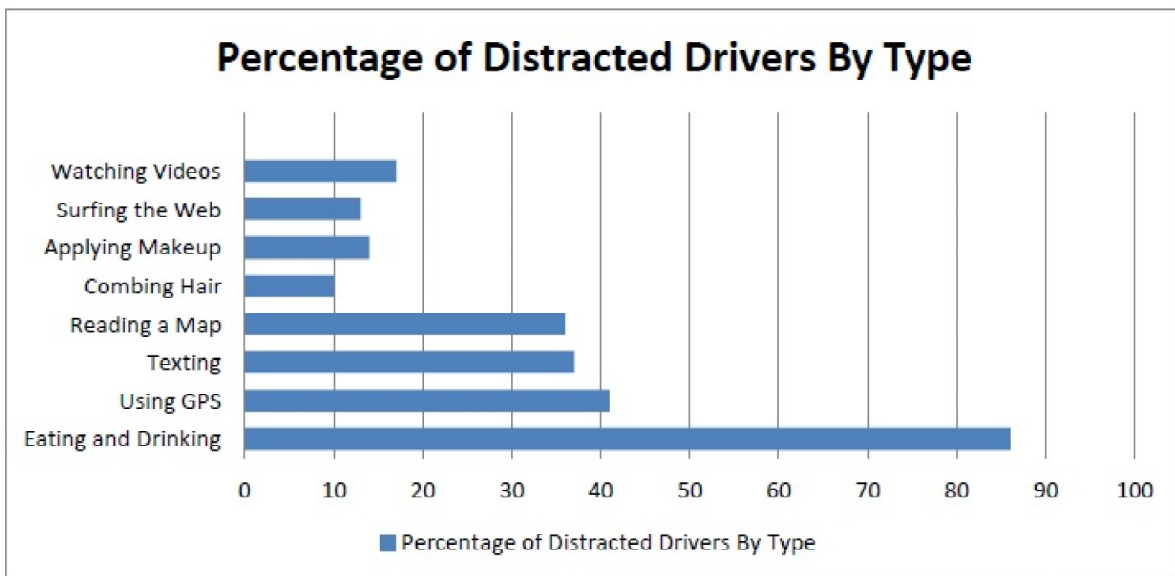**Intro to Statistics**　　　　　　**What can be learned from the data?**

1

Directions: Analyze and discuss the graphs and charts with your table members. We will have a class discussion on the material towards the end of the period. As a group, get ready to share three pieces from the assignment that resonated with you the most.

Distracted Driving Based on the bar graph below, what are the top three distractions when driving?

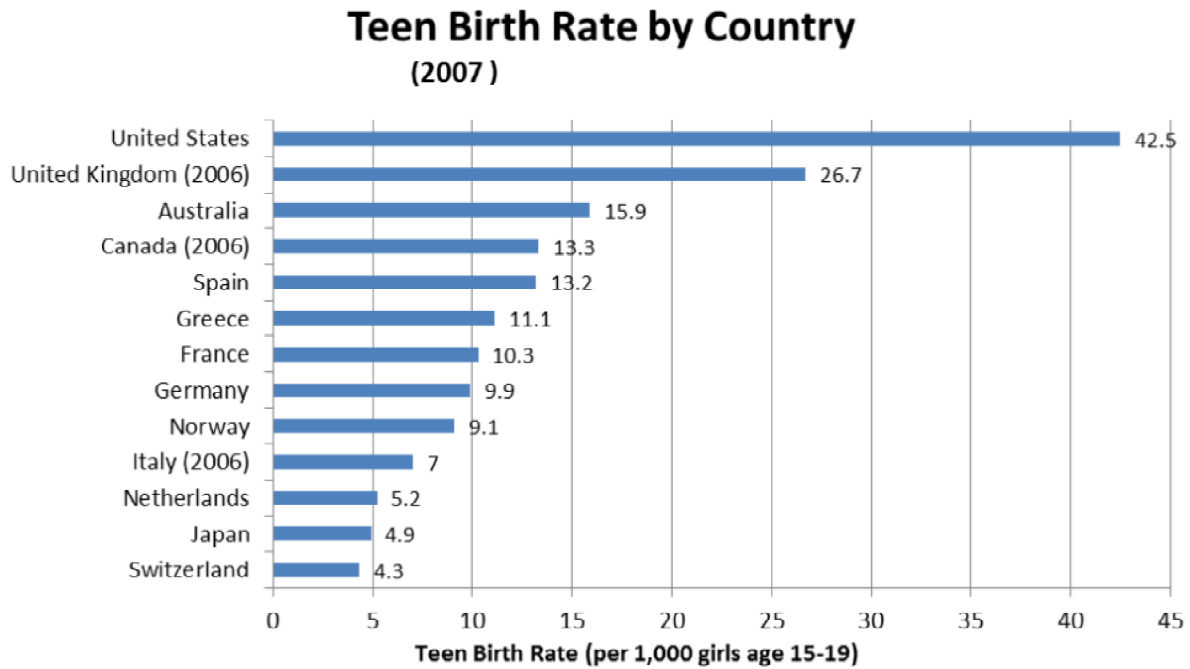**Important:** Any distraction can greatly increase the potential for getting into an accident.

