

According to records, the amount of precipitation in a certain city on a November day has a mean of 0.10 inches, with a standard deviation of 0.06 inches. What is the probability that the mean daily precipitation will be 0.103 inches or less for a random sample of 40 November days (taken over many years)?

Carry your intermediate computations to at least four decimal places. Round your answer to at least three decimal places.