreciation of ringgit against the US dollar, which led to lower tin prices in ringgit terms.

In 2018, the average tin price was traded marginally higher at US\$20,067 per tonne versus US\$20,036 in 2017. On the status of MSC's new smelting plant in Pulau Indah, Klang, Yong said the initial testing and refinery works are being carried out and is expected to be completed by year-end.

"At the moment, our smelting division continues to incur higher expenses due to duplication of overhead costs, as we operate two plants concurrently, with only one generating revenue. Upon completion of our testing works, we aim to commence commercial production in early 2020, but this is subject to us obtaining the necessary licences from the relevant authorities," he added.

Yong noted that with the new plant coming on stream, the group's production and cost efficiencies would significantly improve. With the new smelting technology, MSC's maximum production capacity would be boosted by 50% up to 60,000 tonnes per annum. The furnace would also be able to treat a larger volume of feed materials, with higher reaction rates apart from lowering labour costs.

As for the prospects of the tin industry, Yong said while solder remains the major application of tin today, one key area of opportunity would be in emerging lithium-ion batteries for electric vehicles. "There is a research which suggests that using tin can increase the energy storage capacity significantly while improving the charging rate of the battery.

*(Source: The Star, 28 April 2019)*

## NEWS ROUND UP

### More Recent Investment Seen in Tin Mining

Tin will be the most impacted metal by future technologies. With tin supply easing due to long-term declines in mine grades, new sources of tin need to be found. Junior mining companies are already getting to start their development projects, while established miners are getting to expand their life of

mine. A lot of recent investments seen in tin mining are helping to accelerate these projects towards production.

One of the projects that are nearing production is the Alphamin's Bisie mine in the Democratic Repub-

lic of the Congo (DRC). It is expected to start production during the third quarter of 2019. Alphamin announced earlier in April that it had raised US\$12 million in capital through a private share placement. Although it had previously stated that cash reserves were sufficient until production at Bisie, the recent change in its mining method has escalated costs. In November 2018, it announced the switch from sublevel caving to cut and fill, meaning that more development must be completed ahead of the demand for ore, thus the increased capital cost.

Regardless, Bisie is nearing full production with the processing plant now fully commissioned. The mine is expected to produce 9,600 tonnes of tin concentrate annually and has one of the highest-grade deposits in the world, with an initial mine life of 12.5 years.

Aus Tin Mining, an Australian-based mining company, has recently started mining at its Granville East project. The company has also seen investment coming into new mine supply. Through a private

share placement, the company obtained \$450,000 with the possibility of receiving another \$750,000 via a share purchase plan. It said the investment would be used to move the Taronga project into Stage 1, estimated to cost some \$3 million, comprising a 340,000 tonne trial mine with the Northern Zone Ore Reserves along with a pilot processing plant.

Meanwhile, Bolivia's state-owned mining company, Comibol, has finally signed a contract to expand the processing plant at its Colquiri mine. A contract was originally announced with Ziegler, a Bolivian company, in 2016 although there was a total of four unsuccessful bidding rounds including the latest successful round.

The three-year deal was awarded to Carlos Caballero, a Bolivian construction firm, with a total investment of US\$72 million. The new concentrator plant, with a daily processing capacity of 2,000 tonnes, plans to double output at Colquiri from 3,753 tonnes of tin and 15,233 tonnes of zinc produced in 2017.

## Consultation with Tin Industry on Responsible Sourcing Audit Criteria

The International Tin Association (ITA) and the Responsible Minerals Initiative (RMI), following the recent signing of an MoU, have launched a joint consultation on a draft revision of responsible sourcing audit assessment criteria for tin. The revision will align with OECD Due Diligence Guidance and meet upstream-downstream expectations.

The new Tin Assessment Criteria will give auditing options for tin smelters to demonstrate conform-

ance with RMI's Responsible Minerals Assurance Process (RMAP) and the responsible sourcing standard of the ITA Code of Conduct for tin producers. It will be available by the second half of 2019.

All tin industry stakeholders have been invited to comment on the draft document that will provide an opportunity to give input to a process of growing importance across the tin supply chain.

## China's Refined Tin Exports Rose

According to latest statistics from China's Customs Department, the country imported a total of 13,056 tonnes of tin ore and concentrate in March 2019, with 92 per cent of which originated from Myanmar. It is estimated that the tin content of shipments from Myanmar in March rose by 244 per cent, month-on-month, to 3,100 tonnes, which was also higher by 55 per cent, year-on-year. However, the estimated tin content of shipments from Myanmar during the first quarter was 11,100 tonnes, lower by some 7 and 58 per cent, quarter-on-quarter, and, year-on-year, respectively.