Percentage of Distracted Drivers By Type

Type	Percentage
Watching Videos	~17
Surfing the Web	~13
Applying Makeup	~14
Combing Hair	~10
Reading a Map	~36
Texting	~37
Using GPS	~41
Eating and Drinking	~86

■ Percentage of Distracted Drivers By Type

*Statistics for graph provided by HealthDay.com

2   **Divorce**   What conclusion can you make from the information provided from the bar graph below.

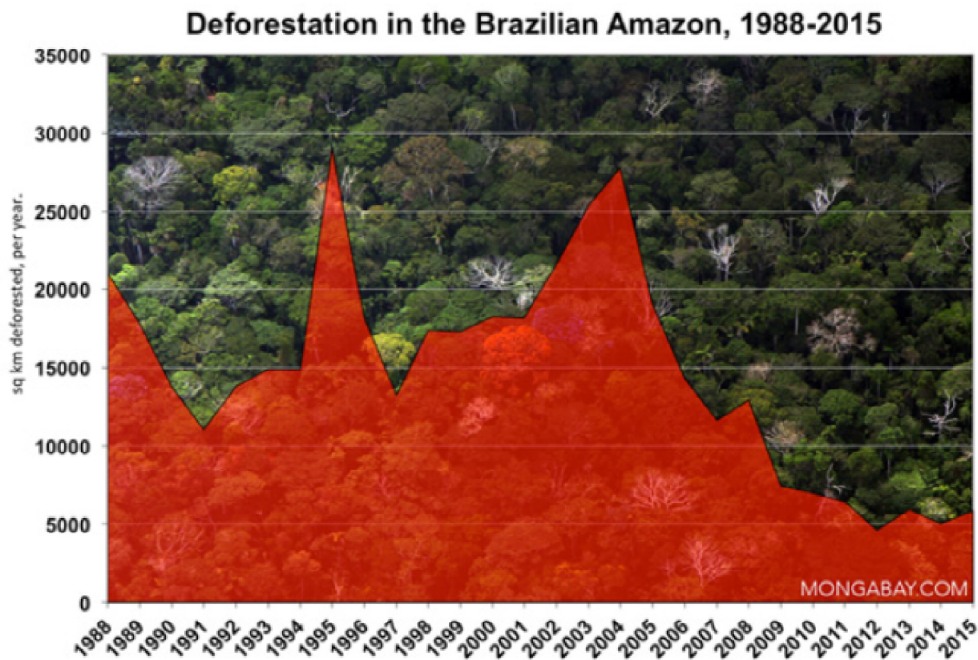Estimates of Divorce Risk within Five Years of First Marriage, by Age
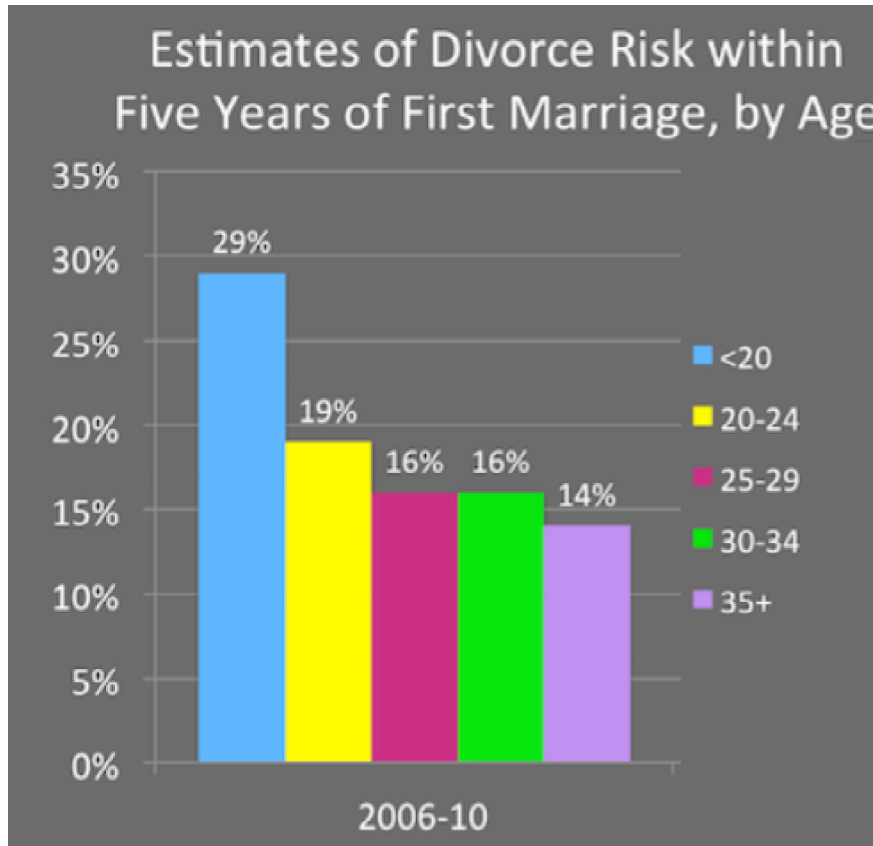
3 **Teen Pregnancy** The bar graph below shows a comparison among the teen birth rates of many countries. Why do you think the United States has the highest teen birth rate?

