# MALAYSIAN TIN BULLETIN

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### JANUARY TIN MARKET REVIEW

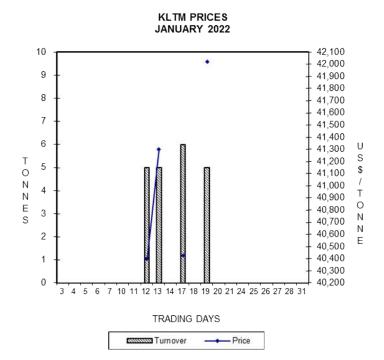
# Kuala Lumpur Tin Market (KLTM)

Tin trading on the KLTM during the first month of the New Year was very sparse due to lack of offers. There was no transaction recorded during the first, fourth and final trading weeks of the month.

The first tin trading transacted during the January month was on 12 January at a price of US\$40,400 per tonne. Another was recorded the next day on 13 January at a price of US\$41,300 per tonne. Total tin traded during the two trading days of the second trading week was only 10 tonnes.

Another two tin trading transactions were recorded on the KLTM during the third trading week of the January. On 17 January, trading was transacted at US\$40,425 per tonne and on 19 January another trading was recorded at US\$42,020 per tonne. Total turnover for these two transactions was 11 tonnes.

During the entire month of January, there were only four days of trading on the KLTM due primarily to supply constraints. The average tin price for the month was US\$41,007 per tonne, higher than the December average of US\$39,500 per tonne. The month's average daily turnover was 5 tonnes, the same as that of December. The highest daily turnover recorded in January was 6 tonnes and the lowest was 5 tonnes.



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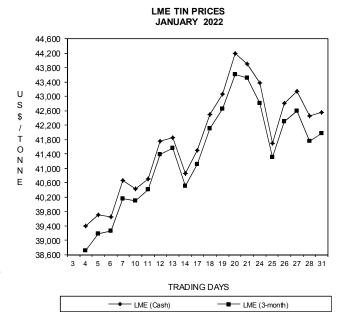
### London Metal Exchange (LME)

Tin trading on the LME in January was mostly upbeat, in line with the other base-metals traded on the Exchange.

The tin market begun the trading month at US\$39,400 per tonne for cash tin and US\$38,700 per tonne for 3-month tin, both being their respective lowest level for the month.

The tin price was persistently strong during the first three trading weeks of the month before softening during the later weeks. According to traders, the upward momentum recorded on the LME during the earlier part of the month was due to strong demand particularly from overseas interests resulting from the weakening US dollar. Its decline during the fourth and final trading weeks was due to weak sentiment and sellers dominating the market taking advantage of the earlier higher prices.

The January average LME cash and 3-month tin prices were US\$41,807 and US\$41,344 per tonne, respectively. Its highest cash price for the month was US\$44,195 per tonne whilst its highest 3-month tin price was US\$43,600 per tonne, which were both recorded on 20<sup>th</sup> January. The month's closing price for cash tin was US\$42,550 per tonne, whilst that for 3-month tin was US\$41,975 per tonne, which were both much higher than their opening level.



### NEWS HIGHLIGHTS

### Tin Price Ends at US\$40,400 per tonne

The Kuala Lumpur Tin Market (KLTM) rose by US\$900 per tonne to end at a historical high of US\$40,400 per tonne yesterday in its first recorded transaction in 2022. A dealer said the metal was last traded at US\$39,500 per tonne on Dec 21, 2021, the first trading session after the market was suspended starting June 9, 2021.

He said the market recorded transactions only on the first day of trading, but remained muted until yesterday due to subdued supply. "Today we saw the first transaction for the metal for the year and demand was very high. At the opening, total bids stood at 482 tonnes, while the offer was only at one tonne.

"As such, the market closed at the highest price ever for the metal, which was also in line with the upward momentum in the London Metal Exchange (LME)," he told Bernama. The premium between the KLTM and the LME narrowed to US\$125 per tonne from US\$1,305 per tonne on Dec 21, 2021.

Buying support came from China, Japan, South Korea, Taiwan, Europe, Pakistan and Bangladesh. At the close, turnover on the KLTM remained at five tonnes, while bids stood at five tonnes and offers at ten tonnes, said the dealer.

(Source: New Straits Times, 13 January 2022)

### Malaysia Smelting Earnings Enhanced by New Plant

Malaysia Smelting Corp Bhd (MSC) could see better earnings this year contributed by its new smelting plant in Pulau Indah and higher global tin prices. According to UOB Kay Hian Research, MSC's smelting plant in Pulau Indah is fully operational based on its ground check. "MSC is on track for a more meaningful recovery growth in 2022 supported by improved production output and better cost savings from the full utilisation of its new ecofriendly plant," it said in a report yesterday.

It said that the full utilisation of the new plant and the lifting of its force majeure came at a good time for MSC as London Metal Exchange (LME) and Shanghai Futures Exchange tin prices continue to surge a whopping 100%, year-on-year, to all-time high of about US\$44,000 (RM184,320) per tonne and US\$52,000 (RM217,830) per tonne on Jan 22.

