



AUGUST 2022 | VOLUME 33 NO. 8

AUGUST TIN MARKET REVIEW

Kuala Lumpur Tin Market (KLTM)

Not a single tonne of tin was traded on the KLTM during the month of August. This was the seventh consecutive month where the local physical tin market recorded no transaction due to lack of refined tin metal available on offer.

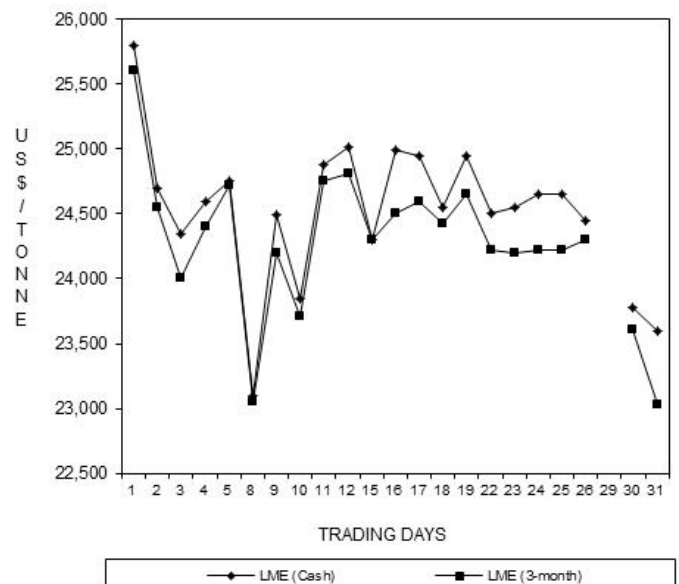
London Metal Exchange (LME)

Tin trading on the LME during the month of August was conducted within a wide price range of almost US\$2,700 per tonne. The month's average cash and 3-month tin prices of US\$24,520 and US\$24,276 per tonne, respectively were lower than those recorded in July. The market in August was mostly volatile with a substantial decline during the earlier weeks influenced largely by weak demand.

The market kicked off the first trading week at US\$25,795 per tonne for cash tin and US\$25,600 per tonne for 3-month tin, being their respective highest price level for the month. Thereafter, it declined substantially for two consecutive days before rebounding towards end of the trading week.

The earlier price rise did not sustain, as a major correction that came thereafter caused the tin price to plunge at the

LME TIN PRICES
AUGUST 2022



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opening of the second trading week to record the month's lowest price level for cash tin at US\$23,100 per tonne on 8th August. According to a trader, the decline was also due to profit taking by investment funds, which took advantage from the earlier higher prices. Afterwards, it zigzagged its way upward to end the trading week higher.

The tin price remained volatile throughout the third trading week unsure of its next direction as market sentiment remained largely uncertain.

During the fourth trading week, however, the tin price was mostly calm as it stayed somewhat flat throughout the week.

The tin price softened during the short final trading week to record the month's lowest price level for 3-month tin at US\$23,025 per tonne, which was also its closing level. Cash tin, meanwhile, closed the trading month at US\$23,600 per tonne.

NEWS HIGHLIGHTS

MSC to Gain from Current Tin Prices

Malaysia Smelting Corp Bhd (MSC) expects to continue benefiting from the current tin prices, despite inflationary pressures, higher logistics and operating costs in its smelting and tin mining businesses.

MSC's net profit surged to RM39.45mil from RM2.93mil in its second quarter ended June 30, 2022 mainly due to higher average tin prices of RM158,900 per tonne during

the quarter compared with RM122,900 per tonne a year earlier.

Basic earnings per share stood at 9.40 sen, compared with 0.70 sen previously.

Source: The Star, 5 August 2022

MSC Looking at M&As to Strengthen Position

Pursuing more mining-related mergers and acquisitions (M&As) in Malaysia and abroad is one of the strategies of Malaysia Smelting Corp Bhd (MSC) to strengthen its position. Group chief executive officer Datuk Patrick Yong told *StarBiz* that "we are certainly heading towards this direction as there are still plenty of untapped deposits. "The exploration in the areas that we are targeting have also shown encouraging results."

MSC is one of the world's largest integrated tin producers. Its smelting operation involves converting tin ore into usable tin metal of various purity and a service fee is charged according to the tolling contract. The group is also the world's largest toll smelter serving customers who bring in ore from all over the world, including its own mines managed by its subsidiary, Rahman Hydraulic Tin Sdn Bhd (RHT), in Klian Intan, Perak and Sungai Lembing, Pahang.

Said Yong, "It is our plan to revive tin mining in Perak and Malaysia in general to a significant level, which should be within our reach. This is because MSC has established a base in RHT, where we now have the technical knowhow and financial strength to actualise this."

At the same time, MSC is considering the wisdom of mining outside Malaysia, he noted. "While our management is not going to be as comfortable when compared to operating at home, this is not to be ruled out in the near term."

Earnings-wise, Yong said the group derived its income mainly from the smelting and mining businesses. "Our toll smelting business is a steady income stream that is not affected by the tin price, but only slightly by the US dollar rate, as tolling charges are in the US-dollar denomination. Since toll rates are cost plus, it's a well-hedged business," explained Yong.

