

บรรณานุกรม

หนังสือและวารสาร

สุวัฒน์ สุชาธรรม และพยอม สิงห์เสนท, การสอบบัญชี. กรุงเทพมหานคร : โรงพิมพ์
ชวนพิมพ์, 2518.

AICPA. Codification of Statements on Auditing Standards Numbers 1
to 7. Chicago, Illinois: Commerce Clearing House, Inc.,
1976.

Arens, Alvin A., and Loebbecke, James K. Auditing: An Integrated
Approach. Englewood Cliffs, New Jersey: Prentice-Hall,
Inc., 1976.

Arkin, Herbert. Handbook of Sampling for Auditing and Accounting.
2d ed. New York: McGraw-Hill Book Company, 1976.

Brasseaux, J. Herman, and Edwards, John D. Reading in Auditing.
3d ed. Cincinnati, Ohio: South-Western Publishing Co.,
1973.

Cashin, James A. Handbook for Auditors. New York: McGraw-Hill,
Inc., 1971.

Coopers and Lybrand. Coopers and Lybrand International Policy
Statements and Memoranda. U.S.A.: Coopers and Lybrand
(International), 1975-1978.

บรรณานุกรม (ต่อ)

- Defliese, Philip L.; Johnson, Kenneth P.; and Macleod, Roderick K. Montgomery's Auditing. 9th ed. New York: The Ronald Press Co., 1975.
- Hermanson, Roger H.; Loeb, Stephen E.; Saada, John M. and Strawser, Robe Robert H. Auditing Theory and Practice. Illinois: Richard D. Irwin, Inc., 1976.
- Johnson, James T., and Brasseaux, J. Herman. Readings in Auditing. 2d ed. Cincinnati, Ohio: South-Western Publishing Co., 1965.
- Meigs, Walter B.; Larsen, E. John; and Meigs, Robert F. Principles of Auditing, 5th ed. Homewood, Illinois: Richard D. Irwin, Inc., 1973.
- Ray, J.C. Independent Auditing Standards. New York: Holt, Rinehart and Winston, Inc., 1964.
- Silvoso, Joseph A., and Bauer, Royal D.M. Auditing. 2d ed. Cincinnati, Ohio: South-Western Publishing Co., 1965.
- Stettler, Howard F. Auditing Principles. 3d ed. Englewood Cliffs, New Jersey: Prentice-Hall, Inc., 1970.
- Willingham, John J., and Carmichael, D.R. Auditing Concepts and Methods. 2d ed. New York: McGraw-Hill Book Company, 1971.



ภาคผนวก

ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย

ព្រឹត្តិបត្រ ក.

DISCOVERY SAMPLING

Confidence Level 95%
Sample Size When Occurrence Rate Is

Field Size	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.5	2.0	2.5	3.0	4.0	5.0
200	200	200	199	195	190	184	176	169	162	155	126	105	90	79	62	52
300	300	298	289	275	259	243	228	214	201	189	146	118	99	85	66	54
400	400	391	367	338	311	285	263	243	226	211	157	125	104	88	68	56
500	499	475	432	388	349	316	288	264	243	225	165	129	107	91	70	56
600	596	551	486	428	379	339	306	279	255	236	170	133	109	92	70	57
700	690	618	532	460	403	357	320	290	265	244	174	135	110	93	71	57
800	781	677	570	486	422	371	331	299	272	250	177	137	111	94	71	58
900	868	730	603	508	437	383	341	306	278	255	179	138	112	95	72	58
1000	950	776	632	527	451	393	348	312	283	259	181	139	113	95	72	58
1500	1296	947	729	590	494	425	372	331	299	272	187	143	115	97	73	59
2000	1553	1054	786	625	518	442	385	341	307	278	190	144	116	97	74	59
2500	1746	1127	823	647	533	453	393	348	312	282	192	145	117	98	74	59
3000	1895	1179	849	663	543	460	399	352	315	285	193	146	117	98	74	59
4000	2109	1249	884	683	556	469	406	357	319	289	195	147	118	99	74	59
5000	2254	1294	905	696	565	475	410	361	322	291	196	148	118	99	74	60
6000	2358	1326	920	704	570	479	413	363	324	292	196	148	119	99	74	60
7000	2437	1348	931	710	574	482	415	365	325	293	197	148	119	99	74	60
8000	2499	1366	939	715	577	484	417	366	326	294	197	148	119	99	75	60
9000	2540	1380	945	719	580	486	418	367	327	295	198	149	119	99	75	60
10000	2589	1391	950	722	582	487	419	368	327	295	198	149	119	99	75	60
15000	2716	1426	966	731	587	491	422	370	329	297	198	149	119	100	75	60
20000	2782	1443	974	735	590	493	423	371	330	297	199	149	119	100	75	60
25000	2823	1454	979	738	592	494	424	372	331	298	199	149	120	100	75	60
30000	2851	1461	982	740	593	495	425	372	331	298	199	149	120	100	75	60
35000	2871	1466	984	741	594	496	425	372	331	298	199	149	120	100	75	60
40000	2886	1470	986	742	595	496	426	373	331	298	199	150	120	100	75	60
45000	2898	1473	988	743	595	497	426	373	332	299	199	150	120	100	75	60
50000	2908	1476	989	743	596	497	426	373	332	299	199	150	120	100	75	60

Confidence Level 90%
Sample Size When Occurrence Rate Is

Field Size	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.5	2.0	2.5	3.0	4.0	5.0
200	200	199	196	189	180	171	161	153	144	137	107	88	74	64	50	41
300	300	294	277	256	235	217	200	185	172	161	120	96	79	68	52	43
400	399	378	341	305	274	247	224	205	189	175	127	100	82	70	54	43
500	495	450	392	342	301	268	241	219	200	185	132	103	84	71	54	44
600	587	512	433	370	322	284	253	229	203	191	135	105	85	72	55	44
700	674	565	466	392	337	295	262	236	214	196	138	106	86	73	55	45
800	755	610	494	410	350	305	270	242	219	200	140	107	87	73	56	45
900	830	650	516	425	360	312	276	246	223	203	141	108	88	74	56	45
1000	900	684	536	438	369	319	280	250	226	206	142	109	88	74	56	45
1500	1177	804	601	478	397	339	295	262	235	213	146	111	89	75	56	45
2000	1368	875	637	500	411	349	303	268	240	217	148	112	90	75	57	46
2500	1505	923	661	514	421	356	308	272	243	220	149	113	90	76	57	46
3000	1608	956	677	524	427	360	312	274	245	222	150	113	91	76	57	46
4000	1751	1000	698	536	435	366	316	278	248	224	151	113	91	76	57	46
5000	1845	1028	712	544	440	369	318	280	249	225	151	114	91	76	57	46
6000	1912	1048	720	549	443	372	320	281	250	225	152	114	91	76	57	46
7000	1962	1062	727	553	446	373	321	282	251	227	152	114	92	76	57	46
8000	2001	1072	732	555	448	375	322	283	252	227	152	114	92	76	57	46
9000	2032	1081	736	558	449	376	323	283	252	227	152	114	92	76	57	46
10000	2057	1087	739	559	450	376	324	284	253	228	152	114	92	76	57	46
15000	2135	1108	748	565	454	379	325	285	254	229	153	115	92	77	57	46
20000	2175	1119	753	567	455	380	326	286	254	229	153	115	92	77	57	46
25000	2200	1125	756	569	456	381	327	286	255	229	153	115	92	77	58	46
30000	2216	1129	758	570	457	381	327	286	255	229	153	115	92	77	58	46
35000	2228	1133	759	571	458	382	327	287	255	230	153	115	92	77	58	46
40000	2238	1135	760	572	458	382	328	287	255	230	153	115	92	77	58	46
45000	2245	1137	761	572	458	382	328	287	255	230	153	115	92	77	58	46
50000	2250	1138	762	572	458	382	328	287	255	230	153	115	92	77	58	46

