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FEBRUARY TIN MARKET REVIEW

Kuala Lumpur Tin Market (KLTM)

Tin trading on the KLTM during the month of February was generally upbeat. Strong demand and tight supply were factors that supported the uptrend.

The local physical tin market opened the first trading week at US\$24,300 per tonne, much higher than the January's closing of US\$23,360 per tonne. It rose subsequently before softening to end the trading week at the same opening price level. Buying interest was lack lusture during this period.

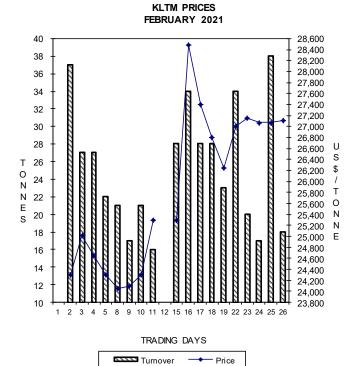
The tin price further at the opening of the second trading week to record the month's lowest level at US\$24,050 per tonne on 8th February, as demand continued to weaken. Thereafter, it rebounded to end the trading week higher.

With market sentiment largely uncertain, the tin price opened the third trading week unchanged from the preceding week's closing level. It rose substantially the subsequent day to record the month's highest price level at US\$28,485 per tonne on 16th February as demand soared. The strong demand came particularly from overseas interests. Sentiment was bullish with traders actively participating in the market. Thereafter, it eased towards end of the trading week following several technical corrections.

The tin price reversed trend at the opening of the final trading week to regain some lost ground. According to a trader, the incline was influenced by strong tin prices on the London Metal Exchange (LME). It softened and stayed somewhat flat towards end of the trading month as traders adopted a wait and see attitude.

Trading on the KLTM for the month of February was conducted over 18 days. The market was closed on 1st and 12th February in conjunction with the Federal Territory Day and the Chinese New Year holidays. The average tin price recorded for the month was US\$25,965 per tonne, much higher than January's average of US\$22,085 per tonne.

The total trading volume for the month increased to 456 tonnes from 314 tonnes the preceding month. February's average trading volume was 25 tonnes, higher than the January's average of 17 tonnes. The month's highest daily trading volume was 38 tonnes recorded on 25th February, while the lowest was 16 tonnes recorded on 11th February 2021.◆



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London Metal Exchange (LME)

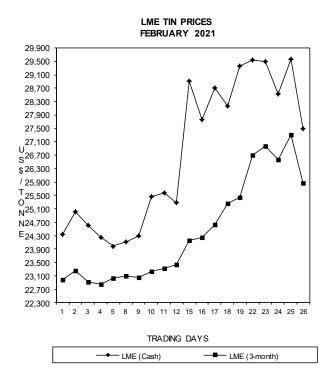
Tin trading on the LME during the month of February was again in line with the movement in the trading of other base metals on the Exchange, which was generally bullish.

The tin price opened the trading month at US\$24,325 per tonne for cash tin and US\$22,984 per tonne for 3-month tin. It inched-up subsequently before softening for two days to record the month's lowest price level for 3-month tin at US\$22,850 per tonne on 4th February. It continued to ease afterwards to record the lowest price level for cash tin at US\$23,985 per tonne.

Backed by strong demand, the market strengthened during the second trading week. Buyers were more confident in participating in the market while sellers stayed on the sideline during the period. The strong demand came particularly from overseas interests resulting from the weakening US dollar.

The 3-month tin price continued to strengthen throughout the third trading week. However, the cash tin price was traded range bound, tilting more towards the downside as market sentiment remained largely uncertain, in-line with the flat momentum of other base metals traded on the LME.

During the final trading week, the tin price rose further to record the month's highest level for cash and 3-month tin at US\$29,560 and US\$27,310 per tonne, respectively, both recorded on 25th February. There-



after, it softened to close the trading month at US\$27,500 per tonne for cash tin and US\$25,875 per tonne for 3-month tin, with trading mostly dominated by sellers.

The average LME cash tin price recorded in February was US\$26,717 per tonne, whilst the average 3-month tin price was US\$24,415 per tonne.

NEWS HIGHLIGHTS

MSC Boosts Safety Efforts at New Plant

Malaysia Smelting Corporation Bhd (MSC), one of the world's largest suppliers of tin metal, has stepped up safety efforts at its new smelting facility in Pulau Indah. Group chief executive officer Dato' Dr Patrick Yong said the company had employees there with health supplements such as Vitamin C and Vitamin D3 as they were known to have immunity-strengthening properties.

"We have encouraged our employees to take these vitamins daily to maintain sufficient nutrition and lower the risk of infection. We have also negotiated with MSC's panel of clinics to undertake Covid-19 testing for our employees, with results made available on the same day of testing," he said in a statement yesterday.

The company, which is listed in Malaysia and Singapore, said all employees were required to undergo temperature screenings before entering the premises so that those with high temperatures could be sent to the clinics for a swab test.

It has also provides more housing for its essential workers in compliance with the social distancing

requirements. MSC said it was sanitising its workplaces three times a day, made hand sanitisers available at all basin points, and provided free face masks and face shields to employees who were required to work in close proximity with one another.

(Source: New Straits Times, 3 February 2021)

Tin Prices Soar to US\$25,300 per tonne

The Kuala Lumpur Tin Market (KLTM) finished the last trading day of the week US\$1,000 higher at US\$25,300 per tonne, said a trader. He said this was supported by huge physical demand for the metal amid tight supplies.

"The local market was tracking the overnight uptrend on the London Metal Exchange (LME), which settled US\$115 higher at US\$23,315 per tonne." He said the price differential between KLTM and LME stood at a premium of US\$1,985 per tonne from US\$1,100 per tonne on Wednesday.

"Buying support in the local market came from China, South Korea, Japan, Taiwan, Europe, and the United States, with two local sellers," he added. At the close, turnover on the KLTM fell by five tonnes to 16 tonnes, while bids and offers each stood at 16. The KLTM will be closed today for the Chinese New Year celebration and will resume trading on Monday.

(Source: New Straits Times, 12 February 2021)

Tin Market Soars to a near 10-year High

Strong demand boosted the Kuala Lumpur Tin Market (KLTM) to end at its strongest level since 2011, with the metal's price surging US\$3,185 to US\$28,485 a tonne. A dealer said the current low tin supply is unable to keep up with the strong demand.

Expectations of a stronger economic recovery and continued demand from the semiconductor sector continued to lift prices both on the KLTM and the London Metal Exchange (LME). The LME settled US\$895 higher at US\$24,400 a tonne.

"The domestic market is moving in tandem with the LME, as the tin price on the LME rose as high as US\$28,900 earlier", the dealer said, adding that Chi-

na continued to be the key buyer of the domestic tin. China is the world's largest consumer of tin.

He said the price differential between KLTM and LME stood at a premium of US\$4,085 per tonne from US\$1,795 per tonne on Monday. Buying support in the local market came from China, South Korea, Japan, Taiwan and Europe. At the close, turnover on the KLTM rose six tonnes to 34 tonnes from 28 tonnes yesterday, while bids and offers stood at 34 tonnes and 39 tonnes, respectively.

(Source: The Star, 17 February 2021)

NEWS ROUND UP

Myanmar Tin Production Unaffected by Coup

Myanmar, the world's third largest producer of tin concentrate, and a major source for China's smelters has been put into the spotlight after a coup saw the country's military took over control from the government.

The coup has put the country into disorder. Along the border with China, port towns have been closed with immediate effect, including Ruili. This particular town is important for tin mines as it supply goods from China, such as oil and lubricants, for mining and processing.

According to local miners, the Heinda and Dawei mines in the south of the country are likely to re-

duce their production in the short-term in an effort to prolong their stockpiles. However, if the situation persists, these mines may face closure. They produce a combined output of between 500 to 600 tonnes of concentrate monthly, about 20 per cent of the country's output.

The majority of the country's tin concentrate comes from Wa county in the autonomous Shan state. As it acts separately from the central government, the state is not affected by the coup d'état. Its port town of Menglian remains open with tin shipments still possible.

Renison Production Declined but Outlook Positive

Australia's Renison mine in Tasmania ended the year 2020 with its tin-in-concentrate production lower by some 14 per cent, quarter-on-quarter. Metals X, its 50 per cent owner, however, is forecasting that production will improve in 2021 at this 131-year old mine.

It has been generally a good year for Renison mine in 2020 which was not impacted by the Covid-19 pandemic. Metals X has been working on several initiatives which have helped the mine improve production throughout the year.

