

TABLE 1. WORLD REFINED COPPER PRODUCTION AND USAGE TRENDS

2011-2017

Thousand metric tonnes, copper

	2011	2012	2013	2014	2015	2016	2016	2017	2017			
							p/	Jan-Dec	Sep	Oct	Nov	Dec
World Mine Production	15,964	16,691	18,185	18,428	19,154	20,365	20,365	19,983	1,685	1,766	1,744	1,821
World Mine Capacity	19,476	20,015	20,778	21,548	22,337	23,415	23,415	23,906	1,987	2,061	2,002	2,076
Mine Capacity Utilization (%)	82.0	83.4	87.5	85.5	85.7	87.0	87.0	83.6	84.8	85.7	87.1	87.7
Primary Refined Production	16,133	16,598	17,255	18,576	18,925	19,497	19,497	19,471	1,614	1,647	1,646	1,796
Secondary Refined Production	3,468	3,596	3,803	3,915	3,945	3,866	3,866	4,037	336	352	347	332
World Refined Production (Secondary+Primary)	19,601	20,194	21,058	22,491	22,871	23,363	23,363	23,508	1,949	1,999	1,993	2,129
Seasonally Adjusted Refined Production - monthly ^{1/}							1,947	1,958	1,951	1,965	1,978	2,034
World Refinery Capacity	23,517	24,383	25,568	26,468	26,551	26,863	26,863	27,402	2,260	2,337	2,264	2,343
Refineries Capacity Utilization (%)	83.3	82.8	82.4	85.0	86.1	87.0	87.0	85.8	86.3	85.5	88.0	90.9
Secondary Refined as % in Total Refined Prod.	17.7	17.8	18.1	17.4	17.3	16.5	16.5	17.2	17.2	17.6	17.4	15.6
World Refined Usage ^{2/}	19,713	20,473	21,396	22,885	23,040	23,513	23,513	23,670	2,065	1,969	2,034	2,112
Seasonally Adjusted World Refined Usage - monthly ^{1/}							1,959	1,971	2,031	1,961	1,998	2,036
World Refined Stocks End of Period	1,205	1,376	1,325	1,350	1,521	1,391	1,391	1,406	1,447	1,425	1,390	1,406
Period Stock Change	7	171	-52	25	171	-130	-130	15	11	-22	-35	16
Refined Balance ^{3/}	-113	-279	-337	-394	-169	-150	-150	-163	-116	31	-41	17
Seasonally Adjusted Refined Balance ^{4/}							-148	-155	-80	4	-20	-2
Refined Balance Adjusted for Chinese bonded stock change ^{5/}	-174	289	-585	-418	-272	-137	-137	-135	-131	21	-26	7
LME Copper Price ^{6/}	8,811	7,950	7,322	6,862	5,494	4,863	4,863	6,166	6,583	6,797	6,826	6,801
Comex Copper Price ^{7/}	398.41	361.32	333.69	312.05	250.54	219.85	219.85	280.53	298.86	309.56	309.42	309.83

p/ Preliminary

1/ See note below on seasonal adjustments. Figures in the year-to-date columns represent seasonally adjusted monthly averages.

2/ Apparent refined usage is used for the European Union (EU-15) instead of the accumulation of the individual countries' refined usage.

3/ Surplus or deficit is calculated using total refined production minus refined usage.

4/ Refined balance is calculated using seasonally adjusted total refined production minus seasonally adjusted refined usage.

5/ See note below on refined balance adjusted for Chinese bonded stock change.

6/ Averages for the period in US dollars per ton of copper.

7/ Averages for the period in US cents per pound of copper.

Note on refined balance adjusted for Chinese bonded stock change.

Beginning in January 2014 Bulletin, the International Copper Study Group (ICSG) introduced an additional line item for apparent world balance that includes an adjustment for assumed changes in Chinese bonded stocks. Historically, ICSG has only accounted for reported stock data in its statistics and therefore did not account for unreported stocks change in the calculation of apparent usage. In recent years anecdotal evidence has suggested that there have been substantial fluctuations in Chinese bonded stock levels and apparent consumption based on trade, production, and changes in exchange inventories may not adequately reflect industrial use in a given time period. ICSG acknowledges the distortion these unreported stock movements can cause in the calculation of the world copper refined balance and, effective with the January 2014 Bulletin, will include an additional line item - Refined World Balance Adjusted for Chinese Bonded Stock Changes. As there is no officially reported data for Chinese bonded stocks, ICSG will use an average of stock estimates provided by three consultants based on their ongoing research and analysis of the Chinese copper market to estimate the unreported inventory changes.

Note on seasonal adjustments:

The International Copper Study Group introduced seasonal adjustments in its supply usage table to help better assess the state of the copper market. The introduction of seasonally adjusted refined usage and refined balance figures was originally intended to account for the effects of variations in days per month and holiday periods in certain key copper using regions of the world. Starting with the April 2007 edition of the Copper Bulletin (January 2007 data), the International Copper Study Group will be using the U.S. Census Bureau's X-12 seasonal adjustment program to calculate seasonally adjusted refined usage, production, and balance figures in order to provide more analytically rigorous seasonally adjusted results. Seasonal adjustments have also been made for data from past years.

Each month the ICSG issues the above table in a Press Release which is also included in ICSG's web site:

<http://www.icsg.org>