# What is Money? (9/2/2010)

Econ 310-004

# **Definitions**

- **government** a legitimized monopoly on coercion
- *law of association* (comparative advantage) even if someone is *absolutely* more productive at 2 activities, if he is *comparatively* more productive at 1 activity than another activity relative to a 2<sup>nd</sup> person, then he will be better off specializing and trading than producing in isolation
- reverse inequality of value both parties to the trade value what they're getting more than what they're giving up
- barter (direct exchange) trade for something that can be used directly in consumption or production
- double coincidence of wants each person must want the good his trading partner is offering
- **transaction costs** opportunity costs of finding a trading partner, negotiating a deal, and monitoring the terms
- *medium of exchange* (indirect exchange) something not wanted for commodity value, but rather for trade value
- money commonly accepted medium of exchange
- commodity money money with a close relationship between money value and commodity value
- fiat money money in which monetary value far exceeds trade value
- *unit of account* common numerator of all prices

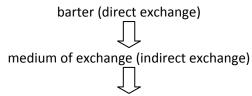
# More properly:

- o medium of account good used as a pricing or accounting unit
- o unit of account specific quantity of the good used as a pricing or accounting unit
- store of value separates act of buying from selling (saving with low transaction costs)
- standard of deferred payment money is a good way of paying back loans
- **MB** monetary base (total currency)
- **M1, M2, M3** money supply (various measures)
- *fiat money* money with zero maturity
- wealth stock value
- income flow value

#### **Principles**

- Adam Smith discussed the benefits of division of labor and specialization for increasing efficiency in The Wealth of Nations
- David Ricardo came up with the law of association (comparative advantage).
- Price is objective; value is subjective.
- Reverse inequality of value in trade is what makes voluntary trade mutually advantageous.
- Consumer and producer surpluses are graphical representations of the gains from trade.
- Transaction costs (especially search costs) can be very high under barter.
- Barter remains where laws or social norms retard indirect trade.
- Using a medium of exchange (indirect exchange) can make more beneficial trades possible.
- When a circulating medium of exchange becomes commonly accepted (widely adopted by most traders), it becomes money.
- Many forms of money have been adopted around the world.
- Only MB (monetary base) includes reserves.
- M3>M2>M1
- The Federal Reserve stopped tracking M3 in 2006.

## **Evolution**



commodity money (commonly accepted medium of exchange)

#### **Places barter survives**

- to evade or reduce taxes
- underground economy
- marriage, dating, sex
- new car (trade in old)
- health/dental benefits (less taxes)

### **Functions of money**

- medium of exchange
- medium of account
- store of value
- standard of deferred payment

# **Historical monies**

Colonial Virginia: Tobacco
West Indies: Sugar
Abyssinia (Ethiopia): Salt
Ancient Greece: Cattle
Midieval Iceland: Wool
Scotland: Nails

Ancient Egypt: Copper rings

Native Americans: Wampum (beads on a string)
 Island of Yap (South Pacific): Fei (large stone wheels)

West Africa, China: Cowrie shells

Aztecs: Cacao beans (chocolate)

China, Mongolia, Siberia: Tea

Mesopotamia: Barley (grain)

Ancient Japan: Rice
 Colonial Australia: Rum
 Prisons Cigarettes

# **Money supply**

- MB = currency in circulation + reserves in bank vaults + reserves with the Fed
- M1 = currency in circulation + travelers checks + demand deposits + other checkable deposits
- M2 = M1 + time deposits (<\$100k) + savings deposits + money market mutual fund shares (individual)</li>
- M3 = M2 + time deposits (>\$100k) + money market mutual fund shares (institutional)
  - + short term repurchase agreements +mother large liquid assets
- MZM = currency in circulation + travelers checks + demand deposits + other checkable deposits
  - + savings deposits + all money market mutual fund shares