Lecture Notes for Chapter 5 of MACROECONOMICS: An Introduction

Growth & Recession in the U.S. Economy

Copyright © 2002-2008 by Charles R. Nelson

02/07/08

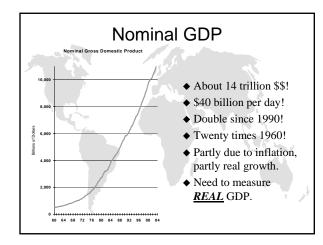
In this chapter we will discuss:

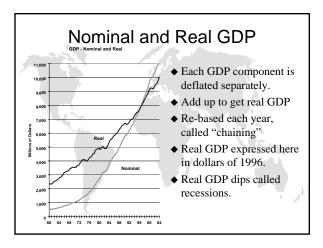
- ♦ GDP Nominal and Real
- ◆ Recession and expansion
- ◆ Anatomy of the "business cycle"
 - unemployment
 - inflation
 - interest rates
 - profits
 - stock market

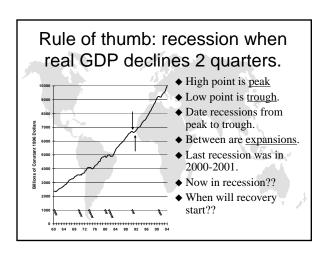
U.S. Dept of Commerce announces GDP quarterly.

- ◆ Broadest indicator of economic activity
- ◆ Value of everything produced in the U.S.
- ◆ Announced 4th week of next quarter.
- ◆ Expressed at an annual rate.
- ♦ Seasonally adjusted.
- ◆ It is a statistical estimate, subject to revision.

-			

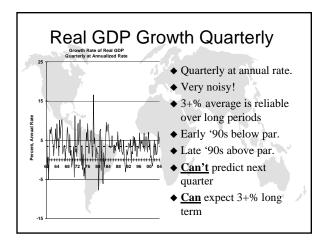


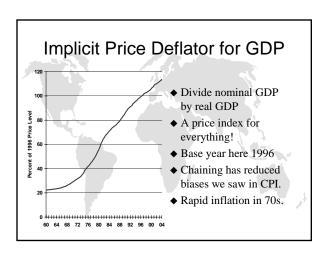




Real GDP doubles every 20 years despite recessions!

- ◆ Long term economic growth!
- ♦ Over many decades the growth rate of real GDP has <u>averaged</u> over 3+% per year.
- ◆ Real GDP doubles roughly every 20 years!
- ◆ Rule of 72: time to double is 72/growth%.
- ◆ But growth rate fluctuates widely around that average.





The Business "Cycle"

- ◆ Are recession, expansion, recession, like cycles in nature?
- ◆ Time between recessions highly variable, not a fixed frequency
- ♦ Prefer term "business fluctuations"
- ♦ Which are the key "cyclical" variables?

The Unemployment Rate

- ♦ Who is unemployed?
- ◆ If normally employed, looking for a job.
- ◆ Normally employed are the labor force, divided between employed and unemployed.
- ◆ Unemployment and recession go together, employers lay off workers they do not need.
- ◆ Unemployment rate is % of labor force.

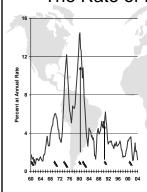
The Unemployment Rate Increases in recession, declines in expansions. Demographic factors: More young workers in the 1970s, higher unemployment More experienced workers in the 1990s, lower unemployment

-	

What rate is "full employment"?

- ♦ Always "frictional" unemployment.
- ◆ Some have health or social problems.
- ◆ Also "voluntary unemployment" quit to look for better work, to move
- ♦ "Natural" rate of unemployment about 5%.
- ◆ Above 5%, economy is too slow, below 5% is "inflationary"
- ◆ Who is not counted?