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ACCEPTANCE SAMPLING

Field Size 1,000

n Sample Size	c Acceptance Number	When Field Contains Error Rate of: The Probability of Acceptance is							When Field Contains Error Rate of: The Probability of Acceptance is					
		.1%	.2%	.3%	.4%	.5%	1%	1.5%	2%	2.5%	3%	4%	5%	10%
25	0	97.5	95.1	92.7	90.4	88.1	77.5	68.2	60.0	52.7	46.3	35.6	27.3	6.9
25	1	100.0	99.9	99.8	99.7	99.4	97.6	94.8	91.3	87.3	82.9	73.6	64.2	26.7
25	2		100.0	99.9+	99.9+	99.9+	99.9	99.5	98.8	97.8	96.4	92.6	87.5	53.6
25	3			100.0	99.9+	99.9+	99.9+	99.9+	99.9	99.7	99.5	98.5	96.8	77.0
50	0	95.0	90.2	85.7	81.4	77.3	59.7	46.1	35.5	27.3	21.0	12.3	7.2	0.4
50	1	100.0	99.8	99.3	98.6	97.8	91.5	82.8	73.6	64.0	55.1	39.4	27.2	3.1
50	2		100.0	99.9+	99.9+	99.9	98.9	96.2	92.6	87.1	81.4	67.7	53.7	10.6
50	3			100.0	99.9+	99.9+	99.9	99.1	98.5	96.2	94.2	86.6	76.4	24.3
60	0	94.0	88.4	83.0	78.0	73.3	53.7	39.3	28.7	20.9	15.2	8.0	4.2	0.1
60	1	100.0	99.7	99.0	98.0	96.9	88.3	77.2	66.0	54.9	45.2	29.7	18.3	1.2
60	2		100.0	99.9+	99.9	99.8	98.2	94.0	88.7	81.0	73.3	56.5	41.1	4.8
60	3			100.0	99.9+	99.9+	99.8	98.6	97.2	93.6	90.0	78.6	64.8	12.9
75	0	92.5	85.6	79.1	73.2	67.7	45.7	30.8	20.7	13.9	9.3	4.1	1.8	*0.1-
75	1	100.0	99.4	98.4	97.0	95.2	83.1	68.8	55.0	42.8	32.7	18.2	9.7	0.3
75	2		100.0	99.9+	99.9	99.6	96.7	90.4	81.6	71.3	60.6	41.0	25.9	1.3
75	3			100.0	99.9+	99.9+	99.6	97.9	94.4	88.9	81.8	64.8	47.4	4.4
100	0	90.0	81.0	72.9	65.6	59.0	34.7	20.3	11.9	6.9	4.0	1.3	0.4	*0.1-
100	1	100.0	99.0	97.2	94.8	91.9	73.6	54.8	38.9	26.7	17.9	7.6	3.1	*0.1-
100	2		100.0	99.9	99.6	99.2	93.1	81.7	67.7	53.6	40.8	21.7	10.6	0.1
100	3			100.0	99.9+	99.9+	98.8	94.6	86.9	76.5	64.8	41.9	24.3	0.6
100	4				100.0	99.9+	99.8	98.8	95.8	90.5	82.7	62.9	42.7	1.9
125	0	87.5	76.6	67.0	58.6	51.2	26.1	13.3	67.3	3.4	1.7	0.4	0.1	*0.1-
125	1	100.0	98.5	95.7	92.2	88.0	68.9	42.2	26.4	15.9	9.3	3.0	0.9	*0.1-
125	2		100.0	99.8	99.3	98.4	88.2	71.4	53.4	37.7	25.4	10.4	3.8	*0.1-
125	3			100.0	99.9+	99.9	97.3	89.4	76.7	61.8	47.1	24.1	10.8	0.1
125	4				100.0	99.9+	99.6	97.0	90.7	80.7	68.2	42.5	22.8	0.2

Field Size 1,000 (Cont.)

n Sample Size	c Acceptance Number	When Field Contains Error Rate of: The Probability of Acceptance is							When Field Contains Error Rate of: The Probability of Acceptance is					
		.1%	.2%	.3%	.4%	.5%	1%	1.5%	2%	2.5%	3%	4%	5%	10%
150	0	85.0	72.2	61.4	52.1	44.3	19.5	8.6	3.7	1.6	0.7	0.1	*0.1-	*0.1-
150	1	100.0	97.8	94.0	89.0	83.6	54.4	31.7	17.3	9.0	4.6	1.1	0.2	*0.1-
150	2		100.0	99.7	98.8	97.4	82.1	60.4	40.3	25.0	14.7	4.5	1.2	*0.1-
150	3			100.0	99.9+	99.8	95.1	82.4	64.8	46.9	31.8	12.5	4.2	*0.1-
150	4				100.0	99.9+	99.0	94.0	83.2	68.3	52.3	25.8	10.6	*0.1-
200	0	80.0	64.0	51.2	40.9	32.7	10.6	3.4	1.1	0.4	0.1	*0.1-	*0.1-	*0.1-
200	1	100.0	96.0	89.6	82.0	73.8	37.6	16.5	6.7	2.6	1.0	0.1	*0.1-	*0.1-
200	2		100.0	99.2	97.3	94.3	68.3	39.7	20.3	9.5	4.2	0.7	0.1	*0.1-
200	3			100.0	99.8	99.3	88.2	64.9	41.0	23.1	11.9	2.6	0.5	*0.1-
200	4				100.0	99.9+	97.0	83.7	62.7	41.9	25.1	7.2	1.6	*0.1-
200	5					100.0	99.6	94.0	80.4	61.7	42.5	15.6	4.4	*0.1-
225	0	77.5	60.0	46.5	36.0	27.9	7.7	2.1	0.6	0.1	*0.1-	*0.1-	*0.1-	*0.1-
225	1	100.0	95.0	87.1	78.0	68.6	30.1	11.5	4.0	1.3	0.4	*0.1-	*0.1-	*0.1-
225	2		100.0	98.9	96.2	92.2	79.5	30.9	13.7	5.5	2.1	0.3	*0.1-	*0.1-
225	3			100.0	99.8	99.0	82.2	55.4	30.8	15.0	6.7	1.1	0.1	*0.1-
225	4				100.0	99.9	93.7	76.7	52.0	30.4	15.9	3.4	0.6	*0.1-
225	5					100.0	97.7	90.3	71.7	49.3	29.9	8.3	1.7	*0.1-
275	0	72.5	52.5	38.1	27.6	20.0	3.9	0.8	0.1	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
275	1	100.0	92.5	81.5	69.6	58.0	19.1	5.3	1.3	0.3	*0.1-	*0.1-	*0.1-	*0.1-
275	2		100.0	97.9	93.4	86.9	45.1	17.3	5.6	1.6	0.4	*0.1-	*0.1-	*0.1-
275	3			100.0	99.4	97.8	71.6	37.3	15.5	5.6	1.8	0.2	*0.1-	*0.1-
275	4				100.0	99.9	89.0	69.2	31.7	13.9	3.1	0.6	*0.1-	*0.1-
275	5					100.0	96.9	79.3	51.5	27.4	5.8	1.8	0.2	*0.1-
300	0	70.0	49.0	34.3	23.9	16.7	2.8	0.5	0.1	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
300	1	100.0	91.0	78.4	65.2	52.8	14.8	3.4	0.7	0.1	*0.1-	*0.1-	*0.1-	*0.1-
300	2		100.0	97.3	91.7	83.8	38.2	12.5	3.4	0.8	0.2	*0.1-	*0.1-	*0.1-
300	3			100.0	99.2	97.0	65.0	29.5	10.5	3.2	0.8	*0.1-	*0.1-	*0.1-
300	4				100.0	99.8	85.1	51.5	23.5	8.8	2.8	0.2	*0.1-	*0.1-
300	5					100.0	95.3	72.3	41.5	19.0	7.3	0.8	0.1	*0.1-