On the other hand, the group's mining operation tends to benefit most "when tin prices are high together with the US dollar, which was especially shown in 2021 and the early part of 2022," he added. Therefore, MSC's two income activities complement each other very well in a low risk and well-covered business combination. "However, the ratio of intensity is currently still not ideally balanced," he pointed out.

Once the group's upgraded new smelting plant in Pulau Indah runs at full capacity, Yong said it will be capable of smelting 40,000 to 60,000 tonnes of ore annually. MSC's mines plus local ore supply is currently at 7,000 to 8,000 tonnes, and may only reach 14,000 tonnes in a few years. The rest of the capacity is occupied by toll smelting external ore.

Yong said, "Hence, the obvious step forward is to increase mining activities to occupy 40%-50% of our smelter capacity to reap maximum benefits of high tin prices when the cycle peaks, and also be comfortably profitable when tin prices plateau. MSC is already actively acquiring more mining leases as reflected by the group's recent acquisition of Asas Baiduri Sdn Bhd and possibly more around the vicinity of RHT."

Asas Baiduri has been granted a mining lease over a parcel of land adjacent to RHT's mining land in Perak. Yong explained, "Initially, Asas Baiduri will be contributing indirectly by giving relief to RHT in terms of space for tailings storage and sludge ponds. There is a pressing predicament in RHT, where a lack of such facilities is impeding future mining operations in our current leases."

This relief will immediately allow RHT to carry on fast mining of the remaining deposits over the remaining 22 years of mine life.

Source: The Star, 22 August 2022

NEWS ROUND-UP

AfriTin's Expansion Project Completed

AfriTin Mining has announced that it has finished construction of its Phase 1 Expansion plant in Namibia.

The company has been producing tin from its Uis mine in Namibia since November 2019. The initial "Phase 1" processing plant was designed to prove the viability of operations, with annual production rates capped at 720 tonnes tin concentrate.

AfriTin has been looking to expand its Uis mine production after having been operating steadily for over a year and a half. Work on the Phase 1 Expansion project has been completed as per scheduled after starting it in March 2022. The expansion project upgrades the crushing, screening and concentrate cleaning circuits, as well as debottlenecking constraints in the concentrator. Combined, the Phase 1 Expansion project should allow Afri-

Tin to boost its annual production to some 1,200 tonnes of tin concentrate, a 67 per cent improvement.

As the construction work has now been completed, the company is looking to commission the upgraded plant over the next four months. The dry plant, which is for crushing and screening, will be commissioned in August, while the wet plant which is the concentrator, will follow in September. The upgrading process has been designed to minimise disruptions while stockpiling and flexibility in the existing circuit will unlikely have material impact on Uis's production.

AfriTin is also working hard to start producing lithium and tantalum by-products at Uis. Pilot plants have been progressed to the detailed engineering stage, with a further update expected in the fourth quarter of this year.

First Tin Achieving Good Progress Towards Production

First Tin is advancing work at its Tellerhauser and Taronga tin projects, located in Germany and Australia, respectively. It is expected to achieve its target in starting operations of both projects by 2025.

The company completed the purchase of its Taronga project from Aus Tin Mining in early 2022. Located in northern New South Wales, Australia, it has seen significant historic work by its previous owner. In 2014, Aus Tin Mining published a Pre-Feasibility Study for the project, which indicated that the project would be a relatively low-cost operation with C1 cash costs of roughly US\$ 14,900 per tonne Sn.

First Tin has quickly advanced the project to an investment decision after taking it over. The company has started work on a Definitive Feasibility Study (DFS), aiming to be completed by mid-2023.

Meanwhile, First Tin is also progressing a DFS at Tellerhauser, a German project, which was previously an operating mine between 1983 and 1991, primarily for uranium. However, a vast amount of exploration work was completed on the tin mineralisation during this time.

First Tin plans to release the DFS with a significantly upgraded Mineral Resource Estimate after combining with data from its deep drilling programme, which started in early August. Most importantly, the company aims to convert Inferred Resources from the deep, high-grade Dreiberg mineralisation to the upgraded Indicated (or Measured) category, which it can base further mine planning cut off.

Auxico Resources Signed Offtake Agreement for its Massangana Tailings Project

Auxico Resources, a Canadian mining company, has signed an offtake agreement for a planned tin production from its Massangana tailings reprocessing project in Brazil.

Located in the Ariquemes region of Brazil, Massangana is a historical tin mine and has been operated by the CEMAL (Cooperativa Estanifera de Mineradores da Amazonia Legal) cooperative for around 50 years. During that time, the site has produced about 250,000 tonnes of tin and held roughly 30 Mt at 0.2 per cent Sn in 2018. The mine has also produced a significant volume of tailings, which Auxico hopes to reprocess. A Memorandum of Understanding between Auxico and CEMAL was signed in June 2022.

The German Mineral Resources Agency (BGR) has been studying in detail the Massangana tailings. The study concluded that the tailings which average 0.6 per cent Sn could be upgraded to approximately 55 per cent Sn concentrate product. Alongside this, Auxico plans to recover rare earth elements and columbite.