Its most exciting initiative was to bring Area 5 on stream. This new mining sector promises higher tin grades, increase output and lower costs. Its initial impact was seen in this year's third quarter as grades rose from 1.19 per cent Sn to 1.58 per cent Sn. Tin-in-concentrate production also rose by 34 per cent. However, mining in the new area was reduced during the final quarter of 2020. Prioritising further development of Area 5 ventilation system lowered overall tin grades for the quarter. Grades fell to 1.11 per cent Sn, reducing tin-in-concentrate production to 1,999 tonnes, some 14 per cent lower, quarter-on-quarter.

Output would have likely increased this year, even without Area 5, following the mine's Metallurgical Improvement Program. The program has been running since end 2019 aimed at increasing throughput and recovery at the mine's processing plant by upgrading control systems and analytical infrastructure. Recovery at the processing plant averaged 72.4 per cent in 2018, but its recovery of 76.9 per cent in the fourth quarter of 2020 showed marked improvement.

This positive trend in recovery improvement is expected to continue into next year, and alongside consistent production from Area 5, should see Renison producing between 8,200 to 8,500 tonnes of tinin-concentrate. This could be further improved if Metals X decides to introduce a tin fumer into the present processing flow. It would produce a high grade tin fume product, separate from its existing gravity concentrate. The fuming technology could also treat Renison's tailings, facilitating the development of its Rentails project.

Yunnan Tin Secured Top Tin Producer Spot in 2020

It has been a very difficult year for most tin producers globally in 2020 as smelters had to close down operation and halted production due to the spread of the Covid-19 pandemic.

The International Tin Association (ITA) has estimated that a total of 327,200 tonnes of refined tin were produced in 2020, an 8 per cent decline from 2019

level, which itself had already dropped by some 5 per cent from 2018 production.

ITA also conducts surveys yearly on tin smelters globally to compile the annual list of the world's largest producers. In 2020, these top 10 companies shown in the table below produced 69 per cent of the world's tin, down from 76 per cent in 2019.

No.	Company	2019	2020	YOY Change (%)
1.	Yunnan Tin	75,900	74,800	-1.4%
	(China)			
2.	PT Timah	76,400	45,700	-40.2%
	(Indonesia)			
3.	Malaysia Smelting Corp	24,300	22,400	-7.8%
	(Malaysia)			
4.	Minsur*	19,600	19,600	0.0%
	(Peru)			
5.	Yunnan Chengfeng	19,100	16,500	-13.6%
	(China)			
6.	Thaisarco	10,900	11,300	3.7%
	(Thailand)			
7.	Guangxi New Nanshan	8,200	10,100	23.2%
	(China)			
8.	Jiangxi New nanshan	7,200	10,100	40.3%
	(China)			
9.	Metallo	9,300	8,100	-12.9%
	(Belgium)			
10.	Gejiu Zi-Li	8,000	7,000	-12.5%
	(China)			

Data: Provisional data reported to ITA and rounded to the nearest 100t.

One company excluded from the top 10 on request.

The decline in output from this group can be primarily attributed to the significant drop in production from PT Timah. The company more than doubled its production in 2019 after export regulations introduced by the country force many of its private smelters to stop operation. According to PT Timah's annual report, some of these private smelters were rented out to the company, thus boosting its capacity significantly. However, many of them have now resumed operation, thus likely ending this rental deal with PT Timah.

In China, production started the year slowly as the Covid-19 pandemic disrupted its raw materials supply. Its larger companies in this top 10 group, how-

ever, were able to ride out the disruptions. As a result of the changed situation in Indonesia, China's Yunnan Tin retook the top spot on the list.

South America was significantly impacted by the Covid-19 pandemic. Tin smelters in Brazil, Peru, and Bolivia were closed for an average of two months in the early part of the year. The lengthy closure of Bolivia's EM Vinto saw it being delisted for the first time from the top 10 group. Meanwhile, a full year production from its new B2 tailings reprocessing plant allowed Peru's Minsur to maintain steady production, year-on-year, despite the disruptions.

(Source: International Tin Association Ltd. UK)

^{*} Excludes production from Minsur's Brazillian Subsidiary, Taboca

SPECIAL ARTICLE

Tin-Can of Endless Fun

There is a silver lining to most things and while our overseas travel plans have come to a grinding halt, new possibilities are opening up or surfacing on the domestic front. In the past, it was often the destination more than the journey that ruled my domestic travels. I have driven along the North-South Highway on numerous occasions in my travels to Penang and Ipoh but sadly, neglected many places in between.

Recently, after being homebound for way too long, I sought some family fun and adventure and those in the know suggested Gopeng. While I nodded knowingly, I must admit that I had to seek assistance in locating the town. To save you the same embarrassment, it's just off the highway, south of Ipoh.

With my interest piqued, I was surprised with just what was there - caves, rivers, mining lakes, adventure activities, historical buildings, remote villages and farms. Not long afterwards, with the family equally energised and hotel reservations made, we head off to Gopeng.

TIN TALES

Perak is well-known as the former epicentre of Malaysia's lucrative tin trade with the numerous tailings ponds creating a chequerboard pattern across the landscape. The discovery and exploitation of tin changed the nation forever. At one stage, the country supplied 75 per cent of the world's demand for the valuable metal.

Initially extracted by hand using wooden dulang dishes, the industry was mechanised in the 1930s with the introduction of dredges. I now know all about tin after visiting Tanjung Tualang Tin Dredge Number 5 (TT5) that's perched over an expansive lake near Batu Gajah. TT5 is the last remaining dredge of over 120 that were introduced to mechanically extract the tin. Weighing 4,500 tonnes and standing as high as a five-storey building, it's hard to miss the dredge.

Built in the United Kingdom by F. W. Payne and Sons in 1938 at a cost of RM40 million, it was then a huge investment. Imagine how much the extracted tin

must have been worth if the equipment to do this had cost so much. The dredge ceased operations in 1982 and in recent years has become a tourist attraction.

There is an information centre for visitors and regular guided tours plus some activities like a maze and a refreshment carriage (a repurposed railway wagon called 'Can Tin'). Visitors can try their hand at using a dulang too. We are impressed with the information provided and highly recommend this educational facility and its sterling efforts in preserving the country's heritage.

TT5 is open from Tuesday to Sunday from 9am to 6pm (when there are no travel restrictions in place in Malaysia due to the Covid-19 pandemic). At least two hours should be allocated to take it all in.

LOST IN TAMBUN

For families, travelling to Perak and not visiting the Lost World of Tambun theme park near Ipoh is like visiting the East Coast and not going to the beautiful beaches or buying bags of keropok. Having already visited the Lost World of Tambun, we are more selective with our park activities.

Park visitors can also experience a small-scale traditional tin mining operation here. Young children will have lots of fun in the water park and the petting zoo. We enjoy getting close to African grey parrots, macaws and tapir in a forested setting bordered by walls of limestone.

Several more adventurous activities are offered including a walk to Gua Datok cave that is perched 157m above the park. Good footwear is essential and safety helmets are provided. The climb to the cave is steep and up some 600 well-formed steps. The cave is impressive. Views from the cave opening above the park, over an adjoining housing estate and lake, are awesome.

(Source: New Straits Times, 4 February 2021)