Teen Birth Rate by Country
(2007)

Country	Teen Birth Rate (per 1,000 girls age 15-19)
United States	42.5
United Kingdom (2006)	26.7
Australia	15.9
Canada (2006)	13.3
Spain	13.2
Greece	11.1
France	10.3
Germany	9.9
Norway	9.1
Italy (2006)	7
Netherlands	5.2
Japan	4.9
Switzerland	4.3

4 **Cost of Education vs. Prison** What conclusions could you make based on the data below?

● Cost per student   ● Cost per inmate
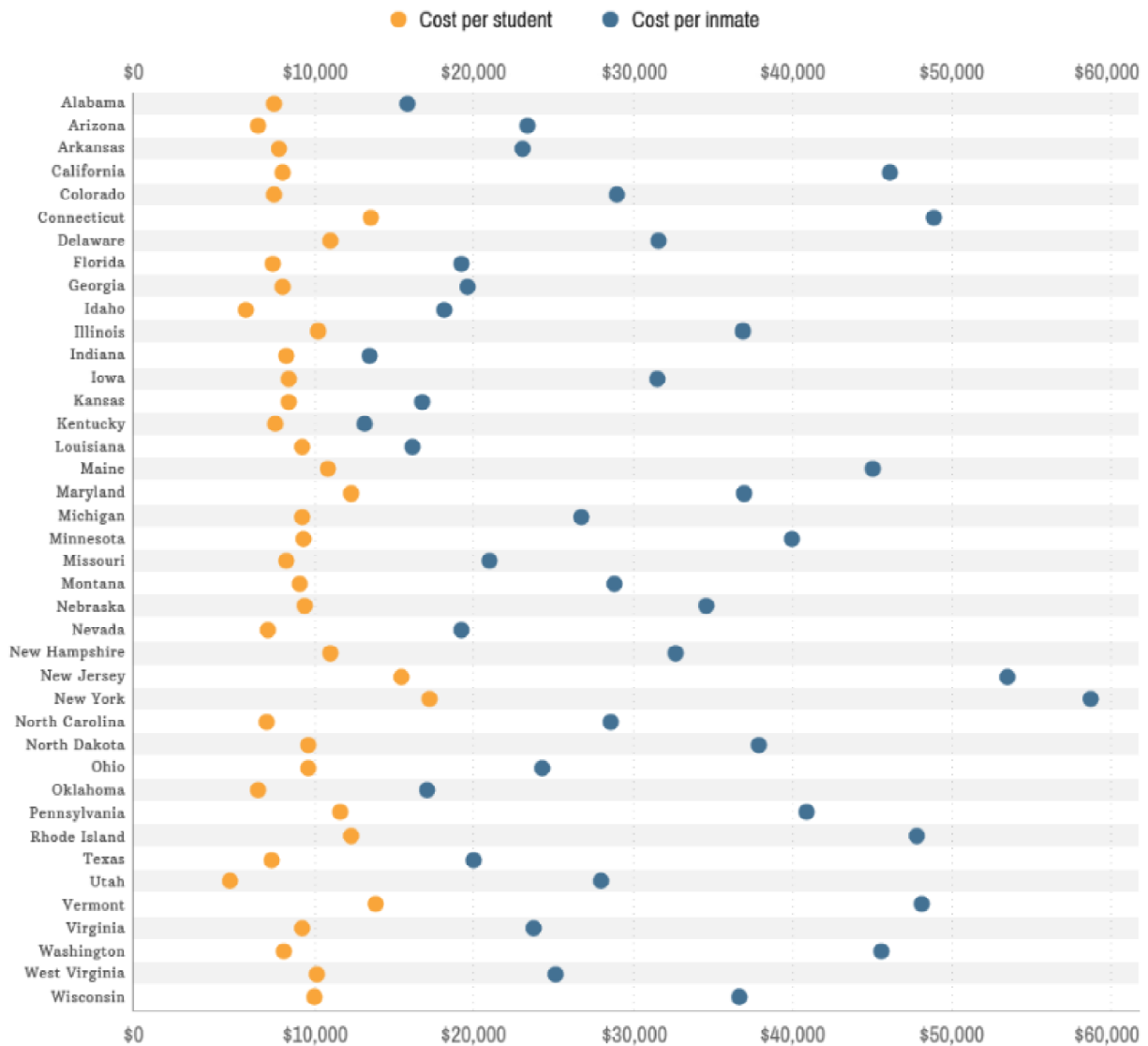
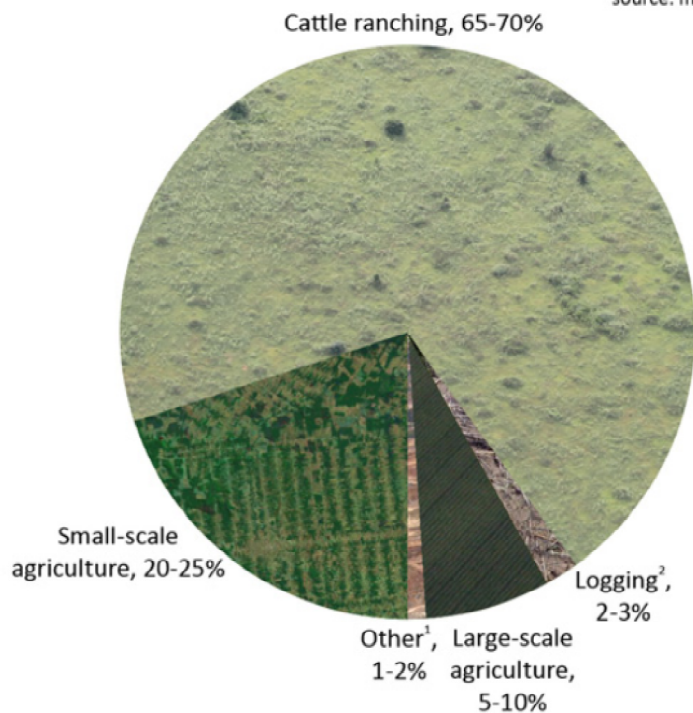**5** **Rainforest** What conclusions could you make about deforestation in the Brazilian Amazon based on the graph and pie chart below?