Auxico believes it can produce 6,000 tonnes of cassiterite annually from Massangana's tailings and has signed an offtake deal for a period of five years with Cuex Metal AG for the totality of the tin at 3,600 tonnes tin-in-concentrate. Cuex is a subsidiary of Shanghai Qunxian Industrial Group, a bulk commodity trading company from China

TinOne Adds Rattler Range Tin Project to its Portfolio

TinOne Resources, a Canadian mining exploration company, has agreed to purchase the Rattler Range tin project in northeastern Tasmania, Australia, as part of its strategy to unlock value from historical tin mining districts.

TinOne Resources has been focused on developing the Aberfoyle and Great Pyramid projects, both located in northeastern Tasmania. Due to Covid-19-related issues, not much work has been completed on the sites after being acquired from TNT mines in late 2019. However, the first results from TinOne's drilling programme at Great Pyramid were reported in late June 2022.

Despite the initial focus on Great Pyramid, Rattler Range proved to be too good of an opportunity to pass up. According to a spokesman from TinOne, "We are extremely excited to add the Rattler Range tin project to

the TinOne portfolio". The spokesman explained that, "[It] underpins our key strategy of acquiring known historical tin districts and applying modern exploration techniques to unlock value". Historical records for the Rattler Range area indicate the presence of 47 named tin occurrences, with some 19 known tin mines.

Priority targets for TinOne include Bells Hill, where multiple mineralised lodes have been mapped. No systematic exploration has been conducted there where only two drill holes have been completed at the site. Other historic mines such as Altered granite at Ruby Flats, Walsh's and Mount Paris were also thought to be mineralised. TinOne's geological team will start work soon to complete initial mapping and rock sampling to define follow-up targets.

(Source: International Tin Association Ltd. UK)

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)
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
2019	19,168		26	6,445	18,671	18,610
2020	17,504		19	4,088	17,134	17,079
2021	26,589		16	1,955	32,584	31,105
2019	Jan.		34	719	20,480	20,372
	Feb.		37	628	21,268	21,172
	Mar.		50	1,046	21,444	21,359
	Apr.		38	833	20,684	20,560
	May		19	388	19,531	19,326
	Jun.		19	344	19,177	19,076
	Jul.		19	416	17,991	17,983
	Aug.		20	422	16,577	16,567
	Sep.		22	392	16,840	16,834
	Oct.		21	464	16,603	16,627
	Nov.		20	417	16,369	16,386
	Dec.		18	376	17,093	17,063
2020	Jan.		19	406	17,056	17,057
	Feb.		18	354	16,457	16,456
	Mar.		20	236	15,321	15,307
	Apr.	C L O S E D			15,039	14,949
	May		17	268	15,410	15,231
	Jun.		18	374	16,806	16,627
	Jul.		16	358	17,452	17,375
	Aug.		18	343	17,672	17,649
	Sep.		21	444	17,946	17,962
	Oct.		18	383	18,154	18,152
	Nov.		20	413	18,568	18,539
	Dec.		23	509	19,727	19,643
2021	Jan.		17	314	21,955	21,596
	Feb.		25	456	26,717	24,415
	Mar.		21	494	27,396	25,079
	Apr.		16	327	28,427	26,568
	May		17	298	32,524	29,736
	Jun.		12	61	32,678	30,829
	Jul.	C L O S E D			34,183	33,010
	Aug.	C L O S E D			35,205	34,352
	Sep.	C L O S E D			35,048	34,109
	Oct.	C L O S E D			37,962	36,567
	Nov.	C L O S E D			39,333	38,042
	Dec.		5	5	39,574	38,956
2022	Jan.		5	21	41,807	41,344
	Feb.				44,118	43,820
	Mar.	NO TRANSACTION			44,249	43,917
	Apr.	NO TRANSACTION			43,122	42,644
	May	NO TRANSACTION			35,945	35,617
	Jun.	NO TRANSACTION			31,777	31,459
	Jul.	NO TRANSACTION			25,173	24,816
	Aug.	NO TRANSACTION			24,520	24,276
2022 Aug	1	NO TRANSACTION			25,795	25,600
	2	NO TRANSACTION			24,700	24,550
	3	NO TRANSACTION			24,350	24,000
	4	NO TRANSACTION			24,600	24,400
	5	NO TRANSACTION			24,755	24,725
	8	NO TRANSACTION			23,100	23,050
	9	NO TRANSACTION			24,495	24,200
	10	NO TRANSACTION			23,850	23,710
	11	NO TRANSACTION			24,875	24,750
	12	NO TRANSACTION			25,010	24,810
	15	NO TRANSACTION			24,300	24,300
	16	NO TRANSACTION			24,995	24,500
	17	NO TRANSACTION			24,950	24,600
	18	NO TRANSACTION			24,550	24,425
	19	NO TRANSACTION			24,950	24,650
	22	NO TRANSACTION			24,500	24,225
	23	NO TRANSACTION			24,545	24,200
	24	NO TRANSACTION			24,650	24,225
	25	NO TRANSACTION			24,650	24,225
	26	NO TRANSACTION			24,450	24,300
	29	NO TRANSACTION			CLOSED	
	30	NO TRANSACTION				
	31	C L O S E D				

