Diet and Influences on Food Choice







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1) 435,000



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3) 85,000



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- Diet and health
- Trends in American diets
- Influences on food choice
- Improving American diets

Essential questions

- Why do we eat what we eat?
- Why does it matter?
- What has led to the rise in diet-related disease in the United States?
- How can American diets be improved?

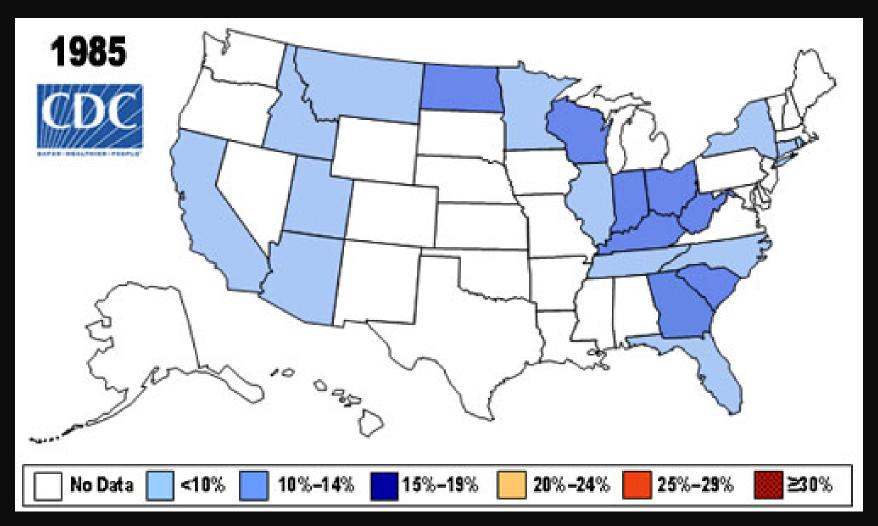


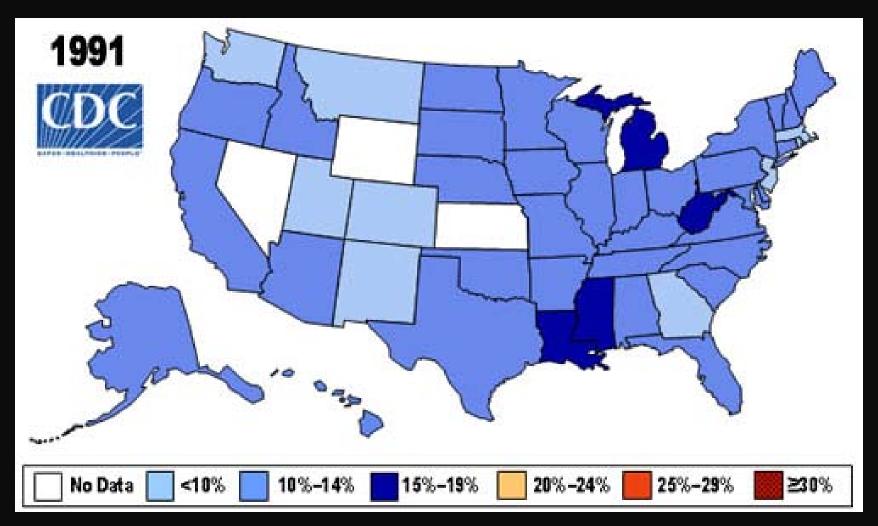
Diet and health
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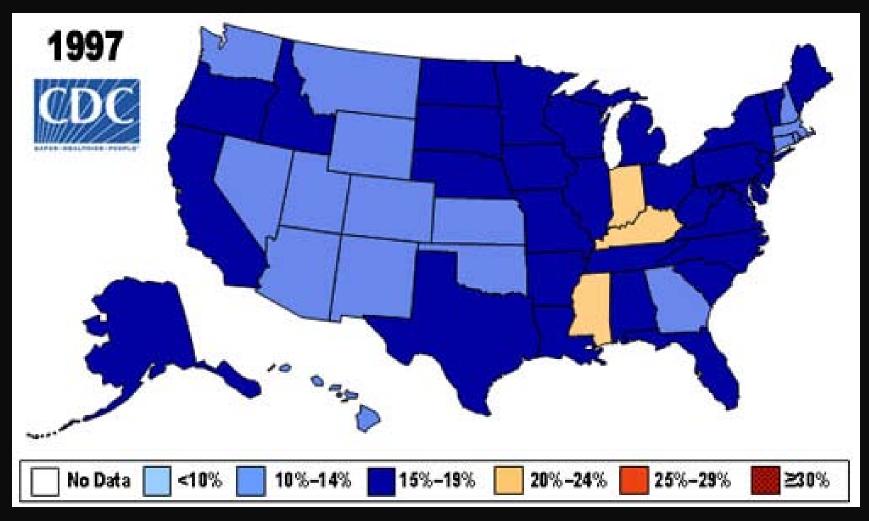
Diet related diseases

