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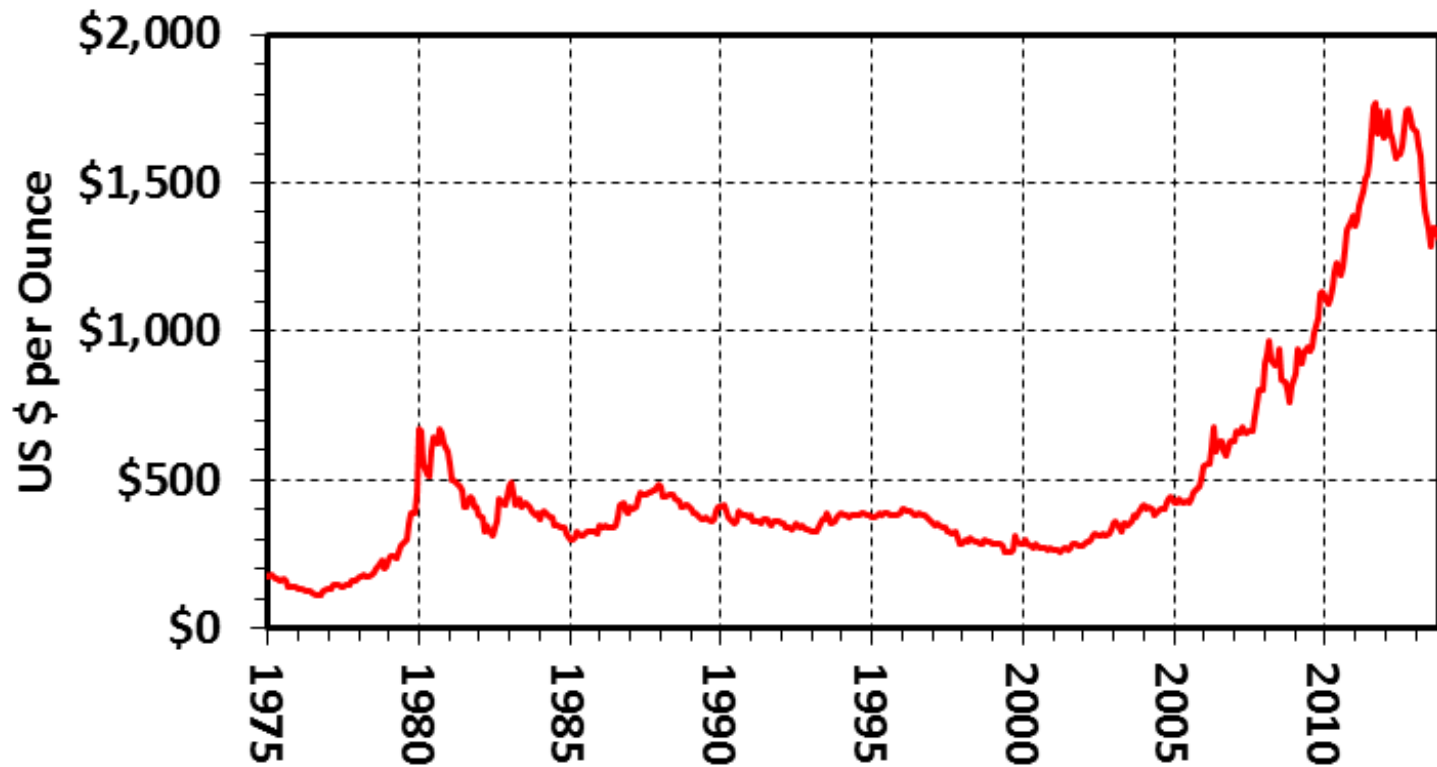


## From Boom To Bust & Back Again

- 4 to 7 Year Commodity Cycles
- 20 to 30 Year Secular Trends
- Supply & Demand Fundamentals
- 35 Year Career Economic Geologist
- 7 Price Cycles / 8 Career Changes

