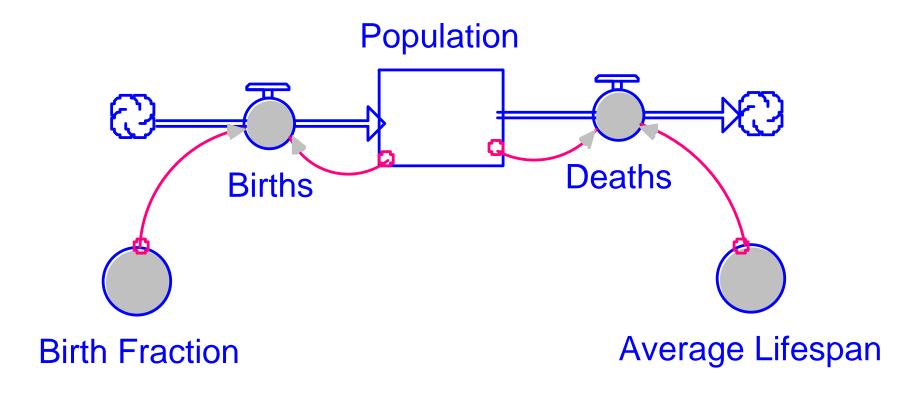
### Calculating Deaths

1/Lifespan versus Death Rate

#### How Long Do We Live?

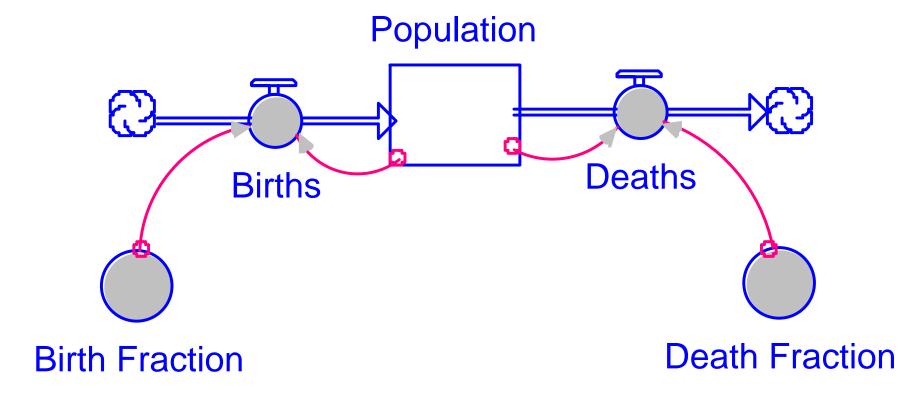
- National Center for Health Statistics http://www.cdc.gov/nchs/releases/02facts/final2000.htm
- Average US Lifespan: 76.9 years
- Age-Adjusted Death Rate: 872/100,000

#### Population Model #1a



Deaths = 1/Average Lifespan \* Population

#### Population Model #1b



Deaths = Death Fraction \* Population

## What Should We Use As the Death Fraction?

- Dwell time model
  - Use 1/Lifespan: <math>1/76.9 = .013003901
  - Assumes population evenly divided into age groups.
- Age-adjusted model
  - Death Rate = .00872
  - Takes into account age-specific death rates and "averages" over age groups.

# What Will Be the Difference in the Long Run?