Customs data also indicated that refined tin exports in March totalled 1,307 tonnes, higher by 187 per cent, month-on-month, and 102 per cent, year-on-year, while the figure for the first quarter was 2,961 tonnes, higher by 100 per cent, quarter-on-quarter, and 51 per cent, year-on-year, being the highest quarterly exports since the third quarter of 2007.

*(Source: International Tin Association Ltd. UK)*

# TIN STATISTICS

## KLTM & LME TIN PRICES

Period	KLTM				LME	
	Average Price * (US\$/Tonne)	Exchange Rates	Average Daily Turnover (Tonnes)	Total Turnover (Tonnes)	Cash (US\$/Tonne)	3-Month (US\$/Tonne)
2001	4,338		88	21,497	4,483	4,521
2002	4,048		69	17,174	4,061	4,095
2003	4,954		50	12,434	4,895	4,906
2004	8,616		78	19,323	8,513	8,367
2005	7,410		79	19,427	7,382	7,350
2006	8,746		57	13,905	8,781	8,774
2007	14,477		60	14,757	14,541	14,533
2008	19,182		74	18,077	18,510	18,461
2009	13,556		68	16,905	13,574	13,375
2010	20,061		62	15,599	20,406	20,430
2011	26,235		47	11,387	26,113	26,128
2012	21,193		42	10,206	21,114	21,125
2013	22,322		39	9,530	22,316	22,328
2014	21,737		44	10,822	21,916	21,909
2015	16,015		52	12,679	16,084	16,046
2016	17,528		47	11,568	17,982	17,889
2017	20,029		37	8,890	20,098	19,994
2018	20,151		37	9,075	20,168	20,086
2018						
Jan.	20,415		46	973	20,711	20,602
Feb.	21,558		42	756	21,694	21,549
Mar.	21,049		42	933	21,214	21,123
Apr.	21,151		35	744	21,340	21,167
May	20,740		39	710	20,900	20,794
Jun.	20,616		45	907	20,663	20,577
Jul.	19,687		39	857	19,700	19,610
Aug.	19,299		31	642	19,281	19,224
Sep.	18,905		43	736	18,999	18,951
Oct.	19,048		33	762	19,129	19,092
Nov.	19,133		27	536	19,139	19,123
Dec.	19,208		26	519	19,243	19,219
2019						
Jan.	20,417		34	719	20,480	20,372
Feb.	21,268		37	628	21,268	21,172
Mar.	21,317		50	1,046	21,444	21,359
Apr.	20,528		38	833	20,684	20,560
2019						
Apr.						
1	21,450	4.0757	87,424	38	21,600	21,525
2	21,400	4.0828	87,372	30	21,325	21,200
3	21,300	4.0816	86,938	36	21,475	21,250
4	21,200	4.0800	86,496	36	21,325	21,150
5	21,180	4.0828	86,474	41	21,280	21,150
8	20,970	4.0926	85,822	35	21,000	20,840
9	20,880	4.0977	85,560	37	21,000	20,900
10	20,900	4.0981	85,650	36	20,900	20,800
11	20,840	4.1210	85,882	30	20,905	20,735
12	20,660	4.1205	85,130	26	20,850	20,725
15	20,670	4.1132	85,020	34	20,755	20,655
16	20,610	4.1145	84,800	33	20,800	20,560
17	20,500	4.1437	84,946	44	20,600	20,450
18	20,370	4.1455	84,444	49	20,425	20,350
19	20,300	4.1326	83,892	35		
22	20,250	4.1390	83,815	45		CLOSED
23	20,200	4.1330	83,487	45	20,150	CLOSED
24	19,800	4.1333	81,839	43	19,755	20,025
25	19,750	4.1348	81,662	33	19,655	19,700
26	19,720	4.1300	81,444	50	19,655	19,600
29	19,710	4.1325	81,452	51	19,975	19,875
30	19,800	4.1365	81,903	26	20,075	19,950
					19,825	19,750

Sources : The Kuala Lumpur Tin Market  
Metal Bulletin

Note : As from 1 February 2001, KLTM price is quoted in U.S. Dollar  
As from July 2018 onwards, we will no longer publish the New York Spot Tin prices since the Metal Bulletin, which has been our primary source of the New York Spot Tin prices has now stopped publishing them.  
\* KLTM's monthly average price is arrived at on a weighted average against total tonnage basis.