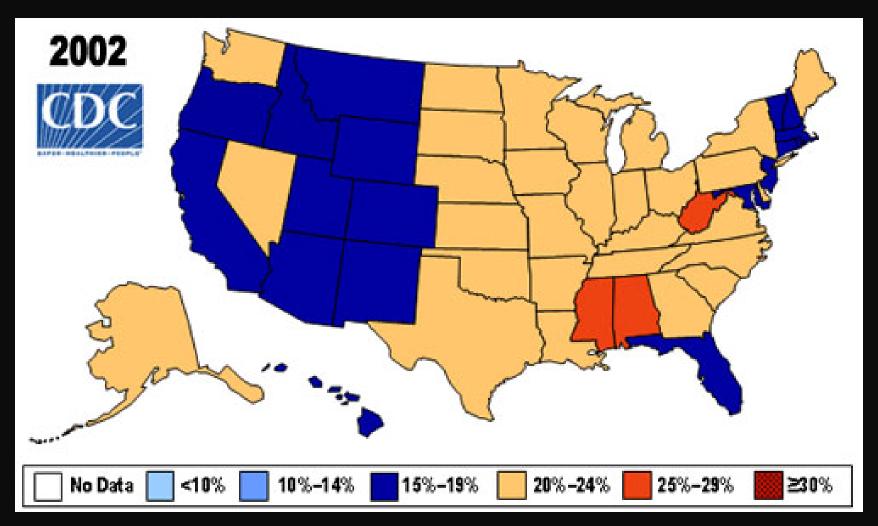
Diet related diseases

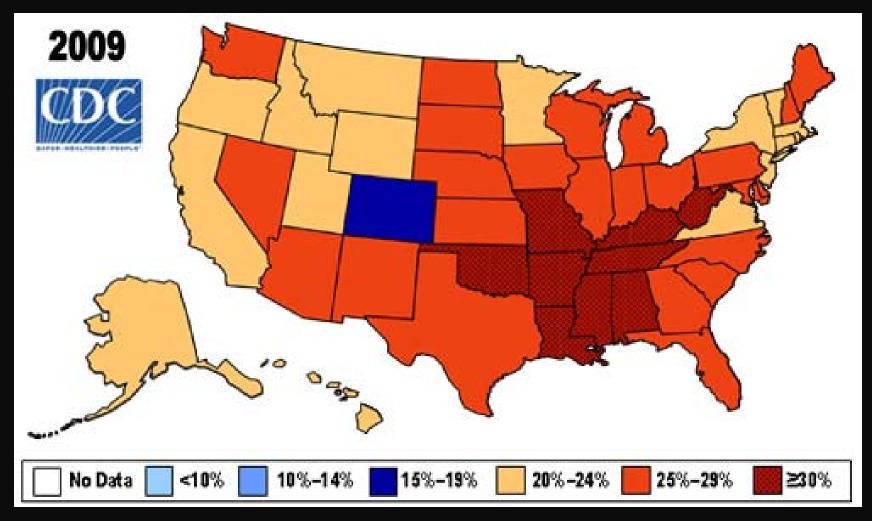
- Heart disease
- Type 2 diabetes
- Certain cancers
- Stroke
- Hypertension