Field Size 5,000

n Sample Size	c Acceptance Number	When Field Contains Error Rate of:							When Field Contains Error Rate of:								
		.1%	.2%	.3%	.4%	.5%	1%	1.5%	2%	2.5%	3%	4%	5%	6%	7%	8%	
		The Probability of Acceptance is:							The Probability of Acceptance is:								
50	0	95.1	90.4	86.0	81.7	77.8	60.3	46.8	36.3	28.0	21.6	12.9	7.6	4.5	2.6	1.5	
50	1	99.9	99.6	99.0	98.3	97.5	91.1	82.8	73.6	64.3	55.5	39.9	27.8	18.9	12.5	8.2	
50	2	99.9+	99.9+	99.9+	99.9	99.9	98.7	96.2	92.3	87.1	81.2	67.7	54.0	41.5	30.9	22.4	
50	3	99.9+	99.9+	99.9+	99.9+	99.9+	99.8	99.3	98.4	96.4	93.8	86.2	76.1	64.7	53.2	42.4	
100	0	90.4	81.6	73.9	66.7	60.3	36.3	21.2	13.0	7.7	4.6	1.6	0.6	0.2	0.1	*0.1-	
100	1	99.7	98.3	96.5	94.1	91.2	73.6	55.5	40.1	28.0	19.2	8.5	3.6	1.5	0.6	0.2	
100	2	99.9+	99.8	99.7	99.3	98.8	92.3	81.1	67.7	54.1	41.8	22.9	11.6	5.5	2.5	1.1	
100	3	99.9+	99.9+	99.9+	99.9+	99.9	98.4	93.8	86.2	76.0	64.7	42.7	25.5	14.1	7.2	3.5	
100	4	99.9+	99.9+	99.9+	99.9+	99.9+	99.8	98.4	95.2	89.6	82.0	62.9	43.4	27.4	16.1	8.8	
125	0	88.1	77.6	68.4	60.2	53.0	28.0	14.8	7.7	4.1	2.1	0.6	0.2	*0.1-	*0.1-	*0.1-	
125	1	99.4	97.5	94.7	91.2	87.2	64.3	43.6	28.0	17.4	10.5	3.6	1.2	0.4	0.1	*0.1-	
125	2	99.9	99.8	99.4	98.7	97.7	87.2	71.1	54.1	39.0	26.9	11.6	4.6	1.7	0.6	0.2	
125	3	99.9+	99.9+	99.9+	99.8	99.7	96.5	88.3	76.0	61.8	47.9	25.6	12.1	5.2	2.1	0.8	
125	4	99.9+	99.9+	99.9+	99.9+	99.9+	99.2	96.1	89.6	79.8	67.9	43.5	24.3	12.1	5.5	2.4	
150	0	85.8	73.6	63.3	54.3	46.6	21.6	10.0	.6	2.1	1.0	0.2	*0.1-	*0.1-	*0.1-	*0.1-	
150	1	99.1	96.5	92.7	88.0	82.8	55.5	33.6	19.2	10.5	5.6	1.5	0.4	0.1	*0.1-	*0.1-	
150	2	99.9	99.6	99.1	97.9	96.2	81.2	60.7	41.8	26.9	16.5	5.6	1.7	0.5	0.1	*0.1-	
150	3	99.9+	99.9	99.9	99.7	99.4	93.8	81.2	64.7	47.9	33.4	14.2	5.2	1.7	0.5	0.2	
150	4	99.9+	99.9+	99.9+	99.9	99.9	98.4	92.6	82.0	67.9	52.9	27.5	12.2	4.9	1.7	0.5	
200	0	81.5	66.4	54.2	44.1	35.9	12.9	4.6	1.6	0.6	0.2	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	
200	1	98.5	94.1	88.2	81.0	73.6	39.9	19.1	8.5	3.6	1.5	0.2	*0.1-	*0.1-	*0.1-	*0.1-	
200	2	99.9	99.3	98.0	95.6	92.4	67.7	41.7	22.9	11.6	5.6	1.1	0.2	*0.1-	*0.1-	*0.1-	
200	3	99.9+	99.9	99.8	99.2	98.3	86.2	64.7	42.7	25.6	14.2	3.7	0.8	0.2	*0.1-	*0.1-	
200	4	99.9+	99.9+	99.9+	99.8	99.7	95.2	82.0	62.8	43.5	27.5	9.1	2.4	0.5	0.1	*0.1-	
200	5	100.0	99.9+	99.9+	99.9+	99.9	98.6	92.1	78.9	61.6	43.9	18.0	5.9	1.6	0.4	0.1	
300	0	73.4	53.9	39.5	28.0	21.2	4.5	0.9	0.2	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	
300	1	96.9	88.3	77.5	66.0	55.2	18.9	5.5	1.5	0.4	0.1	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	
300	2	99.9	98.2	94.4	88.5	81.4	41.5	16.3	5.5	1.7	0.5	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	
300	3	99.9+	99.9	99.1	97.1	94.2	64.7	33.3	14.1	5.2	1.7	0.2	*0.1-	*0.1-	*0.1-	*0.1-	
300	4	99.9+	99.9+	99.9+	99.4	98.6	82.2	52.9	27.4	12.1	4.8	0.6	*0.1-	*0.1-	*0.1-	*0.1-	
300	5	100.0	99.9+	99.9+	99.9	99.8	92.3	70.7	44.0	23.0	10.5	1.6	0.1	*0.1-	*0.1-	*0.1-	

Field Size 5,000 (Cont.)

n Sample Size	c Acceptance Number	When Field Contains Error Rate of:							When Field Contains Error Rate of:								
		.1%	.2%	.3%	.4%	.5%	1%	1.5%	2%	2.5%	3%	4%	5%	6%	7%	8%	
		The Probability of Acceptance is:							The Probability of Acceptance is:								
400	0	65.9	43.4	28.6	18.8	12.4	1.5	0.2	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	
400	1	94.6	81.1	66.0	51.6	39.4	8.2	1.4	0.2	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	
400	2	99.6	95.9	88.8	78.7	67.7	22.5	5.4	1.1	0.2	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	
400	3	99.9+	99.3	97.3	92.9	86.5	42.4	13.8	3.5	0.8	0.2	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	
400	4	99.9+	99.9	99.6	98.1	95.5	62.9	27.2	7.8	2.4	0.6	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	
400	5	100.0	99.9+	99.9+	99.7	98.8	79.3	43.7	16.7	5.7	1.6	0.1	*0.1-	*0.1-	*0.1-	*0.1-	
500	0	59.0	34.8	20.6	12.1	7.1	.5	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	
500	1	91.9	73.6	54.9	39.1	27.1	3.3	0.3	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	
500	2	99.1	93.0	81.7	67.7	53.7	11.0	1.6	0.2	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	
500	3	99.9+	99.4	95.5	87.8	77.4	25.1	5.0	0.7	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	
500	4	99.9+	99.9	99.3	97.2	91.9	43.6	11.8	2.3	0.1	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	
500	5	100.0	99.9+	99.9+	99.5	98.6	62.5	22.8	5.6	0.8	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	
600	0	52.8	27.8	14.6	7.7	4.0	0.2	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	
600	1	88.8	65.8	44.7	28.9	18.0	1.3	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	
600	2	98.2	89.2	73.4	56.3	40.8	5.1	0.4	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	
600	3	99.5	97.6	90.4	78.8	64.8	13.3	1.6	0.1	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	
600	4	99.9+	99.6	97.3	91.8	82.7	26.7	4.4	0.5	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	
600	5	100.0	99.9+	99.9+	97.4	93.0	43.5	9.9	1.4	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	
700	0	47.0	22.1	10.4	4.9	2.2	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	
700	1	85.3	58.2	35.9	20.9	11.0	0.4	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	
700	2	97.8	84.7	60.4	45.7	28.4	2.1	0.1	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	
700	3	99.8	96.2	77.7	69.9	50.1	6.3	0.4	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	
700	4	99.9+	99.5	86.1	86.6	69.5	14.4	1.4	0.1	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	
700	5	100.0	99.9+	97.3	94.0	82.8	26.5	3.6	0.3	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	

*Less than 0.05%.