### WORLD REFINED TIN STOCKS (Tonnes)

Period	LME Stock	COUNTRY STOCKS							Total	Total	US Strategic Stockpile
		Germany	U.K	Indonesia	Japan	Malaysia*	Brazil*	U.S.A	Country Stocks	Commercial Stocks	
2001	30,550	1,006	995	4,251	2,875	1,300	3,600	7,700	21,727	52,277	59,993
2002	25,610	1,723	995	6,660	1,581	1,300	3,600	7,280	23,139	48,749	51,557
2003	14,475	2,129	995	6,660	2,354	1,300	3,600	6,520	23,558	38,033	41,678
2004	8,140	2,129	995	3,791	1,871	1,300	3,600	6,140	19,826	27,966	32,464
2005	16,725	2,129	955	5,302	2,920	1,300	3,600	5,400	21,606	38,311	24,719
2006	12,970	2,129	955	5,199	1,679	1,300	3,600	5,700	20,562	33,532	15,436
2007	12,150	2,129	955	5,199	1,569	1,300	3,600	6,030	20,439	32,565	7,400
2008	7,765	2,129	955	8,634	1,560	1,300	3,600	6,140	24,318	32,000	3,850
2009	26,755	2,129	955	4,149	1,103	1,300	3,600	7,570	20,806	47,561	3,956
2010	16,375	2,129	955	3,234	1,139	1,300	3,600	7,090	19,447	35,822	4,020
2011	12,095	2,129	955	3,265	1,278	1,300	3,600	6,800	19,327	31,422	4,020
2012	12,800	2,129	955	4,163	1,380	1,300	3,600	7,420	20,947	33,747	4,020
2013	9,660	2,129	955	1,192*	1,456	1,300	3,600	6,680	17,312	26,972	4,020
2014	12,135	2,129	955	6,266	1,324	888*	3,600	6,970	22,132	34,267	4,020
2015	6,140	2,129	955	5,838	1,349	730*	3,600	7,520	9,956	14,439	4,020
2016	3,800	2,129	955	3,976*	1,400	356*	3,600*	6,220	18,600	24,800	4,020
2017	2,235	2,130	955	3,870	1,360	600*	3,600*	6,730	19,245	26,395	4,020
2017											
Jan.	5,800	2,129	955	3435*	1,416	356*	3600*	6,470	18,902	27,908	4,020
Feb.	5,560	2,129	955	3435*	1,283	356*	3600*	6,470	18,769	26,743	4,020
Mar.	3,510	2,129	955	3435*	1,282	356*	3600*	6,470	18,227	23,760	4,020
Apr.	2,865	2,129	955	3435*	1,244	356*	3600*	6,470	18,189	23,260	4,020
May.	1,910	2,129	955	3868*	1,196	241*	3600*	6,480	18,469	24,179	4,020
Jun.	1,690	2,130	955	3870*	1,311	930*	3600*	6,540	19,336	26,068	4,020
Jul.	1,985	2,130	955	3870*	1,349	930*	3600*	6,540	19,374	29,663	4,020
Aug.	1,910	2,130	955	3870*	1,411	930*	3600*	6,540	19,436	31,539	4,020
Sep.	2,070	2,130	955	3870*	1,393	346*	3600*	6,520	18,814	30,595	4,020
Oct.	2,095	2,130	955	3870*	1,393	350*	3600*	6,560	18,818	30,637	4,020
Nov.	2,395	2,130	955	3870*	1,348	350*	3600*	6,730	18,983	29,610	4,020
Dec.	2,235	2,130	955	3870*	1,360	600*	3600*	6,730	19,245	26,395	4,020
2018											
Jan.	1,955	2,130	955	3956*	1,347	600*	3600*	6,730	19,318	25,885	4,020
Feb.	1,720	2,130	955	3956*	1,384	600*	3600*	6,730	19,318	26,506	4,020
Mar.	2,060	2,130	955	3956*	1,384	732*	3600*	6,330	19,087	25,753	4,020
Apr.	2,225	2,130	955	3956*	1,222	732*	3600*	6,430	19,025	26,735	4,020
May.	2,420	2,130	955	3956*	1,184	732*	0	6,430	15,387	24,661	4,020
Jun.	3,130	2,130	955	3198*	1,184	407*	0	6,430	14,304	25,151	4,020
Jul.	2,970	n.y.a	n.y.a	n.y.a	n.y.a	n.y.a	n.y.a	n.y.a	n.y.a	n.y.a	n.y.a