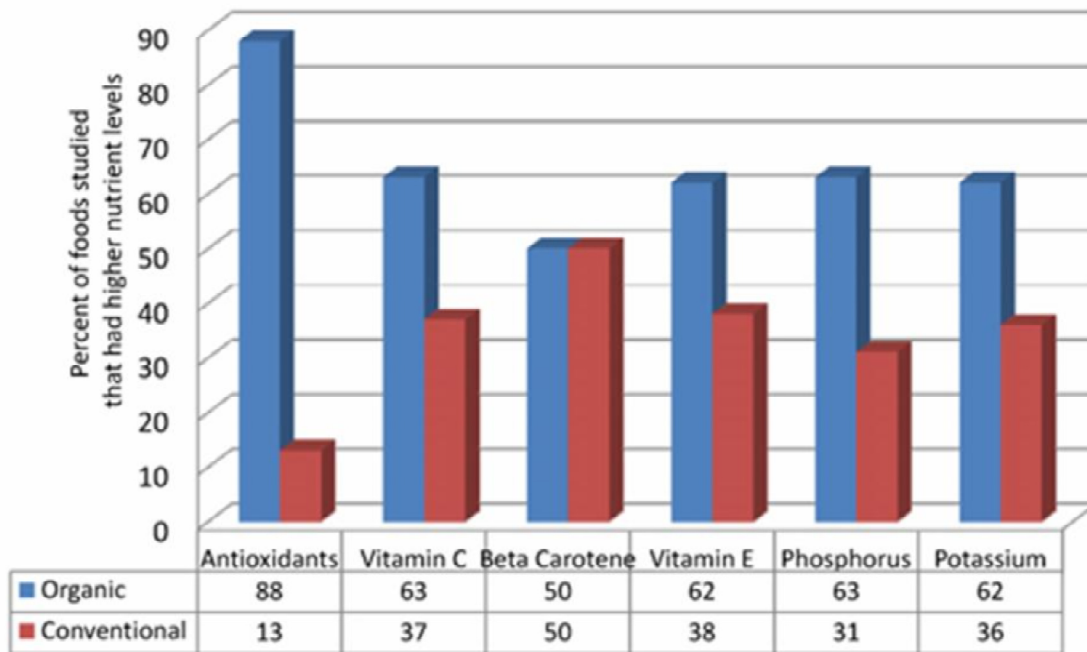## Deforestation in the Brazilian Amazon, 1988-2015

Causes of Deforestation in the Brazilian Amazon, 2000-2005

source: mongabay.com

Cattle ranching, 65-70%

Small-scale agriculture, 20-25%

Other[1], 1-2%

Large-scale agriculture, 5-10%

Logging[2], 2-3%

6 **Organic vs. Non-Organic** What conclusions could you make about organic produce based on the table below?

## NUTRIENTS IN ORGANIC VERSUS CONVENTIONALLY GROWN FRUITS AND VEGETABLES

	Antioxidants	Vitamin C	Beta Carotene	Vitamin E	Phosphorus	Potassium
Organic	88	63	50	62	63	62
Conventional	13	37	50	38	31	36

7   **Organic vs. Natural**   What conclusions could you make about labeling food items as organic and natural based on the chart below?

Organic vs. Natural

USDA ORGANIC

	Organic	Natural
Toxic pesticides	Not allowed	Allowed
GMOs	Not allowed	Allowed
Antibiotics	Not allowed	Allowed
Growth Hormones	Not allowed	Allowed
Sludge & irradiation	Not allowed	Allowed
Animal welfare requirements	Yes	No
Cows on pasture for pasture season	Yes	No
Lower levels of environment pollution	Yes	No
Farm-to-Table record keeping	Yes	No
Inspections & certification required	Yes	No
Restricted allowable materials	Yes	No

