



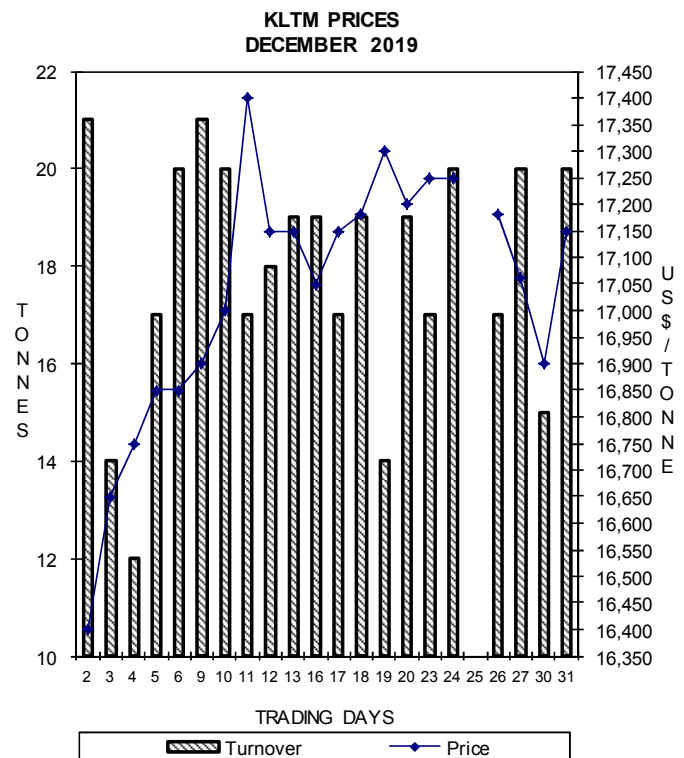
DECEMBER TIN MARKET REVIEW

Kuala Lumpur Tin Market (KLTM)

The Kuala Lumpur Tin Market (KLTM) opened the final trading month of 2019 at US\$16,400 per tonne, the month's lowest price level. Thereafter, it strengthened towards end of the first trading week before staying flat at the close.

The market strengthened during the first half of the second trading week to record the month's highest price level at US\$17,400 per tonne on 11th December due to strong buying demand, and in line with the stronger tin price on the London Metal Exchange (LME). The tin price softened, thereafter, before ending the trading week unchanged due to the gloomy global financial and economic outlook following the prolonged US and China trade war.

The local physical tin market eased at the start of the third trading week. The decline, however, was short lived as it rebounded and strengthened for the next three consecutive days as demand recovered especially from overseas buyers, as reflected from the high turnover recorded during the trading week. The KLTM was also in-line with the stronger LME. It ended the trading week lower due to a technical correction.



The tin price rebounded slightly at the opening of the fourth trading week and stayed unchanged the subsequent day as traders adopted a wait and see attitude. The market was quiet towards end of the trading week as most traders were away on holiday.

During the short final trading week, the tin price eased further at the opening, in-line with the weaker tin price on the LME, before rebounding the subsequent day to close the trading month of December at US\$17,150 per tonne as buying demand recovered after traders gradually returned to work.

The December average daily turnover was 18 tonnes, lower than the November's average of 20 tonnes. The highest daily turnover recorded for the month was 21 tonnes and the lowest was 12 tonnes. The average tin price for December was US\$16,883 per tonne, higher than November's average of US\$16,624 per tonne. The metal was traded within a price range of US\$16,400 to US\$17,400 per tonne during the month. There were 21 days of trading during the month as the market was closed on 25th December in conjunction with the Christmas Day holiday. ♦

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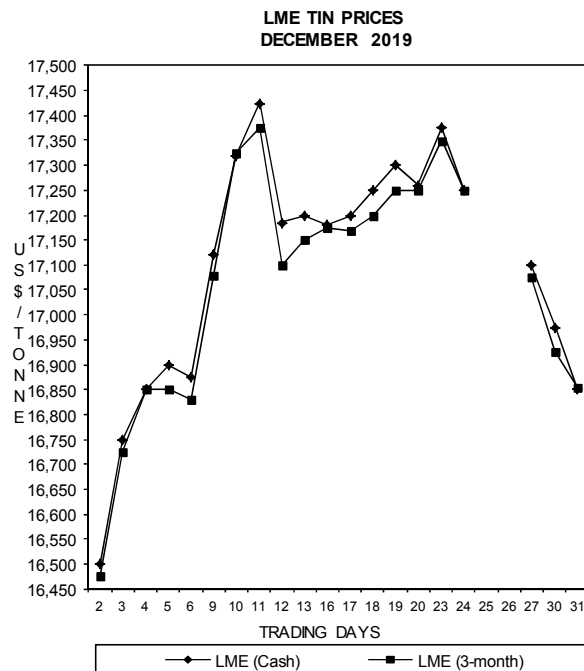
Tin trading on the London Metal Exchange (LME) during the month of December was fairly up-beat with technical corrections coming into play, checking prices somewhat from rising further.