n.y.a : not yet available

\* : at producer

Sources : Metal Bulletin

World Bureau of Metal Statistics

**PRODUCTION BY MINING METHODS (In Tonnes)  
NUMBER OF MINES IN OPERATIONS  
EMPLOYMENT AT TIN MINES**

YEAR	AGGREGATE			DREDGING			GRAVEL PUMP			OPEN CAST			UNDER GROUND			PANNING			AMANG RETREATMENT		
	Prod.	Units*	Emp.	Prod.	Units	Emp.	Prod.	Units	Emp.	Prod.	Units	Emp.	Prod.	Units	Emp.	Prod.	Units	Emp.	Prod.	Units	Emp.
2001	4,972	33	1,461	314	1	131	2,084	16	467	1,485	15	435	18	1	9	511	-	-	560	30	419
2002	4,215	24	1,311	40	1	128	1,425	9	287	1,476	14	414	7	-	-	596	-	-	672	30	482
2003	3,358	26	1,215	70	2	28	1,124	9	235	1,419	15	458	-	-	-	513	-	-	232	28	494
2004	2,743	22	1,262	86	1	14	692	10	221	1,110	12	542	-	-	-	520	-	-	335	25	499
2005	2,857	12	906	-	-	-	693	7	120	1,292	5	273	-	-	-	587	-	-	285	24	513
2006	2,398	14	998	6	1	20	551	7	120	1,042	6	359	-	-	-	468	-	-	331	23	499
2007	2,263	12	861	45	1	8	288	5	109	1,372	6	409	-	-	-	381	-	-	177	21	335
2008	2,602	12	882	14	1	8	181	2	60	1,820	8	434	26	1	17	408	-	-	153	24	363
2009	2,410	9	1,051	66	1	33	80	1	26	1,881	7	671	-	-	-	260	-	-	125	22	321
2010	2,668	12	1,352	54	2	44	6	1	26	2,051	9	849	-	-	-	283	-	-	274	25	433
2011	3,343	13	1,433	22	1	9	-	-	-	2,567	12	1,009	-	-	-	394	-	-	360	23	415
2012	3,725	13	1,464	-	-	-	-	-	-	2,788	13	987	-	-	-	289	-	-	650	23	477
2013	3,697	16	1,532	-	1	20	-	-	-	2,700	15	1,025	-	-	-	325	-	-	663	20	487
2014	3,777	18	1,538	2	1	20	-	-	-	2,912	18	1,090	-	-	-	379	-	-	484	19	448
2015	4,125	18	1,519	-	-	-	-	-	-	3,572	18	1,151	-	-	-	313	-	-	276	18	368
2016	4,158	14	1,406	-	-	-	-	-	-	3,388	14	1,130	-	-	-	293	-	-	442	18	276
2017	3,894	16	1,286	-	1	36	-	-	-	3,104	16	1,058	-	-	-	406	-	-	390	16	228
2018**	3,836	12	1,295	-	-	-	-	-	-	3,171	12	1,075	-	-	-	410	-	-	255	11	220
2017																					
Jan.	351	14	1,298	-	-	-	-	-	-	272.8	14	1,030	-	-	-	29.6	-	-	48.3	18	268
Feb.	316	14	1,308	-	1	36	-	-	-	251.8	13	990	-	-	-	28.3	-	-	36.0	18	282
Mar.	306	14	1,200	-	1	36	-	-	-	248.9	13	929	-	-	-	24.4	-	-	32.3	16	235
Apr.	275	13	1,220	-	-	-	-	-	-	227.9	13	985	-	-	-	30.6	-	-	16.3	16	235
May	338	16	1,330	-	-	-	-	-	-	268.1	16	1,095	-	-	-	33.6	-	-	37.7	16	235
Jun	306	17	1,301	-	-	-	-	-	-	272.0	17	1,069	-	-	-	30.7	-	-	5.5	16	232
July	333	18	1,350	-	1	36	-	-	-	273.4	17	1,083	-	-	-	34.2	-	-	25.7	16	231
Aug.	328	19	1,391	-	1	36	-	-	-	262.7	18	1,122	-	-	-	36.8	-	-	29.2	16	233
Sep.	313	16	1,316	-	-	-	-	-	-	248.6	16	1,083	-	-	-	36.5	-	-	28.9	16	233
Oct.	322	18	1,358	-	1	36	-	-	-	251.8	17	1,089	-	-	-	36.1	-	-	35.3	16	233
Nov.	368	16	1,283	-	-	-	-	-	-	271.9	16	1,050	-	-	-	43.6	-	-	53.9	16	233
Dec.	338	16	1,286	-	-	-	-	-	-	254.5	16	1,058	-	-	-	41.8	-	-	40.8	16	228
2018**																					
Jan.	308	17	1,330	-	-	-	-	-	-	244.5	17	1,088	-	-	-	37.3	-	-	26.5	16	242
Feb.	297	17	1,305	-	-	-	-	-	-	233.4	17	1,063	-	-	-	36.9	-	-	26.6	16	242
Mar.	323	16	1,272	-	-	-	-	-	-	260.4	16	1,029	-	-	-	34.6	-	-	27.6	16	243
Apr.	330	17	1,271	-	-	-	-	-	-	268.5	17	1,031	-	-	-	39.6	-	-	21.8	16	240
May	336	16	1,137	-	-	-	-	-	-	260.8	16	971	-	-	-	40.1	-	-	34.9	11	166
Jun	292	15	982	-	-	-	-	-	-	247.3	15	977	-	-	-	44.3	-	-	-	10	5
July	342	15	1,218	-	-	-	-	-	-	300.9	15	1,010	-	-	-	22.3	-	-	18.8	10	208
Aug.	393	14	1,225	-	-	-	-	-	-	325.3	14	1,012	-	-	-	36.6	-	-	31.2	10	213
Sep.	280	14	1,308	-	-	-	-	-	-	244.8	14	1,085	-	-	-	30.7	-	-	4.7	10	223
Oct.	319	12	1,280	-	-	-	-	-	-	271.2	12	1,059	-	-	-	31.5	-	-	16.3	10	221
Nov.	311	12	1,309	-	-	-	-	-	-	249.5	12	1,085	-	-	-	31.6	-	-	30.0	10	224
Dec.	305	12	1,295	-	-	-	-	-	-	263.9	12	1,075	-	-	-	24.6	-	-	17.0	11	220