The Rate of Inflation - CPI

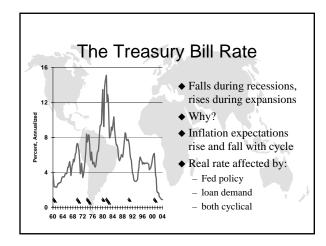


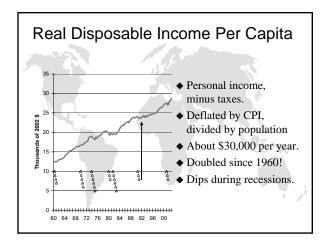
- Declines in recessions, accelerates in expansions.
- ◆ Law of supply & demand.
- ♦ But *lags* business cycle:
- ♦ high in 90-91 recession,
- ♦ fell sharply in 1992,
- ♦ remains very low now.
- ♦ New Era???????

Why doesn't inflation respond more quickly to recession?

- ♦ Many prices and wages fixed by contract
- ◆ Union contracts cover 3 year period.
- ◆ Frequent changes upset customers
- ♦ "Menu costs"
- ◆ Regulations less important today.

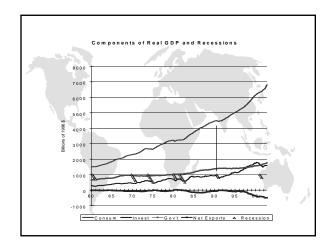
_		





Impact on Presidential Elections

- ◆ Carter defeated incumbent Ford in 1976
- ♦ Reagan unseated Carter in 1980
- ♦ Clinton unseated Bush in 1992
- ♦ All correspond to dips in real disposable income.
- ◆ Bill Clinton made his campaign motto: "It's the economy, stupid!"
- ♦ What effect will weak economy have in 2008?



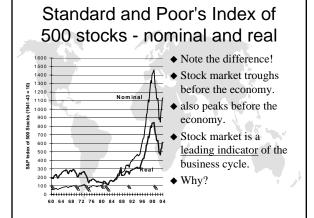
Note that:

- ♦ Components vary in responsiveness to recession
- ◆ Most sensitive is investment, new plant and equipment.
- ◆ Consumption spending declines only modestly
- ◆ Government purchases little affected
- ◆ Imports affected, reflect demand in the U.S.
- ♦ What about exports?

The Investment Accelerator

- ◆ If sales only levels off, firm needs no new plant and equipment.
- ◆ Investment goods dive during a recession
- ◆ Some replacement demand
- ◆ Capital goods makers called "cyclical".
- ◆ Examples: Boeing, Caterpillar, Paccar.
- ◆ Effect may be moderated by export demand.

Corporate Profits & Recessions Strongly pro-cyclical Many costs are fixed Early 80s, GDP fell 3%, profits 45%. Profits stagnated in 70s, took off in 90s, so did stock market! Not surprising. But 2008 looks weak.



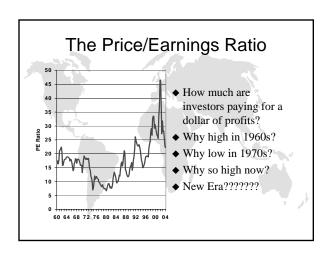
The Efficient Markets Hypothesis:

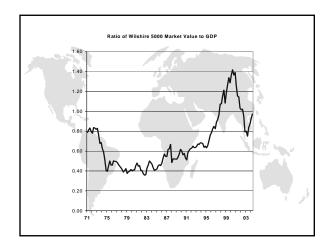
- ◆ Stock market reflects investors' best collective forecast of future profits
- ◆ Many sources of information come together
- ◆ In the midst of recession, stock market sees signs of recovery
- ◆ Lesson: you can't beat the market!

Understanding stock prices:

- \bullet S&P = P/E x E/GDP x GDP
- ♦ So rise in S&P is due to:
- ♦ growth in "P/E ratio", plus
- ◆ growth in corporate share of GDP, plus
- ♦ growth in real GDP.
- ♦ Which has made biggest contribution?
- ♦ Not GDP, it grows only 3 to 4%.

Shareholders' share of GDP: Objective to the state of th





The End!	pa d
----------	------