Field Size 10,000

n Sample Size	c Acceptance Number	When Field Contains Error Rate of					When Field Contains Error Rate of:					When Field Contains Er				
		.05%	.1%	.2%	.3%	.4%	.5%	1%	1.5%	2%	3%	4%	5%	6%	7%	8%
		The Probability of Acceptance is:					The Probability of Acceptance is:					The Probability of Ac				
100	0	99.1	90.5	81.8	73.9	66.8	60.5	36.4	21.9	13.1	4.7	1.7	0.6	0.2	0.1	*0.1-
100	1	99.9	99.6	98.3	96.4	93.9	91.2	73.6	55.6	40.3	19.3	8.6	3.6	1.5	0.6	0.2
100	2	99.9+	99.9+	99.9	99.7	99.2	98.8	92.1	81.0	67.8	41.9	23.1	11.7	5.6	2.5	1.1
100	3	99.9+	99.9+	99.9+	99.9+	99.9+	99.9+	98.2	93.7	78.6	64.7	42.8	25.6	14.2	7.3	3.6
100	4	99.9+	99.9+	99.9+	99.9+	99.9+	99.9+	99.6	98.3	87.6	81.9	62.9	43.5	27.6	16.2	8.9
150	0	92.7	85.9	73.8	63.5	54.5	46.8	21.9	10.2	4.7	1.0	0.2	*0.1-	*0.1-	*0.1-	*0.1-
150	1	99.8	99.0	96.3	92.6	88.1	82.7	55.6	33.8	19.4	5.7	1.5	0.4	0.1	*0.1-	*0.1-
150	2	99.9+	99.9	99.6	99.0	98.1	96.0	81.0	60.8	41.9	16.7	5.7	1.8	0.5	0.1	*0.1-
150	3	99.9+	99.9+	99.9	99.9	99.7	99.3	93.7	81.2	64.7	33.6	14.4	5.3	1.8	0.6	0.2
150	4	99.9+	99.9+	99.9+	99.9+	99.9+	99.8	98.3	92.5	81.8	52.9	27.7	12.4	4.9	1.7	0.6
200	0	90.5	81.8	66.6	54.5	44.5	36.4	13.1	4.7	1.7	.2	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
200	1	99.8	98.5	93.9	88.0	81.0	73.7	40.3	19.4	8.7	1.6	0.2	*0.1-	*0.1-	*0.1-	*0.1-
200	2	99.9+	99.9	99.2	97.9	95.5	92.3	67.8	41.9	23.3	5.8	1.2	0.2	*0.1-	*0.1-	*0.1-
200	3	99.9+	99.9+	99.8	99.8	99.2	98.4	86.1	64.7	43.0	14.4	3.8	0.9	0.2	*0.1-	*0.1-
200	4	99.9+	99.9+	99.9+	99.9+	99.9	99.8	95.1	81.8	63.0	27.8	9.3	2.5	0.6	0.1	*0.1-
200	5	100.0	99.9+	99.9+	99.9+	99.9+	99.9+	99.0	92.0	79.0	44.2	18.2	6.1	1.7	0.4	*0.1-
300	0	85.8	73.7	54.2	40.0	29.5	21.7	4.7	1.0	0.2	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
300	1	99.0	96.5	87.8	77.3	66.1	55.5	19.3	5.7	1.6	0.1	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
300	2	99.8	99.6	97.7	94.0	88.2	81.1	41.9	16.7	5.8	0.5	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
300	3	99.9+	99.9	99.5	98.8	96.8	93.8	64.7	33.6	14.4	1.7	0.2	*0.1-	*0.1-	*0.1-	*0.1-
300	4	99.9+	99.9+	99.9	99.8	99.2	98.3	81.9	52.9	27.8	4.4	0.6	0.1	*0.1-	*0.1-	*0.1-
300	5	100.0	99.9+	99.9+	99.9+	99.8	99.6	92.0	70.3	44.2	9.7	1.7	0.2	*0.1-	*0.1-	*0.1-
400	0	81.4	66.5	44.1	29.4	19.4	12.9	1.7	0.1	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
400	1	98.4	94.2	80.9	66.2	52.0	39.9	8.6	0.8	0.2	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
400	2	99.8	99.4	95.5	88.4	78.4	67.6	23.1	3.1	1.2	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
400	3	99.9+	99.9	99.1	97.1	92.4	86.1	42.8	7.7	3.8	0.2	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
400	4	99.9+	99.9+	99.8	99.5	97.7	95.1	62.9	14.8	9.3	0.6	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
400	5	100.0	99.9+	99.9+	99.9+	99.3	98.5	71.6	23.6	18.3	1.7	0.1	*0.1-	*0.1-	*0.1-	*0.1-

Field Size 10,000 (Cont.)

n Sample Size	c Acceptance Number	When Field Contains Error Rate of:					When Field Contains Error Rate of:					When Field Contains Er				
		.05%	.1%	.2%	.3%	.4%	.5%	1%	1.5%	2%	3%	4%	5%	6%	7%	8%
		The Probability of Acceptance is:					The Probability of Acceptance is:					The Probability of Ac				
500	0	77.3	59.9	35.8	21.4	12.8	7.6	0.6	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
500	1	97.7	91.4	73.6	55.4	39.8	27.9	3.6	0.2	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
500	2	99.8	98.9	92.4	81.3	67.7	54.1	11.7	0.9	0.2	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
500	3	99.9+	99.9	98.4	94.0	86.2	76.1	25.6	2.9	0.9	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
500	4	99.9+	99.9+	99.7	98.5	95.2	89.7	43.5	6.6	2.5	0.1	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
500	5	100.0	99.9+	99.9+	99.7	98.6	96.3	61.5	12.4	6.1	0.2	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
600	0	73.4	53.9	29.0	15.6	8.4	4.5	0.2	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
600	1	96.9	88.3	66.1	45.6	29.9	19.0	1.5	0.1	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
600	2	99.8	98.2	88.6	73.4	56.7	41.6	5.6	0.3	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
600	3	99.9+	99.9	97.2	89.9	78.4	64.8	14.2	1.0	0.2	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
600	4	99.9+	99.9+	99.5	97.0	91.2	82.2	27.6	2.6	0.6	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
600	5	100.0	99.9+	99.9+	99.4	97.1	92.4	44.1	5.7	1.7	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
700	0	69.5	48.3	23.3	11.3	5.4	2.6	0.1	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
700	1	95.6	84.8	58.5	36.9	21.9	12.6	0.6	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
700	2	99.6	97.1	83.7	64.9	46.1	31.0	2.5	0.1	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
700	3	99.9	99.6	95.1	84.6	69.2	53.3	7.3	0.3	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
700	4	99.9+	99.9	98.7	94.6	85.3	72.9	16.2	0.9	0.1	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-
700	5	100.0	99.9+	99.6	98.5	94.0	86.6	29.0	2.3	0.4	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-	*0.1-

*Less than 0.05%.

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RANDOM NUMBER TABLE

	(01)	(02)	(03)	(04)	(05)	(06)	(07)	(08)	(09)	(10)
(0796)	8644	9867	4366	3095	5570	2477	2043	9804	2764	9260
(0797)	0643	5873	6914	9935	2789	9041	4930	3041	7002	2910
(0798)	7827	1591	3634	4528	0053	3104	3036	9366	3795	6359
(0799)	5756	7772	4649	8500	8411	4974	3392	0734	3714	6227
(0800)	5196	5083	4940	1418	6029	2631	9510	6955	8917	1111
(0801)	3116	1400	5277	8522	2155	6305	8549	8693	5699	9795
(0802)	3137	5970	9837	0026	7407	8780	8063	7477	7329	3495
(0803)	4217	0434	6702	8747	8524	3093	5107	3734	6608	2124
(0804)	0295	7860	1202	7786	8865	3137	3779	8132	0880	4350
(0805)	9299	4686	1880	7537	9438	2071	9576	8590	0983	9663
(0806)	8888	3589	3813	9911	6808	7730	5361	6022	4617	9723
(0807)	1299	3551	5447	9755	4777	1545	5109	6274	9595	6374
(0808)	2380	2854	7563	7040	7324	3512	0747	0099	1276	6490
(0809)	6815	1785	9059	7875	0439	5494	8792	1799	1622	7361
(0810)	3053	2650	7918	6947	3666	3087	4794	8370	4007	5401
(0811)	7257	1315	1105	2874	3074	1833	1738	1365	4286	8386
(0812)	2957	4380	4779	2441	1325	6259	5898	8752	7128	5525
(0813)	5955	0701	0293	6332	7297	1250	5095	5638	5364	2864
(0814)	0190	9213	9307	4453	8318	6934	9277	9636	8068	8426
(0815)	0586	3247	0180	6782	9098	1187	5589	7132	8274	6896
(0816)	1142	6778	3882	4992	0609	9008	2623	1647	7739	2197
(0817)	4549	9224	9583	6316	8879	4913	6421	9186	8918	4245
(0818)	0469	2882	4560	5123	1599	3294	5277	8499	1948	8513
(0819)	1600	0716	3679	4540	6905	0401	5311	2678	2137	9894
(0820)	7519	6867	8359	6636	7603	9126	4313	0724	1195	0162
(0821)	2859	2601	5332	5435	6703	6507	7500	0565	4098	2848
(0822)	4716	9195	0826	9017	1733	2031	0505	6993	5393	2843
(0823)	2313	7496	4246	0255	0927	3130	9764	9965	6047	5607
(0824)	4605	9784	6546	7678	7295	9611	8505	4811	6035	3349
(0825)	8961	1939	8390	1286	2757	0918	6222	9735	3709	2941
(0826)	3925	1915	0612	3367	9544	4905	8853	7399	4043	7354
(0827)	2720	0049	8888	3627	2009	8354	1424	4569	4600	7043
(0828)	9290	9394	2931	8414	2523	0429	9186	3512	8424	9058
(0829)	9991	9094	2421	3651	2947	6690	3936	2836	4942	8911
(0830)	0752	1913	4936	7317	4295	4784	2938	1191	5741	6791
(0831)	0935	2689	3313	9946	2771	4568	4618	3805	2953	7157
(0832)	3259	9945	0670	5434	7616	4247	8844	8336	7541	5893
(0833)	1636	8664	0540	7733	7597	5507	2458	7683	3091	7280
(0834)	0762	2946	7918	1284	0950	1467	3271	4981	6718	1418
(0835)	7084	6247	1959	7163	7296	6455	8518	4910	2177	6372
(0836)	0338	1173	1765	2251	5347	0160	9223	4214	2148	8161
(0837)	9610	1555	7467	2940	5366	6729	7038	0121	4676	8043
(0838)	4172	2269	5296	9347	1493	1348	8642	6586	2664	6357
(0839)	2380	8904	1583	0158	4814	5027	5098	8295	3762	6517
(0840)	8783	4842	0708	1580	5024	6335	9719	8175	0504	8364
(0841)	7948	2813	6930	3545	6834	1132	6308	0099	0532	8813
(0842)	0926	5724	1272	3947	3555	5866	7630	6282	4574	9746
(0843)	0915	9383	6128	8217	2364	7584	4033	4780	0258	2885
(0844)	3860	5962	0074	7075	3611	9242	2792	2182	0840	1003
(0845)	4717	2819	7127	4705	2172	1784	3984	0652	0041	1200