"Continued supply disruptions from key producing countries like China and Indonesia continue to lend strength to the tin prices amid the growing structural demand globally. While prices may ease gradually entering into 2022, we believe prices will remain firm in the long run, albeit not at the current high, as the structural supply issue may persist," UOB said.

On the plant, the research house expected the new plant to have a lower production cost by 20% compared to the company's old plant in Penang, thanks to the state-of-the -art technology. The plant has a 50% higher capacity of 60,000 tonnes and required less than 40% manpower compared to the previous plant.

"This helps to reduce MSC's carbon footprint via the use of natural gas, solar panels and waste heat recovery. In addition, MSC's smelter is strategically located close to its Port Klang and LME warehouses, allowing vessels to have easy access to shipping routes," UOB said.

It has raised its 2022 and 2023 net profit forecast on MSC by 21% on the back of higher tin price assumptions at US\$34,000 (RM142,452) and US\$30,000 (RM125,688) per tonne, from US\$32,000 (RM134,067) and US\$28,000 (RM117,309) previously, to reflect the prolonged rally in tin prices. Based on its sensitivity analysis, for every US\$2,000 (RM8,379) per tonne rise in its tin price would boost MSC's earnings by about 12% a year.

UOB pointed out that MSC could also benefit from higher demand for "environmentally-friendly commodities". It said that MSC is doubling its efforts to integrate environmental, social and governance (ESG) practices across its business. For instance, MSC's new smelting plant uses 1.26MWp solar PV panels and a waste heat recovery function that will harness thermal energy from the furnace's flue gas to generate power.

"The use of natural gas and the new furnace help to raise efficiency and reduce carbon emissions by at least 1,000 tonne per year, which means MSC's smelter has one of the lowest carbon footprints globally. "These practices could result in MSC becoming the preferred ESG investing target," UOB said.

(Source: The Star, 26 January 2022)

### NEWS ROUND-UP

### Record Production by Alphamin during Q4 2021

Alphamin Resources achieved record tin production from its Bisie mine during the final quarter of 2021.

The mine now produces around 4 per cent of global tin concentrate output. Its tin metal production exceeded 3,000 tonnes during the fourth quarter of 2021, higher by some 10 per cent compared to the previous quarter at 2,832 tonnes. Sale improved by some 13 per cent to 3,056 tonnes during the said final quarter.

A recovery in tin grades was the main contributing factor for Bisie's record output. As expected following its announcement made during the third quarter, Alphamin did hit a pocket of higher-grade material. However, rather than recording a major jump in grade as per achieved during the first and second quarters of 2021 from 3.5 per cent Sn to 4.3 per cent Sn, the company blended the high-grade material with waste. This will continue in the future to keep a more consistent grade profile.

Alphamin's financial performance continued to improve due to the increased output and strong tin price. The company's profitability, measured by its Earnings Before Interest, Taxes, Depreciation and Amortization (EBITDA), rose from US\$53.7 million to US\$74.0 million. As a result, net cash held by the company rose by 6,486 per cent from US\$1.0 million to US\$68.2 million over the quarter. Due to its strong financial position, the company is planning to return nearly 50 per cent of its net cash to investors in the form of a CAD\$0.03 dividend.

Going forward, the company has announced guidance of some 12,000 tonnes of tin-in-concentrate in 2022. It is not expecting to hit any significantly higher-grade mineralization, and thereafter improvements will come from recoveries at its Fine Tin Recovery (FTR) Plant. The FTR Plant was commissioned during the third quarter 2021 and increased its contained tin production by some 5 per cent during its first week. Alphamin is continuing to develop its Mpama South orebody, with results from the latest assay expected during January 2022.

### Low-cost Tin Foil Anodes Developed for Lithium-ion Batteries

Tech startup, Nanode, has developed a low-cost tin foil anode technology for lithium-ion and sodium-ion batteries which could increase volumetric energy density by up to 50 per cent while saving up to 60 per cent on raw material and processing costs.

Tin has a greater volumetric energy density compared to the traditional copper-graphite anode combination, meaning the tin anode can be approximately five times thinner. Tin can actively store lithium ions, whereas copper can only be a conductive support. This reduces both the size of the cell and the cost of raw materials.

There are also opportunities for savings in processing costs. The Nanode product is made with a simple one-step melt-spinning technique and is easily scalable commercially. This is significantly cheaper than the multistep processing of other lithium-ion anodes, often requiring complex nanotechnologies.

The new technology is initially intended for batteries use by the consumer electronics market, with high potential demand and wide margins. Nanode's thinner anodes make it ripe for technologies in which volume is hypercritical – such as the wearables market, currently on a double-digit growth annually.

The startup's pilot plant is located at the University of Alberta, Canada from where it was spun out in spring 2020. Early data from pilot customers using microbatteries is promising, validating increases in energy density and compatibility with jelly-roll battery structures. A framework purchase agreement for an initial supply is in place after third-party validation.

