

# What Is So Good About Gold?

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Warren Buffett – who is the second-wealthiest man in the U.S. with a net worth of \$72.7 billion according to Forbes.com – once said this about gold:

*Gold gets dug out of the ground in Africa, or someplace. Then we melt it down, dig another hole, bury it again and pay people to stand around guarding it. It has no utility. Anyone watching from Mars would be scratching their head.*

If the country's second-wealthiest man has such antipathy toward it, what *is* so good about gold? Before attempting to answer that question, let's first take a look at what gold is and what it isn't.

## What Is Gold?

Despite Warren Buffett's remark about head-scratching Martians, there is nothing mysterious about gold. Scientifically speaking, gold is a chemical element with the symbol **Au** and the atomic number of 79 – between platinum (**Pt**) and mercury (**Hg**) and directly below silver (**Ag**) on the Periodic Table of Elements. (See **Figure 1.**) It is a bright yellow dense, soft, malleable and ductile metal.

## Figure 1: Periodic Table of the Elements

**Periodic Table of the Elements**

1 IA 11A																	18 VIIIA 8A
1 H Hydrogen 1.008	2 IIA 2A											13 IIIA 3A	14 IVA 4A	15 VA 5A	16 VIA 6A	17 VIIA 7A	2 He Helium 4.003
3 Li Lithium 6.941	4 Be Beryllium 9.012											5 B Boron 10.811	6 C Carbon 12.011	7 N Nitrogen 14.007	8 O Oxygen 15.999	9 F Fluorine 18.998	10 Ne Neon 20.180
11 Na Sodium 22.990	12 Mg Magnesium 24.305	3 IIIB 3B	4 IVB 4B	5 VB 5B	6 VIB 6B	7 VIIB 7B	8 VIII 8	9 VIII 9	10 VIII 10	11 IB 1B	12 IIB 2B	13 Al Aluminum 26.982	14 Si Silicon 28.086	15 P Phosphorus 30.974	16 S Sulfur 32.065	17 Cl Chlorine 35.453	18 Ar Argon 39.948
19 K Potassium 39.098	20 Ca Calcium 40.078	21 Sc Scandium 44.956	22 Ti Titanium 47.88	23 V Vanadium 50.942	24 Cr Chromium 51.996	25 Mn Manganese 54.938	26 Fe Iron 55.933	27 Co Cobalt 58.933	28 Ni Nickel 58.693	29 Cu Copper 63.546	30 Zn Zinc 65.39	31 Ga Gallium 69.732	32 Ge Germanium 72.61	33 As Arsenic 74.922	34 Se Selenium 78.09	35 Br Bromine 79.904	36 Kr Krypton 84.80
37 Rb Rubidium 84.468	38 Sr Strontium 87.62	39 Y Yttrium 88.906	40 Zr Zirconium 91.224	41 Nb Niobium 92.905	42 Mo Molybdenum 95.94	43 Tc Technetium 98.907	44 Ru Ruthenium 101.07	45 Rh Rhodium 102.906	46 Pd Palladium 106.42	47 Ag Silver 107.868	48 Cd Cadmium 112.411	49 In Indium 114.818	50 Sn Tin 118.71	51 Sb Antimony 121.760	52 Te Tellurium 127.6	53 I Iodine 126.904	54 Xe Xenon 131.29
55 Cs Cesium 132.905	56 Ba Barium 137.327	57-71 Lanthanide Series	72 Hf Hafnium 178.49	73 Ta Tantalum 180.948	74 W Tungsten 183.85	75 Re Rhenium 186.207	76 Os Osmium 190.23	77 Ir Iridium 192.22	78 Pt Platinum 195.08	79 Au Gold 196.967	80 Hg Mercury 200.59	81 Tl Thallium 204.383	82 Pb Lead 207.2	83 Bi Bismuth 208.980	84 Po Polonium [209]	85 At Astatine [210]	86 Rn Radon [222]
87 Fr Francium 223.020	88 Ra Radium 226.025	89-103 Actinide Series	104 Rf Rutherfordium [261]	105 Db Dubnium [262]	106 Sg Seaborgium [266]	107 Bh Bohrium [264]	108 Hs Hassium [269]	109 Mt Meitnerium [268]	110 Ds Darmstadtium [269]	111 Rg Roentgenium [272]	112 Cn Copernicium [277]	113 Uut Ununtrium unknown	114 Fl Flerovium [289]	115 Uup Ununpentium unknown	116 Lv Livermorium [293]	117 Uus Ununseptium unknown	118 Uuo Ununoctium unknown
		57 La Lanthanum 138.906	58 Ce Cerium 140.115	59 Pr Praseodymium 140.908	60 Nd Neodymium 144.24	61 Pm Promethium 144.913	62 Sm Samarium 150.36	63 Eu Europium 151.966	64 Gd Gadolinium 157.25	65 Tb Terbium 158.925	66 Dy Dysprosium 162.50	67 Ho Holmium 164.930	68 Er Erbium 167.26	69 Tm Thulium 168.934	70 Yb Ytterbium 173.04	71 Lu Lutetium 174.967	
		89 Ac Actinium 227.028	90 Th Thorium 232.038	91 Pa Protactinium 231.036	92 U Uranium 238.029	93 Np Neptunium 237.048	94 Pu Plutonium 244.064	95 Am Americium 243.061	96 Cm Curium 247.070	97 Bk Berkelium 247.070	98 Cf Californium 251.080	99 Es Einsteinium [254]	100 Fm Fermium 257.095	101 Md Mendelevium 258.1	102 No Nobelium 259.101	103 Lr Lawrencium [262]	