TIN STATISTICS

KLTM & LME TIN PRICES

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Period (US\$Tonne) Rates (Tonnes) (US\$Tonne) (Average		Average Daily	Total		
2016			Price *	Exchange	Turnover	Turnover	Cash	3-Month
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10 24,300 4.0400 98,172 21 25,458 23,240 11 25,300 4.0470 102,389 16 25,568 23,317 12 CLOSED 25,290 23,443 15 25,300 4.0415 102,250 28 28,899 24,151 16 28,485 4.0330 114,880 34 27,760 24,237 17 27,400 4.0413 110,732 28 28,710 24,620 18 26,800 4.0362 108,170 28 28,162 25,250 19 26,250 4.0432 106,134 23 29,349 25,446 22 27,000 4.0420 109,134 34 29,540 26,700 23 27,150 4.0450 109,822 20 29,485 26,975 24 27,070 4.0423 109,425 17 28,515 26,565 25 27,070 4.0447 109,490 38 29,560 27,310								
11 25,300 4.0470 102,389 16 25,568 23,317 12 CLOSED 25,290 23,443 15 25,300 4.0415 102,250 28 28,899 24,151 16 28,485 4.0330 114,880 34 27,760 24,237 17 27,400 4.0413 110,732 28 28,710 24,620 18 26,800 4.0362 108,170 28 28,162 25,250 19 26,250 4.0432 106,134 23 29,349 25,446 22 27,000 4.0420 109,134 34 29,540 26,700 23 27,150 4.0450 109,822 20 29,485 26,975 24 27,070 4.0423 109,425 17 28,515 26,565 25 27,070 4.0447 109,490 38 29,560 27,310			24,300	4.0400				
12 CLOSED 25,290 23,443 15 25,300 4.0415 102,250 28 28,899 24,151 16 28,485 4.0330 114,880 34 27,760 24,237 17 27,400 4.0413 110,732 28 28,710 24,620 18 26,800 4.0362 108,170 28 28,162 25,250 19 26,250 4.0432 106,134 23 29,349 25,446 22 27,000 4.0420 109,134 34 29,540 26,700 23 27,150 4.0450 109,822 20 29,485 26,975 24 27,070 4.0423 109,425 17 28,515 26,565 25 27,070 4.0447 109,490 38 29,560 27,310		11	25,300	4.0470	102,389			
15 25,300 4.0415 102,250 28 28,899 24,151 16 28,485 4.0330 114,880 34 27,760 24,237 17 27,400 4.0413 110,732 28 28,710 24,620 18 26,800 4.0362 108,170 28 28,162 25,250 19 26,250 4.0432 106,134 23 29,349 25,446 22 27,000 4.0420 109,134 34 29,540 26,700 23 27,150 4.0450 109,822 20 29,485 26,975 24 27,070 4.0423 109,425 17 28,515 26,565 25 27,070 4.0447 109,490 38 29,560 27,310			1		•			
16 28,485 4.0330 114,880 34 27,760 24,237 17 27,400 4.0413 110,732 28 28,710 24,620 18 26,800 4.0362 108,170 28 28,162 25,250 19 26,250 4.0432 106,134 23 29,349 25,446 22 27,000 4.0420 109,134 34 29,540 26,700 23 27,150 4.0450 109,822 20 29,485 26,975 24 27,070 4.0423 109,425 17 28,515 26,565 25 27,070 4.0447 109,490 38 29,560 27,310		15	25,300	4.0415	102,250	28		
18 26,800 4.0362 108,170 28 28,162 25,250 19 26,250 4.0432 106,134 23 29,349 25,446 22 27,000 4.0420 109,134 34 29,540 26,700 23 27,150 4.0450 109,822 20 29,485 26,975 24 27,070 4.0423 109,425 17 28,515 26,565 25 27,070 4.0447 109,490 38 29,560 27,310		16		4.0330	114,880		27,760	24,237
18 26,800 4.0362 108,170 28 28,162 25,250 19 26,250 4.0432 106,134 23 29,349 25,446 22 27,000 4.0420 109,134 34 29,540 26,700 23 27,150 4.0450 109,822 20 29,485 26,975 24 27,070 4.0423 109,425 17 28,515 26,565 25 27,070 4.0447 109,490 38 29,560 27,310		17	27,400	4.0413	110,732	28		
22 27,000 4.0420 109,134 34 29,540 26,700 23 27,150 4.0450 109,822 20 29,485 26,975 24 27,070 4.0423 109,425 17 28,515 26,565 25 27,070 4.0447 109,490 38 29,560 27,310				4.0362	108,170		28,162	25,250
22 27,000 4.0420 109,134 34 29,540 26,700 23 27,150 4.0450 109,822 20 29,485 26,975 24 27,070 4.0423 109,425 17 28,515 26,565 25 27,070 4.0447 109,490 38 29,560 27,310				4.0432	106,134	23	29,349	25,446
24 27,070 4.0423 109,425 17 28,515 26,565 25 27,070 4.0447 109,490 38 29,560 27,310				4.0420				
25 27,070 4.0447 109,490 38 29,560 27,310								
					,			
26 27,100 4.0492 109.733 18 27.500 25.875					,			
		26	27,100	4.0492	109,733	18	27,500	25,875

: The Kuala Lumpur Tin Market London Metal Exchange Sources

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. N.A: Not Available

WORLD REFINED TIN STOCKS (Tonnes)