Tin prices on the LME started the trading month at US\$16,500 per tonne for cash tin and US\$16,475 per tonne for 3-month tin, their lowest level for the month, respectively. Thereafter, they strengthened for the next two consecutive days before staying somewhat flat towards end of the first trading week.

Tin prices continued to strengthen towards middle of the second trading week due to strong buying support, and in-line with the upward momentum of other base metals traded on the LME. It was during this period that the month's highest price level for cash and 3-month tin were recorded at US\$17,425 and US\$17,375 per tonne, respectively. They were both recorded on 11th December. Prices, however, softened towards end of the trading week as sellers dominated the market, taking advantage from the earlier high prices.

Tin prices rose gradually throughout the third trading week with buyers, this time, taking control of the market.

Strong demand pushed-up tin prices further at the opening of the fourth trading week. The climb, however, was short lived as they softened towards end



of the trading week as sellers again took advantage from the earlier high prices.

Prices again eased during the short final trading week to close the last trading month of the year at US\$16,850 per tonne for cash tin and US\$16,855 per tonne for 3-month tin.

The December average LME cash and 3-month tin prices were US\$17,093 and US\$17,063 per tonne, respectively.

NEWS ROUND UP

Continuing Decline in China's Tin Imports

China's refined tin imports in October were lower than expected despite the large arbitrage between the Chinese domestic tin price and that of the LME.

The country's import arbitrage continued to widen from September with the SHFE tin price performing better than the LME. Normally, this should have boosted the imports of refined tin into the country.

However, latest statistics from China's Customs Department showed that refined tin imports in October declined by 46 per cent to just 170 tonnes, month-on-month, (MoM), but higher by 25 per cent, year-on-year, (YoY). China imported 314 tonnes of refined tin in September, exceeding exports for the first time this year.

The Custom's statistics also showed that China imported more than 12,500 tonnes of tin ore and concentrate in October, with 12,000 tonnes originating from Myanmar. The estimated tin content for the entire October tin ore and concentrate imports was 3,700 tonnes, 35 per cent lower MoM but 12 per

cent higher YoY, while that from Myanmar were 3,400 tonnes, 33 per cent lower MoM but 10 per cent higher YoY. The estimated tin content of these imports so far this year were 41,100 tonnes, 12 per cent lower compared with the same period in 2018.

Aus Tin Mining to Restart Granville Mine

Aus Tin Mining, an Australian-based exploration and tin production company, has announced that it will restart its Granville mine operation in the first quarter of 2020 after having placed it on temporary care and maintenance in October.

The company has agreed to a funding package that will allow it to resume mining. The package consists of loans from Ten Mining Pty Ltd amounting up to AU\$1.5 million, which will be split into three equal tranches of AU\$500,000 each.

Granville stopped operation in October following a strategic review that highlighted several Key Performance Indicators were missed. The review was conducted after the failure of a number of key equipment, including the excavator. Although the company found a smaller replacement, the loss of the mine truck soon after prevented the continuation of mining. The total restart costs at the time of review was estimated at AU\$500,000, which is the first tranche of the funding package. However, the company has decided not to repair the failed equipment, but instead rent them to avoid any future significant delays.

Conducted in September, the review also highlighted several upside options for Granville. The use of

additional pre-concentration before ball milling could increase production rate. Modifying the crushing circuit by adding a magnetic separator to it will increase the grade of material entering the processing plant. The process flow is currently undergoing trials.

The review further highlighted several regional exploration targets. The company has now identified a number of target areas to focus on once the pending exploration licence is granted, expected to be sometime in the first quarter of next year. Aus Tin also plans to extend its mining lease, allowing it to expand Granville's mining and processing operations. The second AU\$500,000 tranche will fund both the upgraded processing flow and exploration work.

Ten Mining, as the Investor, has proposed that Granville be the foundation asset for a proposed IPO of a Tasmanian focused mining and exploration company. To facilitate this, Aus Tin has moved the Granville asset to a wholly owned subsidiary called Ten Star Mining Pty Ltd. The Investor will hold a 40 per cent stake in Ten Star when the loans are converted into shares before the IPO. Upon demerging Ten Star Mining from Aus Tin Mining, the former will focus on operating Granville, while the latter will develop Tarrunga and explore the Mt Cobalt prospect. The final AU\$500,000 tranche will be used to cover the corporate costs of the proposed IPO.