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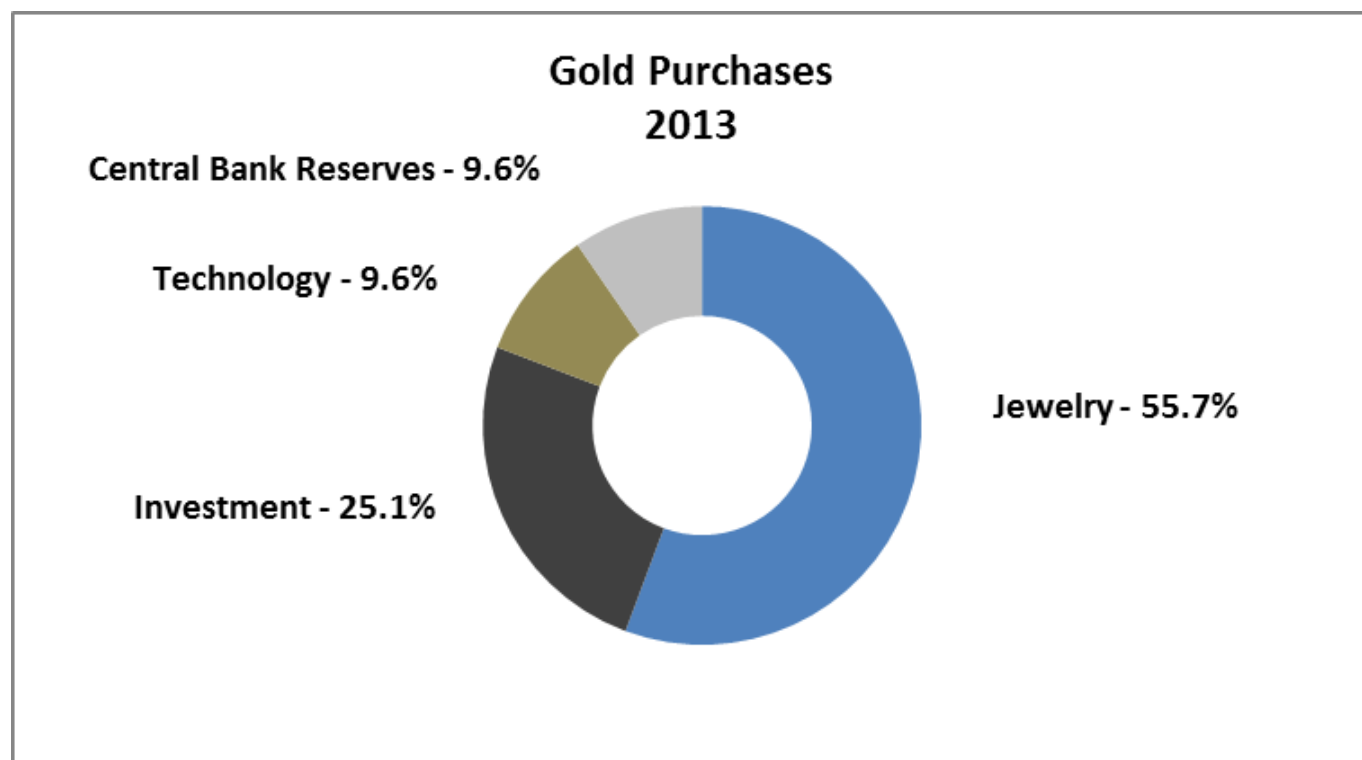
People first mined gold about 5,000 years ago. Since that time, we have valued gold for emotional, cultural, political and economic reasons. Because of its emotional, cultural and political significance, gold has been the subject of many beliefs and false beliefs. Although this post will focus on gold's economic aspects, it will also attempt to dispel some of the confusion and false beliefs surrounding it.

According to the World Gold Council, there were 177,200 tonnes of gold stock in existence above the ground at the end of 2013. Approximately 3,000 tonnes of new gold is mined each year, an increase in the gold stock of only 1.5% to 2.0% per year. East Asia as a whole produces 21 per cent of the total of newly-mined gold. (China is the largest single gold-producing country in the world, accounting for around 14 per cent of total production.) Latin America produces around 18 per cent of the total, with North America supplying around 15 per cent. Around 19 per cent of production comes from Africa and 5 per cent from Central Asia and Eastern Europe.