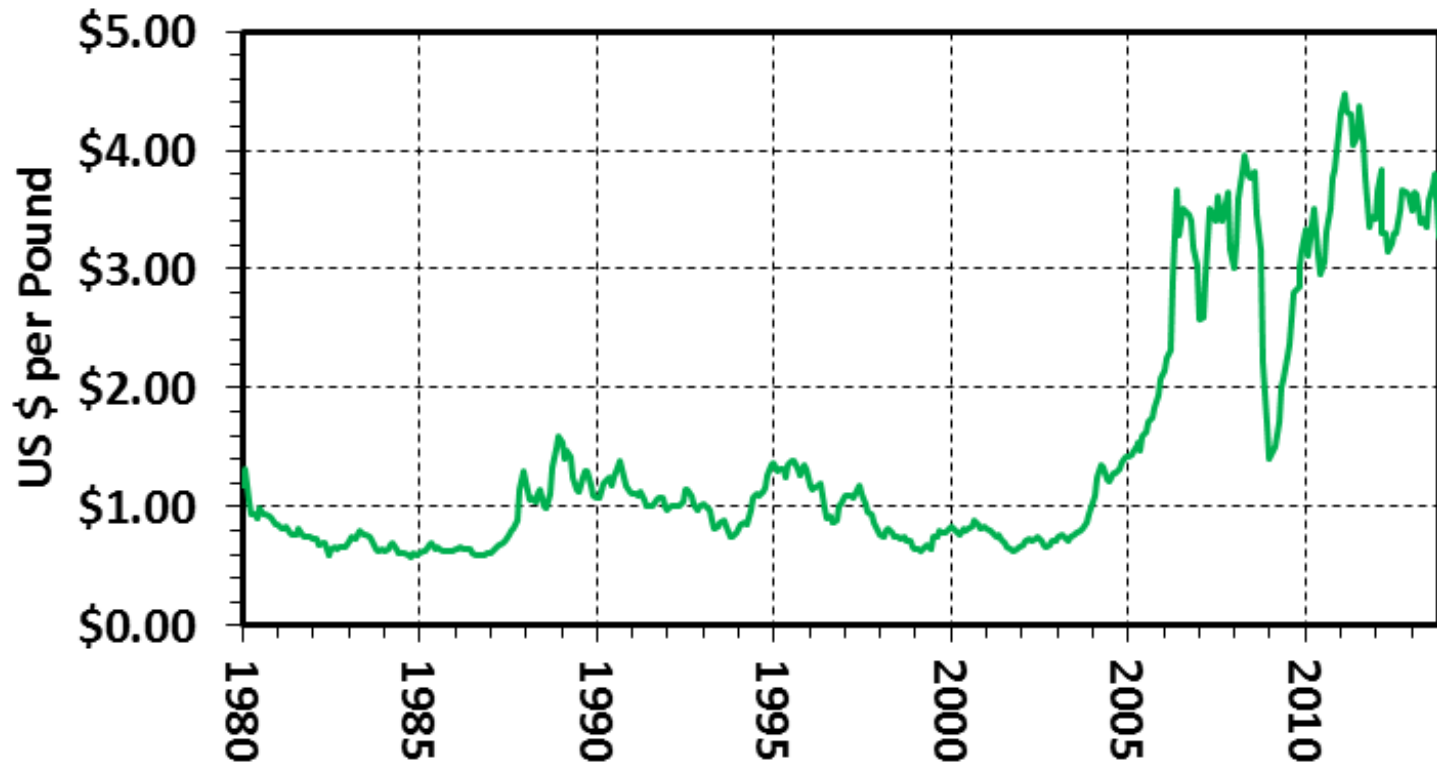


## Gold Spot Price Monthly Avg: 1975-Present



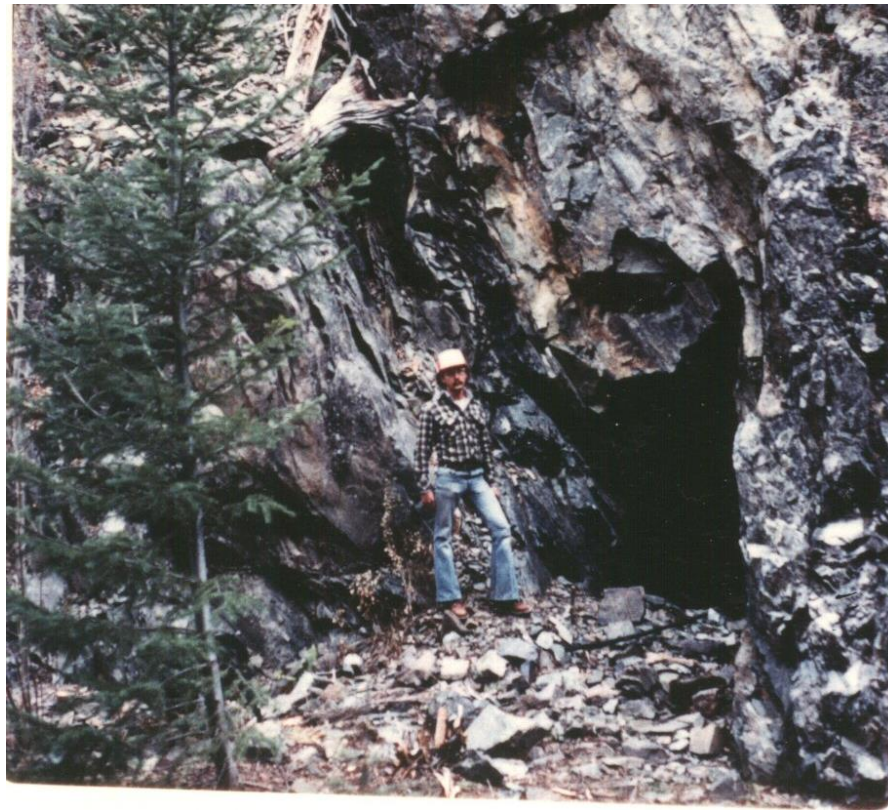


## Copper Spot Price Monthly Avg: 1980-Present



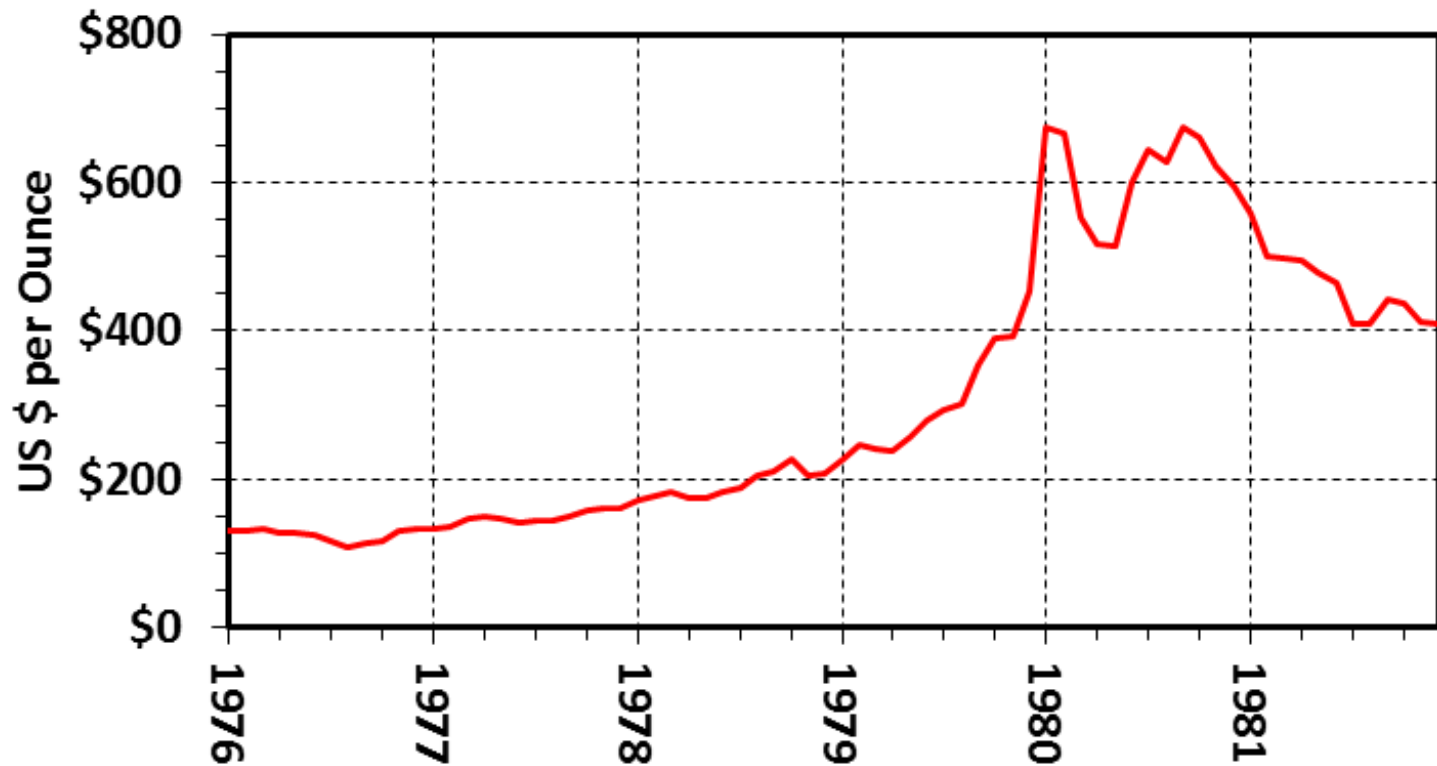


## Boom 1976 - 1981





## Gold Spot Price Monthly Avg: 1976-1981



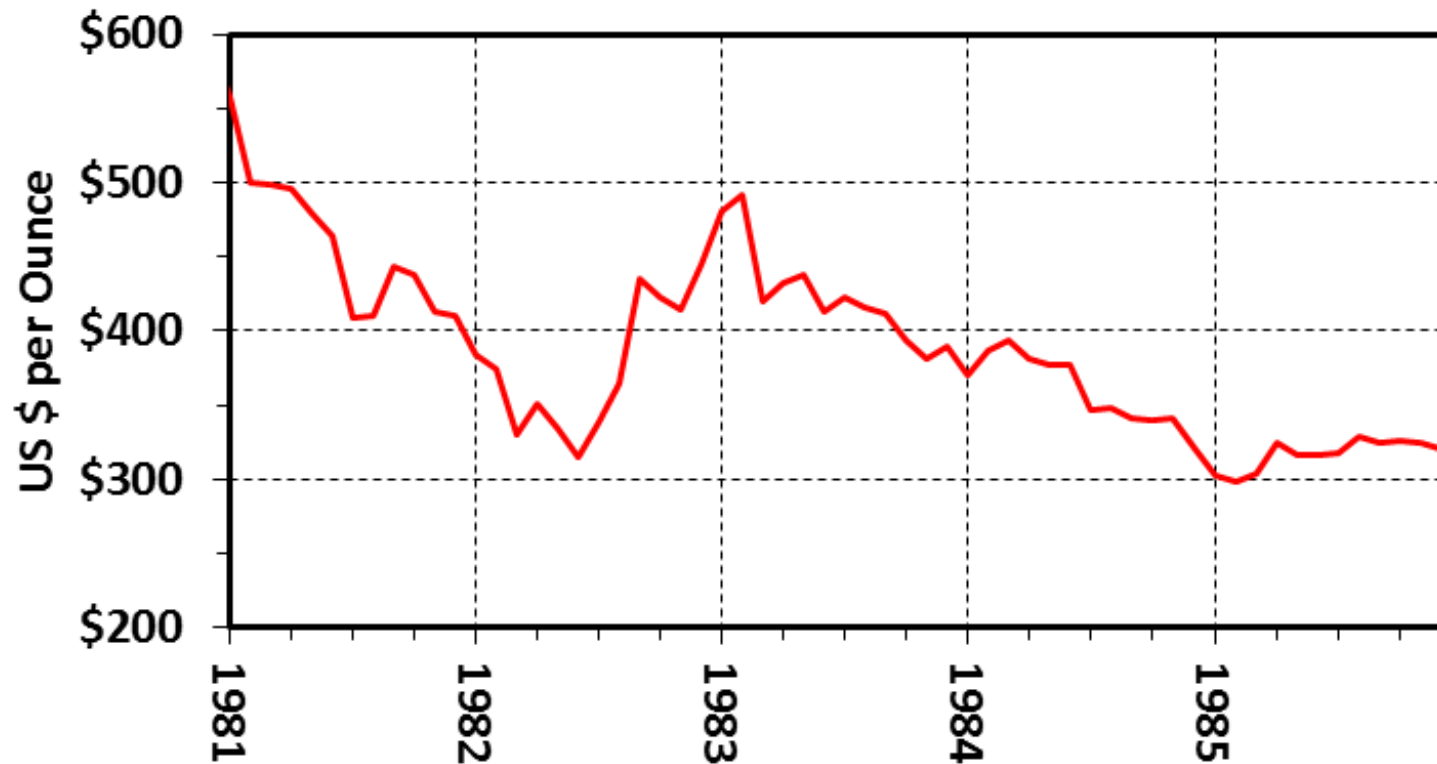


## Bust 1981 - 1985





## Gold Spot Price Monthly Avg: 1981-1985



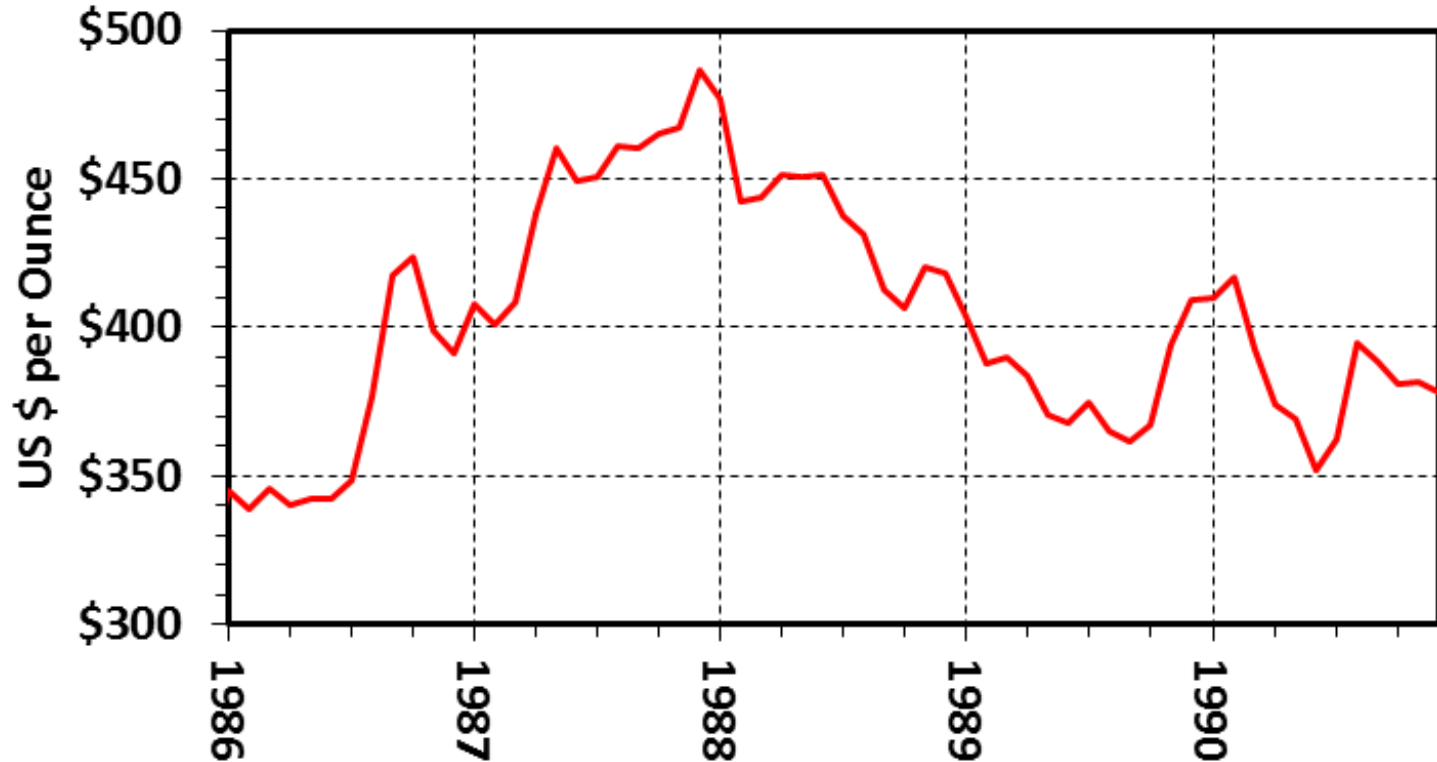