8 **Bee Population** What conclusions could you make about bees based on the graph below?
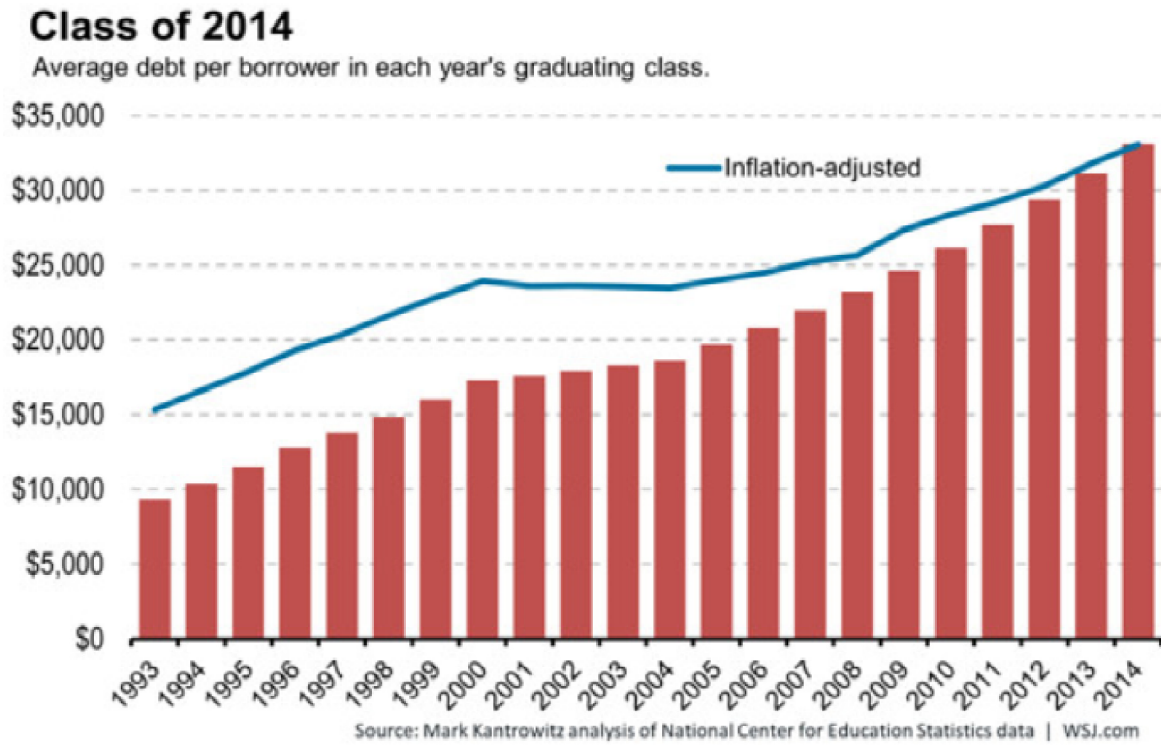
Millions of hives in the U.S.