On average, 45 to 50% of the gold purchased each year is fabricated into jewelry, 30% to 35% of the gold purchased is acquired for investment purposes, 10% is purchased for

manufacturing in technology and 10% is purchased by Central Banks for their reserve portfolios. During 2013, 2,370 tonnes of gold were purchased for jewelry fabrication (55.7%), 1,069 tonnes were purchased for investment (25.1%), 408 tons were purchased for technology manufacturing (9.6%) and Central Bank net purchases accounted for 409 tonnes (9.6%). (See **Figure 2.**)

**Figure 2: Gold Purchases 2013**



### **Is Gold Money?**

Much of the confusion surrounding gold today stems from its historical role as money. The World Gold Council provides a comprehensive overview of gold's role in the monetary system. A summary of the WGC's overview follows.

Gold coins were first struck on the order of King Croesus of Lydia (an area that is now part of Turkey around 550 BC. Gold coins circulated as currency in many countries before the introduction of paper money. Once paper money was introduced, currencies still maintained an explicit link to gold, with the paper being exchangeable for gold on demand. By the late 19th Century, many of the world's major currencies were fixed to

gold at a set price per ounce, under the so-called Gold Standard.

Under the Gold Standard, nearly all countries either fixed the value of their currencies in terms of a specified amount of gold, or linked their currency to that of a country that did so. Domestic currencies were freely convertible into gold at the fixed price and there was no restriction on the import or export of gold. Gold coins circulated as domestic currency alongside coins of other metals and notes, with the composition varying by country. Because each currency was fixed in terms of gold, exchange rates between participating currencies were also fixed.

The classical Gold Standard existed for only about 40 years – from the 1870s until the outbreak of World War I in 1914. By 1900 all countries apart from China, and some Central American countries, were on a Gold Standard.

The Gold Standard broke down at the outset of WW I as countries resorted to inflationary policies to finance the war and, later, reconstruction efforts. In practice, only the U.S. remained on the gold standard during the war. Periodic attempts to return to a pure classical Gold Standard were made during the inter-war period, but none survived past the Great Depression.

During World War II, many believed that a new international system would be needed after the war ended to replace the Gold Standard. The design for the new system was drawn up at the Bretton Woods Conference – named after the town in New Hampshire in which it took place – in 1944. The Bretton Woods system fixed the dollar to gold at the existing parity of US\$35 per ounce, while all other currencies had fixed, but adjustable, exchange rates to the dollar.

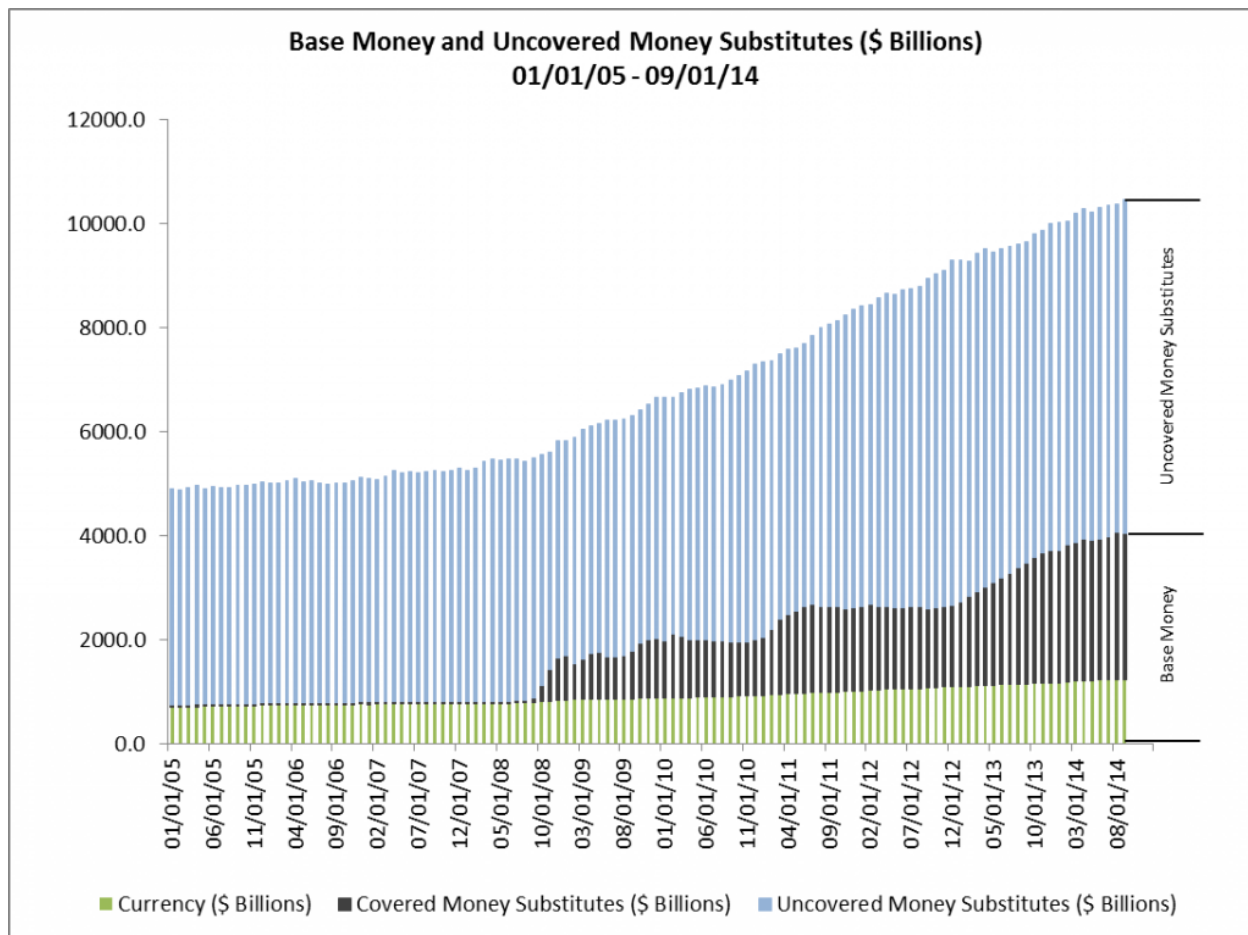
In March 1968, a two-tier gold market was introduced with a freely floating private market, but with official transactions