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RANDOM LETTERS OF THE ALPHABET

JHLKI LOWDS	RKDBJ QDQZT	NPOHN XPSIB	ECNFQ QNZKP	ZZATA SMIHB
HZYGJ FXWVM	LPEOT EBXBE	VZGUB BXQLD	TORUC ZMRAY	ETJLJ PGTQM
JLZQY TSUDL	KWRWN VGEWT	EOQIY KPBNT	FYLLK WI IHS	UUGJF JLUSX
PTCCP BFGFO	PLXRT KQACG	FWRMS NGJMT	WXVKI RSJPK	MCPVD MLEJU
EMGKD GHLGQ	LJTTF XDIAZ	GTDCG WEWQH	QLQZL EMIUF	IFDOB MRGBO
CDFDE IHPZ	CQHAT RRSFS	HZDQ XCSKV	KTOYD NEGJU	GPHSA GKQFR
PDIDJ GNGNR	EMDPF FLTED	XBOIR RYVQP	UHNNO TPTET	SXWVF OQZAY
FQMKJ JAKKA	DOARL EDNGV	TWOZY RKMSV	PIOSC VSNBJ	RNPTF RTSWH
RFSTJ CDKVG	SOKQH MJYFS	FUOLL ENMXC	KZPGJ WOKKR	UMFJC OXSQH
WVWB PPWYV	QYEXX NXUAM	UXMLA GXFEE	GBAFI ZQIUK	NZOUY NGGUY
EUKIF PJQUW	GPJIL NLEBY	KRJYV SHRZK	DVQIP IFTHP	HMKEE MSCXN
UEMIW EFBOE	KLZGU QYKBW	GKHIF ZLRWU	QPSPH ZLVGT	GTFYX DAFGJ
CNMZ EYONS	HRIME IIZST	NAMCF CFWUN	BRWGR JWSLZ	YDLZA RHCPX
LUFQH GKSSC	GUDLW RJEZM	EDJQU UNVSY	OTBEA AGLMD	ZGQBH QNQIO
ZHYUF AZLLW	MIPAY BBFDI	DWOSF GXGHM	QYIGI VVBRP	AGOBV FLBGX
JFWXP NAZBJ	MBLYW SSYNM	KWUCR BZAFN	VQPMH YVDOP	HASDI PJOIQ
NSKIR ZURKF	HCTKP QRWIX	SLJHA ZOWIK	MYREJ QSDVR	MLGZK YTUOX
ANUJQ OBMYN	ZPWLN KYXLG	XFCOA XTVMX	UCQTY THTOW	ASEVA GMCPT
PCNFV XRXOG	WPUIE ONHTJ	TMPKE CNJMR	DELBL HZCYL	WUKBO IMDFT
TJNCA KVSFM	NLCWR DGPVT	HBQBI NOUBN	WSDRR UHVMI	KROPD UBTSO
SPMZE CTUKE	SZCRT HMRGM	QCYNH LILTN	BMLAR WVVYU	JOXAS TCKHW
ZNSMW UYCPQ	PIREQ COHRF	GZWUP OEJQH	KPKGX XSQUM	DKTYD OQJVM
NOGJU VRRSU	SVDYK LVFCK	YILFN DOYLF	BQKHV PEZQT	ODTDA MAXON
PWQQS JUYKN	ESYUQ NIUGH	FFVHY SYSUU	BKTOF ZJZDI	OFALF DLZDF
QEMKY TXACZ	HFLPY GOEBJ	VDARG ATVAO	YKVMH YLJTV	SPLDB OUIVI
NYWMA EZZMUC	SJDPH ZHGCK	JPFHE JBMDC	KRNIG GOKYR	NILEL GPHQC
WZTFL QZIJF	XBOCI CHGLI	HGSZE QUHPE	BMGSQ KDLPM	QARMN ERDNU
GKMSB PDZMD	BZXUV WCSRH	QUWXL OLPXD	HBXKA XKAWC	YFPHQ URQNX
GRSEP YBDSF	RXFWR THVEQ	HICTC SWECR	ULQRB RGHK	JWRBJ CBPHC
QQVNE MDOIZ	BMKUC JRUHS	MKFXI RIVIK	MNBDT AZRGA	YLUPO PPWZV
JJTYR ECFW	ICYCK JWEEE	LOPAT IELAA	FFJBP SQLGG	MDIBK WIMDD
OELAF EPPSO	MICRH KEIRP	MNMIV PJYWD	AMJOZ SIDOH	PFWCC QXBEB
SXGQW NJPAI	FEBLY ZDCRP	OFHFO JNEHO	RFOVB ZVSCB	YSYSA TTWZS
AKNSV LERLS	PXLKF LEFYR	SETEC XWBBB	LVSCF XFDGU	QLKND WOEXB
MDHUJ REQUF	XLTNH JQONI	CLZNS YCUTI	JJKYB YWROT	REQTP APELA
VCRBI SEQRJ	DPTBU LBRCM	WLOPX NQJGF	XKZCA QTYFP	GJMEM ZXCIK
ZZSCM TULXY	UHDMF LPLZB	MJHZQ HNRGA	EMMRE JQIND	TUKCD GZOBK
UBTJR SAMVN	DVVUE FWUQW	YBANK KRZDA	IQTUQ OQJAP	KZANP PEHES
YGVRW PYVIP	UNSZSAXBEZ	ZANRI VKISZ	ITCBE EMAPZ	OWQFG BUFBX
KKVXC QEUIZ	SYQBU TZEELC	QQRBD FZNPY	DQJAV WFROI	PQCPD VVNCC
UGEVV RPMQR	AJYTO JNCSD	APEWO LFATY	CEZVN YBYPZ	YLRVI VHUBJ
IJMON ATKWW	PBYCL NLUAD	KBGMK DGAAO	ZPVHQ PPPEZ	UMJNR RJREU
IBGCK QLLXN	ULBFD IIMNU	ZWVLP SWPSP	JUTCK RPKYK	QWRRJ HCMSE
RVUMR INCFN	CCXJN ERXIQ	XPHHN DOLVR	GIUWB GHFFY	FESUV FUULB
AUZJO DRLCD	DPIUP KWCUC	QUFUW SFYCH	MPNND EHQYQ	YMNVR DKJIC
HWJQU EEBLW	CZOCY ANQKA	MIXLR EWVYU	CZBHD BWLNC	XJMYT PFCDV
BOTFC NOSXK	MPEJF PITGE	DXQIO ZGCNN	MPTGE WQDYE	MJMOD ZJOMW
QRCEO KJBIF	ADDJT VDIST	ITNEZ CBDDC	DNEKN YDYLV	XONGS AJDVI
AFWMK KEZBO	CVPXU JFWAX	UQMLL DVAPV	DBEJC DUEIS	SPNSY KCBVV
RDEJI MDOPM	UXXHD USQNY	CZBJL RBAKH	OCVGL UVEMI	UNFOA KUYZE