Sources : The Kuala Lumpur Tin Market
London Metal Exchange

Note : As from 1 February 2001, KLTM price is quoted in U.S. Dollar
* 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 Country Stocks	Total Commercial Stocks	US Strategic Stockpile
		Germany	U.K	Indonesia*	Japan	Malaysia*	Brazil*	U.S.A			
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
2018	2,165	2,130	955	2587*	1,469	439*	3600*	5,610	16,790	27,226	4,020
2019	7,130	2,130	955	8600*	1,806	400*	3600*	5,920	23,217	35,678	4,020
2020	1,890	2,130	955	8600*	1,473	271*	3600*	5,100	22,129	29,464	4,020
2021	2,045	2,130	955	8600*	1,545	377*	3600*	4,530	21,737	25,142	4,020
2019											
Jan.	1,845	2,130	955	2587*	1,578	439*	3600*	5,150	16,439	26,524	4,020
Feb.	1,325	2,130	955	2587*	1,578	439*	3600*	5,150	16,552	26,111	4,020
Mar.	950	2,130	955	8594*	1,765	439*	3600*	4,850	22,333	31,458	4,020
Apr.	890	2,130	955	8594*	1,834	439*	3600*	5,580	23,132	31,451	4,020
May.	2,810	2,130	955	8600*	1,849	439*	3600*	5,510	23,083	34,096	4,020
Jun.	6,045	2,130	955	8600*	2,520	209*	3600*	5,510	23,524	37,961	4,020
Jul.	4,640	2,130	955	8600*	2,520	209*	3600*	5,510	23,524	34,583	4,020
Aug.	6,830	2,130	955	8600*	2,445	209*	3600*	5,510	23,449	35,355	4,020
Sep.	6,620	2,130	955	8600*	2,013	919*	3600*	5,510	23,017	34,215	4,020
Oct.	6,020	2,130	955	8600*	2,100	400*	3600*	5,510	23,104	33,684	4,020
Nov.	6,235	2,130	955	8600*	2,022	400*	3600*	5,510	23,217	33,116	4,020
Dec.	7,130	2,130	955	8600*	1,806	400*	3600*	5,920	23,217	35,678	4,020
2020											
Jan.	6,630	2,130	955	8600*	2,041	400*	3600*	4,780	22,546	36,171	4,020
Feb.	7,440	2,130	955	8600*	1,966	400*	3600*	4,780	22,431	36,261	4,020
Mar.	6,205	2,130	955	8600*	1,966	268*	3600*	4,780	22,211	32,855	4,020
Apr.	5,375	2,130	955	8600*	1,761	268*	3600*	4,780	22,094	31,171	4,020
May.	2,455	2,130	955	8600*	1,850	268*	3600*	5,090	22,183	28,129	4,020
Jun.	4,230	2,130	955	8600*	1,697	268*	3600*	5,080	22,330	29,666	4,020
Jul.	3,675	2,130	955	8600*	1,645	268*	3600*	5,070	22,268	29,226	4,020
Aug.	5,040	2,130	955	8600*	1,520	268*	3600*	5,080	22,143	30,811	4,020
Sep.	5,550	2,130	955	8600*	1,663	432*	3600*	5,100	22,480	31,518	4,020
Oct.	4,533	2,130	955	8600*	1,621	432*	3600*	5,060	22,398	31,119	4,020
Nov.	3,805	2,130	955	8600*	1,473	432*	3600*	5,100	22,290	31,100	4,020
Dec.	1,890	2,130	955	8600*	1,473	271*	3600*	5,100	22,129	29,464	4,020
2021											
Jan.	820	2,130	955	8600*	1,570	271*	3600*	5,240	22,366	29,477	4,020
Feb.	1,745	2,130	955	8600*	1,578	271*	3600*	5,910	23,044	33,151	4,020
Mar.	1,740	2,130	955	8600*	1,573	181*	3600*	4,540	21,579	31,734	4,020
Apr.	1,245	2,130	955	8600*	1,573	181*	3600*	4,550	21,589	30,572	4,020
May	755	2,130	955	8600*	1,573	181*	3600*	4,550	21,589	28,232	4,020
Jun.	2,015	2,130	955	8600*	1,573	181*	3600*	4,500	21,539	27,012	4,020
Jul.	2,290	2,130	955	8600*	1,573	181*	3600*	4,460	21,499	26,954	4,020
Aug.	1,395	2,130	955	8600*	1,581	181*	3600*	4,440	21,487	24,199	4,020
Sep.	1,235	2,130	955	8600*	1,518	265*	3600*	4,440	21,508	24,344	4,020
Oct.	670	2,130	955	8600*	1,518	265*	3600*	4,510	21,508	23,287	4,020
Nov.	1,285	2,130	955	8600*	1,548	265*	3600*	4,530	21,508	24,894	4,020
Dec.	2,045	2,130	955	8600*	1,545	377*	3600*	4,530	21,737	25,142	4,020
2022											
Jan.	2,390	2,130	955	8600*	1,545	181*	3600*	5,040	22,051	27,505	4,020
Feb.	2,245	2,130	955	8600*	1,550	181*	3600*	5,060	22,076	27,342	4,020
Mar.	2,000	2,130	955	8600*	1,535	181*	3600*	4,940	21,941	26,552	4,020
Apr.	2,010	2,130	955	8600*	1,551	681*	3600*	4,750	22,267	26,222	4,020
May	1,990	2,130	955	8600*	1,572	681*	3600*	4,710	22,248	26,496	4,020
Jun.	2,765	2,130	955	8600*	1,616	681*	3600*	4,710	22,292	28,808	4,020
Jul.	3,330	n.y.a	n.y.a	n.y.a	n.y.a	n.y.a	3600*	n.y.a	n.y.a	n.y.a	n.y.a