## Boom to Bust 1986 - 1990 Western US & Mexico





## Gold Spot Price Monthly Avg: 1986-1990





## 1990 - 1991 Latin America



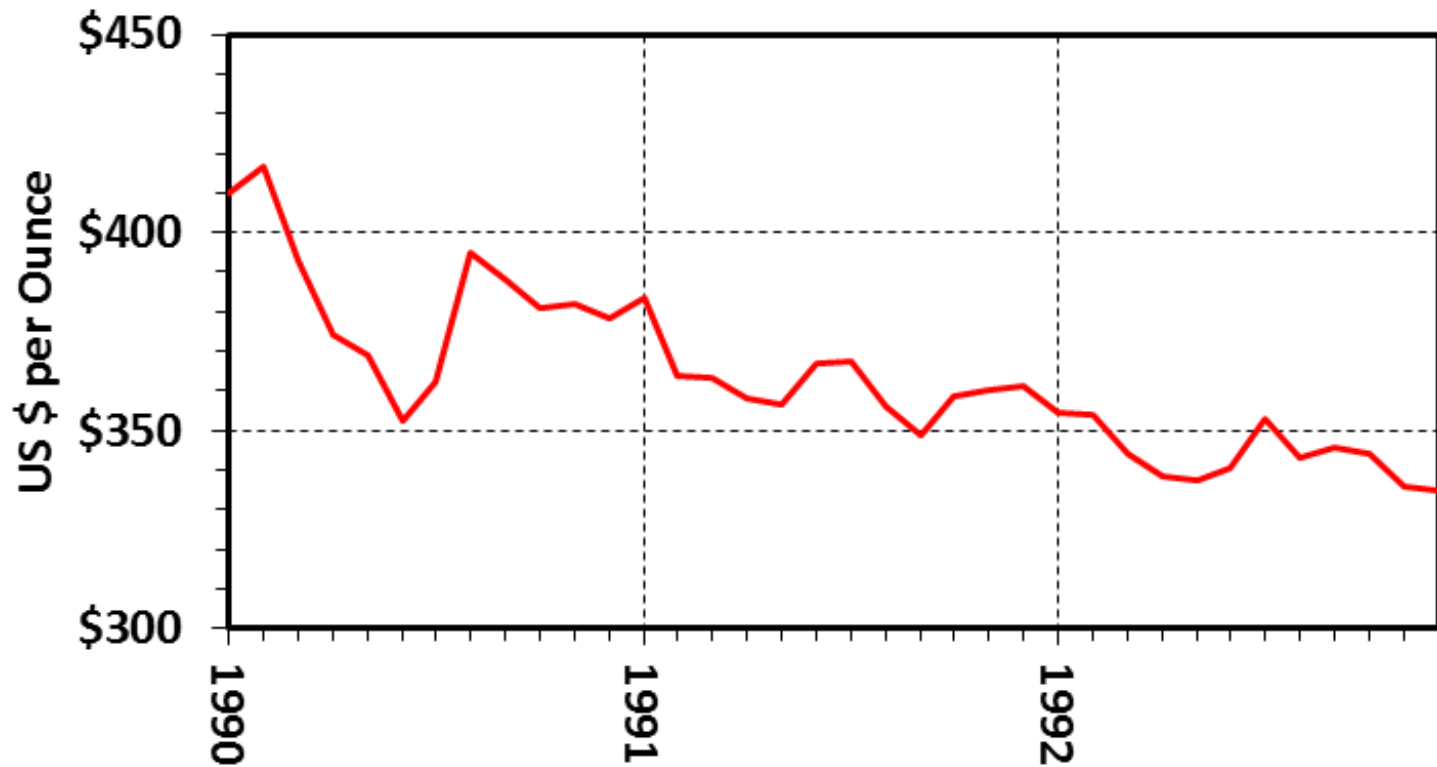


## New Area Plays & Windfall Mines

- Diamonds, NWT                      1991            Three Mines
- Voisey's Bay, Labrador            1993            One Mine