Source

: Department of Mineral and Geoscience Malaysia

Note : \* Aggregate number of mines does not include Retreatment units

\*\* Preliminary

**MALAYSIAN REFINED TIN PRODUCTION  
IMPORT OF TIN-IN-CONCENTRATES  
AND EXPORT OF TIN METAL (In Tonnes)**

Period	Production of Tin-In-Concentrates	Imports of Tin-In-Concentrates	Refined Tin Production	Local Consumption	Exports of Tin Metal
2001	4,972	24,102	30,417	4,047	27,271
2002	4,214	22,904	30,887	3,896	27,075
2003	3,358	7,661	18,250	4,081	15,164
2004	2,742	26,901	33,914	4,652	29,820
2005	2,857	31,087	37,782	4,133	32,304
2006	2,398	15,979	22,850	4,904	19,267
2007	2,263	21,341	25,563	3,564	15,738
2008	2,602	24,350	31,690	3,521	21,813
2009	2,412	22,901	35,443	2,944	18,014
2010	2,668	30,589	38,771	2,942	33,697
2011	3,343	30,031	40,281	2,341	42,302
2012	3,725	26,537	37,823	2,083	37,212
2013	3,697	30,273	32,633	1,835	36,363
2014	3,777	31,610	35,018	1,581	35,221
2015	4,125	31,965	30,260	1,900	38,319
2016	4,158	30,536	26,849	2,238	27,470
2017	3,894	29,866	27,211	2,707	27,147
2018*	3,835	27,450	27,115	1,964	27,342
2017					
Jan.	351	2,377	1,683	171	1,530
Feb.	316	2,033	2,167	203	2,635
Mar.	306	1,723	2,044	322	2,091
Apr.	275	2,441	1,832	263	1,777
May.	338	2,598	2,572	218	2,326
Jun.	306	2,446	2,121	258	1,732
Jul.	333	3,154	2,605	320	2,768
Aug.	328	2,428	2,812	178	3,106
Sep.	313	2,565	2,149	179	2,275
Oct.	322	2,775	2,256	225	2,116
Nov.	368	2,740	2,478	204	2,510
Dec.	338	2,586	2,492	166	2,281
2018*					
Jan.	308	2,424	2,060	171	1,950
Feb.	297	2,046	2,214	190	2,009
Mar.	323	2,488	2,340	158	2,584
Apr.	330	2,430	2,111	192	2,401
May.	336	2,895	2,343	171	2,435
Jun.	292	2,494	2,219	192	2,162
Jul.	342	2,609	2,571	162	2,687
Aug.	393	2,619	2,470	215	2,257
Sep.	280	1,653	2,068	149	1,899
Oct.	319	2,284	2,282	117	2,138
Nov.	311	1,844	2,563	102	2,746
Dec.	305	1,664	1,874	145	2,074

\* : Preliminary  
n.y.a : not yet available  
Sources : Department of Statistics, Malaysia  
Department of Mineral and Geoscience Malaysia  
Malaysia Smelting Corporation Bhd.