Nanode is reportedly working all out to improve the cycle life of the technology, with 500 cycles being their target for consumer electronics. Currently the cycle life of their lithium and sodium batteries are one hundred and two hundred cycles, respectively. This will be achieved by optimising electrolyte chemistry with the tin foil anode, using machine learning to find the perfect match.

### Penouta Open Pit Started Operation

Strategic Minerals Europe (SME), a Spanish mining and exploration company, has announced that it has begun mining tin from the new open pit at its Penouta project.

Penouta has been in operation since 2018 and is located in north-western Spain. It restarted after a 30-year gap when it ceased operation in 1985. SME claims to be the largest miner of tin on the continent.

Current production comes from the B1 tailings pond, containing 4.8 million tonnes of material, with an average grade of 387 ppm Sn. This is currently being fed into a

1.1 million tonne per annum gravimetric processing plant, producing some 45 tonnes of tin concentrate per month.

The company expects to increase the head grade entering the processing plant after moving to open pit mining. According to SRK's March 2021 Technical Report for the project, the hard rock deposit at Penouta contains 76.3 million tonnes of ore at a grade of 443 ppm as Measured and Indicated Resources. A further 57 million tonnes at 389 ppm Sn are categorised as Inferred Resources.

Production from the open pit will be complemented with feed from the B1 dry stack tailings, increasing it further by 6.8 million tonnes at 458 ppm Sn. SME aims to produce some 90 tonnes of Sn-Ta concentrate per month for the first half of the year and increasing it to 100 tonnes per month in the second half. The concentrate will be approximately 70 per cent cassiterite and 30 per cent tantalum.

With cash flow increasing, SME is targeting to expand its tin production with three additional properties through its phased growth strategy. Initially, the company is investigating whether a smelter would be feasible at Penouta, hoping to produce 99.95 per cent Sn ingots. According to a presentation in December 2021, the company plans to start production from the pyrometallurgical plant in 2022.

The Alberta II lithium-tin project is the company's most advanced project in terms of expanding mine output. Alberta II has a historical (non-JORC Compliant) resource of 12.3 million tonnes at 440ppm Sn. The Macarena and Carlota projects are also seen as having potential for tin. All three projects are located in north-western Spain.

### ITA Appoints New CEO

The International Tin Association (ITA) has appointed Helen Prins as its new CEO effective 1st March 2022 replacing David Bishop who is retiring, and has spent more than 20 years at the forefront of the tin industry. Helen has an MSc in International Development and BA (Hons) in Business Information Technology.

Formerly from Shell, Helen has held sustainability roles for more than 20 years, based in the UK, The Netherlands and Nigeria. Her most recent assignment was leading a cross-functional team to increase in-country value from major energy investments. Before that, she managed Shell's Sustainability Report and global social investment portfolio. She was awarded for outstanding contribution work on generating prosperity for countries and communities as part of Shell's Powering Progress strategy in 2021.

Representing more than two thirds of world tin production, ITA aims to bring leading companies together to give authority, leadership and voice to its members. ITA's expert analysis of tin markets and technologies enables the industry to confidently invest in expanding supply. For more than a decade, sustainability has also been at

the forefront of the organisation's vision, through coordinating tin supply chain efforts to create and implement pioneering ESG operational and reporting standards.

"ITA is delighted to welcome Helen into the world of tin" said Anthony Turner, ITA Board Chairman. "We see many opportunities opening for this unique metal to demonstrate its contribution to a sustainable future. Helen's experience with global scale industry initiatives that deliver shared value to both investors and society comes at the right time for our industry. I would also like to recognise David's outstanding contribution. He has successfully navigated many challenges and brought changes that have ensured ITA's relevance and leadership to support the future of tin."

Helen commented that "I am delighted to be given this opportunity to bring my experience of driving strategic change to the tin industry. It is such an exciting time with tin's increasing role as an enabler of a decarbonised future. I am very much looking forward to being a part of ITA and continuing its leading work on so many fronts."

(Source: International Tin Association Ltd. UK)