LME I I I I I I I I I I I I I I I I I I I					COU	NTRY STO	CKS		Total	Total		
2016 3,800 2,129 955 3,876 1,400 356 3,600 6,220 18,600 24,800 2017 2,235 2,130 955 2,587 1,459 4,391 3600 5,610 16,790 27,228 2019 7,130 2,130 955 8600 1,806 400 3600 5,610 16,790 22,129 22,227 35,678 2019 7,130 2,130 955 8600 1,473 3600 5,510 22,129 29,464 2017 3an. 5,800 2,129 955 3435 1,416 356 3600 6,470 18,802 27,908 Feb. 5,560 2,129 955 3435 1,241 356 3600 6,470 18,802 27,908 Apr. 2,865 2,129 955 3435 1,224 356 3600 6,470 18,769 26,743 Apr. 2,865 2,129 955 3435 1,224 356 3600 6,470 18,189 23,760 Apr. 2,865 2,129 955 3435 1,224 356 3600 6,470 18,189 23,760 Apr. 2,865 2,129 955 3435 1,224 356 3600 6,470 18,189 23,260 Apr. 2,865 2,129 955 3435 1,224 356 3600 6,470 18,189 23,260 Apr. 2,865 2,129 955 3435 1,224 356 3600 6,480 18,469 24,179 Jun. 1,890 2,130 955 3870 1,341 390 3600 6,540 19,336 25,088 Apr. 2,270 2,270 2,270 9,55 3870 1,341 390 3600 6,540 19,374 2,968 34,185 2,270 2,270 2,270 2,270 2,270 9,55 3870 1,341 390 3600 6,540 19,374 2,968 34,185 2,270 2,270 2,270 2,270 9,55 3870 1,341 390 3600 6,540 19,374 2,968 36,183 3,598 3,598 2,070 2,130 955 3870 1,343 3,50 3600 6,540 19,348 31,539 3,50	riod S	LME Stock	Germany	U.K	Indonesia	Japan	Malavsia*	Brazil*	U.S.A	Country	Commercial	US Strategic
2017 2,235 2,130 955 3,870 1,360 600° 3,600° 6,730 19,245 26,395 2019 7,130 2,130 955 8600° 1,806 400° 3600° 5,920 22,217 36,678 2020 1,890 2,130 955 8600° 1,806 400° 3600° 5,920 22,217 36,678 2017 Jan 5,800 2,129 955 3435° 1,283 356° 3600° 6,470 18,902 27,908 Feb 5,560 2,129 955 3435° 1,283 356° 3600° 6,470 18,902 23,200 Mar 3,510 2,129 955 3435° 1,283 356° 3600° 6,470 18,709 23,200 May 1,910 2,129 955 3435° 1,283 356° 3600° 6,470 18,709 23,200 May 1,910 2,129 955 3435° 1,282 356° 3600° 6,470 18,169 23,200 May 1,910 2,129 955 3435° 1,341 356° 3600° 6,470 18,169 23,200 May 1,910 2,130 955 3870° 1,341 930° 3600° 6,540 19,336 26,068 Jul 1,985 2,130 955 3870° 1,341 930° 3600° 6,540 19,336 26,068 Aug 1,910 2,130 955 3870° 1,341 930° 3600° 6,540 19,346 23,159 Sep 2,070 2,130 955 3870° 1,341 930° 3600° 6,540 19,346 31,539 Sep 2,070 2,130 955 3870° 1,348 350° 3600° 6,540 19,346 30,637 Nov 2,295 2,130 955 3870° 1,348 350° 3600° 6,540 19,348 30,637 Nov 2,235 2,130 955 3870° 1,348 350° 3600° 6,730 19,348 29,610 Jan 1,955 2,130 955 3370° 1,348 350° 3600° 6,730 19,348 29,610 Jan 1,956 2,130 955 3956° 1,344 600° 3600° 6,730 19,348 29,610 Jan 1,956 2,130 955 3956° 1,344 600° 3600° 6,730 19,348 29,610 Jan 1,956 2,130 955 3956° 1,344 600° 3600° 6,730 19,348 29,610 Jan 2,240 2,130 955 3956° 1,344 600° 3600° 6,730 19,348 29,610 Jan 2,240 2,130 955 3956° 1,344 600° 3600° 6,730 19,348 29,639 Jan 3,130 2,130 955 3956° 1,344 400° 3600° 6,730 19,348 29,639 Jan 3,130 2,130 955 3956				0		oupu	a.ayo.a	2.02	0.0	,		Stockpile
2017 2,235 2,130 955 3,870 1,360 600° 3,600° 6,730 19,245 26,395 2019 7,130 2,130 955 8600° 1,806 400° 3600° 5,920 22,217 36,678 2020 1,890 2,130 955 8600° 1,806 400° 3600° 5,920 22,217 36,678 2017 Jan 5,800 2,129 955 3435° 1,283 356° 3600° 6,470 18,902 27,908 Feb 5,560 2,129 955 3435° 1,283 356° 3600° 6,470 18,902 23,200 Mar 3,510 2,129 955 3435° 1,283 356° 3600° 6,470 18,709 23,200 May 1,910 2,129 955 3435° 1,283 356° 3600° 6,470 18,709 23,200 May 1,910 2,129 955 3435° 1,282 356° 3600° 6,470 18,169 23,200 May 1,910 2,129 955 3435° 1,341 356° 3600° 6,470 18,169 23,200 May 1,910 2,130 955 3870° 1,341 930° 3600° 6,540 19,336 26,068 Jul 1,985 2,130 955 3870° 1,341 930° 3600° 6,540 19,336 26,068 Aug 1,910 2,130 955 3870° 1,341 930° 3600° 6,540 19,346 23,159 Sep 2,070 2,130 955 3870° 1,341 930° 3600° 6,540 19,346 31,539 Sep 2,070 2,130 955 3870° 1,348 350° 3600° 6,540 19,346 30,637 Nov 2,295 2,130 955 3870° 1,348 350° 3600° 6,540 19,348 30,637 Nov 2,235 2,130 955 3870° 1,348 350° 3600° 6,730 19,348 29,610 Jan 1,955 2,130 955 3370° 1,348 350° 3600° 6,730 19,348 29,610 Jan 1,956 2,130 955 3956° 1,344 600° 3600° 6,730 19,348 29,610 Jan 1,956 2,130 955 3956° 1,344 600° 3600° 6,730 19,348 29,610 Jan 1,956 2,130 955 3956° 1,344 600° 3600° 6,730 19,348 29,610 Jan 2,240 2,130 955 3956° 1,344 600° 3600° 6,730 19,348 29,610 Jan 2,240 2,130 955 3956° 1,344 600° 3600° 6,730 19,348 29,639 Jan 3,130 2,130 955 3956° 1,344 400° 3600° 6,730 19,348 29,639 Jan 3,130 2,130 955 3956												
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2018		-				,						4,020
2019		-										4,020
2020		-										4,020
Dec.		-										4,020 4,020
Jan. 5,800 2,129 955 3435" 1,416 356" 3600" 6,470 18,902 27,908 Feb. 5,560 2,129 955 3435" 1,281 356" 3600" 6,470 18,227 23,760 Apr. 2,865 2,129 955 3435" 1,282 356" 3600" 6,470 18,227 23,760 Apr. 2,865 2,129 955 3435" 1,284 356" 3600" 6,470 18,189 23,260 May. 1,910 2,129 955 3868" 1,196 241" 3800" 6,480 18,469 24,179 Jun. 1,680 2,130 955 3870" 1,341 930" 3600" 6,540 19,336 26,068 Jul. 1,955 2,130 955 3870" 1,341 930" 3600" 6,540 19,336 26,068 34,91 1,910 2,130 955 3870" 1,341 930" 3600" 6,540 19,336 30,595 3870" 1,341 930" 3600" 6,540 19,436 31,539 3600" 6,540 19,436 31,539 3600" 6,540 19,436 31,539 3600" 6,540 19,436 31,539 3600" 6,540 19,436 31,539 3600" 6,540 19,436 31,539 3600" 6,540 19,436 31,539 3600" 6,540 19,436 31,539 3600" 6,540 19,436 31,539 3600" 6,540 19,436 31,539 3600" 6,540 19,436 31,539 3600" 6,540 19,436 31,539 3600" 6,540 19,436 31,539 3600" 3600" 6,730 18,818 30,595 3870" 1,348 350" 3600" 6,650 18,818 30,595 3870" 1,348 350" 3600" 6,730 18,833 29,610 3600" 3600" 6,730 19,245 26,395 3600" 3600		1,090	2,130	900	8600	1,473	211	3000	3,100	22,129	29,404	4,020
Feb. 5,560 2,129 955 3435* 1,283 356* 3600* 6,470 18,769 26,743		5 800	2 120	955	3/135*	1 /16	356*	3600*	6.470	18 902	27 908	4,020