Risk factors

Risk factors

- Refined grains
- Added fats
- Added sugars
- Excess salt
- Processed meats

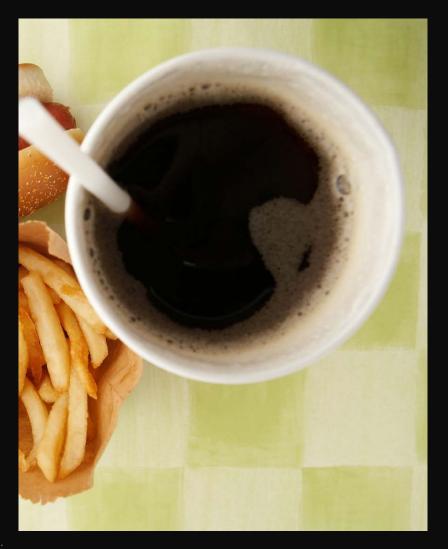






Added sugars, added fats





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Balancing energy intake



Balancing energy intake

- Sedentary person: ~2,000 kcal
- 1 lb. body fat: 3,500 kcal



Balancing energy intake

Active person: >2,000 kcal



Left: Brittany Randolph. 2007. Available on Flickr

Eating for health

Eating for health

- Vegetables
- Fruits
- Whole grains





Diet and health

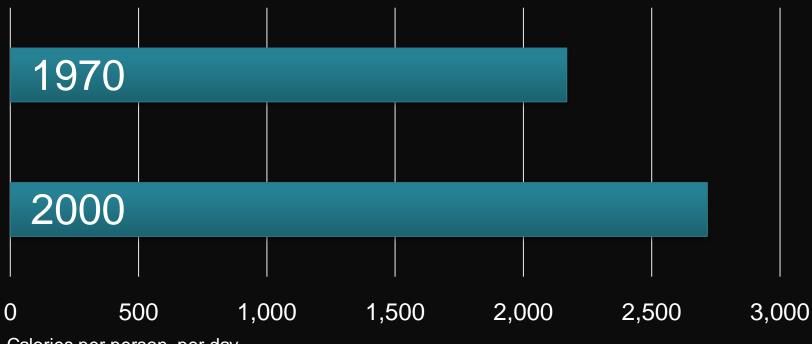
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Calorie intake

• 1970 to 2000

Calorie intake

- 1970 to 2000
- 25% increase



Calories per person, per day

Source: USDA Economic Research Service. U.S. per capita loss-adjusted food availability.

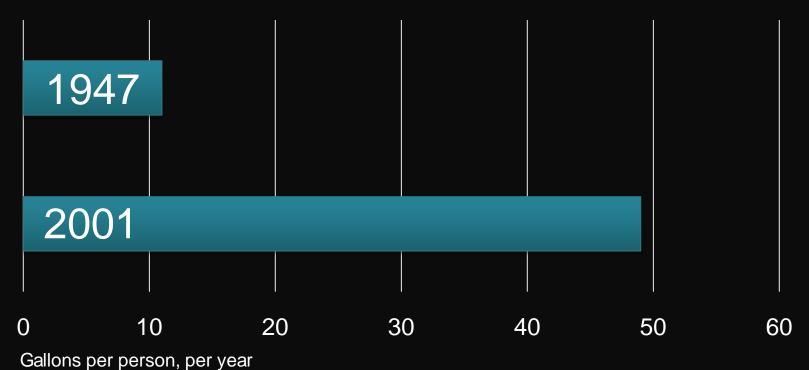
Soft drink consumption

• 1947 to 2001



Soft drink consumption

- 1947 to 2001
- 345% increase



Milk consumption

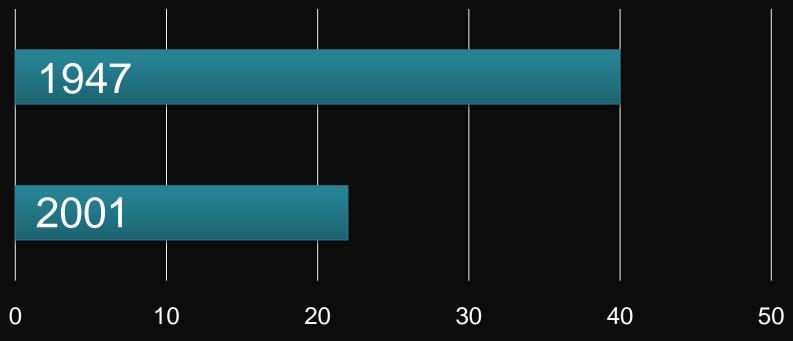
• 1947 to 2001



ChildofMidnight. 2009. *Milk Jugs in a Row.* Available on Wikimedia Commons.