**DOMESTIC TIN CONSUMPTIONS**  
(In Tonnes)

PERIOD	TOTAL CONSUMPTION	SOLDER *	TINPLATE	PEWTER	OTHERS *
2001	4,045	1,916	518	654	958
2002	3,896	2,108	557	593	637
2003	4,080	2,194	636	537	713
2004	4,656	2,864	784	399	609
2005	4,133	2,692	679	264	498
2006	4,904	2,054	613	210	2,027
2007	3,564	2,513	680	219	152
2008	3,521	2,511	685	147	178
2009	2,944	1,537	681	100	626
2010	2,942	1,981	683	169	109
2011	2,341	1,458	665	108	110
2012	2,083	1,333	573	104	73
2013	1,835	1,078	561	100	96
2014	1,581	922	520	82	57
2015	1,900	1,133	608	77	82
2016	2,238	1,314	750	86	88
2017	2,707	1,348	737	63	559
2018**	1,964	1,019	759	39	147
2017					
Jan.	171	102	54	12	3
Feb.	203	133	64	2	4
Mar.	322	139	76	13	94
Apr.	263	100	72	2	89
May	218	150	61	3	4
Jun	258	108	61	12	77
July	320	143	76	1	100
Aug.	178	79	62	2	35
Sep.	179	101	40	1	37
Oct.	225	104	68	4	49
Nov.	204	95	49	1	59
Dec.	166	94	54	10	8
2018**					
Jan.	171	101	57	3	10
Feb.	190	133	54	1	2
Mar.	158	93	49	13	3
Apr.	192	103	78	1	10
May	171	106	56	1	8
Jun.	192	116	61	13	2
Jul.	162	99	60	0	3
Aug.	215	132	75	1	7
Sep.	149	62	62	1	24
Oct.	117	23	69	1	24
Nov.	102	11	61	0	30
Dec.	145	40	77	4	24

\* : The figures include high-grade tin (99.9% Sn) imported for consumption.

\*\* : Preliminary.

Sources : Department of Mineral and Geoscience Malaysia  
Malaysia Smelting Corporation Bhd

Note : Local consumption of tin metal refers to the use of tin in a particular application.  
Sales to manufacturing industries have been used as proxy for consumption except in the case of manufacture of tinplate for which actual consumption data are available.

**WORLD MINE PRODUCTION**  
(In Tonnes)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2018	2018	2018	2018	2018	
																			Jan	Feb	Mar	Apr	May	June
<b>EUROPE</b>																								
Portugal	1,203	341	216	184	196	-	48	32	-	25	45	24	24	84	96	48	56	5	5	5	5	5	5	5
Russia	5,500	7,200	7,200	7,200	5,100	5,100	5,100	1,118	611	955	612	600	600	240	240	1,140	702	23	23	23	23	23	23	23
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>AFRICA</b>																								
Democratic Republic Congo	-	-	2,400	5,700	7,560	7,200	12,000	9,000	9,000	7,200	4,800	2,462	5,220	4,116	2,977	4,128	7,145	600	600	600	800	0	800	800
Nigeria	1,260	900	900	900	900	900	2,400	2,400	2,400	1,800	1,800	2,400	2,590	2,425	2,100	3,827	5,964	400	300	300	300	300	300	300
Rwanda	373	204	204	201	4,500	3,800	4,600	3,600	3,600	2,888	4,167	3,493	3,600	4,245	2,017	2,621	3,508	200	200	200	200	200	200	200
South Africa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zimbabwe	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-	-	87	12	-	-	-	-	-	-	-	-	-	-
<b>ASIA</b>																								
China	99,400	81,000	101,807	117,200	119,500	114,282	136,300	121,150	128,000	134,200	127,400	115,900	148,981	177,300	146,600	153,100	163,000	11,300	11,300	14,800	14,800	14,800	14,800	13,000
Indonesia	56,286	78,567	64,026	78,400	120,000	117,500	102,000	96,000	84,000	84,000	78,000	78,000	84,000	69,600	68,400	60,000	60,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
Kazakhstan	0	480	24	14	5	9	12	4	4	600	1,200	766	745	840	815	1,308	779	1	1	0	0	0	0	0
Laos	764	1,076	1,080	1,080	1,080	1,080	1,080	700	262	600	600	766	745	840	815	1,308	779	25	25	25	100	100	100	100
Malaysia	4,972	4,214	3,358	2,745	3,048	2,350	2,784	3,439	2,374	2,674	3,346	3,639	3,685	3,600	3,731	4,123	3,967	340	340	340	340	340	340	340
Mongolia	96	96	96	96	96	168	192	192	22	24	24	24	44	72	240	36	50	5	5	5	5	5	5	5
Myanmar	1,898	1,200	1,260	2,100	372	960	960	568	589	427	534	658	8,943	17,475	2,400	47,435	58,883	7,000	3,000	3,000	3,000	300	300	300
Thailand	2,522	1,096	879	654	245	238	153	205	183	318	252	199	119	131	45	124	705	60	60	60	60	60	60	60
Vietnam	1,700	1,704	2,100	3,509	3,480	5,400	5,400	5,400	5,400	5,400	5,400	5,400	5,400	5,400	3,600	5,520	4,560	380	380	380	380	380	380	380
<b>AMERICA</b>																								
Bolivia	12,039	13,210	16,390	17,609	18,486	17,381	15,566	15,972	19,575	20,190	20,373	19,701	16,976	19,548	20,135	17,614	17,973	1,500	1,500	1,500	1,450	1,450	1,450	1,450
Brazil	13,016	12,023	12,217	12,462	12,588	11,736	9,600	9,600	12,996	10,500	8,200	10,800	13,800	13,800	13,800	25,500	18,000	1,500	1,500	1,500	1,500	1,500	1,500	1,500
Peru	38,184	38,815	40,202	41,614	42,145	38,462	38,951	39,032	37,498	33,843	29,022	26,097	23,661	12,105	19,511	18,789	17,790	1,314	1,327	1,421	1,540	1,550	1,550	1,647
U.S.A.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>OCEANIA</b>																								
Australia	9,602	7,018	3,819	1,306	2,713	1,478	2,085	1,763	5,630	6,646	15,400	6,014	5,888	7,042	7,056	6,635	7,217	700	500	600	550	450	472	
<b>WORLD TOTAL</b>	<b>249,295</b>	<b>249,144</b>	<b>255,574</b>	<b>292,596</b>	<b>340,900</b>	<b>324,444</b>	<b>330,733</b>	<b>310,195</b>	<b>312,140</b>	<b>311,690</b>	<b>300,575</b>	<b>276,183</b>	<b>324,363</b>	<b>349,035</b>	<b>315,363</b>	<b>351,948</b>	<b>370,299</b>	<b>30,353</b>	<b>26,066</b>	<b>29,759</b>	<b>30,053</b>	<b>26,463</b>	<b>25,582</b>	