Renison's Production Expected to be Lower

Metals X, a Tasmanian tin miner, expects its tin production to decline during the January to June 2020 period. Its tin-in-concentrate production during the said period will be some 1,000 tonnes lower than previously expected.

Metals X has been working on the Area 5 project during 2019, an area of high-grade mineralisation within the Renison mine. Area 5 has a grade of 1.91 per cent tin, higher than the overall grade of 1.50 per cent. As the project progressed, updated designs and sequencing considerations have delayed stoping. Ore from the Lower Federal area, which is the main section of the mine, has also seen lower grade than expected. The company changed the mining sequence and increased the number of pillars due to geotechnical considerations.

Resulting from the changes made to the mine plan, the company's production is estimated to be between 7,000 to 7,400 tonnes of tin-in-concentrate for financial year 2019/20. Its previous estimate was between 8,000 to 8,500 tonnes. At the same time, the all-in-sustaining cost of the mine is expected to increase. The company has downgraded its targeted cost for the 2019/20 financial year to AU\$18,200 to 19,100 per tonne from AU\$17,000 to 17,500 per tonne.

The company, however, did announce some positive outcomes. The Area 5 Optimisation Study is progressing well, and completion is expected by end of the first quarter of 2020. The information gathered from the study will go into the life of mine schedule, providing production target for the second quarter of 2020. The Metallurgical Improvement Program has also shown tangible results. Metallurgical recovery has improved in line with planned models since 2011, and tin recoveries at an ore grade of 1.50 per cent have increased from about 63 per cent to some 73 per cent. Metals X will also commission an 'On Steam Analyzer' during the third quarter of 2020 that will "provide greater operational control across the process circuit, reduce variability and support further improvements in recovery."

Finally, Metals X has agreed on an option to close the Mt Bischoff mine, which will be developed into a formal proposal and submitted for approval in mid-2020. Total costs during the first six years of closure are estimated to be around AU\$16.3 million. The company took over the mine along with Renison Bell in 2008. The mine produced some 5,000 tonnes of tin-in-concentrate between 2009 and 2011 before being put under care and maintenance in 2011.

(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	
2019	19,168		26	6,445	18,671	18,610	
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	
	May	19,394	19	388	19,531	19,326	
	Jun.	19,065	19	344	19,177	19,076	
	Jul.	18,074	19	416	17,991	17,983	
	Aug.	16,532	20	422	16,577	16,567	
	Sep.	16,730	22	392	16,840	16,834	
	Oct.	16,562	21	464	16,603	16,627	
	Nov.	16,624	20	417	16,369	16,386	
	Dec.	16,883	18	376	17,093	17,063	
2019	Dec.						
	2	16,400	4.1780	68,519	21	16,500	16,475
	3	16,650	4.1728	69,477	14	16,750	16,725
	4	16,750	4.1800	70,015	12	16,850	16,850
	5	16,850	4.1717	70,293	17	16,900	16,850
	6	16,850	4.1650	70,180	20	16,875	16,830
	9	16,900	4.1663	70,410	21	17,120	17,080
	10	17,000	4.1605	70,729	20	17,320	17,325
	11	17,400	4.1610	72,401	17	17,425	17,375
	12	17,150	4.1523	71,212	18	17,185	17,100
	13	17,150	4.1390	70,984	19	17,200	17,150
	16	17,050	4.1370	70,536	19	17,180	17,175
	17	17,150	4.1402	71,004	17	17,200	17,170
	18	17,180	4.1412	71,146	19	17,250	17,200
	19	17,300	4.1382	71,591	14	17,300	17,250
	20	17,200	4.1392	71,194	19	17,260	17,250
	23	17,250	4.1412	71,436	17	17,375	17,350
	24	17,250	4.1403	71,420	20	17,250	17,250
	25		CLOSED				CLOSED
	26	17,180	4.1332	71,008	17		CLOSED
	27	17,060	4.1318	70,489	20	17,100	17,075
30	16,900	4.1142	69,530	15	16,975	16,925	
31	17,150	4.0933	70,200	20	16,850	16,855	