- Pierina, Peru                          1996            Two Mines



## Gold Spot Price Monthly Avg: 1990-1992





# Boom 1993 - 1997 New Mexico



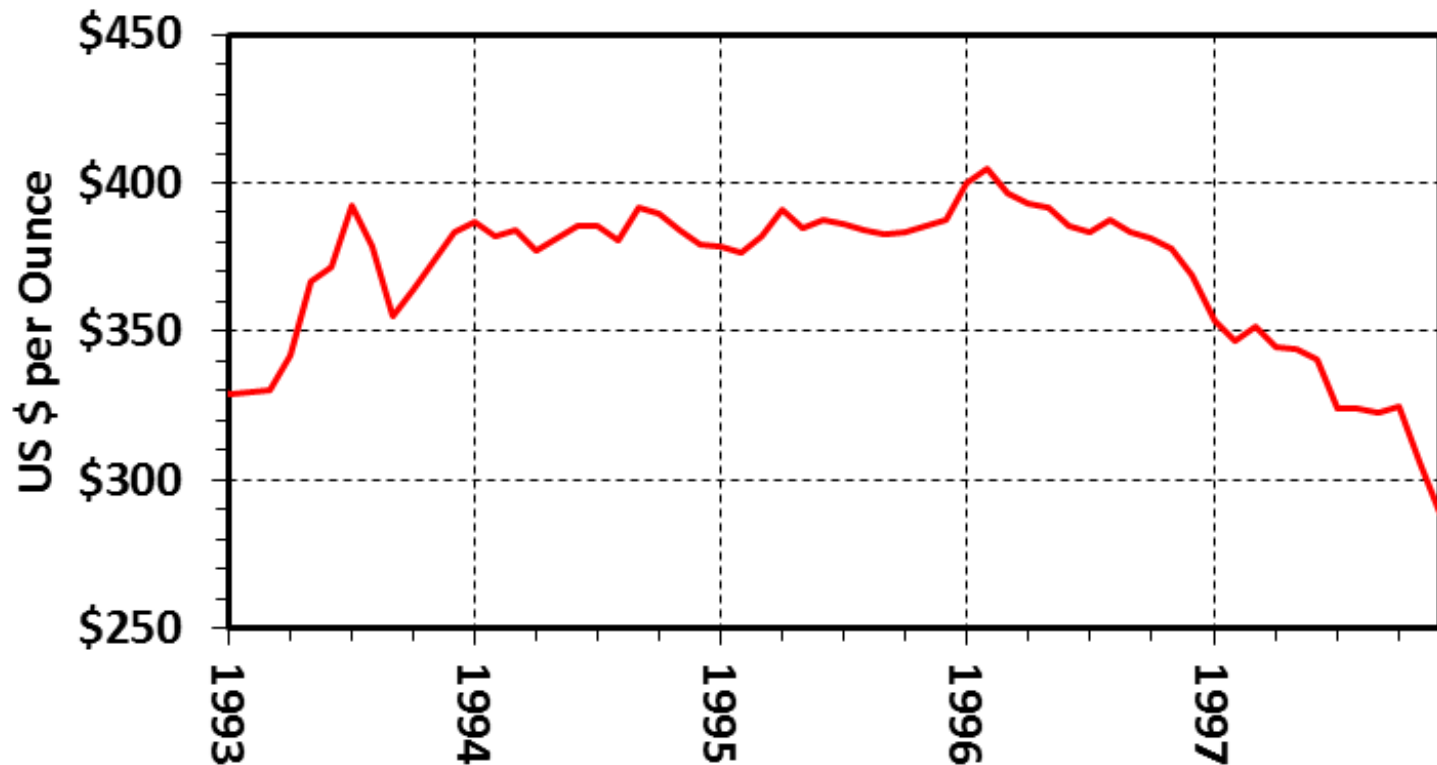


## Gold Scams 1996-1997 & Bust

- Delgratia Mining & Golden Rule Resources
- Bre-X, Kalimantan
- Thailand Bank Failure = Asian Contagion
- Low Commodity Prices 1997 - 2003
- Result: 43-101 Regulations 2000 - 2001