Milk consumption

- 1947 to 2001
- 45% decrease

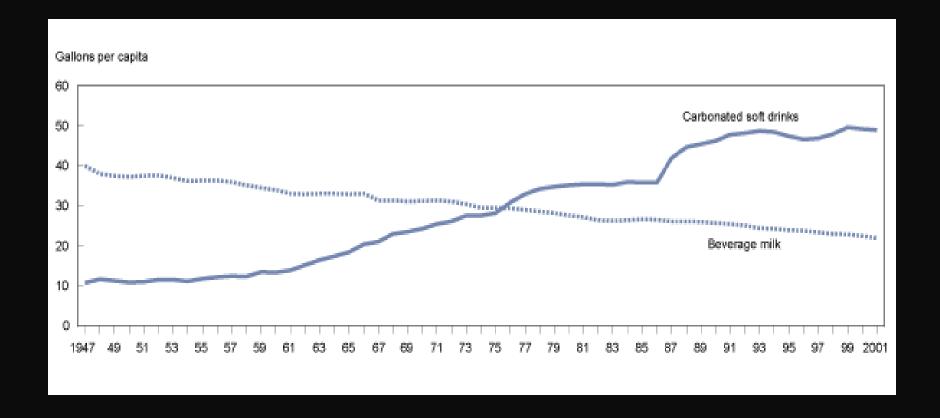


Gallons per person, per year

Source: USDA Economic Research Service. U.S. per capita loss-adjusted food availability.

Soft drinks vs. milk

• 1947 to 2001

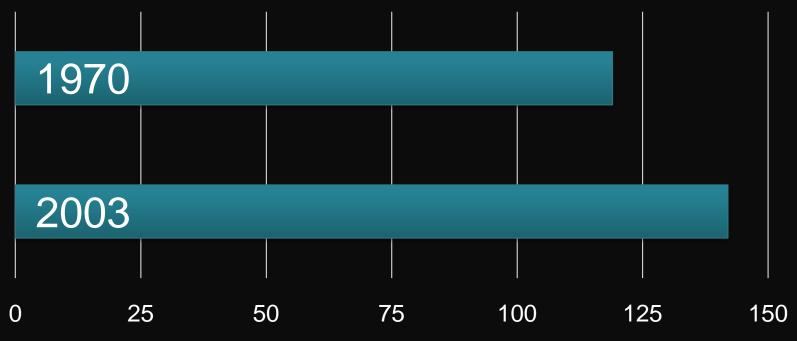


Sugar consumption

• 1970 to 2003

Sugar consumption

- 1970 to 2003
- 19% increase



Pounds per person, per year

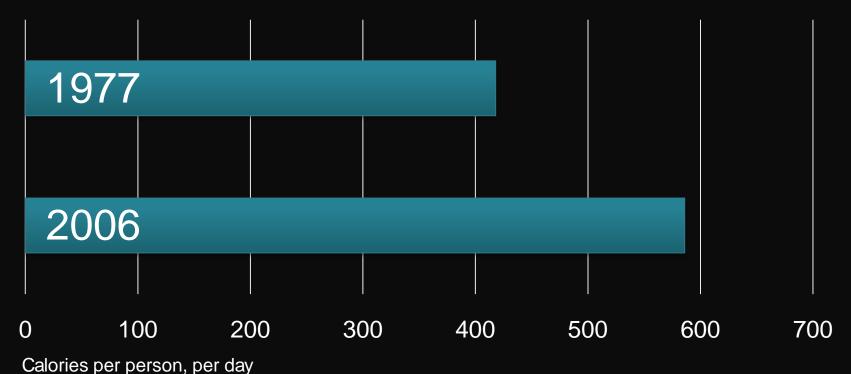
Source: Centers for Disease Control and Prevention. Trends in intake of energy and macronutrients - United States, 1971-2000.

Calories from snacks

Youth, 1977 to 2006

Calories from snacks

- Youth, 1977 to 2006
- 40% increase



Calones per person, per day

Source: Farah Wells H, Buzby JC. Dietary Assessment of Major Trends in U.S. Food Consumption, 1970-2005

Food prepared away from home

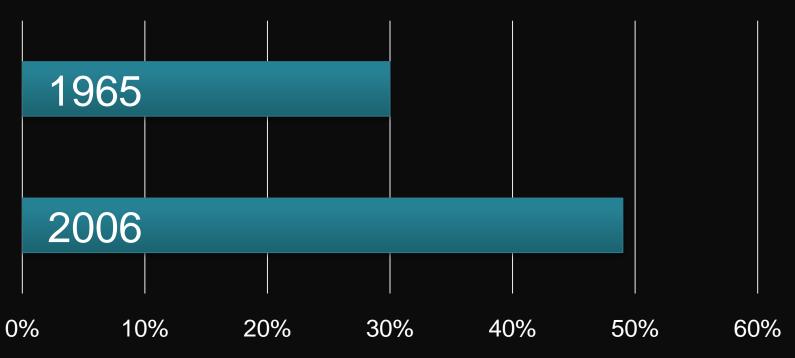
• 1965 to 2006



Ebru. 2007. Fast food. Available at Wikimedia Commons.