### KLTM & LME TIN PRICES

			KLTM			LN	ИΕ
		Average		Average Daily	Total		
_		Price *	Exchange	Turnover	Turnover	Cash	3-Month
-	Period	(US\$/Tonne)	Rates	(Tonnes)	(Tonnes)	(US\$/Tonne)	(US\$/Tonne)
	2016 2017	17,528 20,029		47 37	11,568 8,890	17,982 20,098	17,889 19,994
	2018	20,027		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.	20,417		34	719	20,480	20,372
	Feb.	21,268		37	628	21,268	21,172
	Mar.	21,317		50 38	1,046 833	21,444	21,359 20,560
	Apr. May	20,528 19,394		36 19	388	20,684 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
2020	Dec. Jan.	16,883 17,014		18 19	376 406	17,093 17,056	17,063 17,057
2020	Jan. Feb.	16,536		18	354	16,457	16,456
	Mar.	16,417		20	236	15,321	15,307
	Apr.	<u> </u>	CLOSED	-		15,039	14,949
	May	15,110		17	268	15,410	15,231
	Jun.	16,605		18	374	16,806	16,627
	Jul.	17,287		16	358	17,452	17,375
	Aug.	17,515 17,846		18 21	343 444	17,672 17,946	17,649 17,962
	Sep. Oct.	18,026		∠ i 18	383	18,154	18,152
	Nov.	18,433		20	413	18,568	18,539
	Dec.	19,693		23	509	19,727	19,643
2021	Jan.	22,085		17	314	21,955	21,596
	Feb.	25,965		25	456	26,717	24,415
	Mar.	26,162		21	494	27,396	25,079
	Apr.	27,106		16	327	28,427	26,568
	May Jun.	31,132 31,857		17 12	298 61	32,524 32,678	29,736 30,829
	Jul.	31,037	CLOSED	12	01	34,183	33,010
	Aug.		CLOSED			35,205	34,352
	Sep.		CLOSED			35,048	34,109
	Oct.		CLOSED			37,962	36,567
	Nov.		CLOSED			39,333	38,042
	Dec.	39,500		5	5	39,574	38,956
2022	Jan.	41,007		5	21	41,807	41,344
2022							
JAN	3		NO TRANSACTION				SED 20.700
	4 5		NO TRANSACTION NO TRANSACTION			39,400 39,700	38,700 39,175
	5 6		NO TRANSACTION			39,700	39,175 39,250
	7		NO TRANSACTION			40,650	40,150
	10		NO TRANSACTION			40,425	40,100
	11		NO TRANSACTION			40,700	40,400
	12	40,400	4.1863	169,127	5	41,750	41,380
	13	41,300	4.1805	172,655	5	41,850	41,550
	14 17	40,425	NO TRANSACTION 4.1900	169,381	6	40,850 41,500	40,500 41,100
	18	10,723	4.1900 C L O S E D	107,301	O	42,500	42,100
	19	42,020	4.1962	176,324	5	43,050	42,650
	20		NO TRANSACTION	,-	-	44,195	43,600
	21		NO TRANSACTION			43,900	43,500
	24		NO TRANSACTION			43,375	42,805
	25		NO TRANSACTION			41,700	41,300
	26 27		NO TRANSACTION			42,800	42,300
	27 28		NO TRANSACTION NO TRANSACTION			43,145 42,450	42,600 41,750
	31		NO TRANSACTION			42,550	41,975
		<u> </u>					
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Sources

: The Kuala Lumpur Tin Market London Metal Exchange

Note

<sup>:</sup> 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)

	COUNTRY STOCKS										
Period	LME Stock	Germany	U.K	Indonesia*	Japan	Malaysia*	Brazil*	U.S.A	Total Country Stocks	Total Commercial Stocks	US Strategic Stockpile
0040											
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
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
2018	4.055	0.420	055	20574	4 2 4 7	100+	2.400+	, 700	40.240	05.005	4.000
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	4.045	0.420	055	05074	4.570	420+	2.400+	F 4F0	4 / 420	04.504	4.000
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		0.400	0.55	0.4001	0.044	1001	0.4004	. 700	00 = 47	04.474	4 000
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	+					<del> </del>				<del> </del>	
2021	920	2 120	OEE	9400*	1 570	271*	3400*	5 240	22.277	20 477	4.020
Jan.	820 1.745	2,130	955 055	8600* 8600*	1,570	271* 271*	3600*	5,240	22,366	29,477	4,020
Feb.	1,745	2,130	955 055		1,578		3600*	5,910	23,044	33,151	4,020
Mar.	1,740	2,130	955 055	8600*	1,573	181*	3600*	4,540	21,579	31,734	4,020
Apr.	1,245 755	2,130	955 955	8600* 8600*	1,573	181*	3600* 3600*	4,550	21,589	30,572 28,232	4,020
May		2,130			1,573	181*		4,550	21,589		4,020
Jun.	2,015	2,130	955 055	8600*	1,573	181*	3600*	4,500	21,539	27,012	4,020
Jul.	2,290	2,130	955 055	8600*	1,573	181*	3600*	4,460	21,499	26,954	4,020
Aug.	1,395	2,130	955 055	8600*	1,581	181*	3600*	4,440	21,487	24,199	4,020
Sep.	1,235	2,130	955 055	8600*	1,518	265*	3600*	4,440	21,508	24,344	4,020
Oct.	670	2,130	955 055	8600*	1,518	265*	3600*	4,440	21,508	23,287	4,020
Nov.	1,285	2,130	955	8600*	1,518	265*	3600*	4,440	21,508	24,894	4,020
Dec.	2,045	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
	i	<u> </u>		l		i		<u> </u>	İ	i	

