

Inflation and Prices

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Outline

1 Economics of Inflation

2 Calculating Prices

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Demand Pull Inflation

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- ➋ Increase in the money supply via economic stimulus.
- ➌ Decrease in production of some set of goods.
- ➍ Growing economic activity, especially in consumption and exports.

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- 1 This can be caused by inflation itself. Rising costs of goods yields rising costs of employees and production.
- 2 Increase in the price in some essential good (such as oil).

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- Generally, 2% – 4% is the target. Above that prices grow uncontrollably, and below that the economy would be stagnant.
- The history of a country is reflected in its inflation rate!

Rate of Inflation

The rate of inflation can be computed by measuring the percent change in the CPI between two years. This is given by the following proportion:

$$(\text{CPI B} - \text{CPI A}) : \text{CPI A} :: \text{Inflation} : 100$$

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Class Exercise

Identify years major events in US history occurred.

- Are these reflected in the rate of inflation as computed from the CPI chart?
- Which periods seemed to show the most economic growth?
- Were there any periods where the economy shrank?
- How does this line up with the historical context in which they occur?

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Calculating Predicted Prices

Recall that the price of an item in two years is assumed to be in proportion to the CPIs of those years.

$$\text{Price A} : \text{Price B} :: \text{CPI A} : \text{CPI B}$$

Predicted Price Formula

If we assume a standard of saying that year A is the year for which we know the price, and that the price in year B is consistently our unknown, we can derive a formula for computing a price in year B given the year A price and the CPIs of both years.

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Class Exercise

For each of the following goods, find prices in 1975, 1985, 1995, and 2018. Compute the rate of inflation in each time period. Compute the percent change in each good. Did these goods keep pace with inflation. Why do you think that is?

- Scientific Calculator
- 1 Gallon of Gasoline
- Ford Mustang
- 1 pound of Ground Chuck