

Gold and Copper Price Survey

December 2016

During 2016, volatility of commodity prices has continued. Global economic uncertainty has led to various rises and falls during short periods of time. Brexit, the US election (pre and post) and interest rate expectations are but a few factors contributing to these changes. Price assumptions for mining financial models are critical, therefore finding the balance between optimism and pessimism for forecasting continues to be essential for companies.

Within this survey summary, we provide a quick and up to date reference of the industry pricing for gold and copper from the eyes of some of the leading companies in the industry.

Gold Price (US\$/oz)

Average in 2016 (Up to November)	1,257
Max in 2016	1,366
Min in 2016	1,061
Average in 2015	1,159

Copper Price (US\$/lb)

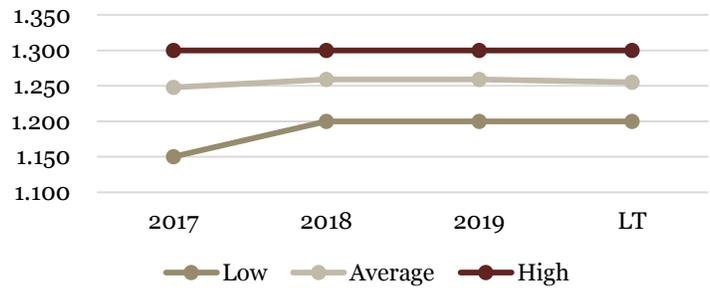
Average in 2016 (Up to November)	2.17
Max in 2016	2.69
Min in 2016	1.96
Average in 2015	2.50

Gold activity

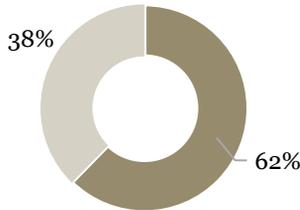
What gold price are you using to determine resources and reserves?

US\$/oz	Low	Average	High
Reserves	1,100	1,212	1,260
Resources	1,125	1,285	1,400

What long term gold price are you using (or do you expect to use at the current time) for mine planning and impairment testing?

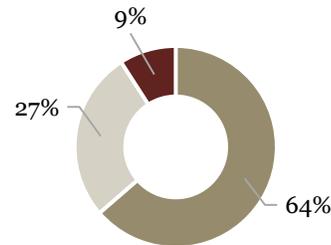


What is the Company's approximate consolidated all-in sustaining cost forecast for 2017?



■ US\$800 - US\$1000 /oz ■ Less than US\$800 /oz

What is the most important input you use in determining your long term gold price:



■ Consensus price ■ Spot ■ Management's best estimate

While the average gold price is up approximately \$100 in 2016 versus 2015, the increases in Q3 and again in early Q4 2016, which were above \$1,300, have reverted back at the time of this report to mid \$1,100. However, companies' average reserve prices are up \$40 per ounce and long term planning prices are up \$20 per ounce showing more confidence in the industry.

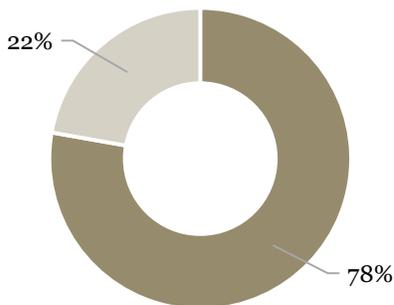


Copper activity

What copper price are you using to determine resources and reserves?

US\$/oz	Low	Average	High
Reserves	2.25	2.68	3.00
Resources	2.25	2.75	3.00

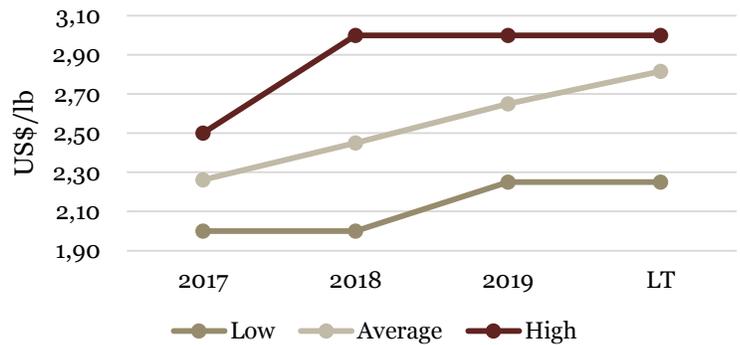
What is the most important input you use in determining your long term copper price:



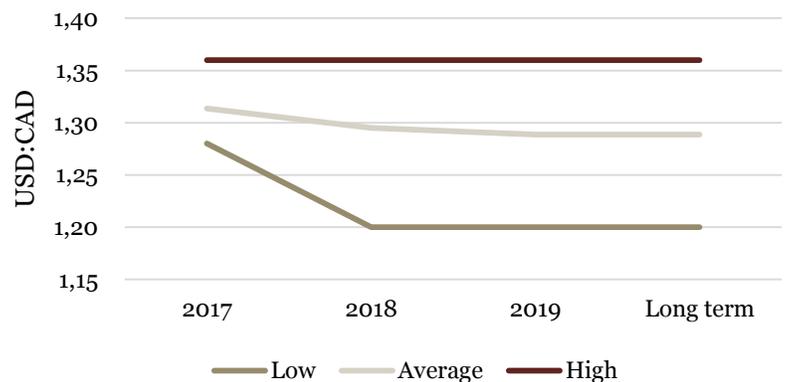
■ Consensus price ■ Management's best estimate

The recent run up in copper has not yet flown through to copper pricing assumptions. Spot price went up from approximately \$2.10 per lb. to \$2.60 per lb. during Q4 2016. Companies have decreased their average reserve price from \$2.82 in 2015 to \$2.68 per lb. in 2016. Average long term planning prices are also down approximately 3% this year.

What long term copper price are you using (or do you expect to use at the current time) for mine planning and impairment testing?



What foreign exchange rate do you use in your mine planning?



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