: at producer : 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	AC	GREC	GATE	D	redgi	na	G	ravel	Pump		Open (	Cast	U	nder Gr	round		Panning	1	Amar	a Retre	eatment
TEAR			Emp.	Prod.			Prod.			Prod.	Units	Emp.	Prod.	Units	Emp.	Prod.	Units	Emp.	Prod.	Units	Emp.
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	3,868	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
2018	200	17	1 220							244 5	17	1 000				27.2			2/ 5	1/	242
Jan. Feb.	308 297	17 17	1,330 1,305	-	-	-	-	-	-	244.5 233.4	17 17	1,088 1,063	-	-	-	37.3 36.9	-	-	26.5 26.6	16 16	242 242
Mar.	323	16	1,272	_	-	-	-	-	-	260.4	16	1,003	-	-	-	34.6	-	_	27.6	16	242
Apr.	330	17	1,272		-	-		_	-	268.5	17	1,027		_	_	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	-	-	31.23	10	213
Sep.	280	14	1,308	-	-	-	-	-	-	244.8	14	1,085	-	-	-	30.7	-	-	4.74	10	223
Oct.	319	12	1,280	-	-	-	-	-	-	271.2	12	1,059	-	-	-	31.5	-	-	16.30	10	221
Nov.	324	12	1,309	-	-	-	-	-	-	253.5	12	1,085	-	-	-	36.0	-	-	34.00	10	224
Dec.	307	12	1,295	-	-	-	-	-	-	264.0	12	1,075	-	-	-	25.0	-	-	18.00	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	282 213	12 12	1,283 1,254	-	-	-	-	-	_	240.2 181.9	12 12	1,091 1,067	-	-	-	22.2 15.3	-	-	19.4 15.7	11 11	192 187
Jun July	263	12	1,282		_	_		_	_	227.1	12	1,007	_	_	-	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.	277 292	13 14	1,567 1,572	-	-	-	-	-	-	263.7 274.5	13 14	1,381 1,386	-	-	-	9.2 11.7	-	-	3.8 5.8	11 11	186 186
Sep. Oct.	292 295	13	1,562	-	-	-	-	-	-	283.7	13	1,376	1 -	-	-	6.9	-	_	4.1	11	186
Nov.	272	14	1,573	-	_	_	-	_	_	257.1	14	1,387	_	_	-	6.0	_	_	8.4	11	186
Dec.	272		1,534	-	_	_	-	_	_	261.4	10	1,348	_	_	_	7.1	_	_	3.3	11	186
		. •	,									,0									
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
				l			l						<u> </u>			l					

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
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	2,668 3,343 3,725 3,697 3,777 4,125 4,158 3,894 3,868 3,611 2,963	30,589 30,031 26,537 30,273 31,610 31,965 30,536 29,866 27,450 25,644 22,288	38,771 40,281 37,823 32,633 35,018 30,260 26,849 27,211 27,115 24,387 22,367	2,942 2,341 2,083 1,835 1,581 1,900 2,238 2,707 1,964 1,441 1,512	33,697 42,302 37,212 36,363 35,221 38,319 27,470 27,147 27,342 24,418 22,597
2018 Jan. Feb. Mar. Apr. May. Jun. Jul. Aug. Sep. Oct. Nov. Dec.	308 297 323 330 336 310 342 393 280 319 324 306	2,424 2,046 2,488 2,430 2,895 2,494 2,609 2,619 1,653 2,284 1,844 1,664	2,060 2,214 2,340 2,111 2,343 2,219 2,571 2,470 2,068 2,282 2,563 1,874	171 190 158 192 171 192 162 215 149 117 102	1,950 2,009 2,584 2,401 2,435 2,162 2,687 2,257 1,899 2,138 2,746 2,074
2019 Jan. Feb. Mar. Apr. May. Jun. Jul. Aug. Sep. Oct. Nov. Dec.	325 278 324 301 282 213 263 299 320 312 323 356	2,169 1,700 2,263 2,090 1,842 2,393 2,393 2,381 1,998 2,506 2,147 1,762	1,887 1,912 2,169 2,145 1,836 1,536 2,491 2,476 2,234 1,478 2,137 2,086	125 99 134 125 145 129 144 122 111 111 105	2,205 1,694 2,195 2,097 1,891 1,630 2,347 2,257 1,886 1,790 2,086 2,340
2020 Jan. Feb. Mar. Apr. May. Jun. Jul. Aug. Sep. Oct. Nov. Dec	289 266 162 36 252 278 272 277 292 295 272 272	2,136 1,449 1,105 1,198 2,187 1,927 1,972 2,785 2,398 1,565 1,536 2,030	2,314 1,880 1,228 1,110 1,344 1,926 1,819 2,672 2,057 2,078 1,974 1,965	93 119 71 75 99 190 150 151 138 146 125 155	2,180 2,226 1,191 933 1,516 1,644 2,240 2,290 2,198 2,126 2,108 1,945
2021* Jan. Feb. Mar. Apr. May. Jun. Jul. Aug.	278 257 290 294 262 44 204 233	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 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 n.y.a n.y.a n.y.a n.y.a n.y.a n.y.a

: Preliminary

: Not yet available n.y.a

Sources

Department of Statistics, Malaysia
 Department of Mineral and Geoscience Malaysia

Malaysia Smelting Corporation Bhd.