## Gold Spot Price Monthly Avg: 1993-1997





1997 -1998 La Libertad, Peru



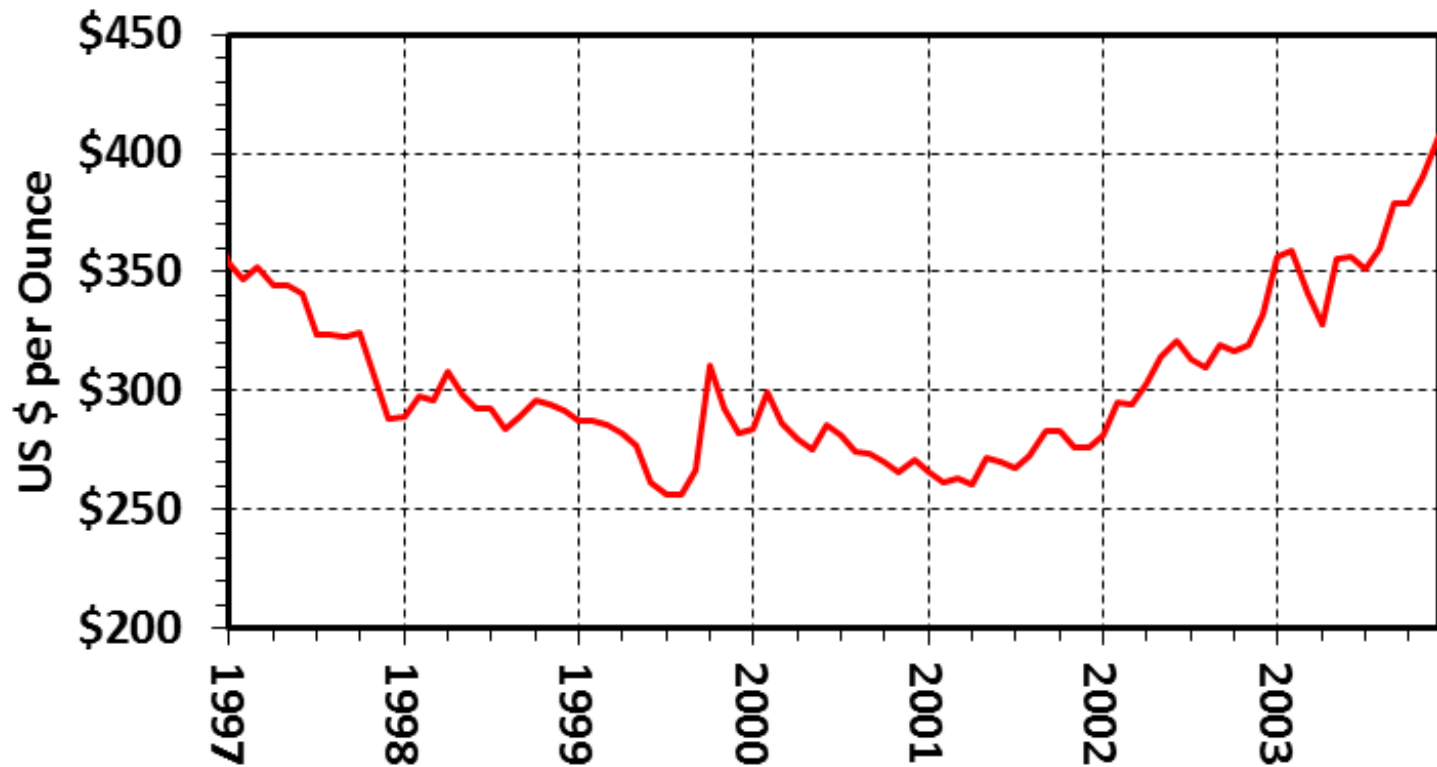


# Bust 1997 – 2003 Central New Mexico





## Gold Spot Price Monthly Avg: 1997-2003





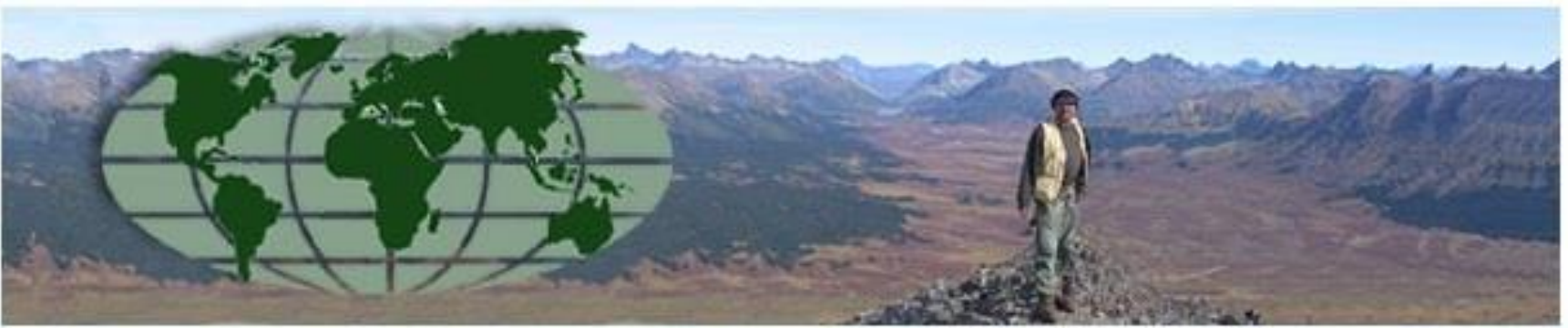
# Boom 2005 Independence, Nevada



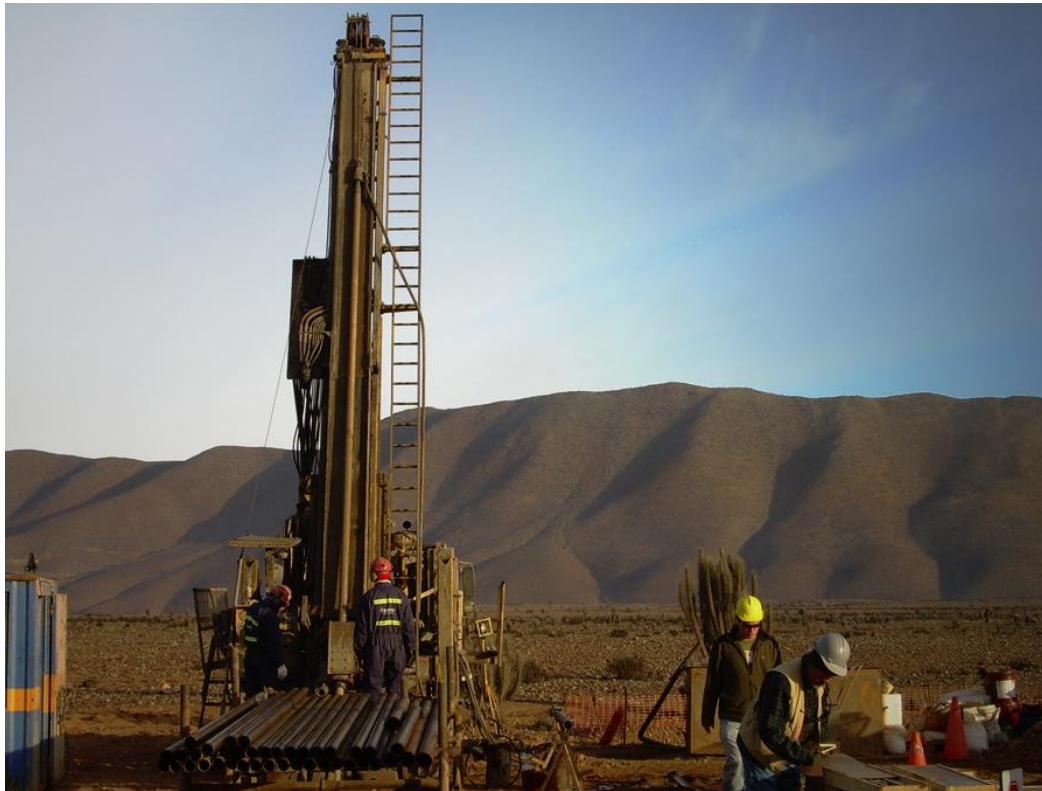