at the fixed parity of US\$35 per ounce. Finally in August 1971, President Nixon announced that the U.S. would end on-demand convertibility of the dollar into gold for the central banks of other nations. The Bretton Woods system collapsed and gold traded freely on the world's markets.

To determine gold's status as money today, we must first define money. According to Austrian School economists, the defining characteristic of money is its use as a medium of exchange. If Austrian School economists considered gold to be a medium of exchange today, they'd be including it in their calculation of the money supply.

As explained by RealForecasts in its last post, however, the Austrian money supply – which RealForecasts.com refers to as the True Money Supply – is made up of Base Money and Uncovered Money Substitutes. Base Money is made up of Currency Outstanding and Reserve Deposits held by the Fed. The Uncovered Money Substitute portion of the money supply is money created by the “pyramiding” of Reserve Deposits through fractional reserve banking. (See **Figure 3.**)

**Figure 3: Base Money and Uncovered Money Substitutes (\$ Billions) 01/01/05 – 09/01/14**



During periods in which gold coins circulated as part of a country's currency and these currencies were freely convertible into gold held by central banks at a fixed price under the Gold Standard, gold was used a medium of exchange, was part of Base Money and thus was a part of the money supply. Gold was money.

Today, gold coins are no longer circulating as currency and are therefore no longer a medium of exchange. Further, since the collapse of the Bretton Woods System, gold is no longer part of Base Money and therefore is not part of the money supply. As a result, it is no longer accurate to characterize gold as money.

All that said, many investors purchase gold as a hedge against the debasement and possible collapse of a fiat currency. They believe that gold will regain its status as money if the fiat currency collapses. Because of gold's potential to become an integral part of the monetary system once again, a case can be