Food prepared away from home

- 1965 to 2006
- 63% increase



Percent of food budget

Source: Ogden CL, Carroll MD, Curtin LR, Lamb MM, Flegal KM. Prevalence of high body mass index in US children and adolescents, 2007-2008.

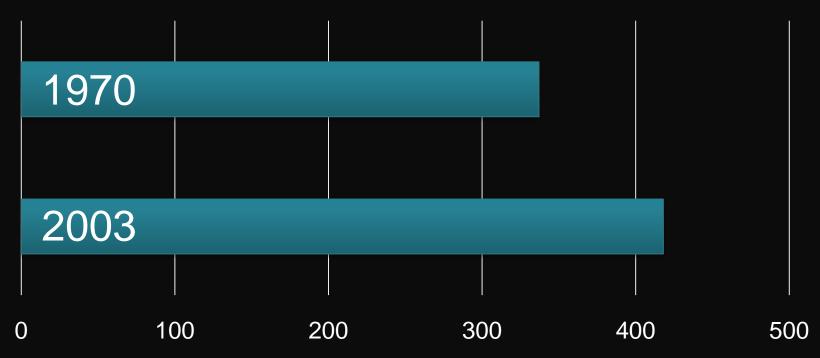
Vegetable consumption

• 1970 to 2003



Vegetable consumption

- 1970 to 2003
- 24% increase



Pounds per person, per day

Source: Centers for Disease Control and Prevention. Trends in intake of energy and macronutrients - United States, 1971-2000.

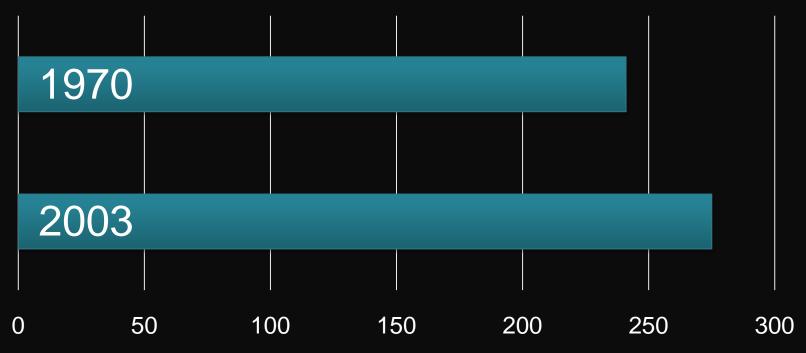
Fruit consumption

• 1970 to 2003



Fruit consumption

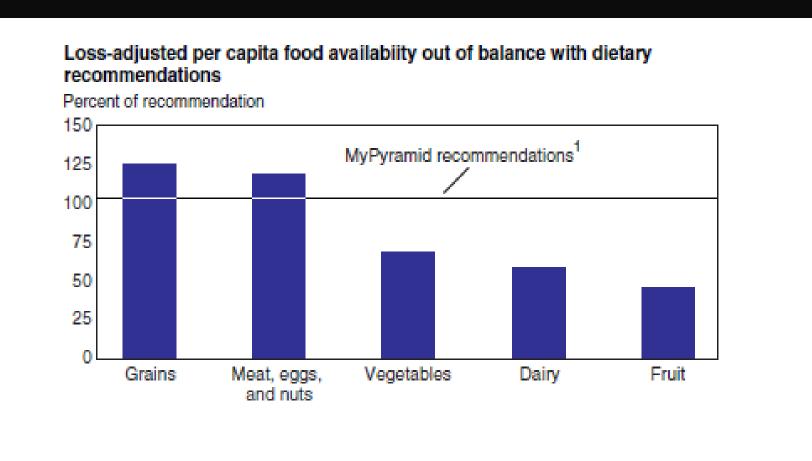
- 1970 to 2003
- 12% increase



Pounds per person, per day

Source: Centers for Disease Control and Prevention. Trends in intake of energy and macronutrients - United States, 1971-2000.