# Boom 2006 Toodoggone, B.C.





# Boom 2007 Region IV, Chile





# Boom 2007 Sierra Madre, Mexico





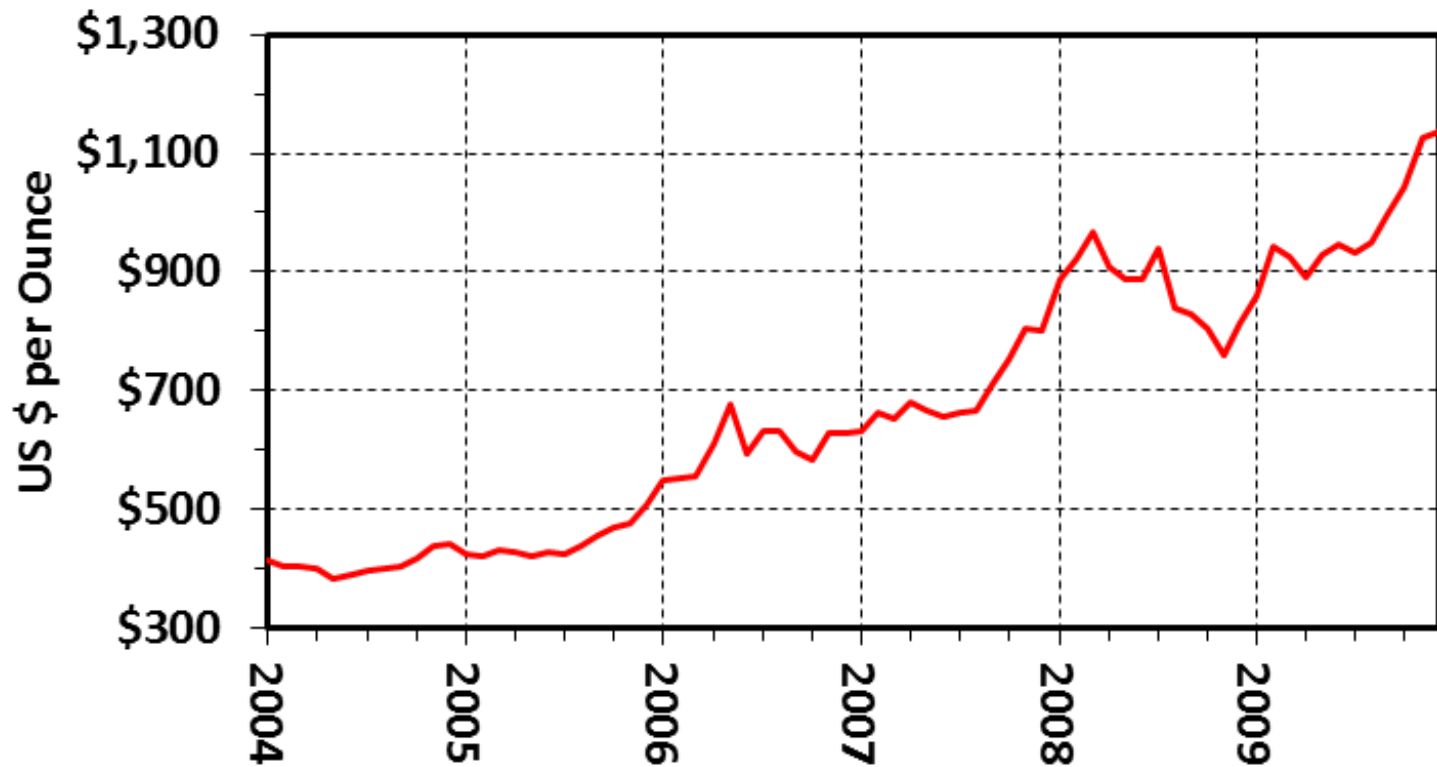
# Bust: Global Economic Crisis 2008

## MercenaryGeologist.com

- Exploration and Mining Analyst
- Business Develop and Finance
- Newsletter Writer
- Speaker & Media



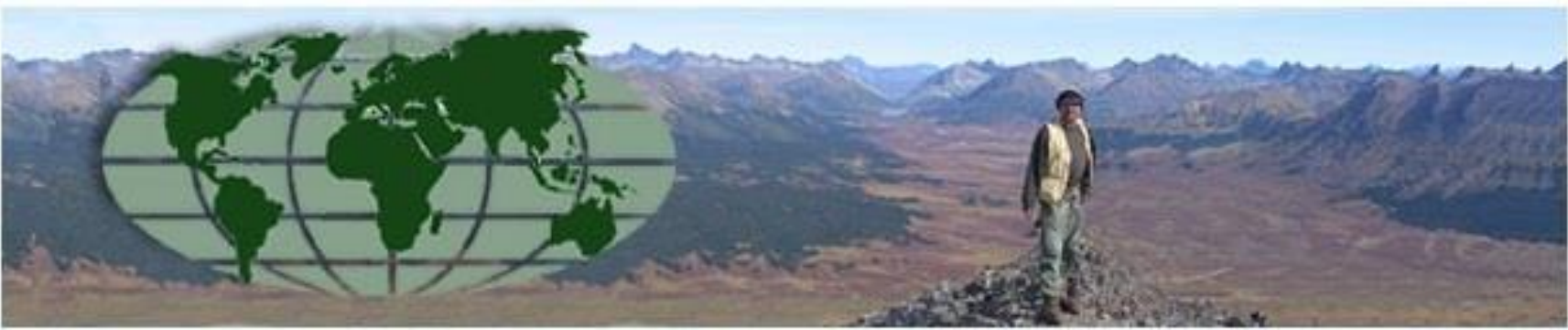
## Gold Spot Price Monthly Avg: 2004-2009