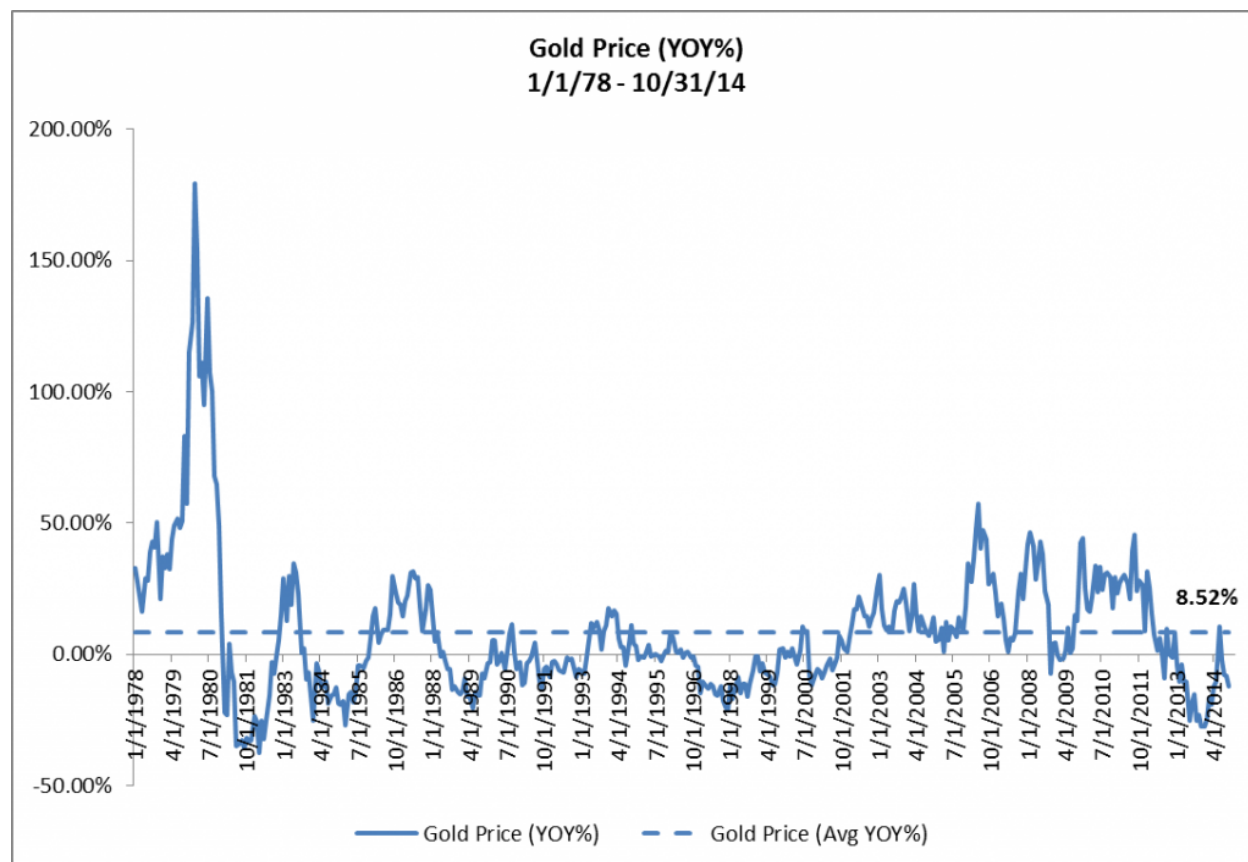
made to characterize gold as “contingent money”.

## Is Gold A Good Investment?

In investment circles, gold is categorized as a “real asset” as compared to a “financial asset”. Real assets are physical or tangible assets that have value, due to their intrinsic qualities and properties. Real assets include precious metals like gold, commodities, real estate, agricultural land and oil. Financial assets or “paper assets” derive their value from a contractual claim. Stocks, bonds and bank deposits are all examples of financial assets.

So is gold a good investment? Since 1978, the price of gold has reported an average increase of 8.52%, year-over-year. (See **Figure 4.**)

