

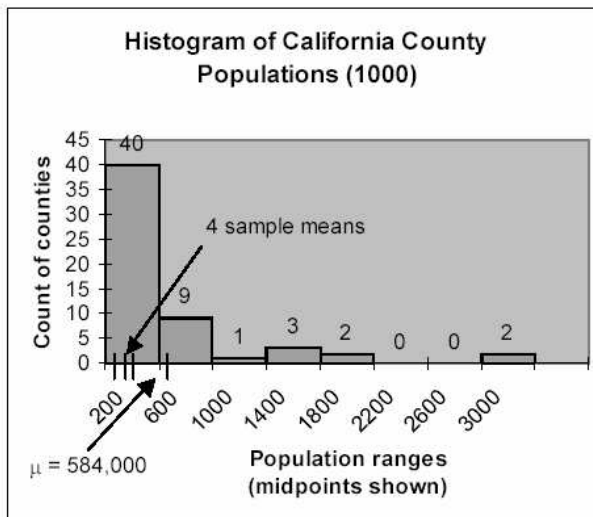
HW 3

3.68, 4.90, 4.92 (ta01_013.xls), 4.94, 4.100, 6.10, 6.12, 6.18

3.68 a) high variability, high bias. b) low variability, low bias. c) high variability, low bias. d) low variability, high bias.

4.90 Both numbers are statistics.

4.92 a)



b) $\mu = 583,994$. c) $\bar{x} = 47010.5$. d) 97065.25, 85281, 56809, 42831.25. We would not expect all the sample means to be greater than μ . The distribution is heavily skewed to the right so most of the observations will be less than μ . e) Even though the distribution is skewed to the right, the center of the sampling distribution should still be close to μ .

4.94 $\mu_{\bar{x}} = 40.125mm$, $\sigma_{\bar{x}} = 0.001$

4.100 a) $\mu_{\bar{x}} = 0.9$, $\sigma_{\bar{x}} = 0.0134$. b) $L = 0.9313$ NOX.

6.10 (490.42, 589.58).

6.12 a) 0.90. b) (60.04, 63.56). c) No, this interval describes the average weights, not the weights of individual runners.

6.18 $n = 68$.