Mar. 3,510 2,129 955 3435* 1,282 356* 3600* 6,470 18,1227 23,760 May. 1,910 2,129 955 3868* 1,196 241* 3600* 6,480 18,469 24,179 Jun. 1,690 2,130 955 3870* 1,311 930* 3600* 6,540 19,374 29,663 Aug. 1,910 2,130 955 3870* 1,349 930* 3600* 6,540 19,374 29,663 Aug. 1,910 2,130 955 3870* 1,349 930* 3600* 6,540 19,374 29,663 Aug. 1,910 2,130 955 3870* 1,349 930* 3600* 6,540 19,436 31,539 Sep. 2,070 2,130 955 3870* 1,393 346* 3600* 6,520 18,814 30,637 Oct. 2,095 2,130 955 3870* 1,393 346* 3600* 6,520 18,814 30,637 Nov. 2,395 2,130 955 3870* 1,348 350* 3600* 6,560 18,818 30,637 Aug. 2,235 2,130 955 3870* 1,360 600* 3600* 6,730 19,245 26,395 2018 Jan. 1,955 2,130 955 3956* 1,347 600* 3600* 6,730 19,318 25,885 Feb. 1,720 2,130 955 3956* 1,384 600* 3600* 6,730 19,318 25,885 Apr. 2,225 2,130 955 3956* 1,384 600* 3600* 6,730 19,318 25,865 Apr. 2,225 2,130 955 3956* 1,384 732* 3600* 6,430 19,087 25,753 Apr. 2,225 2,130 955 3956* 1,384 407* 3600* 6,430 19,087 25,753 Apr. 2,225 2,130 955 3956* 1,184 407* 0 0,430 19,087 25,753 Apr. 2,225 2,130 955 3956* 1,184 407* 0 0,430 19,025 26,735 Apr. 2,225 2,130 955 3396* 1,184 407* 3600* 6,430 13,025 26,735 Apr. 2,225 2,130 955 3246* 1,184 407* 3600* 6,430 13,025 26,735 Apr. 2,240 2,130 955 3246* 1,184 407* 3600* 6,430 13,045 25,151 Apr. 2,168 2,130 955 3246* 1,174 407* 3600* 6,310 17,741 26,728 Sep. 2,865 2,130 955 3246* 1,174 407* 3600* 6,310 17,741 26,728 Sep. 2,168 2,130 955 8594* 1,1765 439* 3600* 5,510 16,522 27,715 Apr. 2,168 2,130 955 8560* 1,184 407* 3600* 6,300		-										4,020
Apr. 2,865 2,129 955 3435* 1,244 356* 3600* 6,470 18,189 23,260 May. 1,910 2,129 955 3870* 1,311 930* 3600* 6,540 19,336 26,068 Jul. 1,985 2,130 955 3870* 1,349 930* 3600* 6,540 19,374 29,663 Aug. 1,910 2,130 955 3870* 1,349 930* 3600* 6,540 19,374 29,663 Aug. 1,910 2,130 955 3870* 1,349 390* 3600* 6,540 19,374 29,663 Aug. 1,910 2,130 955 3870* 1,393 366* 3600* 6,540 19,374 30,595 Aug. 2,055 2,130 955 3870* 1,393 350* 3600* 6,520 18,814 30,595 Aug. 2,235 2,130 955 3870* 1,348 350* 3600* 6,560 18,818 30,637 Aug. 2,235 2,130 955 3870* 1,348 350* 3600* 6,730 19,318 25,885 Apr. 2,225 2,130 955 3956* 1,347 600* 3600* 6,730 19,318 25,885 Apr. 2,225 2,130 955 3956* 1,347 600* 3600* 6,730 19,318 26,506 Apr. 2,225 2,130 955 3956* 1,344 407* 3600* 6,430 19,025 26,735 Apr. 2,225 2,130 955 3956* 1,344 407* 0 6,430 15,387 24,661 Jul. 3,130 2,130 955 3956* 1,184 407* 0 6,430 15,387 24,661 Jul. 2,970 2,130 955 3246* 1,093 407* 3600* 6,310 14,304 25,151 Jul. 2,970 2,130 955 3246* 1,093 407* 3600* 6,310 13,322 27,715 Oct. 3,085 2,130 955 3246* 1,144 407* 3600* 6,310 13,322 27,715 Oct. 3,085 2,130 955 3246* 1,144 407* 3600* 6,310 13,322 27,715 Oct. 3,085 2,130 955 3246* 1,144 407* 3600* 6,310 13,322 27,715 Oct. 3,085 2,130 955 3246* 1,144 407* 3600* 6,310 13,322 27,715 Oct. 3,085 2,130 955 3246* 1,144 407* 3600* 6,310 13,322 27,715 Oct. 3,085 2,130 955 3246* 1,144 407* 3600* 6,310 13,322 27,715 Oct. 3,085 2,130 955 8600* 2,520 209* 3600* 5,510 23,524 31,451 Aug. 2,130 955 8600* 2,520 209* 3600* 5,510 23,247 31,45		-									1	4,020
May 1,910 2,129 955 3868* 1,196 241* 3800° 6,540 18,489 24,179		-										4,020
Jun. 1,690 2,130 955 3870° 1,311 930° 3600° 6,540 19,336 26,068 Aug. 1,910 2,130 955 3870° 1,411 930° 3600° 6,540 19,374 29,663 Aug. 1,910 2,130 955 3870° 1,411 930° 3600° 6,540 19,436 31,539 Sep. 2,070 2,130 955 3870° 1,393 346° 3600° 6,520 18,814 30,595 Nov. 2,395 2,130 955 3870° 1,393 350° 3600° 6,560 18,818 30,637 Nov. 2,395 2,130 955 3870° 1,384 350° 3600° 6,730 19,245 26,395 2018 Jan. 1,955 2,130 955 3870° 1,384 600° 3600° 6,730 19,245 26,395 2018 Jan. 1,955 2,130 955 3956° 1,384 732° 3600° 6,730 19,318 25,885 Feb. 1,720 2,130 955 3956° 1,384 732° 3600° 6,330 19,087 25,763 Apr. 2,225 2,130 955 3956° 1,384 732° 3600° 6,330 19,087 25,763 Apr. 2,225 2,130 955 3956° 1,384 732° 3600° 6,430 15,387 24,661 Jun. 3,130 2,130 955 3956° 1,184 732° 0 6,430 15,387 24,661 Jul. 2,970 2,130 955 3396° 1,184 732° 0 6,430 15,387 24,661 Jul. 2,970 2,130 955 3246° 1,134 407° 3600° 6,310 17,741 26,728 Sep. 2,865 2,130 955 3246° 1,414 677° 3600° 6,310 17,741 26,728 Sep. 2,865 2,130 955 3246° 1,414 677° 3600° 6,310 17,724 26,728 Sep. 2,166 2,130 955 3246° 1,414 677° 3600° 6,310 17,724 26,728 Sep. 2,165 2,130 955 3246° 1,414 677° 3600° 6,510 16,392 27,715 Dec. 2,165 2,130 955 8594° 1,578 439° 3600° 5,610 16,790 27,226 Dec. 2,165 2,130 955 8594° 1,676 439° 3600° 5,610 16,790 27,226 Dec. 2,165 2,130 955 8600° 2,520 209° 3600° 5,510 23,132 31,451 Mar. 950 2,130 955 8600° 2,262 209° 3600° 5,510 23,132 31,451 Mar. 950 2,130 955 8600° 2,262 209° 3600° 5,510 23,141 33,684 Apr. 800 2,130 955 8600° 1,686 400° 3600° 5,510									-			4,020
Jul. 1,985 2,130 955 3870° 1,349 390° 3600° 6,540 19,374 29,663	-	-										4,020
Aug. 1,910 2,130 955 3870° 1,411 930° 8600° 6,540 19,436 31,539 Oct. 2,070 2,130 955 3870° 1,393 346° 3600° 6,520 18,814 30,595 Nov. 2,395 2,130 955 3870° 1,348 350° 3600° 6,730 18,983 29,610 Dec. 2,235 2,130 955 3870° 1,380 600° 6,730 18,983 29,610 Dec. 2,235 2,130 955 3956° 1,384 600° 3600° 6,730 19,318 26,595 2018 Jan. 1,955 2,130 955 3956° 1,384 732° 3600° 6,730 19,318 26,506 Mar. 2,060 2,130 955 3956° 1,384 732° 3600° 6,730 19,318 26,506 May. 2,420 2,130 955 3956° 1,844 <td< td=""><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td>4,020</td></td<>		-									1	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 Nov. 2,395 2,130 955 3870* 1,348 350* 3600* 6,730 18,983 29,610 2018 Jan. 1,955 2,130 955 3956* 1,347 600* 3600* 6,730 19,318 26,395 Jan. 1,955 2,130 955 3956* 1,384 600* 3600* 6,730 19,318 26,506 Mar. 2,060 2,130 955 3956* 1,384 732* 3600* 6,730 19,318 26,506 Mar. 2,060 2,130 955 3956* 1,384 732* 3600* 6,730 19,318 26,506 Mar. 2,020 2,130 955 3956* 1,384 732* 0 6,430 19,318 26,506 Jun. 3,130 2,130 955 3946* 1,1	_	-										4,020
Nov. 2,395		-										4,020
Dec. 2,235 2,130 955 3870* 1,360 600* 3600* 6,730 19,245 26,395		-										4,020
Jan. 1,955 2,130 955 3956* 1,384 600* 3600* 6,730 19,318 26,506												4,020
Feb. 1,720)18										1	
Mar. 2,060 2,130 955 3956* 1,384 732* 3600* 6,330 19,087 25,753 Apr. 2,225 2,130 955 3956* 1,184 732* 3600* 6,430 15,387 24,661 Jun. 3,130 2,130 955 3946* 1,184 407* 0 6,430 14,304 25,151 Jul. 2,970 2,130 955 3246* 1,184 407* 0 6,430 14,304 25,151 Jul. 2,970 2,130 955 3246* 1,093 407* 3600* 6,310 17,741 26,728 Sep. 2,865 2,130 955 3246* 1,414 677* 3600* 6,310 18,332 27,715 Oct. 3,085 2,130 955 3246* 1,510 677* 3600* 6,310 17,728 29,299 Dec. 2,165 2,130 955 2587* 1,578 439* </td <td>an. 1</td> <td>1,955</td> <td>2,130</td> <td></td> <td>3956*</td> <td>1,347</td> <td>600*</td> <td>3600*</td> <td></td> <td>19,318</td> <td>25,885</td> <td>4,020</td>	an. 1	1,955	2,130		3956*	1,347	600*	3600*		19,318	25,885	4,020
Apr. 2,225 2,130 955 3956* 1,222 732* 3600* 6,430 19,025 26,735 May. 2,420 2,130 955 3956* 1,184 732* 0 6,430 15,387 24,661 Jul. 2,970 2,130 955 3246* 1,184 407* 3600* 6,430 14,304 25,151 Jul. 2,940 2,130 955 3246* 1,184 407* 3600* 6,400 17,781 26,785 Aug. 2,940 2,130 955 3246* 1,414 677* 3600* 6,310 15,332 25,139 Nov. 3,085 2,130 955 3246* 1,510 677* 3600* 6,310 15,332 25,139 Nov. 3,045 2,130 955 2287* 1,510 677* 3600* 5,610 17,728 29,299 Dec. 2,165 2,130 955 2587* 1,578 43	eb. 1	1,720	2,130	955	3956*	1,384	600*	3600*	6,730	19,318	26,506	4,020