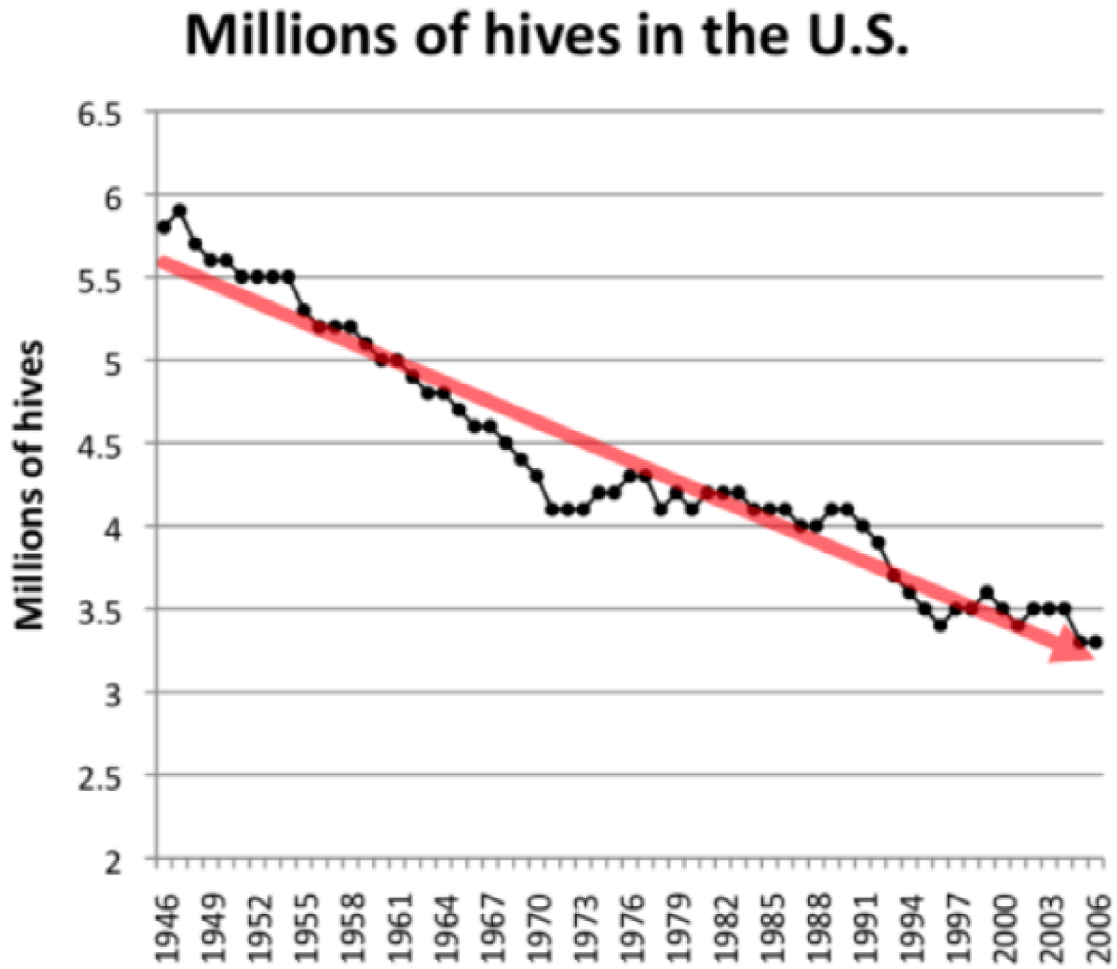
9   **Casualties of War**   What conclusions could you make about the casualties of war based on the pie chart below?