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RANDOM MONTHS

MAR	SEP	MAR	AUG	SEP	MAR	DEC	AUG	MAY	JAN	APR	JAN	APR	MAY	FEB	JUN	JUL	MAY	MAR	APR
MAY	OCT	SEP	SEP	JUN	APR	MAY	MAY	OCT	APR	JUL	JUL	DEC	DEC	FEB	APR	MAY	SEP	AUG	NOV
DEC	FEB	DEC	SEP	DEC	FEB	JUN	MAY	SEP	DEC	SEP	MAY	MAY	JUL	NOV	APR	JUN	JUN	MAR	MAY
NOV	JUL	MAY	NOV	DEC	FEB	DEC	AUG	JUN	APR	DEC	AUG	MAY	DEC	MAR	SEP	NOV	APR	MAR	MAY
DEC	FEB	JUN	JUL	MAY	OCT	NOV	JAN	NOV	NOV	JUN	JUN	AUG	JUL	DEC	NOV	NOV	APR	SEP	NOV

FEB	MAR	JAN	NOV	NOV	APR	JAN	JUN	JAN	OCT	FEB	NOV	MAY	MAR	JUL	NOV	AUG	DEC	NOV	DEC
DEC	DEC	FEB	MAR	MAY	JUN	MAY	FEB	FEB	FEB	FEB	JAN	SEP	MAY	OCT	NOV	JUL	MAY	JAN	JAN
NOV	JAN	NOV	DEC	JAN	JUN	JUL	OCT	JUL	JUN	NOV	JUL	JUL	SEP	APR	DEC	MAY	MAR	DEC	OCT
AUG	SEP	APR	SEP	SEP	OCT	DEC	SEP	AUG	NOV	FEB	DEC	JUL	JUN	APR	DEC	JAN	SEP	SEP	JUN
AUG	OCT	OCT	AUG	OCT	JAN	JUL	MAR	JUL	MAR	FEB	OCT	DEC	FEB	JUL	JUL	JUL	MAY	OCT	DEC

NOV	JUL	MAR	APR	OCT	JAN	APR	JUN	JUN	JUN	AUG	SEP	AUG	FEB	APR	NOV	AUG	JUL	MAY	FEB
JUN	APR	FEB	SEP	MAR	APR	MAY	SEP	MAY	SEP	JUL	FEB	MAR	OCT	APR	JAN	AUG	DEC	OCT	JUL
MAR	DEC	NOV	FEB	MAR	AUG	APR	AUG	FEB	JUL	JAN	MAY	JUL	FEB	AUG	AUG	DEC	SEP	NOV	JUL
JUN	NOV	JAN	SEP	NOV	SEP	JUL	JUL	MAR	OCT	JUN	SEP	JAN	APR	NOV	APR	MAY	AUG	MAR	NOV
FEB	MAY	AUG	OCT	JUL	FEB	JAN	JAN	NOV	APR	MAY	OCT	AUG	MAR	SEP	OCT	MAR	AUG	JUN	APR

MAR	NOV	FEB	MAR	JUL	DEC	FEB	JAN	JAN	JUN	JUN	JAN	APR	JUL	JUN	JUN	APR	SEP	JUL	MAY
NOV	DEC	AUG	AUG	SEP	OCT	AUG	FEB	OCT	MAR	AUG	JUN	SEP	JAN	NOV	JAN	JUL	MAR	SEP	MAY
AUG	JAN	MAY	JUN	FEB	OCT	AUG	AUG	MAR	FEB	FEB	MAR	MAY	JAN	FEB	JUL	FEB	JUN	APR	JUN
JAN	MAR	AUG	OCT	OCT	JUN	AUG	NOV	APR	AUG	MAY	MAY	APR	JAN	JUL	AUG	JAN	JUL	FEB	AUG
MAY	FEB	SEP	AUG	MAY	APR	SEP	MAR	NOV	JUN	JAN	SEP	NOV	JUL	MAR	JUL	JUN	OCT	FEB	APR

JAN	OCT	JAN	JAN	DEC	FEB	AUG	DEC	JUL	OCT	FEB	MAR	DEC	AUG	NOV	OCT	DEC	MAY	JUN	AUG
NOV	AUG	SEP	MAY	AUG	MAR	APR	OCT	APR	OCT	SEP	OCT	AUG	DEC	NOV	SEP	AUG	JUL	AUG	FEB
APR	AUG	NOV	SEP	JUN	FEB	JUL	NOV	MAR	SEP	APR	DEC	JAN	MAR	MAR	OCT	JAN	JUL	NOV	MAR
FEB	APR	DEC	AUG	DEC	JUL	FEB	AUG	OCT	DEC	DEC	AUG	JAN	MAR	AUG	OCT	MAR	JAN	SEP	MAY
AUG	JAN	DEC	MAY	APR	JUL	APR	FEB	AUG	MAR	JUN	FEB	MAR	APR	NOV	JUN	OCT	SEP	MAY	OCT

JUN	FEB	DEC	JUL	DEC	DEC	JUL	FEB	NOV	OCT	APR	MAY	APR	SEP	OCT	JAN	AUG	JUN	FEB	FEB
JAN	NOV	SEP	MAY	APR	SEP	NOV	NOV	AUG	SEP	AUG	SEP	APR	JUN	AUG	MAR	NOV	JAN	AUG	OCT
OCT	JAN	APR	AUG	APR	OCT	MAR	APR	APR	MAR	NOV	MAR	OCT	JUL	FEB	NOV	APR	APR	JUL	FEB
NOV	MAY	JUN	APR	OCT	JUN	APR	MAR	APR	JAN	MAY	JAN	NOV	SEP	SEP	SEP	MAY	FEB	MAR	JUL
FEB	MAY	JAN	AUG	AUG	MAR	MAY	MAY	SEP	DEC	JUN	FEB	MAY	SEP	DEC	OCT	DEC	MAY	JAN	APR

MAR	JUL	OCT	DEC	DEC	NOV	NOV	AUG	OCT	NOV	AUG	MAR	APR	APR	SEP	FEB	JAN	JAN	JUL	AUG
JAN	AUG	MAR	JUL	MAR	MAY	AUG	JUN	MAY	OCT	AUG	NOV	OCT	NOV	JUL	NOV	MAY	AUG	NOV	MAY
FEB	DEC	JUN	DEC	NOV	AUG	AUG	JAN	SEP	MAY	JAN	OCT	JAN	SEP	OCT	JUL	OCT	JAN	MAR	MAR
MAY	JUL	FEB	NOV	MAY	APR	FEB	MAY	JAN	APR	MAY	SEP	FEB	FEB	OCT	DEC	APR	JAN	JUN	SEP
FEB	JUL	SEP	NOV	JAN	AUG	JAN	OCT	DEC	AUG	SEP	AUG	JAN	JUN	JUL	NOV	DEC	APR	DEC	JUL

NOV	SEP	APR	MAR	MAY	APR	JUN	AUG	APR	AUG	SEP	OCT	JAN	APR	NOV	OCT	MAR	AUG	MAR	NOV
NOV	MAY	MAY	JUN	JAN	JUN	APR	SEP	FEB	APR	OCT	MAY	JAN	JUN	OCT	OCT	DEC	AUG	SEP	MAR
OCT	OCT	JAN	FEB	MAY	AUG	MAY	JUL	APR	JUL	NOV	JAN	FEB	MAR	OCT	JUN	MAR	MAR	JUN	MAR
FEB	DEC	JUL	JUN	APR	FEB	JUN	APR	SEP	AUG	JUL	NOV	NOV	JAN	MAR	JAN	AUG	JUN	JUN	DEC
JUL	APR	DEC	MAR	FEB	JUL	MAR	MAY	AUG	JUN	JUL	MAR	JUN	APR	JUL	AUG	NOV	DEC	MAY	JUN

SEP	JUL	JAN	FEB	NOV	AUG	NOV	APR	NOV	AUG	JAN	JUN	JUN	NOV	OCT	JUN	APR	AUG	FEB	JUN
SEP	SEP	APR	SEP	JUL	JAN	FEB	MAR	MAY	JUN	FEB	JUN	DEC	JAN	NOV	DEC	MAR	JAN	JUL	AUG
JUN	MAR	JAN	MAR	NOV	MAY	AUG	SEP	JUN	MAY	FEB	SEP	MAR	JUN	DEC	JUL	JUN	NOV	FEB	JAN
MAY	NOV	JAN	SEP	MAR	NOV	APR	NOV	APR	AUG	MAR	JAN	SEP	JUL	JUN	SEP	JAN	FEB	APR	MAR
NOV	JUL	OCT	DEC	AUG	NOV	FEB	NOV	MAR	APR	APR	NOV	JAN	SEP	AUG	APR	SEP	SEP	MAY	DEC

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TABLE FOR ESTIMATING SAMPLE SIZE-ATTRIBUTES

Sample Sizes for Sampling Attributes for Random Samples
 Only—Expected Rate of Occurrence Not over 2% or Expected Rate of Occurrence Not Less than 98%. Confidence Level 95% (Two-sided)