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Jun. 3,130 2,130 955 3198* 1,184 407* 0 6,430 14,304 25,151 Jul. 2,970 2,130 955 3246* 1,134 407* 3600* 6,400 17,872 27,857 Aug. 2,940 2,130 955 3246* 1,414 677* 3600* 6,310 18,332 27,715 Oct. 3,085 2,130 955 3246* 1,414 677* 3600* 6,310 18,332 27,715 Oct. 3,085 2,130 955 3246* 1,414 677* 3600* 6,310 15,332 25,139 Nov. 3,045 2,130 955 3246* 1,510 677* 3600* 6,610 17,728 92,299 Dec. 2,165 2,130 955 2587* 1,469 439* 3600* 5,610 16,790 27,226 2019 Jan. 1,845 2,130 955 2587* 1,578 439* 3600* 5,150 16,552 26,111 Mar. 950 2,130 955 8594* 1,765 439* 3600* 5,150 16,552 26,111 Mar. 950 2,130 955 8594* 1,765 439* 3600* 5,510 23,333 31,458 Apr. 890 2,130 955 8600* 1,849 439* 3600* 5,510 23,083 34,096 Jun. 6,045 2,130 955 8600* 2,520 209* 3600* 5,510 23,524 37,961 Jul. 4,640 2,130 955 8600* 2,2445 209* 3600* 5,510 23,449 35,355 Sep. 6,620 2,130 955 8600* 2,013 919* 3600* 5,510 23,149 35,355 Sep. 6,620 2,130 955 8600* 2,013 919* 3600* 5,510 23,217 33,116 Dec. 7,130 2,130 955 8600* 2,022 400* 3600* 5,510 23,217 33,116 Dec. 7,130 2,130 955 8600* 2,022 400* 3600* 5,510 23,217 33,116 Dec. 7,130 2,130 955 8600* 1,866 400* 3600* 5,920 23,217 35,678 Dec. 7,140 2,130 955 8600* 1,866 400* 3600* 4,780 22,241 32,855 Apr. 5,375 2,130 955 8600* 1,866 400* 3600* 4,780 22,241 32,855 Apr. 5,375 2,130 955 8600* 1,866 400* 3600* 4,780 22,241 32,855 Apr. 5,375 2,130 955 8600* 1,866 400* 3600* 5,900 22,183 28,129 Jun. 4,230 2,130 955 8600* 1,866 400* 3600* 5,080 22,330 29,666 Jul. 3,675 2,130	pr. 2	2,225	2,130	955	3956*	1,222	732*	3600*	6,430	19,025	26,735	4,020
Jul. 2,970 2,130 955 3246* 1,134 407* 3600* 6,400 17,872 27,857 Aug. 2,940 2,130 955 3246* 1,093 407* 3600* 6,310 17,741 26,728 Sep. 2,865 2,130 955 3246* 1,414 677* 3600* 6,310 15,332 27,715 Oct. 3,085 2,130 955 3246* 1,414 677* 3600* 6,310 15,332 25,139 Nov. 3,045 2,130 955 3246* 1,510 677* 3600* 5,610 17,728 29,299 Dec. 2,165 2,130 955 2587* 1,510 677* 3600* 5,610 17,728 29,299 Jan. 1,845 2,130 955 2587* 1,578 439* 3600* 5,610 16,790 27,226 Jan. 1,845 2,130 955 2587* 1,578 439* 3600* 5,150 16,439 26,524 Feb. 1,325 2,130 955 8594* 1,765 439* 3600* 4,850 22,333 31,451 Mar. 950 2,130 955 8594* 1,834 439* 3600* 5,510 23,083 34,096 Jun. 6,045 2,130 955 8600* 1,849 439* 3600* 5,510 23,083 34,096 Jun. 6,045 2,130 955 8600* 2,520 209* 3600* 5,510 23,524 34,583 Aug. 6,830 2,130 955 8600* 2,445 209* 3600* 5,510 23,524 34,583 Aug. 6,830 2,130 955 8600* 2,013 919* 3600* 5,510 23,017 34,215 Oct. 6,020 2,130 955 8600* 2,022 400* 3600* 5,510 23,217 33,116 Dec. 7,130 2,130 955 8600* 2,022 400* 3600* 5,510 23,217 33,116 Dec. 7,130 2,130 955 8600* 1,806 400* 3600* 5,920 23,217 33,116 Mar. 6,205 2,130 955 8600* 1,966 268* 3600* 4,780 22,241 32,855 Aug. 6,830 2,130 955 8600* 1,966 268* 3600* 4,780 22,211 32,855 Aug. 5,940 2,130 955 8600* 1,666 268* 3600* 5,000 22,183 28,129 Jun. 4,230 2,130 955 8600* 1,666 268* 3600* 5,000 22,183 28,129 Jun. 4,230 2,130 955 8600* 1,663 432* 3600* 5,000 22,480 31,119 Jun. 4,230 2,130 955 8600* 1,663 432* 3600* 5,000 22,398 31,119 Jun. 4,230 2,130	ay. 2	2,420				1,184					24,661	4,020
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Dec. 7,130 2,130 955 8600* 1,806 400* 3600* 5,920 23,217 35,678 2020 Jan. 6,630 2,130 955 8600* 2,041 400* 3600* 4,780 22,546 36,171 Feb. 7,440 2,130 955 8600* 1,966 400* 3600* 4,780 22,431 36,261 Mar. 6,205 2,130 955 8600* 1,966 268* 3600* 4,780 22,211 32,855 Apr. 5,375 2,130 955 8600* 1,761 268* 3600* 4,780 22,094 31,171 May. 2,455 2,130 955 8600* 1,850 268* 3600* 5,090 22,183 28,129 Jun. 4,230 2,130 955 8600* 1,697 268* 3600* 5,080 22,330 29,666 Jul. 3,675 2,130 955 8600* <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4,020</td></td<>												4,020
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May. 2,455 2,130 955 8600* 1,850 268* 3600* 5,090 22,183 28,129 Jun. 4,230 2,130 955 8600* 1,697 268* 3600* 5,080 22,330 29,666 Jul. 3,675 2,130 955 8600* 1,645 268* 3600* 5,070 22,268 29,226 Aug. 5,040 2,130 955 8600* 1,520 268* 3600* 5,080 22,143 30,811 Sep. 5,550 2,130 955 8600* 1,663 432* 3600* 5,100 22,480 31,518 Oct. 4,533 2,130 955 8600* 1,621 432* 3600* 5,060 22,398 31,119 Nov. 3,805 2,130 955 8600* 1,473 432* 3600* 5,100 22,290 31,100		-										4,020
Jun. 4,230 2,130 955 8600* 1,697 268* 3600* 5,080 22,330 29,666 Jul. 3,675 2,130 955 8600* 1,645 268* 3600* 5,070 22,268 29,226 Aug. 5,040 2,130 955 8600* 1,520 268* 3600* 5,080 22,143 30,811 Sep. 5,550 2,130 955 8600* 1,663 432* 3600* 5,100 22,480 31,518 Oct. 4,533 2,130 955 8600* 1,621 432* 3600* 5,060 22,398 31,119 Nov. 3,805 2,130 955 8600* 1,473 432* 3600* 5,100 22,290 31,100		-										4,020
Jul. 3,675 2,130 955 8600* 1,645 268* 3600* 5,070 22,268 29,226 Aug. 5,040 2,130 955 8600* 1,520 268* 3600* 5,080 22,143 30,811 Sep. 5,550 2,130 955 8600* 1,663 432* 3600* 5,100 22,480 31,518 Oct. 4,533 2,130 955 8600* 1,621 432* 3600* 5,060 22,398 31,119 Nov. 3,805 2,130 955 8600* 1,473 432* 3600* 5,100 22,290 31,100	-	-										4,020
Aug. 5,040 2,130 955 8600* 1,520 268* 3600* 5,080 22,143 30,811 Sep. 5,550 2,130 955 8600* 1,663 432* 3600* 5,100 22,480 31,518 Oct. 4,533 2,130 955 8600* 1,621 432* 3600* 5,060 22,398 31,119 Nov. 3,805 2,130 955 8600* 1,473 432* 3600* 5,100 22,290 31,100		-							-			4,020
Sep. 5,550 2,130 955 8600* 1,663 432* 3600* 5,100 22,480 31,518 Oct. 4,533 2,130 955 8600* 1,621 432* 3600* 5,060 22,398 31,119 Nov. 3,805 2,130 955 8600* 1,473 432* 3600* 5,100 22,290 31,100												4,020
Oct. 4,533 2,130 955 8600* 1,621 432* 3600* 5,060 22,398 31,119 Nov. 3,805 2,130 955 8600* 1,473 432* 3600* 5,100 22,290 31,100	_								-			4,020
Nov. 3,805 2,130 955 8600* 1,473 432* 3600* 5,100 22,290 31,100		-										4,020
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Dec. 1,890 2,130 955 8600° 1,473 271° 3600° 5,100 22,129 29,464									,		1	4,020
	ec. 1	1,890	2,130	955	8600*	1,473	271*	3600*	5,100	22,129	29,464	4,020
2024	121	+									 	
2021		820	nvo	n v o	nvo	n v o	n v o	n v o	n v o	nvo	nva	nvo
Jan. 820 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	art.	020	ıı.y.d	ıı.y.a	ıı.y.d	ıı.y.a	ıı.y.a	n.y.a	ii.y.ä	ıı.y.d	ii.y.a	n.y.a