**Figure 4: Gold Price (YOY%) 1/1/78 – 10/31/14**

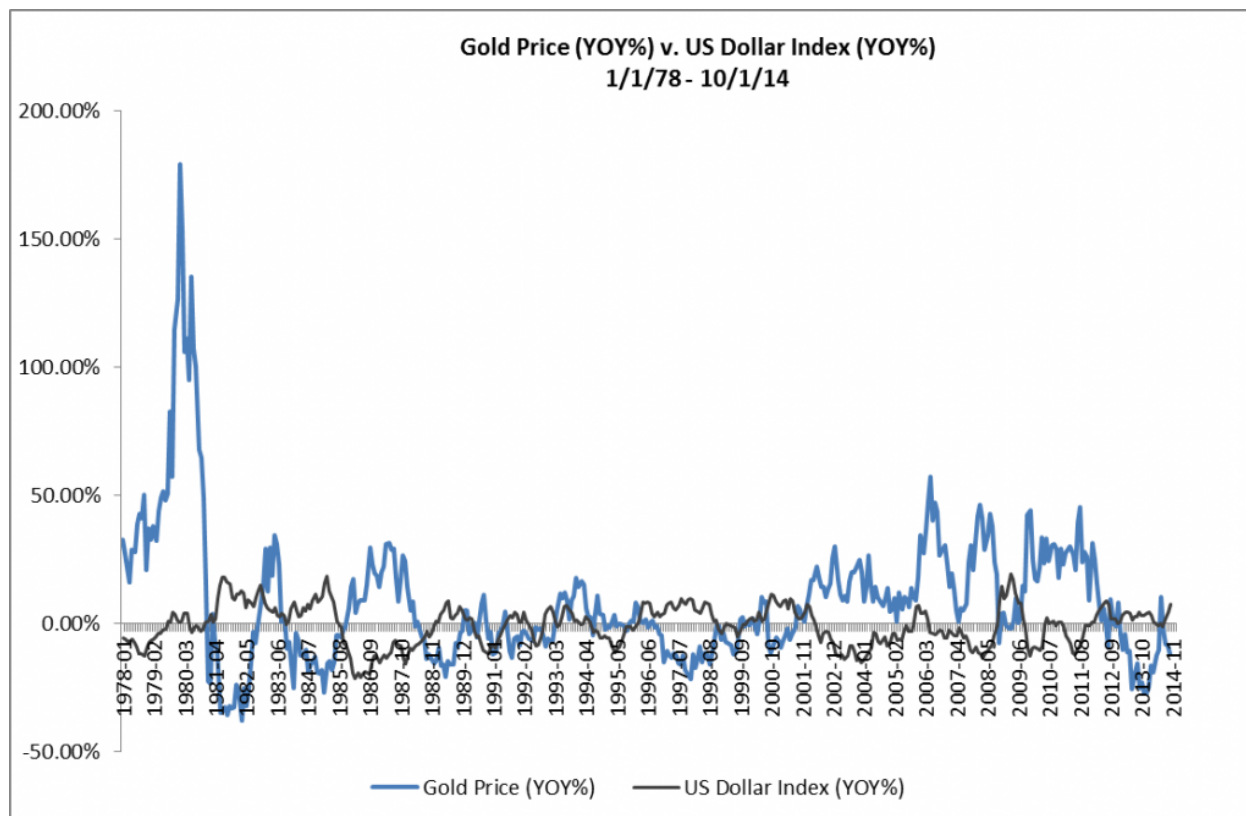


Whether an asset is a good investment, however, depends upon a number of factors such as the investor’s investment style,

risk tolerance, investment time horizon and investment objectives. For example, Warren Buffett is generally known as a buy-to-hold “value investor” in the tradition of Benjamin Graham and David Dodd. As the name suggests, value investors buy financial assets that appear under-priced based upon some form of fundamental analysis. It’s not surprising that a value investor like Buffett would eschew a real asset like gold.

On the other hand, diversified investors who follow the tenets of Modern Portfolio Theory – as pioneered by Harry Markowitz in the 1950s – are attracted to real assets like gold because they lack correlation with financial assets, which allows them to diversify their portfolios and reduce portfolio volatility. Still other investors choose gold as a hedge against both inflation and currency risk. Gold’s usefulness as a hedge against currency risk is illustrated in **Figure 5**.

**Figure 5: Gold Price (YOY%) v. US Dollar Index (YOY%) 1/1/78 – 10/1/14**



Note the very strong inverse correlation between the growth

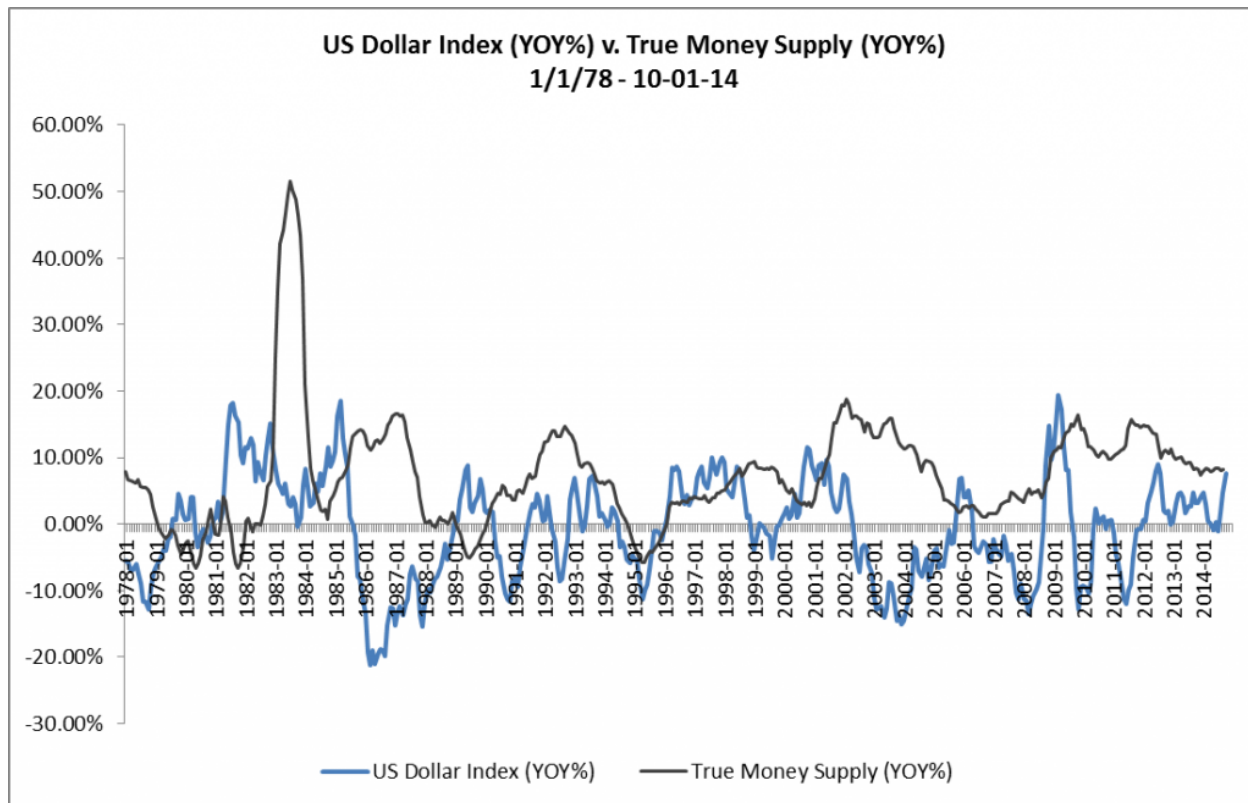


rate of the gold price and the growth rate of the price of the U.S. Dollar relative to other major currencies.