Population Size	Sample Size for Precision of:					
	$\pm 5\%$	$\pm 7.5\%$	$\pm 1\%$	$\pm 1.25\%$	$\pm 1.5\%$	$\pm 2\%$
2,000		802	547	389	287	173
2,100		818	554	392	289	173
2,200		833	561	396	291	174
2,300		847	568	399	293	174
2,400		860	574	402	294	175
2,500		872	579	405	296	176
2,600			584	407	297	176
2,700		895	589	409	298	176
2,800		906	594	412	299	177
2,900		916	598	414	301	177
3,000		925	602	416	302	178
3,100	1528	935	606	418	303	178
3,200	1551	944	610	419	303	178
3,300	1575	953	614	421	304	179
3,400	1597	961	617	423	305	179
3,500	1619	969	620	424	306	179
3,600	1640	976	623	426	307	179
3,700	1661	983	626	427	307	180
3,800	1681	990	629	428	308	180
3,900	1700	997	632	429	309	180
4,000	1719	1003	634	431	309	180
4,100	1737	1010	637	432	310	180
4,200	1754	1016	639	433	310	181
4,300	1772	1021	641	434	311	181
4,400	1789	1027	643	435	311	181
4,500	1805	1032	645	436	312	181
4,600	1821	1037	648	437	312	181
4,700	1836	1042	649	438	313	181
4,800	1851	1047	651	438	313	182
4,900	1866	1052	653	439	314	182
5,000	1880	1056	654	440	314	182
5,500	1947	1077	663	444	316	183
6,000	2006	1095	669	447	317	183
6,500	2059	1110	675	449	319	183
7,000	2106	1124	680	451	320	184
7,500	2149	1136	685	453	320	184
8,000	2189	1147	688	455	322	184
8,500	2224	1157	692	457	322	185
9,000	2257	1166	695	458	323	185
9,500	2287	1174	698	459	324	185
10,000	2315	1181	700	460	324	185
10,500	2341	1188	703	461	325	185
11,000	2365	1194	705	462	325	186
11,500	2387	1200	707	463	326	186
12,000	2408	1205	709	464	326	186
12,500	2428	1210	711	465	326	186
13,000	2446	1214	712	465	327	186
13,500	2463	1218	714	466	327	186
14,000	2479	1222	715	466	327	186
14,500	2495	1226	716	467	328	186
15,000	2509	1229	717	467	328	186
15,500	2522	1232	719	468	328	186
16,000	2548	1239	721	469	328	187
17,000	2570	1244	722	469	329	187
18,000	2591	1251	724	470	329	187
19,000	2609	1253	725	471	329	187
20,000	2619	1255	726	471	330	187
22,000	2650	1262	729	472	330	187
24,000	2676	1268	731	473	331	187
25,000	2711	1271	731	473	331	187
26,000	2699	1274	732	474	331	187
28,000	2720	1278	734	474	331	187
30,000	2738	1282	735	475	331	188
32,000	2753	1285	736	475	332	188
34,000	2768	1288	737	476	332	188
36,000	2780	1291	738	476	332	188

Samples Sizes for Sampling Attributes for Random Samples
Only—Expected Rate of Occurrence Not over 5% or Expected Rate of Occurrence Not Less than 95%. Confidence Level 90% (Two-sided).

Population Size	Sample Size for Precision of:						
	$\pm .5\%$	$\pm 1\%$	$\pm 1.5\%$	$\pm 2\%$	$\pm 2.5\%$	$\pm 3\%$	$\pm 4\%$
150						74	53
200					102	84	58
250					113	91	61
300				156	123	97	64
350				168	130	102	66
400				179	136	106	67
450				188	142	109	69
500				196	146	112	70
550				203	150	114	71
600				210	154	116	71
650			305	216	157	118	72
700			315	221	160	119	73
750			325	225	162	120	73
800			334	230	164	122	74
850			342	234	166	123	74
900			350	237	168	124	74
950			357	241	170	125	75
1,000			364	244	171	125	75
1,050			370	247	172	126	75
1,100			377	249	172	127	75
1,200		621	388	254	176	128	76
1,300		647	397	257	178	129	76
1,400		671	406	262	180	130	76
1,500		693	414	265	181	131	77
1,600		713	421	268	183	132	77
1,700		732	428	271	184	132	77
1,800		750	434	273	185	133	77
1,900		767	440	275	186	133	78
2,000		783	445	277	187	134	78
2,100		798	450	279	188	134	78
2,200		812	454	281	189	135	78
2,300		825	458	282	189	135	78
2,400		838	462	284	190	135	78
2,500		849	466	285	191	136	78
2,700		871	472	288	192	136	79
2,900		891	478	290	193	137	79
3,100		909	483	292	193	137	79
3,300		926	487	293	194	137	79
3,500		941	492	295	195	138	79
3,700		954	495	296	195	138	79
3,900		967	499	297	196	138	79
4,050		976	501	298	196	138	79
4,100		979	502	298	196	139	79
4,400		995	506	300	197	139	79
4,700		1010	510	301	198	139	79
5,000	2535	1023	513	302	198	139	80
5,500	2658	1042	518	304	199	140	80
6,000	2769	1059	522	306	199	140	80
6,500	2871	1074	526	307	200	140	80
7,000	2965	1086	529	308	200	140	80
7,500	3051	1098	531	309	201	141	80
8,000	3130	1107	534	310	201	141	80
8,500	3204	1117	536	310	201	141	80
9,000	3272	1126	538	311	202	141	80
10,000	3396	1139	541	312	202	141	80
10,500	3452	1146	542	312	202	141	80
11,500	3553	1157	545	313	203	142	80
13,000	3685	1170	548	314	203	142	80
14,500	3796	1181	550	315	203	142	80
15,000	3830	1184	551	315	203	142	80
16,500	3920	1193	553	316	204	142	80
19,000	4047	1204	555	316	204	142	80
20,000	4091	1208	556	317	204	142	81
22,000	4168	1215	557	317	204	142	81
26,000	4293	1225	559	318	205	143	81
30,000	4390	1233	561	318	205	143	81
32,000	4430	1236	562	319	205	143	81
40,000	4556	1246	564	319	205	143	81
41,000	4569	1247	564	319	205	143	81

Sample Sizes for Sampling Attributes for Random Samples
Only—Expected Rate of Occurrence Not over 5% or Expected Rate of Occurrence Not Less than 95%. Confidence Level 95% (Two-sided)

Population Size	Sample Size for Precision of:						
	$\pm 5\%$	$\pm 1\%$	$\pm 1.5\%$	$\pm 2\%$	$\pm 2.5\%$	$\pm 3\%$	$\pm 4\%$
500				239	185	144	93
550				250	191	148	95
600				259	197	152	96
650				268	202	155	97
700				276	207	157	98
750				284	211	160	99
800				291	214	162	100
850			416	297	218	164	101
900			427	303	221	166	101
950			438	308	224	167	102
1,000			448	314	226	169	102
1,100			467	323	231	171	103
1,200			484	331	235	174	104
1,300			500	338	239	176	105
1,400			514	344	242	177	106
1,500			527	350	245	179	106
1,600			539	355	247	180	107
1,700			550	360	250	181	107
1,750			555	362	251	182	107
1,800		907	560	364	252	182	107
1,850		919	564	366	253	183	107
1,900		931	569	368	254	183	108
1,950		943	573	370	254	184	108
2,000		954	578	372	255	184	108
2,100		977	586	375	257	185	108
2,200		998	593	378	258	186	108
2,300		1018	600	381	260	186	109
2,400		1037	607	384	261	187	109
2,500		1055	613	386	262	188	109
2,600		1073	619	388	263	188	109
2,700		1089	624	390	264	189	109
2,800		1105	629	392	265	189	110
2,900		1120	634	394	266	190	110
3,000		1135	639	396	267	190	110
3,100		1149	643	398	267	190	110
3,300		1175	652	401	269	191	110
3,500		1200	659	404	270	192	110
3,700		1222	666	406	271	192	111
3,900		1243	672	409	272	193	111
10,000	4220	1543	751	436	284	199	113
10,500	4306	1555	753	437	285	199	113
11,500	4465	1575	758	439	285	199	113
13,000	4675	1600	764	441	286	200	113
14,500	4856	1621	769	442	287	200	113
15,000	4851	1627	770	443	287	200	113
16,500	5061	1643	774	443	287	200	113
19,000	5274	1665	778	446	288	201	113
20,000	5348	1672	780	446	288	201	113
22,000	5482	1685	783	447	289	201	113
24,000	5595	1696	785	448	289	201	114
26,000	5699	1705	787	448	289	201	114
28,000	5790	1713	789	449	289	201	114
30,000	5871	1720	790	449	290	201	114
32,000	5944	1727	791	450	290	202	114
34,000	6010	1732	793	450	290	202	114
36,000	6069	1737	794	451	290	202	114
38,000	6123	1741	795	451	290	202	114
40,000	6173	1745	795	451	290	202	114
45,000	6282	1754	797	452	291	202	114
50,000	6370	1761	799	452	291	202	114
60,000	6508	1771	801	453	291	202	114
70,000	6610	1779	802	453	291	202	114
80,000	6689	1784	803	454	291	202	114
90,000	6752	1789	804	454	291	202	114
100,000	6803	1792	805	454	292	202	114
150,000	6961	1803	807	455	292	203	114
200,000	7043	1809	809	455	292	203	114
250,000	7092	1812	809	455	292	203	114
300,000	7126	1814	809	456	292	203	114
400,000	7169	1817	810	456	292	203	114
500,000	7196	1818	810	456	292	203	114

ภาคผนวก ข.

