19) Sampling and Bias

19.1   no bias; 11.5% vs. 12%
19.2   bias in favor of Boiseans; 42.1% vs. 62%
19.3   bias against Scotland; 8.1% vs. 3.7%
19.4   no bias; 83.7% vs. 83.3%
19.5   bias in favor of celebrants; 73.5% vs. 88%
19.6   bias against south Canadians; 63.8% vs. 52%
19.7   no bias; 56.3% vs. 58%
19.8   bias against passport holders; 47.4% vs. 32%
19.9   bias in favor of Sanjuaneros; 72.4% vs. 86%
19.10 no bias; 57.9% vs. 59%

About 39 million of the 340 million residents of the United States live in California. If you sampled 500 Americans and 60 lived in California, would this imply bias in your sample? If so, is the bias for or against those from California?

19.1

About 825,000 of the 1.96 million residents of Idaho live in the Boise metro area. If you sampled 200 Idahoans and 124 lived in or near Boise, would this imply bias in your sample? If so, is the bias for or against those from Boise?

19.2

About 5.5 million of the 68 million residents of the United Kingdom live in Scotland. If you sampled 1000 British citizens and 37 lived in Scotland, would this imply bias in your sample? If so, is the bias for or against those from Scotland?

19.3

About 103 million of the 123 million Japanese live on the main island of Honshu. If you sampled 30 Japanese citizens and 25 lived on Honshu, would this imply bias in your sample? If so, is the bias for against those on Honshu?

19.4

About 250 million of the 340 million residents of the United States celebrate Halloween. If you sampled 200 Americans and 176 celebrate Halloween, would this imply bias in your sample? If so, is the bias for or against celebrants?

19.5

About 25.6 million of the 40.1 million Canadians live south of Seattle. If you sampled 500 Canadians and 260 lived south of Seattle, would this imply bias in your sample? If so, is the bias for or against the south Canadians?

19.6

About 580,000 of the 1.03 million residents of Delaware live in New Castle County. If you sampled 50 Delawareans and 29 lived in New Castle County, would this imply bias in your sample? If so, is the bias for or against New Castle?

19.7

About 161 million of the 340 million Americans have a valid passport. If you sampled 200 Americans and 64 had a passport, would this imply bias in your sample? If so, is the bias for or against the passport holders?

19.8

About 2.36 million of the 3.26 million Puerto Ricans live in the San Juan CSA*. If you sampled 100 Puerto Ricans and 84 lived near San Juan, would this imply bias in your sample? If so, is the bias for or against the Sanjuaneros?

*Combined Statistical Area

19.9

About 217,000 of the 375,000 residents of Iceland live in Greater Reykjavik. If you sampled 500 Icelanders and 295 lived near Reykjavik, would this imply bias in your sample? If so, is the bias for or against the Reykvíkingurs?

19.10