## U.S. Dollar Index and Gold Price Forecasts

Consistent with Austrian Business Cycle Theory, we can use the growth rate of TMS to forecast the growth rate of both the U.S. Dollar Index and Gold Price. The very strong inverse correlation between the growth rate of the U.S. Dollar Index and the growth rate of the True Money Supply (TMS) is shown in **Figure 6**.

**Figure 6: U.S. Dollar Index (YOY%) v. True Money Supply (YOY%) 1/1/78 – 10/01-14**

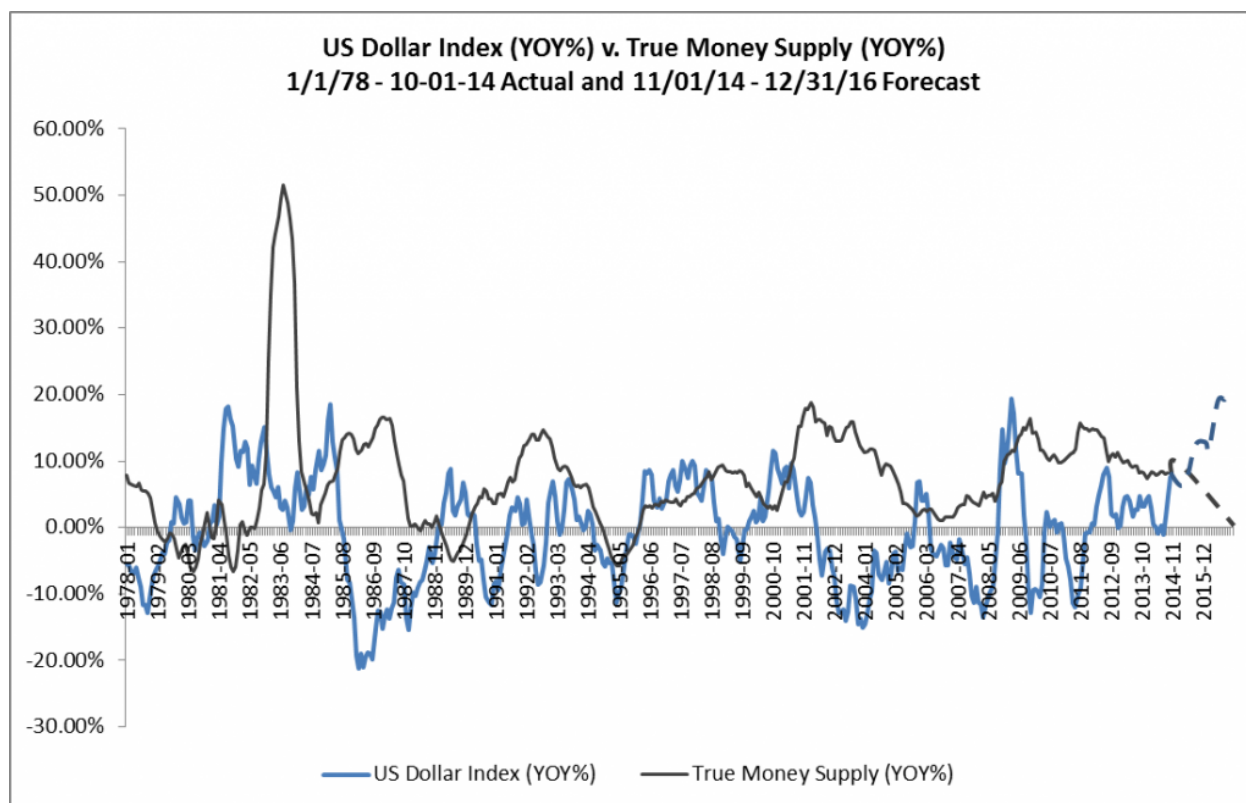


If the Fed expands the U.S. money supply at a faster rate than the central banks of the countries of other major currencies expand their money supply, the laws of supply and demand suggest that the price of the U.S. Dollar should fall relative to the other currencies (all else being equal). Conversely, if the Fed expands the U.S. money supply at a slower rate than the other central banks expand their currencies, the price of

the U.S. Dollar should rise relative to the other currencies. The chart in **Figure 6** certainly supports these suggestions.