*

: at producer

n.y.a

: not yet available

Source

: World Bureau of Metal Statistics

MALAYSIAN 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.
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	3,868	12	1,295	-	-	-	-	-	-	3,184	12	1,075	-	-	-	424	-	-	260	11	220
2019	3,611	13	1,387	-	-	-	-	-	-	3,103	13	1,201	-	-	-	244	-	-	264	11	186
2020	2,963	14	1,534	-	-	-	-	-	-	2,780	10	1,348	-	-	-	125	-	-	58	11	186
2021**	2,979	13	1,844	-	-	-	-	-	-	2,796	13	1,624	-	-	-	119	-	-	64	11	220
2019																					
Jan.	325	11	1,242	-	-	-	-	-	-	272.0	11	1,025	-	-	-	28.7	-	-	24.8	11	217
Feb.	278	12	1,262	-	-	-	-	-	-	243.3	12	1,070	-	-	-	22.1	-	-	12.5	11	192
Mar.	324	13	1,289	-	-	-	-	-	-	286.0	13	1,097	-	-	-	18.4	-	-	20.0	11	192
Apr.	301	13	1,290	-	-	-	-	-	-	250.1	13	1,098	-	-	-	16.1	-	-	34.6	11	192
May	282	12	1,283	-	-	-	-	-	-	240.2	12	1,091	-	-	-	22.2	-	-	19.4	11	192
Jun	213	12	1,254	-	-	-	-	-	-	181.9	12	1,067	-	-	-	15.3	-	-	15.7	11	187
July	263	12	1,282	-	-	-	-	-	-	227.1	12	1,095	-	-	-	15.9	-	-	20.4	11	187
Aug.	299	10	1,396	-	-	-	-	-	-	260.2	10	1,209	-	-	-	20.0	-	-	19.1	11	187
Sep.	320	10	1,281	-	-	-	-	-	-	280.6	10	1,094	-	-	-	20.5	-	-	19.4	11	187
Oct.	312	12	1,441	-	-	-	-	-	-	262.6	12	1,255	-	-	-	15.4	-	-	33.5	11	186
Nov.	323	12	1,391	-	-	-	-	-	-	276.4	12	1,205	-	-	-	18.1	-	-	28.1	11	186
Dec.	356	12	1,387	-	-	-	-	-	-	309.4	12	1,201	-	-	-	31.1	-	-	15.7	11	186
2020																					
Jan.	289	12	1,434	-	-	-	-	-	-	273.0	12	1,248	-	-	-	11.4	-	-	3.6	11	186
Feb.	266	12	1,387	-	-	-	-	-	-	234.0	12	1,201	-	-	-	20.1	-	-	11.4	12	186
Mar.	162	13	1,550	-	-	-	-	-	-	143.9	13	1,364	-	-	-	13.2	-	-	4.6	12	186
Apr.	36	13	1,410	-	-	-	-	-	-	34.2	13	1,224	-	-	-	1.8	-	-	-	12	186
May	252	13	1,401	-	-	-	-	-	-	233.4	13	1,215	-	-	-	15.5	-	-	3.2	11	186
Jun	278	12	1,391	-	-	-	-	-	-	261.4	12	1,205	-	-	-	12.0	-	-	4.4	11	186
July	272	12	1,411	-	-	-	-	-	-	258.4	12	1,225	-	-	-	9.0	-	-	4.2	11	186
Aug.	277	13	1,567	-	-	-	-	-	-	263.7	13	1,381	-	-	-	9.2	-	-	3.8	11	186
Sep.	292	14	1,572	-	-	-	-	-	-	274.5	14	1,386	-	-	-	11.7	-	-	5.8	11	186
Oct.	295	13	1,562	-	-	-	-	-	-	283.7	13	1,376	-	-	-	6.9	-	-	4.1	11	186
Nov.	272	14	1,573	-	-	-	-	-	-	257.1	14	1,387	-	-	-	6.0	-	-	8.4	11	186
Dec.	272	10	1,534	-	-	-	-	-	-	261.4	10	1,348	-	-	-	7.1	-	-	3.3	11	186
2021**																					
Jan.	278	10	1,539	-	-	-	-	-	-	252.1	10	1,353	-	-	-	19.0	-	-	6.5	11	186
Feb.	257	11	1,541	-	-	-	-	-	-	238.9	11	1,355	-	-	-	12.5	-	-	5.5	11	186
Mar.	290	10	1,550	-	-	-	-	-	-	271.9	10	1,364	-	-	-	12.9	-	-	5.0	11	186
Apr.	294	11	1,551	-	-	-	-	-	-	277.7	11	1,365	-	-	-	11.0	-	-	5.5	11	186
May.	262	11	1,508	-	-	-	-	-	-	244.5	11	1,322	-	-	-	11.3	-	-	5.8	11	186
Jun.	44	10	1,450	-	-	-	-	-	-	40.1	10	1,264	-	-	-	0.0	-	-	4.2	11	186
Jul.	204	10	1,450	-	-	-	-	-	-	199.2	10	1,264	-	-	-	1.0	-	-	3.7	11	186
Aug.	233	9	1,547	-	-	-	-	-	-	218.1	9	1,361	-	-	-	11.4	-	-	3.7	11	186
Sep.	262	10	1,794	-	-	-	-	-	-	245.4	10	1,608	-	-	-	11.4	-	-	4.8	11	186
Oct.	292	12	1,358	-	-	-	-	-	-	276.2	12	1,138	-	-	-	11.0	-	-	4.7	11	220
Nov.	270	13	1,844	-	-	-	-	-	-	255.6	13	1,624	-	-	-	9.0	-	-	5.7	11	220
Dec.	294	13	1,844	-	-	-	-	-	-	276.2	13	1,624	-	-	-	8.1	-	-	9.4	11	220
2022**																					
Jan.	234	13	1,743	-	-	-	-	-	-	218.6	13	1,557	-	-	-	7.9	-	-	7.2	11	186
Feb.	252	12	1,736	-	-	-	-	-	-	234.2	12	1,550	-	-	-	6.5	-	-	10.9	11	186
Mar.	306	12	2,302	-	-	-	-	-	-	272.9	12	2,117	-	-	-	11.4	-	-	21.8	11	185
Apr.	273	12	1,834	-	-	-	-	-	-	251.0	12	1,649	-	-	-	12.1	-	-	10.4	10	185
May	276	15	1,849	-	-	-	-	-	-	262.5	15	1,658	-	-	-	12.0	-	-	1.4	10	191