Source : World Bureau of Metal Statistics

**WORLD REFINED TIN CONSUMPTION**  
(In Tonnes)

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2018	2018	2018	2018	2018
<b>EUROPE</b>									<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>June</b>
Austria	2,724	3,200	2,978	3,184	3,715	3,438	3,323	4,148	300	340	300	241	240	250
Belgium	4,200	6,584	5,231	5,400	2,400	2,400	2,400	697	60	60	60	60	60	60
Bulgaria	520	520	500	501	360	144	101	1	0	0	0	5	5	5
Czech Republic	229	470	474	379	300	460	515	532	40	73	75	45	45	45
Denmark	104	108	13	24	11	8	3	17	1	1	1	1	1	1
Finland	175	131	121	72	244	211	86	51	2	1	6	6	6	6
France	5,364	4,839	4,323	4,616	5,203	4,382	4,736	5,456	524	448	301	263	742	707
Germany	17,431	19,788	17,592	17,896	18,835	17,931	18,242	20,284	1,300	1,200	1,300	1,819	1,800	1,700
Greece	1,200	1,350	630	616	676	655	632	600	50	50	50	55	50	50
Hungary	114	106	105	111	109	163	145	1,177	200	200	200	200	200	120
Ireland	37	48	7	3	3	7	4	0	0	0	0	0	0	0
Italy	3,720	4,807	6,111	3,096	3,760	3,017	3,495	3,974	200	200	300	277	300	300
Netherlands	5,400	4,867	4,500	7,399	7,200	6,000	6,000	6,000	500	500	500	500	500	500
Norway	11	5	9	5	3	3	0	1	0	0	0	0	0	0
Poland	856	1,582	2,085	1,908	2,520	2,647	3,669	3,537	310	280	280	258	225	225
Portugal	236	529	435	356	482	408	554	856	100	86	75	99	84	60
Romania	1,140	1,140	960	3,200	960	840	336	516	30	30	30	59	30	30
Russia	2,465	2,960	3,039	3,196	1,516	1,262	995	1,339	50	50	70	60	60	20
Slovakia	400	400	240	202	404	501	465	645	50	53	50	72	43	48
Spain	2,076	2,032	1,303	1,913	1,470	1,864	1,495	1,605	100	100	100	181	125	125
Sweden	6,089	5,742	2,910	4,385	6,435	5,682	6,492	5,457	300	300	400	584	450	500
Switzerland	268	200	55	861	66	81	47	69	4	4	4	20	4	34
United Kingdom	754	703	780	821	794	962	979	936	85	106	96	109	57	51
Yugoslavia	3,000	2,390	1,320	1,140	1,080	1,080	1,080	1,080	90	90	90	90	90	90
Other Europe	900	900	720	720	720	720	720	720	60	60	60	60	60	60
<b>AFRICA</b>														
Egypt	400	400	110	104	0	155	107	119	0	10	10	18	20	30
Morocco	84	84	84	29	14	16	21	15	0	1	1	0	0	5
Nigeria	300	300	300	300	300	300	300	623	0	50	50	50	50	50
South Africa	840	1,464	1,200	1,152	1,243	1,129	1,047	957	101	24	103	49	100	49
Other Africa	900	900	720	720	720	720	720	720	0	60	60	60	60	60
<b>ASIA</b>														
China	152,832	180,812	176,404	168,194	192,610	175,842	191,415	183,391	14,176	12,469	15,774	11,871	11,345	12,000
Hong Kong	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	150	150	300	300	300	300
