What Business Cycles Cost Us Part 1 What Business Cycles Cost Us Part 1 Lectures in Macroeconomics- Charles W. Upton

The Basic Problem

- Business Cycles Occur
 - People get upset about them.



What Business Cycles Cost Us -Part 1

The Basic Problem

- Business Cycles Occur
- A lot of time is spend discussing Business Cycles
 - Economists spend a lot of time discussing how to deal with them.
 - Politicians take a lot of time taking credit for good times and passing blame for bad times.



What Business Cycles Cost Us -Part 1

The Basic Problem

- Business Cycles Occur
- A lot of time is spend discussing Business But how bad are

business cycles?

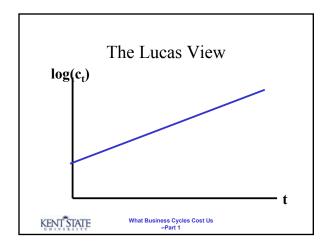
ussing how

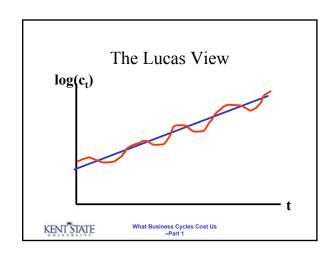
to deal with them.

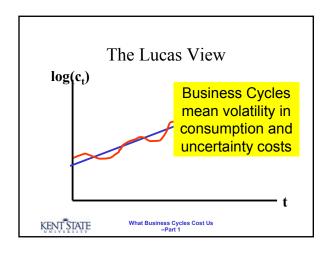
 Politicians take a lot of time taking credit for good times and passing blame for bad times.

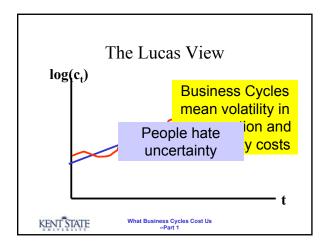
KENT STATE

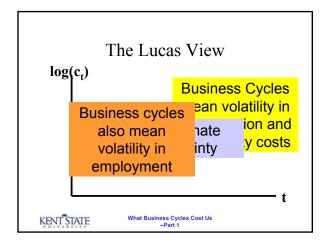
What Business Cycles Cost Us -Part 1

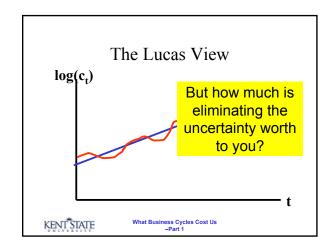


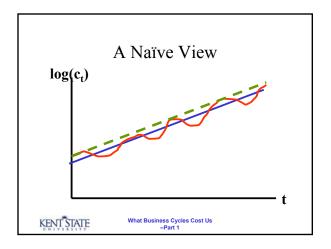


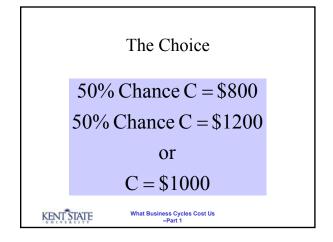












The Choice

$$50\% \text{ Chance C} = \$800$$

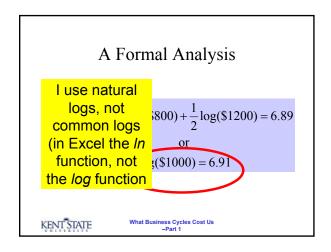
$$50\% \text{ Chance C} = \$1200$$

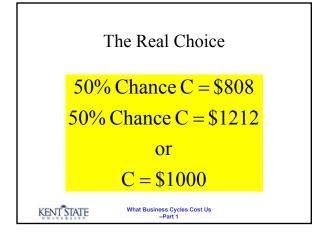
$$0r$$

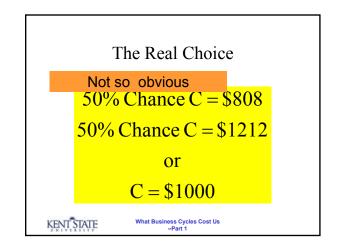
$$C = \$1000$$
What Business Cycles Cost Us -Part 1

A Formal Analysis
$$E(U) = \frac{1}{2}\log(\$800) + \frac{1}{2}\log(\$1200) = 6.89$$
or
$$\log(\$1000) = 6.91$$
What Business Cycles Cost Us
--part 1

A Formal Analysis
$$E(U) = \frac{1}{2}\log(\$800) + \frac{1}{2}\log(\$1200) = 6.89$$
or
$$\log(\$1000) = 6.91$$
What Business Cycles Cost Us
-Part 1







The Real Choice

50% Chance
$$C = \$800(1 + \lambda)$$

50% Chance $C = \$1200(1 + \lambda)$
or
 $C = \$1000$

KENT STATE

What Business Cycles Cost Us -Part 1

The Real Choice

Suppose λ =0.02. Then it would be worth giving up a 2% increase in uncertain consumption to eliminate the uncertainty. C = \$1000

KENT STATE

What Business Cycles Cost Us -Part 1

The Numbers

$$E(U) = \frac{1}{2} \log(\$800[1+\lambda]) + \frac{1}{2} \log(\$1200[1+\lambda]) = \log(\$1000)$$

KENT STATE

What Business Cycles Cost Us -Part 1

The Numbers

$$\frac{\lambda = 0.0205}{2^{\log(\log(\log(1 + \lambda))} + \frac{1}{2} \log(\$1200[1 + \lambda])} = \frac{\log(\$1000)}{\log(\$1000)}$$

KENT STATE

What Business Cycles Cost Us -Part 1

The Numbers

$\lambda = 0.0205$ $E(U) = \frac{1}{2} \log(\sqrt{5} \times UU[1 + \lambda]) + \frac{1}{2}$ Eliminating uncertainty

Eliminating uncertainty would have the same benefit as a 2.05% increase in consumption

KENT STATE

What Business Cycles Cost Us -Part 1 The Answer

 $\lambda \cong 0.015$

KENT STATE

What Business Cycles Cost Us -Part 1