Source : Department of Mineral and Geoscience Malaysia

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

** Preliminary

- Nil

**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
2016	4,158	30,536	26,849	2,238	27,470
2017	3,894	29,866	27,211	2,707	27,147
2018	3,868	27,450	27,115	1,964	27,342
2019	3,611	25,644	24,387	1,441	24,418
2020	2,963	22,288	22,367	1,512	22,597
2021*	2,980	322	16,634	1,156	16,441
2019					
Jan.	325	2,169	1,887	125	2,205
Feb.	278	1,700	1,912	99	1,694
Mar.	324	2,263	2,169	134	2,195
Apr.	301	2,090	2,145	125	2,097
May.	282	1,842	1,836	145	1,891
Jun.	213	2,393	1,536	129	1,630
Jul.	263	2,393	2,491	144	2,347
Aug.	299	2,381	2,476	122	2,257
Sep.	320	1,998	2,234	111	1,886
Oct.	312	2,506	1,478	111	1,790
Nov.	323	2,147	2,137	105	2,086
Dec.	356	1,762	2,086	91	2,340
2020					
Jan.	289	2,136	2,314	93	2,180
Feb.	266	1,449	1,880	119	2,226
Mar.	162	1,105	1,228	71	1,191
Apr.	36	1,198	1,110	75	933
May.	252	2,187	1,344	99	1,516
Jun.	278	1,927	1,926	190	1,644
Jul.	272	1,972	1,819	150	2,240
Aug.	277	2,785	2,672	151	2,290
Sep.	292	2,398	2,057	138	2,198
Oct.	295	1,565	2,078	146	2,126
Nov.	272	1,536	1,974	125	2,108
Dec.	272	2,030	1,965	155	1,945
2021*					
Jan.	278	28	1,639	145	1,770
Feb.	257	29	1,847	70	1,765
Mar.	290	46	2,041	113	1,982
Apr.	294	47	1,680	115	1,836
May.	262	26	1,861	91	1,638
Jun.	44	0	695	86	894
Jul.	204	21	973	84	507
Aug.	233	19	1,115	86	1,085
Sep.	262	59	1,221	85	1,599
Oct.	292	16	1,349	98	1,165
Nov.	270	10	1,086	91	1,172
Dec.	294	21	1,127	92	1,028
2022*					
Jan.	234	n.y.a	n.y.a	n.y.a	n.y.a
Feb.	252	n.y.a	n.y.a	n.y.a	n.y.a
Mar.	306	n.y.a	n.y.a	n.y.a	n.y.a
Apr.	273	n.y.a	n.y.a	n.y.a	n.y.a
May	276	n.y.a	n.y.a	n.y.a	n.y.a

* : Preliminary

n.y.a : Not yet available

Sources : Department of Statistics, Malaysia
Department of Mineral and Geoscience Malaysia
Malaysia Smelting Corporation Bhd.

MALAYSIA'S DOMESTIC TIN CONSUMPTION (In Tonnes)