* : at producer
n.y.a : not yet available
Sources : World Bureau of Metal Statistics

Sources

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

YEAR	AC	GRE	GATE		redgir	na	(Gravel	Pump		Open (Cast	Un	der Gr	ound	F	Panning	a	Aman	g Retre	atment
		Units*		Prod.			Prod.		Emp.	Prod.	Units	Emp.	Prod.				Units		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		Ċ	-	l _	_	_	2,788	13	987	_	_	_	289	_	_	650	23	477
2013	3,697	16	1,532	_	1	20	l _	_	_	2,700	15	1,025	l _	_	_	325	_	_	663	20	487
2014	3,777	18	1,538	2	1	20	_	_	_	2,912	18	1,020	1 _	_	_	379	_	_	484	19	448
2015	4,125	18	1,519	-	Ċ	_	l _	_	_	3,572	18	1,151	_	_	_	313	_	_	276	18	368
2016	4,158	14	1,406		_	_	_	_	_	3,388	14	1,130	1 _	_	_	293	_	_	442	18	276
2017	3,894	16	1,286	_	1	36	_	_	_	3,104	16	1,058	1 _	_	_	406	_	_	390	16	228
2018	3,868	12	1,295			-	_	_	_	3,184	12	1,075	1 _	_	_	424	_	_	260	11	220
2019	3,611	13	1,387	_	_	_	l -	_	_	3,103	13	1,201	_	_	_	244	_	_	264	11	186
2017	0,011		1,007							0,100		1,201							201		100
Jan.	351	14	1,298	_	_	_	l _	_	_	272.8	14	1,030	l _	_	_	29.6	_	_	48.3	18	268
Feb.	316	14	1,308		1	36	_	_	_	251.8	13	990	l _	_		28.3	_	_	36.0	18	282
Mar.	306	14	1,200		1	36	_	_	_	248.9	13	929	l _	_		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
	306	17	1,301		_	_	_	_		272.0	17	1,069	_	_	_	30.7	_	_	5.5	16	232
Jun	333	18	1,350	-	1	36	-	-	-	273.4	17	1,083	-	-	-	34.2	-	-	25.7	16	232
July	328	19		-	1	36	-	-	-	262.7	18	1,122	-	-	-	36.8	-		29.2	16	233
Aug.			1,391	-	1	50	-	-	-	248.6	16		-	-	-	36.5	-	-	28.9		
Sep.	313	16	1,316	_	-	-	_	-	-			1,083	_	-	-		-			16 16	233
Oct.	322 368	18 16	1,358	_	1	36	_	-	-	251.8 271.9	17 16	1,089	_	-	-	36.1 43.6	-	-	35.3 53.9	16 16	233
Nov.		16	1,283	-	-	-	-	-	-		16	1,050	-	-	-		-			16	233
Dec.	338	16	1,286	-			-			254.5	16	1,058	-			41.8		-	40.8	16	228
2018	200	47	4 000							044.5	47	4 000				07.0			00.5	40	040
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	-	-	31.23	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	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.	288	12	1,434	-	-	-	-	-	-	273.0	12	1,248	-	-	-	11.4	-	-	3.6	11	186
Feb.	265	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
1,00			1,575	_								1,507				0.0			0.4		.50
				1			.						1								

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)

	Production	Imports of			
Period	of Tin-In-	Tin-In-	Refined Tin	Local	Exports of
Period				Local	Exports of
22.12	Concentrates	Concentrates	Production	Consumption	Tin Metal
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		30,260		
		31,965	· ·	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	3,611	25,644	24,387	1,441	24,418
2020*	n.y.a	22,288	22,367	1,512	22,597
2017	11.y.u	22,200	22,001	1,012	22,007
	054	0.077	4.000	474	4.500
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
	330	2,300	2,492	100	2,201
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	· ·	*	102	
		1,844	2,563		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.	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.	288	2,136	2,314	93	2,180
Feb.	265	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	n.y.a	2,030	1,965	155	1,945
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: 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		1		
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		757 759	39	147
2019		1,019			
	1,441	695	639	19	88
2020	1,512	738	626	8	140
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
	178	79	62	2	35
Aug.			40	1	
Sep.	179	101	68		37
Oct.	225	104		4	49
Nov.	204	95	49	1	59
Dec.	166	94	54	10	8
2018	1				
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 4	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
2020	j.			_	, , ,
Jan.	93	40	48	0	5
				_	
Feb.	119	62	52 45	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.	n.y.a	n.y.a	66	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)

2020	Dec	0 1	212	•	0 1,200	500	75	100)	17,500	5,000	150	265	10	3,000	450	1 000	1,250	2,464		775	31,777
2020	No.	0 10	211	'	1,200	- 200	75	- 001)	13,300	5,000	150	265	10	3,000	450	1 000	1,250	2,097		775	27,219
2020	oct	1 0	200		1,000	- 200	1 1	100)	16,400	5,000	- 20	265	10	2,000	450	200	1,250	2,156		775	28,992
2020	Sep	0 1	200		1,218	500	118	100)	15,100		- 09	265	10	000,1	450	200	1,250	2,220		775	27,648
2020	Aug	0 1	200		1,252	300	151	100	. '	000,6	5,000	- 22	265	19	000,-	450	200	1,250	1,895		009	19,992
2020	In C	0 1	200	•	1,063	300	120	100)	9,000	6,000	199	265	10	2,800	450	1 000	1,250	2,158		009	22,818
2020	Jun	1 0	200	'	1,341	300	50	100)	8,700	6,000	. 46	265	10	3,100	450	1 000	1,250	1,461		604	22,010
2020	Мау	o (200	'	26 400	340	50	100)	11,300	6,000	- 20	340	10	000,1	450	000	1,500	1,218		604	
2020	Apr	1 0	200		400	340	- 20	- 000) 	11,300 11,300	6,000	- 20	340	10	009,1	450	1000	1,500	0 '		604	24,102 23,913 25,131
2020	Mar	0	200	•	- 200	300	133	' '	'	7,500	7,200	120	340	10	2,700	450	1 500	1,500	1,000		580	24,102
2020	Feb	o	200	1	- 200	345	91	' '	'	7,500	7,200	- 172	340	10	2,300	460	1 500	1,500	1,600		200	24,287
2020	Jan	0	200	ı	500	345	155	' '	•	7,500	7,200	190	340	10	2,300	460	1 500	1,500	1,600		200	24,369
2019		108	2,264	1	143	7,020	2,223	, 6	20	42,900	86,400	1,156	4,080	110	33,750	5,520	17 194	18,000	19,683		7,738	355,116
2018		90	1,200	1	126	8,784	2,400	' (9	53	157,500 142,900	84,000	566	3,999	09	45,900	4,560	17 259	18,000	18,601		6,871	379,482 3
2017		26	702	ı	123 7,145	5,964	3,508	- 89	99	163,000	000'09	- 276	3,967		28,883	4,560	17 973	18,000	17,790		7,217	370,299 3
2016		48	1,140	ı	51 4,128	3,827	2,621	- 401			000,09	1.308	4,123	36	47,435	5,520	17 614	25,500	18,789		6,635	351,948 3
2015		96	240	1	2,977	2,100	2,017	' '		146,600 153,100	68,400	815	3,731	240	2,400	3,600	20 135	13,800	19,511		7,056	315,363
2014		8	240	ı	4,116	12 2,425	4,245	' '		177,300	009,69	- 840	3,600	72	17,475	5,400	19 548	13,800	12,105		7,042	035
2013		24	009	ı	5,220	87 2,590	3,600	' '	•	148,981	84,000	745	3,685	44	α,υ4ς 243	5,400	16 976		23,661		5,888	300,575 276,183 324,363 349,
2012		24	009	ı	2,462	2,400	3,493	' '		27,400 115,900 148,981	78,000	- 200	3,639	24	000	5,400	19 701	10,800	26,097		6,014	276,183
2011		45	612	1	4,800	1,800	4,167	' '	•	27,400	78,000	1.200	3,346	24	252	5,400	20.373	8,200	29,022		15,400	300,575
		EUROPE Portugal	Spain Russia United	Kingdom AFRICA	Burundi Democ. Ren Condo	Egypt Nigeria	Rwanda South Africa	Zimbabwe	Uganda	ASIA China	sia	Kazakhstan Laos	Malaysia	Mongolia	Myanmar Thailand	Vietnam	AMERICA Bolivia	Brazil	Peru U.S.A.	OCEANIA	Australia	WORLD 3