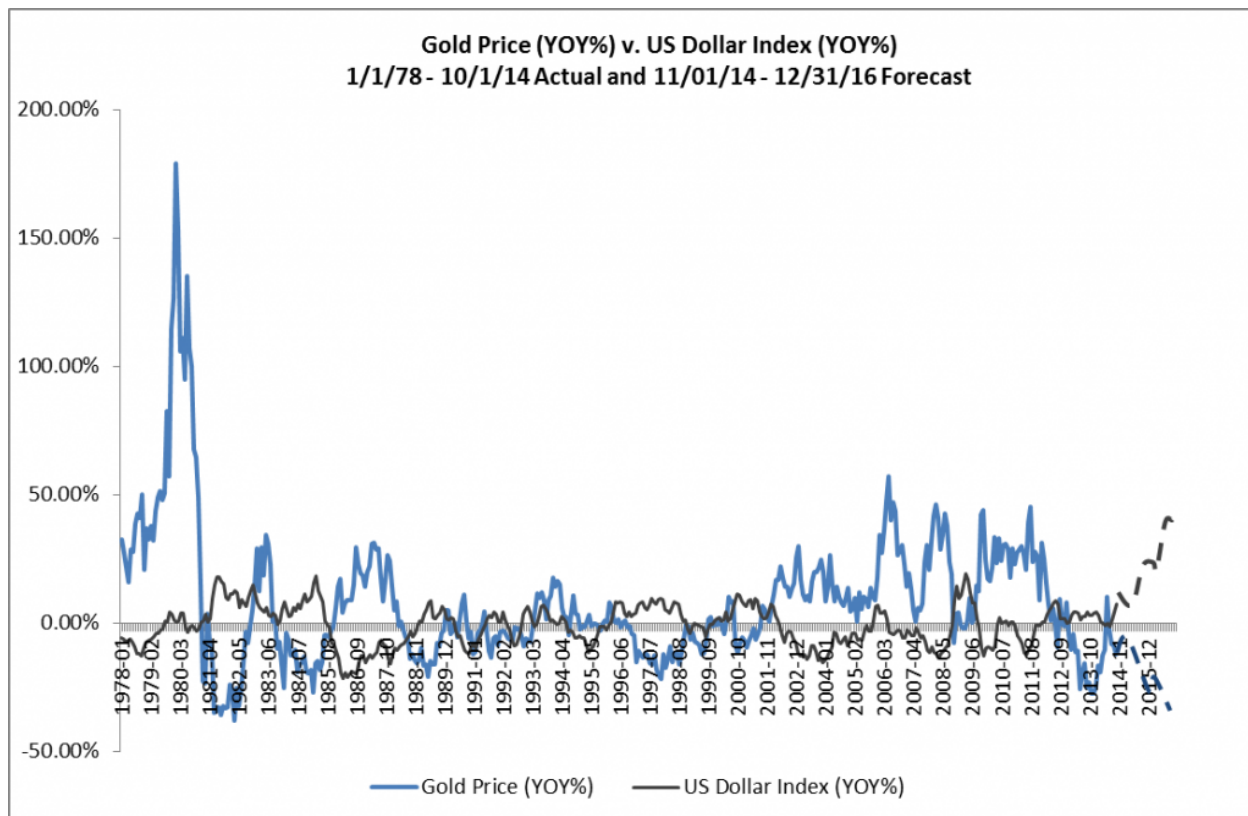
In its previous post, RealForecasts.com forecasted the continued deceleration in the growth of TMS through the end of 2016. If during the same period the European Central Bank, Japanese Central Bank and others accelerate the growth of TMS for their currencies, look for the US Dollar to continue to strengthen and the US Dollar Index to continue to rise. (See **Figure 7.**)

**Figure 7: US Dollar Index (YOY%) v. True Money Supply (YOY%) 1/1/78 – 10-01-14 Actual and 11/01/14 – 12/31/16 Forecast**



Because of the strong inverse correlation between the price of gold and the U.S. Dollar Index, when the U.S. Dollar strengthens and the U.S. Dollar Index rises, the Gold Price will likely fall. (See **Figure 8.**)

**Figure 8: Gold Price (YOY%) v. US Dollar Index (YOY%) 1/1/78 – 10/1/14 Actual and 11/01/14 – 12/31/14 Forecast**



When the next financial crisis occurs, however, watch for the Gold Price and the U.S. Dollar Index to reverse, with the growth rate of the U.S. Dollar Index decelerating and even decreasing and the growth rate of the price of gold accelerating sharply.

This forecast is not only predicated on the Fed continuing its current policy stance, but also on the other major central banks continuing their policy stances. In the event the Fed or the other central banks adjust their policy stances, it will also be necessary to adjust this forecast in light of the changed policies. Continue to check back with RealForecasts.com for future updates.

*As always, thanks to J. Michael Pollaro, author of The Contrarian Take, for the TMS data used to construct the charts in this article. To see more of Michael's TMS data, go to <http://blogs.forbes.com/michaelpollaro/austrian-money-supply/>.*