PERIOD	TOTAL CONSUMPTION	SOLDER *	TINPLATE	PEWTER	OTHERS *
2016	2,238	1,314	750	86	88
2017	2,707	1,348	737	63	559
2018	1,964	1,019	759	39	147
2019	1,441	695	639	19	88
2020	1,512	738	626	8	140
2021**	1,156	395	710	6	45
2019					
Jan.	125	66	51	1	7
Feb.	99	60	35	0	4
Mar.	134	69	56	1	8
Apr.	125	51	64	2	8
May	145	70	62	1	12
Jun.	129	66	56	1	6
Jul.	144	91	47	3	3
Aug.	122	60	51	1	10
Sep.	111	41	60	3	7
Oct.	111	41	59	3	8
Nov.	105	45	52	1	7
Dec.	91	35	46	2	8
2020					
Jan.	93	40	48	0	5
Feb.	119	62	52	0	5
Mar.	71	22	45	0	4
Apr.	75	19	53	0	3
May	99	49	44	0	6
Jun.	190	74	67	3	46
Jul.	150	84	55	3	8
Aug.	151	49	65	0	37
Sep.	138	85	46	0	7
Oct.	146	77	59	0	10
Nov.	125	78	40	2	5
Dec.	155	99	52	0	4
2021**					
Jan.	145	73	66	1	5
Feb.	70	30	37	0	3
Mar.	113	40	68	0	5
Apr.	115	39	68	1	7
May	91	40	46	0	5
Jun	86	29	50	0	7
Jul.	84	20	64	0	0
Aug.	86	25	57	0	4
Sep.	85	30	53	2	0
Oct.	98	29	69	0	0
Nov.	91	20	69	2	0
Dec.	92	20	63	0	9
2022**					
Jan.	n.y.a	n.y.a	56	n.y.a	n.y.a
Feb.	n.y.a	n.y.a	69	n.y.a	n.y.a
Mar.	n.y.a	n.y.a	58	n.y.a	n.y.a
Apr.	n.y.a	n.y.a	67	n.y.a	n.y.a
May	n.y.a	n.y.a	54	n.y.a	n.y.a
Jun	n.y.a	n.y.a	50	n.y.a	n.y.a

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

** : Preliminary.

n.y.a : not yet available

Sources : Department of Mineral and Geoscience Malaysia
Malaysia Smelting Corporation Bhd
Perstima 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 which are actual tin consumption data.

WORLD MINE PRODUCTION (In Tonnes)

	2016	2017	2018	2019	2020	2021	2022	2022	2022	2022	2022	2022
							Jan	Feb	Mar	Apr	May	June
EUROPE												
Portugal	48	56	60	108	108	108	9	9	9	9	9	9
Spain	7	23	32	147	74	49	2	2	2	2	2	2
Russia	1,140	702	1,200	2,264	2,538	2,920	244	250	182	237	237	238
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
AFRICA												
Burundi	51	123	126	143	121	127	47	50	50	50	50	50
DR Congo	4,128	7,145	9,000	6,250	13,508	15,000	1,500	1,500	1,500	1,500	1,500	1,500
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Namibia	-	-	-	9	242	499	45	53	50	50	52	50
Nigeria	3,827	5,964	8,784	7,020	5,848	6,900	500	500	500	500	500	500
Rwanda	2,621	3,508	2,400	2,223	1,692	2,122	150	150	150	150	150	150
South Africa	-	-	-	-	-	-	-	-	-	-	-	-
Zimbabwe	-	-	-	-	-	-	-	-	-	-	-	-
Tanzania	104	68	6	18	1,600	1,200	100	100	100	100	100	100
Uganda	-	66	53	50	-	-	-	-	-	-	-	-
ASIA												
China	153,100	163,000	157,500	142,900	161,300	152,200	10,500	10,500	10,500	11,000	13,800	6,600
Indonesia	60,000	60,000	84,000	86,400	65,400	60,000	5,000	5,000	5,000	5,000	5,000	5,000
Kazakhstan	-	-	2	-	-	-	-	-	-	-	-	-
Laos	1,308	779	566	1,156	1,237	1,415	249	157	200	337	54	50
Malaysia	4,123	3,967	3,999	4,080	3,183	3,180	265	265	265	265	265	265
Mongolia	36	50	60	110	120	120	10	10	10	10	10	10
Myanmar	47,435	58,883	45,900	33,750	29,100	29,544	1,800	1,800	4,300	1,900	800	800
Thailand	124	705	720	720	720	720	60	60	60	60	60	60
Vietnam	5,520	4,560	4,560	5,520	5,420	5,400	450	450	450	450	450	450
AMERICA												
Bolivia	17,614	17,973	17,259	17,194	14,710	19,462	1,700	1,700	1,700	1,500	1,500	1,500
Brazil	25,500	18,000	18,000	18,000	15,000	17,168	1,500	1,500	1,500	1,500	1,500	1,500
Peru	18,789	17,790	18,601	19,683	20,647	26,995	2,410	2,043	2,366	2,373	2,406	2,287
U.S.A.	-	-	-	-	-	-	-	-	-	-	-	-
OCEANIA												
Australia	6,635	7,217	6,871	7,738	7,836	8,691	600	600	600	900	900	900
WORLD TOTAL	351,948	370,299	379,482	355,116	320,452	353,820	26,942	26,699	29,494	27,893	29,345	22,021

Source : World Bureau of Metal Statistics

- : Nil

WORLD REFINED TIN CONSUMPTION (In Tonnes)