Source : World Bureau of Metal Statistics

WORLD REFINED TIN CONSUMPTION (In Tonnes)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020
EUROPE										Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Austria	3,200	2,978	3,184	3,715	3,438	3,323	4,148	3,983	3,082	225	225	250	317	300	286	300	100	75	100	235	235
Belgium	6,584	5,231	5,400	2,400	2,400	2,400	697	720	720	60	60	60	60	60	60	60	60	60	60	60	60
Bulgaria Czech	520	500	501	360	144	101	1	117	210		25	25	25	25	25	25	25	25	25	20	20
Republic	470	474	379	300	460	515	532	603	605	29	43	44	10		41	40	60	16	16	25	25
Denmark	108	13	24	11	8	3	17	7	1	1	1	1	0		1	1	1	1	1	0	0
Finland	131	121	72	244	211	86	51	77	94	3	3	6	5	5	7	7	5	1	10	3	3
France	4,839	4,323	4,616	5,203	4,382	4,736	5,456	6,080	5,020	534	610	608	467	625	465	512	337	379	312	148	148
Germany	19,788	17,592	17,896	18,835	17,931	18,242	20,284	20,236	18,441	1,521	1,400	1,400	1,488		997	997	1,173	1,000	1,100	1,083	1,000
Greece	1,350	630	616	676	655	632	600	646	634	51	50	53	61	51	58	58	52	52	52	51	51
Hungary	106	105	111	109	163	145	1,177	2,050	2,036		190	150	150		100	100	100	75	70	100	100
Ireland	48	7	3	3	7	2 405	0	2	0	0	0	0	0		0	0	0	0	0	0	0
Italy	4,807	6,111	3,096	3,760	3,017	3,495	3,974	4,678	4,324	336	300	100	220		400	400	300	300	200	200	200
Netherlands	4,867	4,500	7,399	7,200 3	6,000	6,000	6,000	6,000	6,000	500	500	500	500	500 1	500	500	500	500	500	450	450
Norway	1 500	9	1 000	-	_	0	2 527	2 722	2 225	8	5	0	570	-	0 500	0	0	0	0 75	1 90	0
Poland	1,582	2,085	1,908	2,520	2,647	3,669	3,537	3,723	3,335	598	360	360	572	400		500	624	75 10	10		90
Portugal	529	435 960	356	482 960	408	554	856	891	831	44	57	109	56 20	127	100	100	29	10	20	90 30	90 50
Romania	1,140		3,200		840	336	516	866	551	25	25	20			20	20	10	20			
Russia	2,960	3,039 240	3,196 202	1,516 404	1,262 501	995 465	1,339 645	495 767	1,914 503	122 48	136 45	136	190 93		160 25	105 03	85 45	85 46	130 45	170 36	84 65
Slovakia	400 2,032	1,303	1,913	1,470	1,864	465 1,495	1,605	1,652	593 1,563	205	45 140	69 120	245	23 120	25 60	93 60	45 90	150	45 150	150	150
Spain Sweden	5,742	2,910	4,385	6,435	5,682	6,492	5,457	6,020	5,835	530	500	350	487	500	386	250	400	350	482	388	388
Switzerland	200	2,910	4,365 861	66	5,062	6,492	5,457	45	5,635	6	6	350	3			250	3	350	462	10	10
United		780			962	979	936		262			ა 8	12	9	ა 6	3 7	3 7	6	9		12
Kingdom	703		821	794				961		15	12	_			-	-		_	-	10	
Yugoslavia	2,390	1,320	1,140	1,080	1,080	1,080	1,080	1,080	1,080	90	90	80	80		80	80	80	80	80	80	80
Other Europe	900	720	720	720	720	720	720	720	720	60	60	50	40	40	40	40	40	40	40	40	40
AFRICA																					
Egypt	400	110	104	0	155	107	119	225	174	13	10	10	0	0	12	12	5	10	5	8	8
Morocco	84	84	29	14	16	21	15	22	20	3	3	0	3	0	4	4	1	2	0	2	2
Nigeria	300	300	300	300	300	300	623	1,436	1,322	20	20	20	20	20	20	20	20	20	20	20	20
South Africa	1,464	1,200	1,152	1,243	1,129	1,047	957	633	604	50	50	50	30	45	24	0	0	24	24	82	10
Other Africa	900	720	720	720	720	720	720	720	720	60	60	50	40	40	40	40	40	40	40	40	40
ASIA																					
China	180,812	176,404	168,194	192,610	175,842	191,415	183,391	174,183	177,891	8,926	11,175	12,672	14,716	16,382	14,851	15,220	12,330	18,773	20,084	19,332	22,804
Hong Kong	1,800	1,800	1,800	1,800	1,800	1,800	1,800	3,300	3,600	70	39	69	40	40	40	40	40	40	40	40	40
India	9,738	9,985	9,941	11,870	12,857	9,088	9,861	11,365	10,615	972	1,000	700	840	840	400	400	600	500	1,000	1,332	1,000
Indonesia	1,200	1,200	600	1,200	1,200	1,200	1,200	1,200	1,200	100	100	100	100	100	100	100	100	100	100	100	100
Iran	2,400	1,200	797	737	1,129	987	1,058	1,573	2,221	120	120	100	225	200	200	200	200	200	200	180	180
Japan	26,936	27,657	28,272	27,090	26,762	26,113	29,111	28,084	24,905		1,484	1,936	1,697	2,138	1,697	1,479	1,337	1,599	1,521	1,644	1,448
Kazakhstan	1,044	606	602	431	423	490	431	405	350	20	2	52	52	50	18	18	54	52	55	0	0
Malaysia	4,440	4,440	3,900	3,900	1,560	1,560	1,560	1,560	1,560	130	130	130	130		130	130	130	130	130	130	130
Pakistan	480	360	528	618	480	279	300	489	311	10	10	20	25	25	25	25	25	25	25	15	15
Philippines	217	122	143	225	118	506	220	307	1,385	120	100	100	17	20	116	100	120	60	60	40	40
Singapore	2,000	2,000	2,000	1,998	2,000	1,960	1,920	1,920	1,920	160	160	140	140	140	140	140	140	140	140	140	140
South Korea	14,404	16,238	14,533	13,772	13,091	14,199	13,112	13,927	11,957	1,265	763	1,880	844	1,274	670	1,150	832	1,420	843	1,293	1,171
Syria	180	120	0	120	120	120	120	120	0	0	0	0	0		0	0	0	0	0	0	0
Taiwan	8,093	7,071	5,883	4,583	4,703	4,140	4,494	4,576	4,569		310	679		409			960		850	919	900
Thailand	3,540	3,538		3,952	3,074	3,131	4,259	3,000	3,000		250	250	250		250	250	250	250	250	250	250
Turkey	2,422	2,135	2,337	2,259	2,136	2,416	3,110	3,215	3,202	231	387	378	278	333	340	151	481	182	205	343	361
United Arab Emirates	3,000	2,400	2,400	2,400	4,200	4,800	4,800	3,600	3,600	300	300	200	600	600	200	200	200	200	200	180	180
Vietnam	2,000	2,000	3,600	5,457	6,000	6,000	6,000	4,200	3,600	300	300	300	300	300	400	400	400	400	400	400	400
Other Asia	1,860	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	180	180	160	130	130	130	130	130	130	130	130	130
AMERICA																					
Argentina	778	752	882	560	833	878	596	674	420	33	60	53	96	33	274	86	96	80	103	65	128
Bolivia	480	480	480	480	480	480	480	480	480	40	40	40	40	40	40	40	40	40	40	40	40
Brazil	5,628	3,546	6,073	4,600	4,606	17,258	10,009	9,357	9,398	936	844	829	847	1,037	471	500	181	181	100	109	108
Canada	2,882	2,601	2,360	2,740	3,238	2,887	2,562	2,489	2,387	218	201	114	190	108	83	174	119	224	119	156	165
Chile	242	199	132	96	152	111	82	95	111	15	5	0	3	20	10	16	11	17	19	1	16
Colombia	348	320	308	286	243	300	280	271	248	30	30	6	7	0	23	20	30	15	10	29	20
Mexico	3,898	3,493	3,393	3,769	3,615	4,160	4,197	4,906	4,779	433	400	200	306	300	456	450	450	450	250	362	400
Peru	216	216	220	216	216	216	216	216	216	18	18	18	0	18	18	18	18	18	18	18	18
U.S.A.	30,365	30,691	29,193	28,800	30,644	29,455	31,476	34,664	31,057	3,373	2,784	4,894	2,868	2,403	1,170	2,018	1,725	1,891	1,895	2,376	2,123
Venezuela	335	205	187	178	90	59	19	16	12	1	1	1	1	1	0	0	0	0	0	1	1
Other America	600	420	420	420	420	420	420	420	420	35	35	25	20	20	20	20	20	20	20	20	20
OCEANIA																					
Australia	579	480	516	427	467	215	259	284	375	20	20	45	1	45	0	10	3	20	20	19	22
New Zealand	66	73	19	18	19	7	49	46	41	5	0	0	0		5	1	0	0	0	18	1
WORLD TOTAL	381,772	360,887	359,960	381,439	361,943	387,563	381,702	378,582	368,742	26,609	26,234	30,723	30,573	32,060	27,656	28,720	25,214	31,567	32,406	33,304	35,782
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Source : World Bureau of Metal Statistics