### MALAYSIA'S DOMESTIC TIN CONSUMPTION (In Tonnes)

	TOTAL				
PERIOD	CONSUMPTION	SOLDER *	TINPLATE	PEWTER	OTHERS *
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	2,942 2,341 2,083 1,835 1,581 1,900 2,238 2,707 1,964 1,441 1,512	1,981 1,458 1,333 1,078 922 1,133 1,314 1,348 1,019 695 738	683 665 573 561 520 608 750 737 759 639 626	169 108 104 100 82 77 86 63 39 19	109 110 73 96 57 82 88 559 147 88 140
2018 Jan. Feb. Mar. Apr. May Jun. Jul. Aug. Sep. Oct. Nov. Dec.	171 190 158 192 171 192 162 215 149 117 102	101 133 93 103 106 116 99 132 62 23 11	57 54 49 78 56 61 60 75 62 69 61	3 1 13 1 1 13 0 1 1 1 0 4	10 2 3 10 8 2 3 7 24 24 30 24
2019 Jan. Feb. Mar. Apr. May Jun. Jul. Aug. Sep. Oct. Nov. Dec.	125 99 134 125 145 129 144 122 111 111 105	66 60 69 51 70 66 91 60 41 41 45 35	51 35 56 64 62 56 47 51 60 59 52 46	1 0 1 2 1 1 3 1 3 3 1 2	7 4 8 8 12 6 3 10 7 8 7
2020 Jan. Feb. Mar. Apr. May. Jun. Jul. Aug. Sep. Oct. Nov. Dec.	93 119 71 75 99 190 150 151 138 146 125	40 62 22 19 49 74 84 49 85 77 78	48 52 45 53 44 67 55 65 46 59 40 52	0 0 0 0 0 3 3 0 0 0	5 5 4 3 6 46 8 37 7 10 5 4
2021** Jan. Feb. Mar. Apr. May Jun Jul. Aug. Sep. Oct. Nov. Dec.	145 70 113 115 91 86 84 86 85 98 n.y.a n.y.a	73 30 40 39 40 29 20 25 30 29 n.y.a n.y.a	66 37 68 68 46 50 64 57 53 69 69	1 0 0 1 0 0 0 2 0 n.y.a n.y.a	5 3 5 7 5 7 0 4 0 0 n.y.a n.y.a

 $^{\star}$  : 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)

2021	Š	0 ц	200	0	1,038	0 45 550 200	100	10,900	50	1,437	450	1,500 1,500 2,170	006	26,389
2021	ö	0 п	200	13	1,200	42 550 200	100	9,200	150	3,300	450	1,500 1,500 1,976	0006	25,686 25,766 26,630 26,389
2021	Sep	0 п	20	13	1,2	42 550 200	100	9,000	150	2,5	450	1,500 1,408 2,281	823	25,766
2021	Aug	ο п	200	13	1,2	- 42 500 200	100	9,000	95	10 2,900	450	1,400 1,408 2,329	200	25,686
2021	Ju	0 п	200	13	1,200	42 500 200	100	6,500	95	10 2,850	450	1,400 1,407 2,354	200	23,160
2021	Jun	0 п	200	13	1,200	42 500 200	100	16,800	95	10 2,850	450	1,400 1,250 2,236	200	33,228
2021	Мау	٥ ٥	200	13	1,200	39 500 200	100	18,700	88 265	10	450	1,500 1,250 2,270	200	33,674
2021	Apr	٥ ٥	200	13	1,200	38 500 200	100	18,700	62 265	10 3,270	450	1,700 1,250 2,338	200	35,867
2021	Mar	٥ ٥	200	1	1,200	38 500 200	100	14,500	104	10 3,633	450	1,700 1,250 2,385	200	32,146
2021	Feb	٥ ٥	200	10	1,200	42 550 200	100	17,000	50 265	1,648	450	1,700 1,250 1,949	200	29,201
2021	Jan	٥ ٥	200	12	1,200	42 575 200	100	17,000 5,000	50 265	1,750	450	1,600 1,250 2,101	200	29,482
2020		108	2,538	121	13,508	242 5,848 1,692	1,600	161,300	1,237	120 29,100	720 5,420	14,710 15,000 20,647	7,836	320,452
2019		108	2,264	143	6,250	- 9 7,020 2,223	18	142,900 86,400	1,156	110 33,750	720 5,520	17,194 18,000 19,683	7,738	355,116
2018		93	1,200	126	000'6	8,784 2,400	- 6 53	157,500 84,000	566 3,999	60 45,900	720 4,560	17,259 18,000 18,601	6,871	379,482
2017		56	702	123	7,145	5,964 3,508	- 68	163,000	3,967	58,883	705 4,560	17,973 18,000 17,790	7,217	351,948 370,299 379,482
2016		48	1,140	51	4,128	3,827	104	153,100	1,308	36 47,435	124 5,520	17,614 25,500 18,789	6,635	351,948
2015		96	240	'	2,977	2,100 2,017	1 1 1 1	146,600	815 3,731	240	45 3,600	20,135 13,800 19,511	7,056	63
2014		84	240	1	4,116	12 2,425 4,245	1 1 1 1	177,300	840 3,600	72 17,475	131	19,548 13,800 12,105	7,042	349,035
2013		24	009	1	5,220	87 2,590 3,600		148,981	745	44 8,943	119	16,976 13,800 23,661	5,888	324,363 349,035 315,3
2012		24	009	1	2,462	2,400	1 1 1 1	115,900	766	24 658	199	19,701 10,800 26,097	6,014	
2011		45	612	1	4,800	- 1,800 4,167	1 1 1 1	127,400	1,200	24 534	252 5,400	20,373 8,200 29,022	15,400	WORLD 300,575 276,183
	14 Ca	Portugal	Russia United Kingdom	AFRICA Burundi	Democ.Re p.Congo	Egypt Namibia Nigeria Rwanda	South Africa Zimbabwe Tanzania Uganda	<b>ASIA</b> China Indonesia Kazakh-	stan Laos Malaysia	Mongolia Myanmar	Thailand Vietnam	AMERICA Bolivia Brazil Peru U.S.A.	<b>OCEANIA</b> Australia	WORLD TOTAL