	2016	2017	2018	2019	2020	2021	2022	2022	2022	2022	2022	2022
							Jan	Feb	Mar	Apr	May	June
EUROPE												
Austria	3,323	4,148	3,983	3,082	2,960	4,057	250	200	204	200	328	300
Belgium	2,400	697	720	720	720	720	60	60	60	60	60	60
Bulgaria	101	1	117	210	240	303	20	20	20	20	20	20
Czech Republic	515	532	603	605	335	439	36	22	24	29	24	20
Denmark	3	17	7	1	10	17	1	1	1	1	1	1
Finland	86	51	77	94	72	95	3	10	18	0	1	1
France	4,736	5,456	6,080	5,020	4,982	3,643	242	280	351	471	284	386
Germany	18,242	20,284	20,236	18,441	14,898	16,052	1,000	1,252	1,410	1,561	1,365	1,685
Greece	632	600	646	634	637	646	50	60	50	50	50	51
Hungary	145	1,177	2,050	2,036	1,714	1,706	100	100	130	130	122	100
Ireland	4	0	2	0	0	1	0	0	0	0	0	0
Italy	3,495	3,974	4,678	4,324	3,402	4,153	300	300	522	500	479	500
Netherlands	6,000	6,000	6,000	6,000	5,400	5,400	450	450	450	450	450	450
Norway	0	1	1	1	10	0	0	0	0	0	0	0
Poland	3,669	3,537	3,723	3,335	1,580	1,012	125	50	30	30	103	32
Portugal	554	856	891	831	463	476	60	90	10	10	197	58
Romania	336	516	866	551	442	554	25	20	50	50	64	60
Russia	995	1,339	495	1,914	1,443	2,015	99	175	175	175	180	180
Slovakia	465	645	767	593	614	669	40	27	68	47	70	46
Spain	1,495	1,605	1,652	1,563	1,898	1,715	160	100	200	200	148	150
Sweden	6,492	5,457	6,020	5,835	5,343	6,105	600	530	549	550	517	541
Switzerland	47	69	45	60	44	46	1	10	10	10	13	10
United Kingdom	979	936	961	262	102	80	2	14	12	4	10	12
Yugoslavia	1,080	1,080	1,080	1,080	240	960	80	80	80	80	80	80
Other Europe	720	720	720	720	530	480	40	0	40	40	40	40
AFRICA												
Egypt	107	119	225	174	139	181	20	15	15	15	10	10
Morocco	21	15	22	20	22	27	3	0	2	5	6	4
Nigeria	300	623	1,436	1,322	240	240	20	20	20	20	20	20
South Africa	1,047	957	633	604	326	340	59	24	36	44	34	35
Other Africa	720	720	720	720	530	480	40	0	40	40	40	40
ASIA												
China	191,415	183,391	174,183	177,891	216,152	191,061	13,800	13,487	16,747	18,109	20,865	10,670
Hong Kong	1,800	1,800	3,300	3,600	480	1,359	130	130	130	130	130	130
India	9,088	9,861	11,365	10,615	9,734	10,566	912	900	910	900	694	934
Indonesia	1,200	1,200	1,200	1,200	1,200	1,200	100	100	100	100	100	100
Iran	987	1,058	1,573	2,221	2,261	1,600	100	100	100	100	100	100
Japan	26,113	29,111	28,084	24,905	20,198	28,383	1,923	2,233	2,130	1,794	1,893	2,038
Kazakhstan	490	431	405	350	287	0	5	50	50	0	0	45
Malaysia	1,560	1,560	1,560	1,560	1,560	1,560	130	130	130	130	130	130
Pakistan	279	300	489	311	194	322	16	16	15	0	30	30
Philippines	506	220	307	1,385	776	1,045	75	24	16	97	109	29
Singapore	1,960	1,920	1,920	1,920	1,720	1,920	160	160	160	160	160	160
South Korea	14,199	13,112	13,927	11,957	13,405	14,457	1,135	858	1,229	1,274	1,220	928
Syria	120	120	120	0	0	0	0	0	0	0	0	0
Taiwan	4,140	4,494	4,576	4,569	10,096	8,772	580	742	861	900	726	640
Thailand	3,131	4,259	3,000	3,000	3,000	3,000	250	250	250	250	250	250
Turkey	2,416	3,110	3,215	3,202	3,746	4,158	350	522	576	529	272	311
United Arab Emirates	4,800	4,800	3,600	3,600	2,160	2,160	180	180	180	180	180	180
Vietnam	6,000	6,000	4,200	3,600	4,639	4,622	380	380	380	380	380	380
Other Asia	2,160	2,160	2,160	2,160	1,690	1,560	130	0	130	130	130	130
AMERICA												
Argentina	878	596	674	420	1,108	799	40	35	26	39	43	40
Bolivia	480	480	480	480	480	480	40	40	40	40	40	40
Brazil	17,258	10,009	9,357	9,398	3,333	2,466	40	85	84	100	100	100
Canada	2,887	2,562	2,489	2,387	1,871	3,264	148	493	351	350	350	350
Chile	111	82	95	111	133	130	16	5	5	7	10	11
Colombia	300	280	271	248	237	207	33	10	4	5	12	12
Mexico	4,160	4,197	4,906	4,779	4,406	4,661	400	400	454	450	242	250
Peru	216	216	216	216	198	216	18	18	18	18	18	18
U.S.A.	29,455	31,476	34,664	31,057	29,191	34,559	4,736	2,297	2,773	1,812	2,701	1,602
Venezuela	59	19	16	12	10	12	1	1	1	1	1	1
Other America	420	420	420	420	275	240	20	0	20	20	20	20
OCEANIA												
Australia	215	259	284	375	255	317	0	20	49	54	9	56
New Zealand	7	49	46	41	30	65	0	5	0	12	0	9
WORLD TOTAL	387,563	381,702	378,582	368,742	384,161	377,773	29,735	27,582	32,497	32,884	35,657	24,601

Source : World Bureau of Metal Statistics