Fruit and vegetable consumption



Source: USDA, ERS Food Availability (Per Capita) Data System.

Summary

- Too much:
 - Refined grains
 - Added fats
 - Added sugars
 - Sodium
- Not enough:
 - Vegetables
 - Fruits
 - Fiber







Diet and health

Trends in American diets

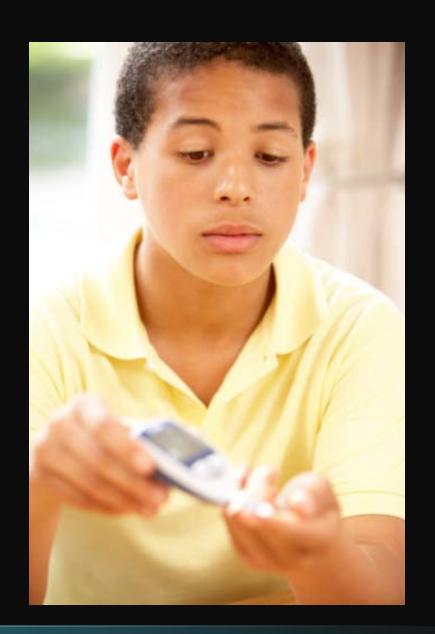
Influences on food choice
 Improving American diets

Individual influences

- Hunger
- Taste
- Income
- Knowledge
- Emotions
- Health conditions
- Values

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Social influences

- Friends
- Family
- Coworkers
- Peers



Cost

Are healthy diets affordable?



Image copyright.

Food environments







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Food marketing and labeling

- Billboards
- Internet
- Television
- Packaging



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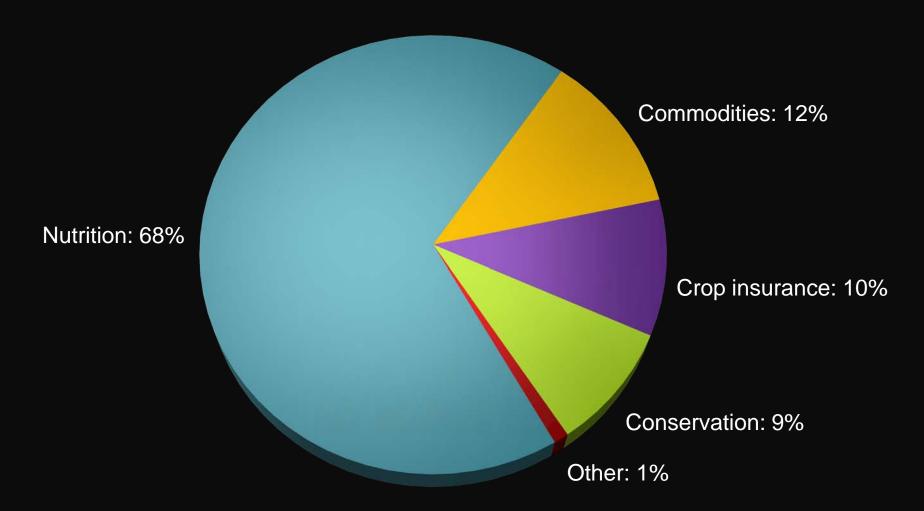
Food and agricultural policy





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Farm Bill



Source: USDA ERS.

Farm subsidies

Corn



Soybeans



Cotton



Wheat



Soybeans, cotton: USDA ARS. Wheat, corn: Images copyright. Data source: Environmental Working Group.

Farm subsidies











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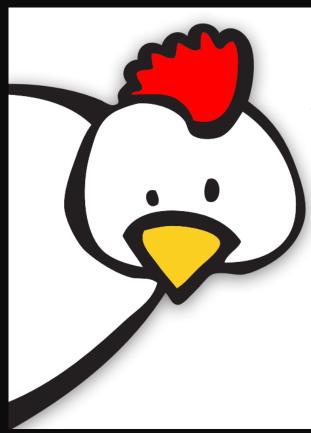
Reducing childhood obesity

- Discount nutrient-rich foods
- Change social norms
- Reduce marketing to children
- Simplify nutrition advice
- Change food environments



Meatless Monday

"One day a week, cut out meat."



March to a different drumstick.

Go meatless Monday.