## Casualties From The War On Terror, 9/11, And The Invasion of Iraq

0.28%   0.55%
4.39%

94.78%

■ September 11th Victims

▨ American Casualties in Afghanistan & Iraq

■ Afghan Civilian Casualties

▨ Iraqi Civilian Casualties
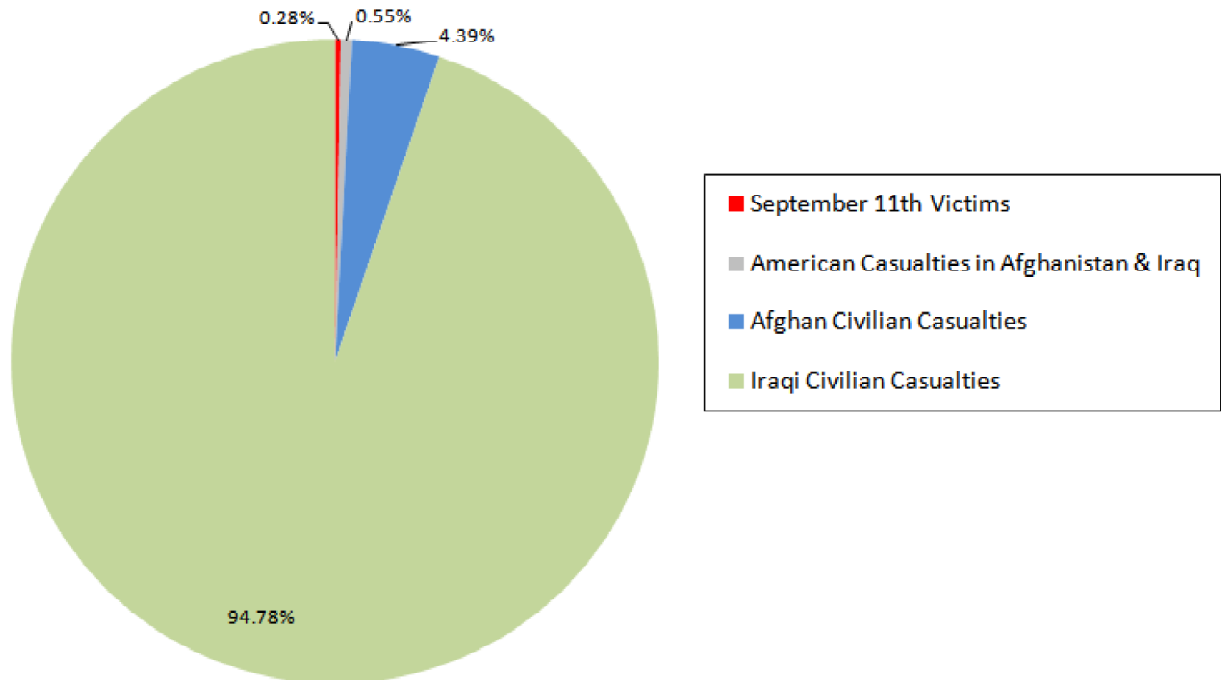
10 **Student Debt** What conclusions could you make about student debt based on the statistics below?