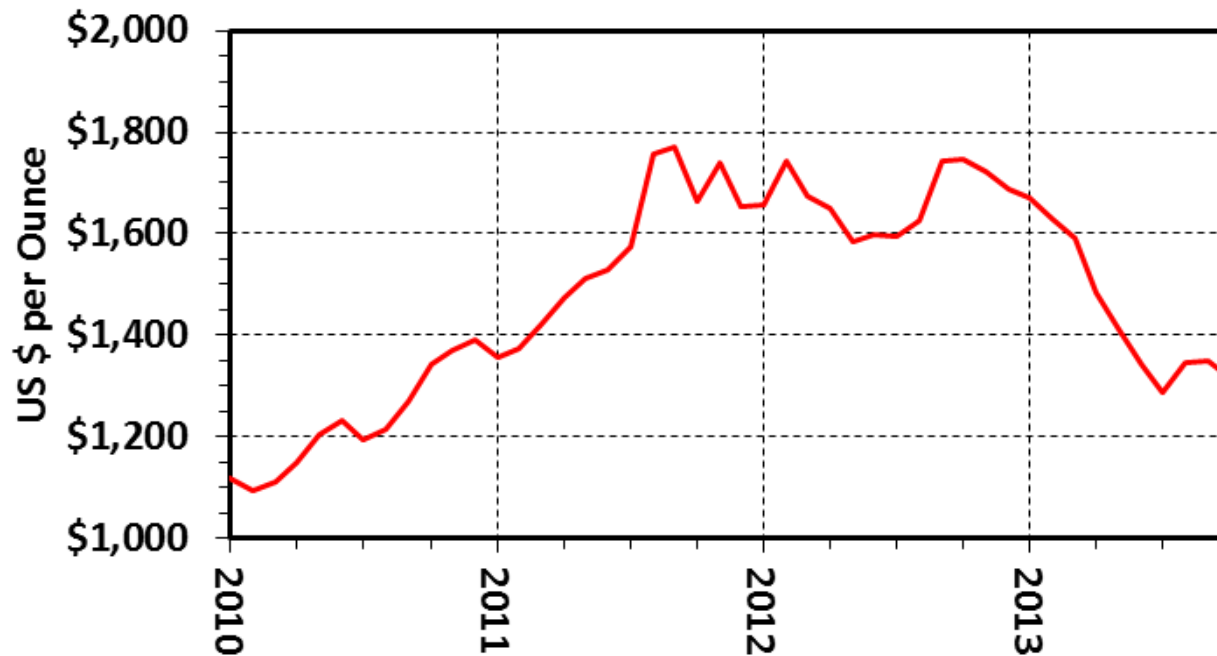
# REE Boom 2009 - 2011





# Boom to Bust 2010 - 2013

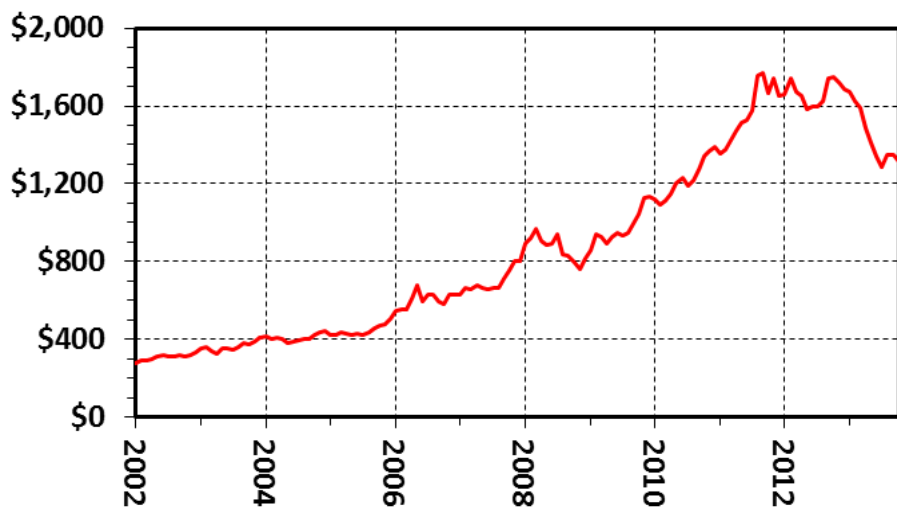
Gold Spot Price Monthly Avg: 2010-Present



