

## Table for Determining Random Sample Size from a Given Population

(Confidence level 95%; Margin of error + or - 5%)

Population N	Sample S	N	S	N	S
10	10	220	140	1,200	291
15	14	230	144	1,300	297
20	19	240	148	1,400	302
25	24	250	152	1,500	308
30	28	260	155	1,600	310
35	32	270	159	1,700	313
40	36	280	162	1,800	317
45	40	290	165	1,900	320
50	44	300	169	2,000	322
55	48	320	175	2,200	327
60	52	340	181	2,400	331
65	56	360	186	2,600	335
70	59	380	191	2,800	338
75	63	400	196	3,000	341
80	66	420	201	3,500	346
85	70	440	205	4,000	351
90	73	460	210	4,500	354
95	76	480	214	5,000	357
100	80	500	217	6,000	361
110	86	550	226	7,000	364
120	92	600	234	8,000	367
130	97	650	242	9,000	368
140	103	700	248	10,000	370
150	108	750	254	15,000	375
160	113	800	260	20,000	377
170	118	850	265	30,000	379
180	123	900	269	40,000	380
190	127	950	274	50,000	381
200	132	1,000	278	75,000	382
210	136	1,100	285	100,000	<b>384</b>
				1,000,000	<b>384</b>
				10,000,000	<b>384</b>

**NOTE:** - Opinion surveys of the entire United States frequently consist of 1500 to 2000 interviews, to permit valid information for subgroups such as geographic regions, age, gender, and income. In a state of 3,000,000 population, surveys often involve a sample of 500 to 600, to permit breakouts.

**Source:** Adapted from Educational and Psychological Measurement David A Payne; Robert F McMorris 1967 English Book x, 419 p. illus. 23 cm. Waltham, Mass., Blaisdell Pub. Co.