Class of 2014
Average debt per borrower in each year's graduating class.

Source: Mark Kantrowitz analysis of National Center for Education Statistics data | WSJ.com

11 **Cancer and Meat Consumption** What conclusions could you make about cancer and meat consumption based on the information below. **Note:** Per capita means per person.
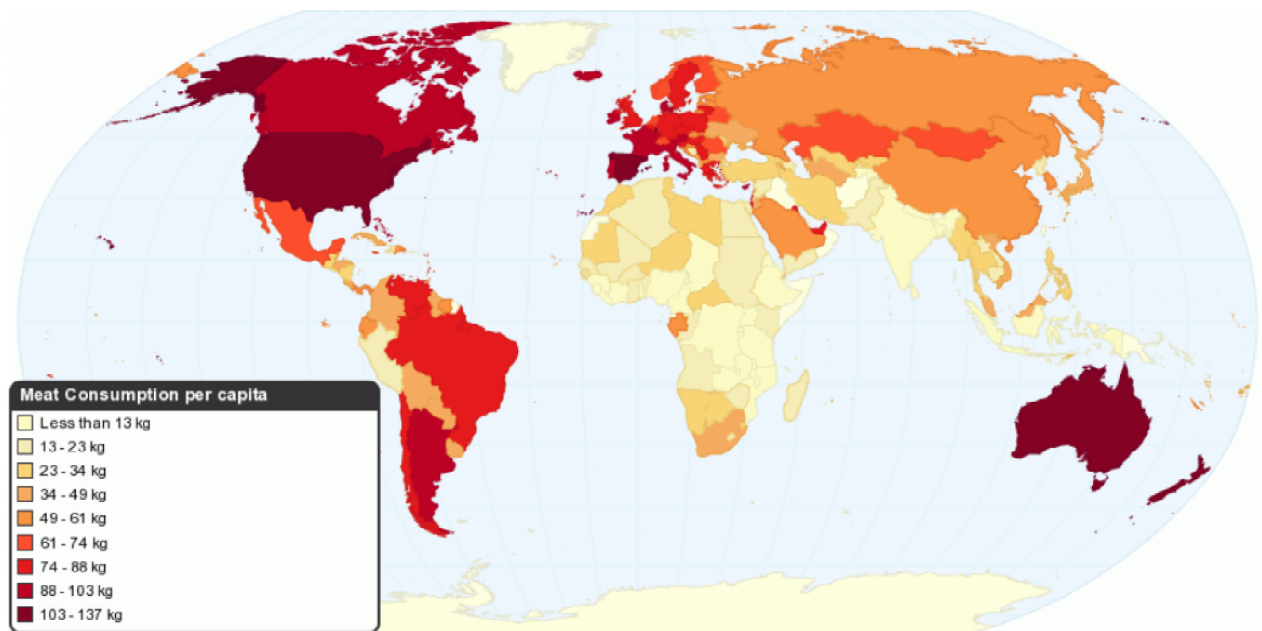
Intro to Statistics   **What can be learned from the data?**
Answer Section

SHORT ANSWER

   1   ANS:
      Answers vary.
   2   ANS:
      Answers vary.
   3   ANS:
      Answers vary.
   4   ANS:
      Answers vary.
   5   ANS:
      Answers vary.
   6   ANS:
      Answer vary.
   7   ANS:
      Answers vary.
   8   ANS:
      Answers vary.
   9   ANS:
      Answers vary.
  10   ANS:
      Answer vary.
  11   ANS:
      Answers vary.