

Sample Sizes for 90%, 95%, and 99% Confidence

Confidence Level
Standard Error of the Mean = 5%

Population	90%	95%	99%
25	24	24	25
50	43	45	46
75	60	64	68
100	74	80	86
200	116	133	156
300	144	168	206
400	163	197	251
500	177	213	267
750	201	255	354
1,000	215	279	401
1,500	231	307	462
2,000	241	323	500
2,500	247	334	527
3,000	251	342	548
4,000	256	351	572
5,000	259	358	588
7,500	264	366	612
10,000	266	371	625
15,000	268	376	638
20,000	270	378	645
50,000	272	382	658
100,000	273	384	662

Population: The total number of cases in the population under study. For example, the number of patients on Medicaid, the number of low birth weight babies, or the number of patient records.

Confidence Level: The percentage of possible population values captured in the sample size. For a 95% confidence level, you could be certain that your sample will include 95% of all the possible values.

Standard Error of the Mean: A measure of the average amount by which sample means deviate from the true or population mean.