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 Country Stocks	Total Commercial Stocks	US Strategic Stockpile
		Germany	U.K	Indonesia	Japan	Malaysia*	Brazil*	U.S.A			
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
2018	2,165	2,130	955	2587*	1,469	439*	3600*	5,610	16,790	27,226	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	2,130	955	3246*	1,134	407*	3600*	6,400	17,872	27,857	4,020
Aug.	2,940	2,130	955	3246*	1,093	407*	3600*	6,310	17,741	26,728	4,020
Sep.	2,865	2,130	955	3246*	1,414	677*	3600*	6,310	18,332	27,715	4,020
Oct.	3,085	2,130	955	3246*	1,414	677*	3600*	6,310	15,332	25,139	4,020
Nov.	3,045	2,130	955	3246*	1,510	677*	3600*	5,610	17,728	29,299	4,020
Dec.	2,165	2,130	955	2587*	1,469	439*	3600*	5,610	16,790	27,226	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	209*	3600*	5,510	23,017	34,215	4,020
Oct.	6,020	2,130	955	8600*	2,100	209*	3600*	5,510	23,104	33,684	4,020
Nov.	6,235	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

* : at producer

n.y.a : not yet available

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	440
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	3,868	12	1,295	-	-	-	-	-	-	3,184	12	1,075	-	-	-	424	-	-	260	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	310	15	982	-	-	-	-	-	-	256.3	15	977	-	-	-	53.3	-	-	-	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.	324	12	1,309	-	-	-	-	-	-	253.5	12	1,085	-	-	-	36.0	-	-	34.0	10	224
Dec.	307	12	1,295	-	-	-	-	-	-	264.0	12	1,075	-	-	-	25.0	-	-	18.0	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

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	3,868	27,450	27,115	1,964	27,342
2019*	n.y.a	25,644	24,387	1,441	24,418
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.	310	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.	324	1,844	2,563	102	2,746
Dec.	306	1,664	1,874	145	2,074
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.	n.y.a	2,506	1,478	111	1,790
Nov.	n.y.a	2,147	2,137	105	2,086
Dec.	n.y.a	1,762	2,086	91	2,340

* : 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
2019**	1,441	695	639	19	88
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
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

- * : 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

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)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019
									Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct
EUROPE																		
Portugal	45	24	24	84	96	48	56	60	5	5	5	5	9	9	9	9	9	9
Russia	612	600	600	240	240	1,140	702	1,200	100	100	100	100	100	100	100	100	250	250
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AFRICA																		
Democ.Rep. Congo	4,800	2,462	5,220	4,116	2,977	4,128	7,145	9,000	800	800	800	800	800	800	500	500	500	500
Nigeria	1,800	2,400	2,590	2,425	2,100	3,827	5,964	8,784	300	300	540	540	540	540	540	500	500	500
Rwanda	4,167	3,493	3,600	4,245	2,017	2,621	3,508	2,400	200	200	250	300	300	300	200	172	179	150
South Africa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zimbabwe	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	87	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ASIA																		
China	127,400	115,900	148,981	177,300	146,600	153,100	163,000	157,500	11,500	13,900	14,300	13,300	13,700	13,700	13,900	13,100	12,400	13,200
Indonesia	78,000	78,000	84,000	69,600	68,400	60,000	60,000	84,000	7,000	7,000	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200
Kazakhstan	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
Laos	1,200	766	745	840	815	1,308	779	566	328	199	235	235	235	235	235	140	100	100
Malaysia	3,346	3,639	3,685	3,600	3,731	4,123	3,967	3,999	340	340	340	340	340	340	340	340	340	340
Mongolia	24	24	44	72	240	36	50	60	5	5	10	10	10	10	10	10	10	10
Myanmar	534	658	8,943	17,475	2,400	47,435	58,883	45,900	5,900	627	2,420	2,264	2,700	2,300	2,300	2,400	4,300	4,000
Thailand	252	199	119	131	45	124	705	720	60	60	60	60	60	60	60	60	60	60
Vietnam	5,400	5,400	5,400	5,400	3,600	5,520	4,560	4,560	380	380	300	300	300	300	460	460	460	460
AMERICA																		
Bolivia	20,373	19,701	16,976	19,548	20,135	17,614	17,973	17,259	1,450	1,450	1,500	1,500	1,500	1,500	1,500	1,500	1,375	1,375
Brazil	8,200	10,800	13,800	13,800	13,800	25,500	18,000	18,000	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
Peru	29,022	26,097	23,661	12,105	19,511	18,789	17,790	18,601	1,582	1,622	1,841	1,607	1,762	1,800	1,700	1,760	1,800	1,800
U.S.A.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OCEANIA																		
Australia	15,400	6,014	5,888	7,042	7,056	6,635	7,217	6,871	600	600	687	700	550	549	550	575	600	600
WORLD TOTAL	300,575	276,183	324,363	349,035	315,363	351,948	370,299	379,482	32,050	29,088	32,088	30,761	31,606	31,243	31,104	30,326	31,583	32,054

Source : World Bureau of Metal Statistics