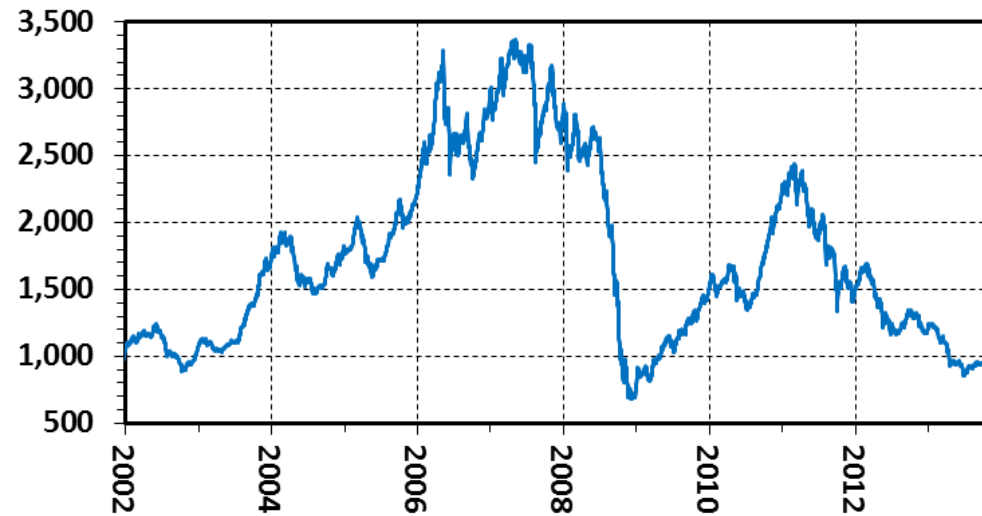


# Gold & TVX Index 2002 - 2013

Gold Spot Price Monthly Avg: 2002-Present

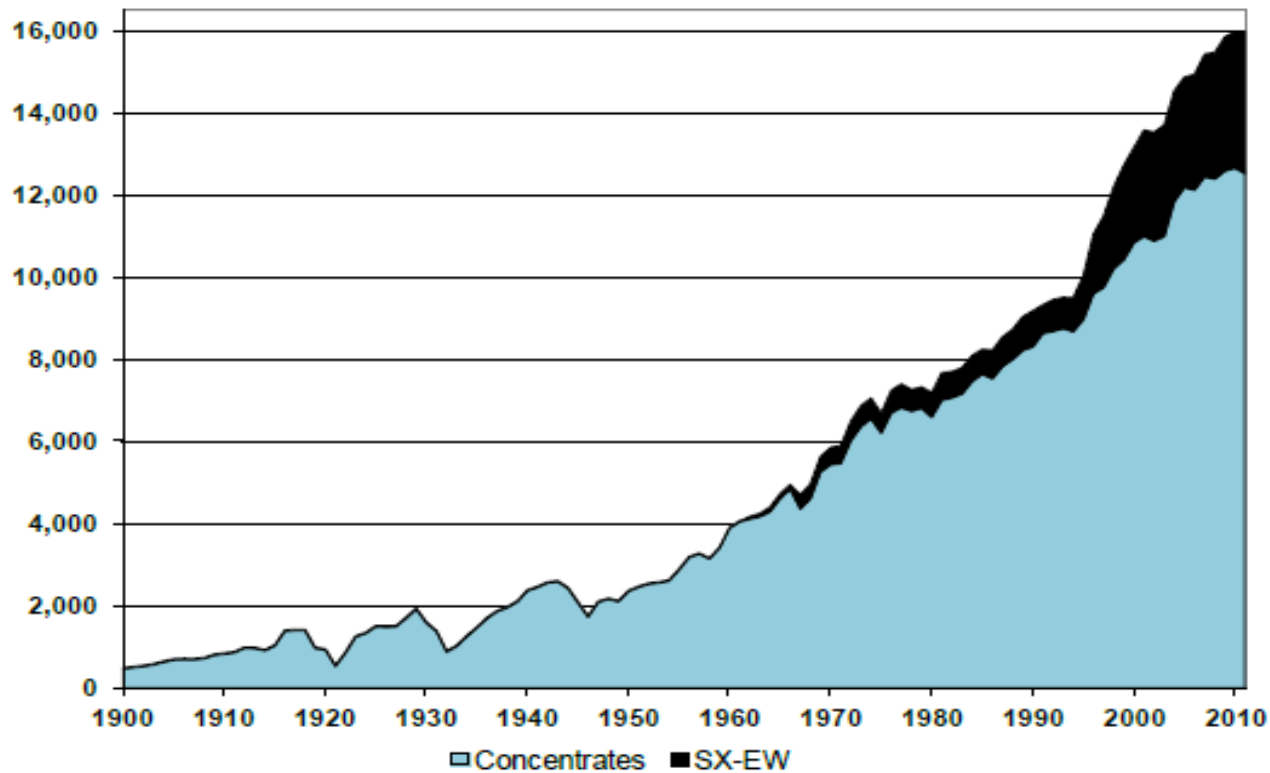


Toronto Venture Exchange: 2002-Present



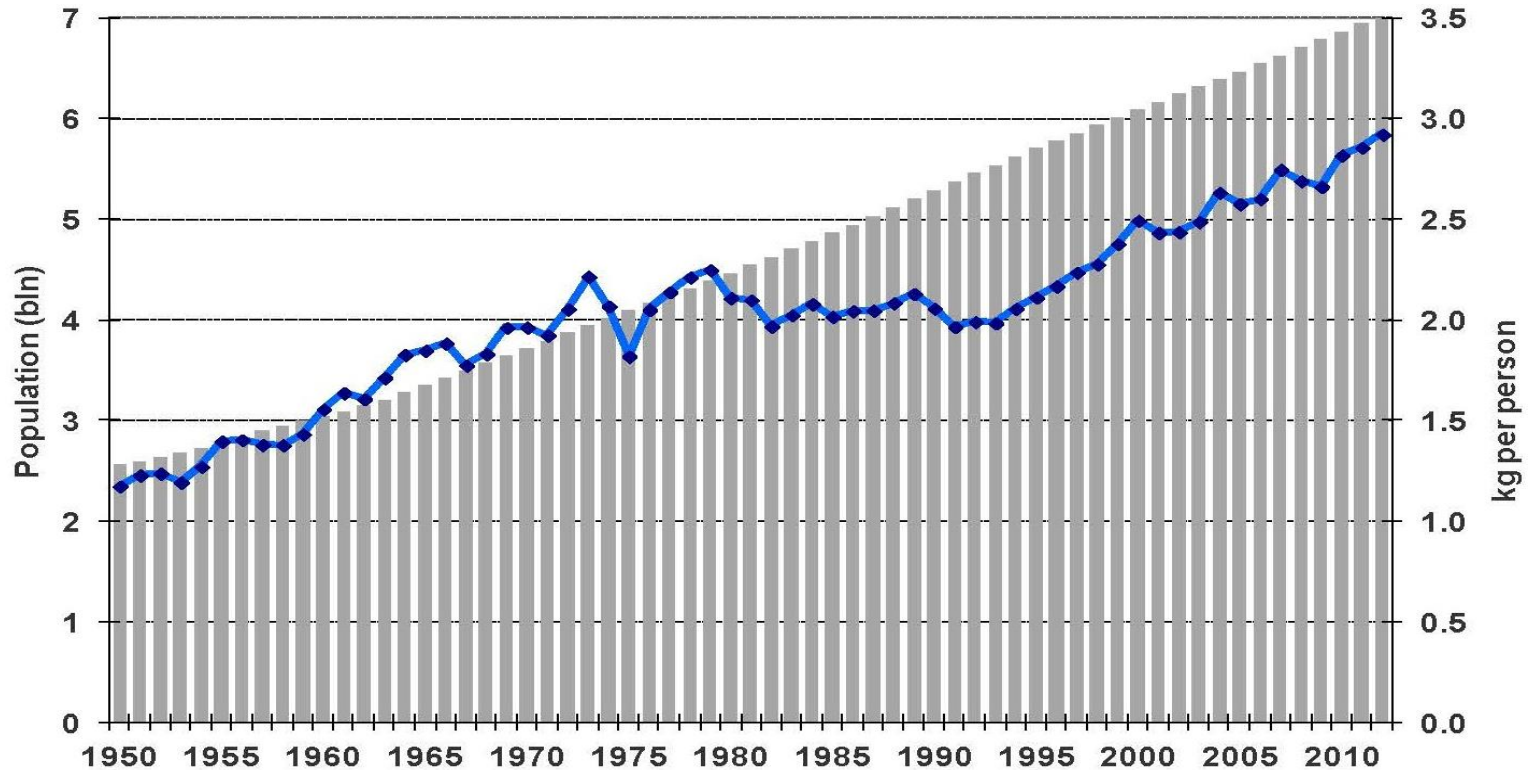


# Copper Mine Production 1900 - 2011 (ICGS)



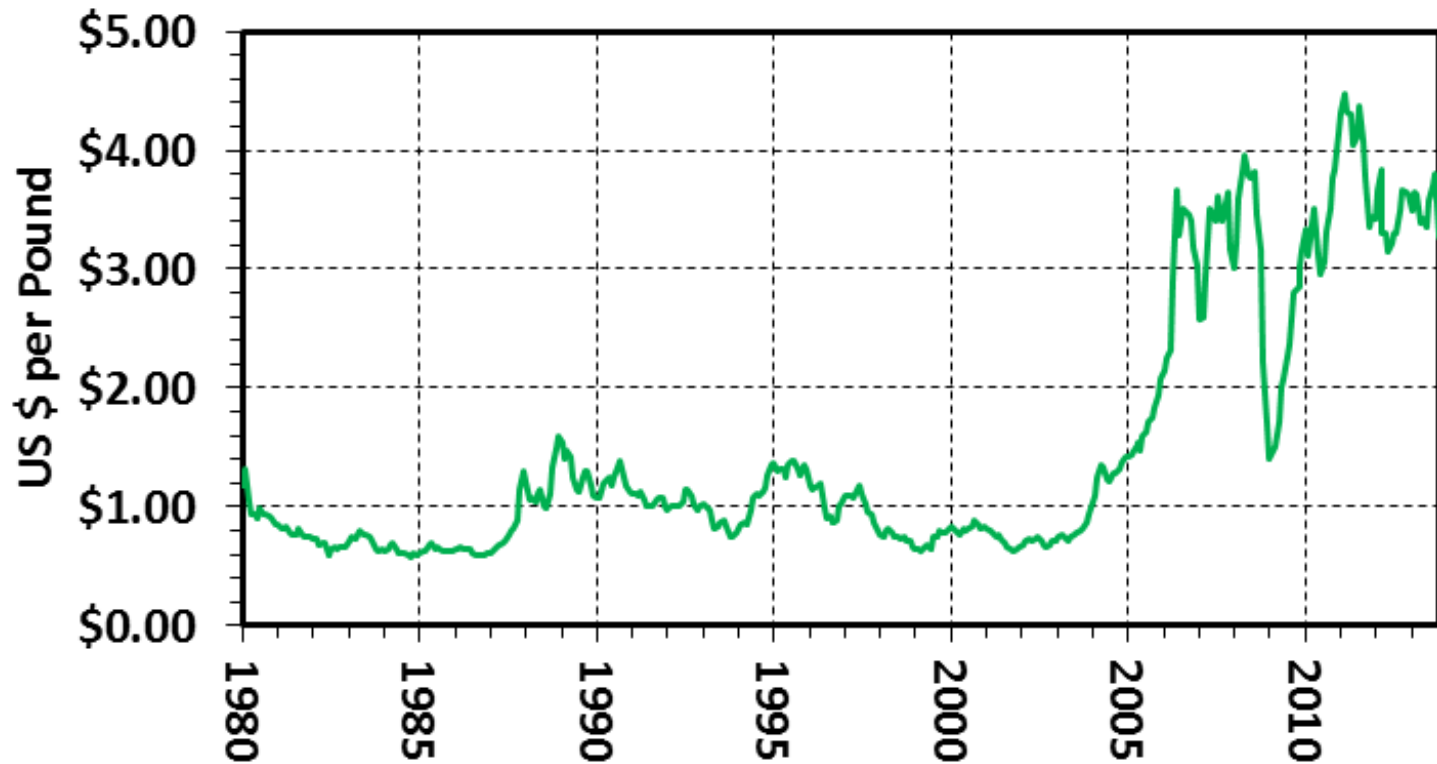


# World Population & Cu Consumption (ICSG)





## Copper Spot Price Monthly Avg: 1980-Present





# New Copper Required Per Year





## 2013- 2020 Brain Shortage

- Experienced Geologists & Engineers
- Generation of Professionals Missing
- Commodities Supply & Demand
- Prospectors & Mappers
- Boot Leather and Drilling
- Mentor Students & Young Professionals



# Exploration & Mining Geology

- See the World
- Explore, Develop, Mine
- Create Wealth
- Make the Earth a Better Place to Live



# Monday Morning Musings from Mickey the Mercenary Geologist





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