Bootstrapped Distribution $\hat{s} = 5.17$ Bootstrapped Conf. Int. 0.20 [1.17, 8.89] Theory Conf. Int. [2.44, 17.2] Probability Density 0.05 0.00 2.5 5.0 7.5 10.0 12.5 15.0 17.5 0.0 Sample Standard Deviation, s