Source : World Bureau of Metal Statistics

## WORLD REFINED TIN CONSUMPTION (In Tonnes)

Greece   632   600   646   634   637   50   58   51   52   52   52   52   65   51   52     Hungary   145   1,177   2,050   2,036   1,714   185   150   189   150   162   150   120   100   100     Ireland   4   0   0   2   0   0   0   0   0   0   0	t Nov 00 225 60 60
Austria	
Bulgaria   101	60 60
Czech Republic   S15   S32   603   605   335   48   39   25   42   28   36   48   63   28	
Denmark   86   51   77   7   1   10   1   1   1   1   0   1   1	20 20
Finland	28 50
France	1 1
Germany	10 3
Greece   632   600   646   634   637   50   58   51   52   52   52   52   65   51   52   Hungary   145   1,177   2,050   2,036   1,714   185   150   189   150   162   150   120   100   100   Italy   3,495   3,974   4,678   4,324   3,402   265   250   396   350   373   300   388   350   350   Netherlands   6,000   6,000   6,000   6,000   5,400   450	59 286
Hungary   145	09 1,282 50 55
Ireland	00 150
Italy	0 130
Netherlands   6,000   6,000   6,000   6,000   5,400   450   450   450   450   450   450   450   0 0   0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	50 300
Poland         3,669         3,537         3,723         3,335         1,580         90         90         150         150         118         115         62         101         100           Portugal         554         856         891         831         443         88         57         87         42         29         56         7         45         20           Romania         336         516         866         551         442         65         50         63         60         47         60         52         60         40           Russia         995         1,339         495         1,914         1,442         65         50         63         60         47         60         52         60         40           Slovakia         465         645         767         593         614         23         25         40         80         24         88         91         42         64           Spain         1,495         1,605         1,652         1,563         1,898         127         150         95         120         138         120         136         100         20           Sweden	50 450
Portugal   S54   856   891   831   463   88   57   87   42   29   56   7   45   20   20   20   20   20   20   20   2	0 0
Romania         336         516         866         551         442         65         50         63         60         47         60         52         60         40           Russia         995         1,339         495         1,914         1,443         145         78         56         225         377         364         406         400         214           Slovakia         465         645         767         593         614         23         25         40         80         24         88         91         42         64           Spain         1,495         1,605         1,652         1,563         1,898         127         150         95         120         138         120         136         100         200         60         45         60         44         7         5         1         4         4         4         1         4         4         4         1         4	00 100
Russia 995 1,339 495 1,914 1,443 145 78 56 225 377 364 406 400 214 Slovakia 465 645 767 593 614 23 25 40 80 24 88 91 42 64 Spain 1,495 1,605 1,652 1,563 1,898 127 150 95 120 138 120 136 100 200 Sweden 6,492 5,457 6,020 5,835 5,343 591 327 767 650 612 500 315 300 647 Switzerland 47 69 45 60 44 7 5 1 4 4 4 1 4 4 4 1 4 4 United Kingdom 979 936 961 262 102 1 1 2 5 3 3 10 12 3 7 10 Yugoslavia 1,080 1,080 1,080 1,080 240 80 80 80 80 80 80 80 80 80 80 80 80 80	20 20
Slovakia   465   645   767   593   614   23   25   40   80   24   88   91   42   64	40 45
Spain	00 200
Sweden         6,492         5,457         6,020         5,835         5,343         591         327         767         650         612         500         315         300         647           Switzerland         47         69         45         60         44         7         5         1         4         4         4         1         4         4           United Kingdom         979         936         961         262         102         1         2         5         3         10         12         3         7         10           Yugoslavia         1,080         1,080         1,080         1,080         240         80 <td>60 43</td>	60 43
Switzerland         47         69         45         60         44         7         5         1         4         4         4         1         4         4         4         1         4         4         4         1         4         4         4         1         4         4         4         4         4         1         4	00 160