India	10,760	9,738	9,985	9,941	11,870	12,857	9,088	9,861	900	500	800	897	900	1,000
Indonesia	1,351	1,200	1,200	600	1,200	1,200	1,200	1,200	100	100	100	100	100	100
Iran	2,400	2,400	1,200	797	737	1,129	987	1,058	75	81	184	75	20	49
Japan	35,660	26,936	27,657	28,272	27,090	26,762	26,113	29,111	2,839	2,630	2,174	1,935	1,791	2,903
Kazakhstan	1,012	1,044	606	602	431	423	490	431	50	0	70	30	30	50
Malaysia	4,440	4,440	4,440	3,900	3,900	1,560	1,560	1,560	130	130	130	130	130	130
Pakistan	480	480	360	528	618	480	279	300	25	25	25	25	25	25
Philippines	73	217	122	143	225	118	506	220	3	3	3	6	6	10
Singapore	2,000	2,000	2,000	2,000	1,998	2,000	1,960	1,920	160	160	160	160	160	160
South Korea	17,444	14,404	16,238	14,533	13,772	13,091	14,199	13,112	1,121	1,169	1,078	1,069	1,132	1,419
Syria	180	180	120	0	120	120	120	120	10	10	10	10	10	10
Taiwan	11,142	8,093	7,071	5,883	4,583	4,703	4,140	4,494	476	300	366	144	200	679
Thailand	3,977	3,540	3,538	4,500	3,952	3,074	3,131	4,259	250	250	250	250	250	250
Turkey	2,134	2,422	2,135	2,337	2,259	2,136	2,416	3,110	265	305	302	348	254	165
United Arab Emirates	3,000	3,000	2,400	2,400	2,400	4,200	4,800	4,800	300	300	300	300	300	300
Vietnam	1,999	2,000	2,000	3,600	5,457	6,000	6,000	6,000	500	500	500	500	500	500
Other Asia	1,860	1,860	2,160	2,160	2,160	2,160	2,160	2,160	180	180	180	180	180	180
<b>AMERICA</b>														
Argentina	2,100	778	752	882	560	833	878	596	70	50	60	54	89	61
Bolivia	480	480	480	480	480	480	480	480	40	40	40	40	40	40
Brazil	10,137	5,628	3,546	6,073	4,600	4,606	17,258	10,009	1,023	728	766	630	1,009	723
Canada	2,974	2,882	2,601	2,360	2,740	3,238	2,887	2,562	272	254	203	159	199	279
Chile	263	242	199	132	96	152	111	82	10	0	9	27	0	5
Colombia	374	348	320	308	286	243	300	280	40	40	3	30	20	30
Mexico	4,130	3,898	3,493	3,393	3,769	3,615	4,160	4,197	250	500	450	364	450	400
Peru	216	216	216	220	216	216	216	216	18	18	18	18	18	18
U.S.A.	34,658	30,365	30,691	29,193	28,800	30,644	29,455	31,476	2,300	2,274	2,302	2,355	3,066	3,420
Venezuela	256	335	205	187	178	90	59	19	0	0	0	0	0	0
Other America	600	600	420	420	420	420	420	420	35	35	35	35	35	35
<b>OCEANIA</b>														
Australia	334	579	480	516	427	467	215	259	20	45	21	20	0	65
New Zealand	55	66	73	19	18	19	7	49	0	0	0	5	0	0
<b>WORLD TOTAL</b>	<b>373,298</b>	<b>381,772</b>	<b>360,887</b>	<b>359,960</b>	<b>381,439</b>	<b>361,943</b>	<b>387,563</b>	<b>381,702</b>	<b>30,249</b>	<b>27,627</b>	<b>31,489</b>	<b>27,310</b>	<b>27,966</b>	<b>30,489</b>

Source : World Bureau of Metal Statistics