United Kingdom   979   936   961   262   102   1   2   5   3   10   12   3   7   10     Yugoslavia   1,080   1,080   1,080   1,080   1,080   240   80   80   80   80   80   80   80	00 300 4 1
Yugoslavia         1,080         1,080         1,080         1,080         1,080         1,080         240         80	4 1 10 3
Other Europe         720         720         720         720         530         40	80 80
AFRICA         Egypt         107         119         225         174         139         5         5         0         5         20         20         20         20         20           Morocco         21         15         22         20         22         0         3         0         1         3         3         0         0         12           Nigeria         300         623         1,436         1,322         240         20         20         0         20	40 40
Egypt         107         119         225         174         139         5         5         0         5         20 <th< td=""><td></td></th<>	
Morocco         21         15         22         20         22         0         3         0         1         3         3         0         0         12           Nigeria         300         623         1,436         1,322         240         20	20
Nigeria 300 623 1,436 1,322 240 20 20 0 20 20 20 20 20 20 20 20 South Africa 1,047 957 633 604 326 10 10 8 13 73 48 60 10 49 Other Africa 720 720 720 720 530 40 40 40 40 40 40 40 40 40 40 40 40 40	20 ( 12 (
South Africa         1,047         957         633         604         326         10         10         8         13         73         48         60         10         49           Other Africa         720         720         720         720         530         40	20 (
Other Africa 720 720 720 720 530 40 40 40 40 40 40 40 40 40 40 40 40 40	
ASIA China Hong Kong 1,800 1,800 1,800 3,300 3,600 480 40 24 63 130 130 130 130 130 130 130 130 130 13	20 28
China     191,415     183,391     174,183     177,891     216,152     21,231     18,656     19,102     23,229     18,203     21,532     9,746     16,493     11,604     14       Hong Kong     1,800     1,800     3,300     3,600     480     40     24     63     130     130     130     130     130     130     130       India     9,088     9,861     11,365     10,615     9,734     1,013     1,000     1,000     1,000     600     600     652     700     981     1	40 40
Hong Kong   1,800   1,800   3,300   3,600   480   40   24   63   130	
India 9,088 9,861 11,365 10,615 9,734 1,013 1,000 1,000 1,000 600 600 652 700 981 1	02 14,321
	30 130
	59 1,000
Indonesia   1,200   1,200   1,200   1,200   1,200   100   100   100   100   100   100   100   100   100   100	00 100
	00 100
	76 1,844 0 0
Kazakhstan   490   431   405   350   287   0   0   0   0   0   0   0   0   0	0 ( 30 130
Pakistan 279 300 489 311 194 13 13 10 10 21 21 23 21 21	21 10
Philippines 506 220 307 1,385 776 40 40 79 40 34 92 120 58 74	70 83
Singapore 1,960 1,920 1,920 1,920 1,720 160 160 160 160 160 160 160 160 160	60 160
South Korea 14,199 13,112 13,927 11,957 13,405 897 882 1,270 1,895 1,142 1,076 1,187 984 1,153 1	99 631
	0 0
Taiwan 4,140 4,494 4,576 4,569 10,096 603 642 963 800 1,273 1,200 1,444 144 64	60 622
Thailand 3,131 4,259 3,000 3,000 250 250 250 250 250 250 250 250 250	50 250
Turkey 2,416 3,110 3,215 3,202 3,746 256 376 308 247 450 450 537 261 311	54 407
United Arab   4,800   4,800   3,600   3,600   2,160   180   180   180   180   180   180   180   180   180	80 0
Vietnam 6,000 6,000 4,200 3,600 4,639 433 381 388 380 380 380 380 380 380	80 380
Other Asia 2,160 2,160 2,160 2,160 1,690 130 130 130 130 130 130 130 130	30 130
AMERICA         Argentina         878         596         674         420         1,108         40         30         115         116         83         85         39         104         51	54 86
Bolivia 480 480 480 480 480 40 40 40 40 40 40 40 40 40 40	40 40
Brazil 17,258 10,009 9,357 9,398 3,333 147 192 191 258 290 330 298 137 331	57 97
Canada 2,887 2,562 2,489 2,387 1,871 210 182 282 237 334 153 341 155 226	98 393
Chile 111 82 95 111 133 5 5 14 14 17 22 22 13 6	1 1
Colombia   300   280   271   248   237   16   15   13   20   0   10   9   9   12	12 20
Mexico 4,160 4,197 4,906 4,779 4,406 400 400 317 300 300 300 320 300 406	00 400
Peru         216         216         216         216         198         18	18 18
	37 3,394
Venezuela   59   19   16   12   10   1   1   1   1   1   1   1   1	1 1
Other America         420         420         420         275         20	20 20
OCEANIA	1
Australia 215 259 284 375 255 25 0 40 21 20 44 9 28 60	
New Zealand         7         49         46         41         30         5         0         20         0         2         2         2         5         8	0 0
WORLD TOTAL 387,563 381,702 378,582 368,742 384,161 35,009 32,441 35,245 38,879 34,169 37,418 25,312 29,608 27,328 29	0 0
27,320 27	14 6

Source : World Bureau of Metal Statistics