ESTIMATING SAMPLE SIZE—VARIABLES

Sample Sizes for Estimating Average Values (Variables) for Random Samples Only

Ratio of Sampling Error to Standard Deviation (Sampling Error/Standard Deviation)	Sample Size Required with Confidence Levels (Two-sided) of			
	90%	95%	99%	99.9%
Field Size is 500				
.09	200	244	-	-
.10	176	217	-	-
.11	155	195	-	-
.12	137	174	241	-
.13	121	157	221	-
.14	108	141	203	-
.15	97	127	187	246
.16	88	118	172	230
.17	79	106	158	215
.18	72	96	146	201
.19	65	88	135	189
.20	60	81	125	176
.21	55	75	116	166
.22	51	69	108	156
.23	47	64	101	146
.24	43	59	94	138
.25	40	55	88	129
.30	-	-	64	97
.35	-	-	50	76
.40	-	-	-	60
Field Size is 1,000				
.07	356	440	-	-
.08	297	376	-	-
.09	250	322	452	-
.10	213	278	400	-
.11	183	241	335	474
.12	158	211	317	431
.13	138	186	283	392
.14	121	164	254	358
.15	107	146	228	326
.16	96	131	209	299
.17	86	118	188	274
.18	78	106	171	252
.19	70	97	156	232
.20	64	88	143	214
.21	58	81	132	199
.22	53	74	121	184
.23	49	68	112	171
.24	45	63	104	160
.25	42	58	96	148
.30	-	41	69	108
.35	-	-	52	82
.40	-	-	40	64
Field Size is 2,000				
.04	916	-	-	-
.05	695	869	-	-
.06	546	696	961	-
.07	433	564	809	-
.08	349	462	685	920
.09	286	384	583	804
.10	238	322	500	705
.11	201	274	432	621
.12	172	235	376	549
.13	148	205	330	488
.14	129	179	291	435
.15	113	157	258	390
.16	101	140	231	351
.17	90	125	207	318
.18	81	112	187	288
.19	73	102	169	263
.20	66	92	154	240
.21	60	84	141	220
.22	55	77	129	203
.23	50	71	119	187
.24	46	65	110	173
.25	43	60	101	160
.30	-	42	71	114
.35	-	-	53	86
.40	-	-	41	66
Field Size is 2,500				
.04	1009	1225	-	-
.05	755	952	-	-
.06	587	748	1063	-
.07	452	597	881	1177

Sample Sizes for Estimating Average Values (Variables) for Random Samples Only

Ratio of Sampling Error to Standard Deviation (Sampling Error/Standard Deviation)	Sample Size Required with Confidence Levels (Two-sided) of			
	<u>90%</u>	<u>95%</u>	<u>99%</u>	<u>99.9%</u>
	Field Size is 3,000 (Con't.)			
.11	208	288	465	693
.12	177	245	401	604
.13	152	212	349	531
.14	132	184	306	469
.15	116	162	269	417
.16	103	143	240	373
.17	91	128	214	335
.18	82	115	193	303
.19	74	103	174	275
.20	66	93	158	250
.21	61	85	144	229
.22	56	78	132	210
.23	51	71	122	193
.24	47	66	112	178
.25	43	60	103	165
.30		42	72	116
.35			54	87
.40			42	67
Field Size is 4,000				
.03	1716	-	-	-
.04	1189	1500	-	-
.05	852	1110	1598	-
.06	633	843	1265	1723
.07	485	656	1015	1429
.08	382	522	826	1194
.09	308	424	682	1007
.10	253	351	571	856
.11	212	295	484	735
.12	179	251	413	637
.13	154	216	359	555
.14	133	187	314	488
.15	117	164	275	432
.16	103	145	245	385
.17	92	129	218	345
.18	82	116	196	311
.19	74	104	177	281
.20	67	94	160	255
.21	61	86	146	233
.22	56	78	133	214
.23	51	72	123	196
.24	47	66	113	181
.25	43	61	104	167
.30	-	42	73	117
.35	-	-	54	87
.40	-	-	42	67
Field Size is 5,000				
.03	1878	2303	-	-
.04	1264	1622	2271	-
.05	890	1175	1737	2328
.06	653	880	1350	1885
.07	497	678	1069	1539
.08	390	536	861	1270
.09	313	434	706	1060
.10	257	357	588	894
.11	214	299	496	763
.12	181	254	424	657
.13	155	218	366	571
.14	134	189	319	501
.15	117	165	279	441
.16	104	146	248	393
.17	92	130	221	351
.18	83	116	198	315
.19	74	105	178	285
.20	67	94	161	258
.21	61	86	147	236
.22	56	79	134	216
.23	51	72	124	198
.24	47	66	113	183
.25	43	61	105	169
.30		42	73	118
.35			54	88
.40			42	68

ภาคผนวก ข.

SAMPLE RELIABILITY FOR RELATIVE FREQUENCIES

Sample Precision for Relative Frequencies for Random Samples Only—Rate of Occurrence in Sample 0%

And Sample Size is:	For Field Size of:						
	500 Upper Limit	1,000 Upper Limit	1,500 Upper Limit	2,000 Upper Limit	10,000 Upper Limit	50,000 Upper Limit	100,000 and over Upper Limit
Confidence Level 95%							
30	9.2%	9.4%	9.4%	9.4%	9.5%	9.5%	9.5%
40	6.9	7.1	7.1	7.1	7.2	7.2	7.2
50	5.5	5.7	5.7	5.7	5.8	5.8	5.8
60	4.6	4.7	4.8	4.8	4.9	4.9	4.9
70	3.9	4.0	4.1	4.1	4.2	4.2	4.2
80	3.4	3.5	3.6	3.6	3.7	3.7	3.7
90	3.0	3.1	3.2	3.2	3.3	3.3	3.3
100	2.6	2.8	2.9	2.9	2.9	3.0	3.0
150	1.7	1.8	1.9	1.9	2.0	2.0	2.0
200	1.2	1.3	1.4	1.4	1.5	1.5	1.5
300		.8	.9	.9	1.0	1.0	1.0
400		.6	.6	.7	.7	.7	.8
500			.5	.5	.6	.6	.6
1,000					.3	.3	.3
2,000					.2	.2	.2

And Sample Size is:	For Field Size of:						
	500 Upper Limit	1,000 Upper Limit	1,500 Upper Limit	2,000 Upper Limit	10,000 Upper Limit	50,000 Upper Limit	100,000 and over Upper Limit
Confidence Level 99%							
30	13.8%	14.0%	14.1%	14.1%	14.2%	14.2%	14.2%
40	10.4	10.7	10.7	10.8	10.8	10.9	10.9
50	8.4	8.6	8.7	8.7	8.8	8.8	8.8
60	6.9	7.2	7.2	7.3	7.4	7.4	7.4
70	5.9	6.1	6.2	6.3	6.3	6.4	6.4
80	5.1	5.4	5.4	5.5	5.6	5.6	5.6
90	4.5	4.8	4.8	4.9	5.0	5.0	5.0
100	4.0	4.3	4.4	4.4	4.5	4.5	4.5
150	2.5	2.8	2.9	2.9	3.0	3.0	3.0
200	1.8	2.0	2.1	2.2	2.3	2.3	2.3
300		1.3	1.4	1.4	1.5	1.5	1.5
400		.9	1.0	1.0	1.1	1.1	1.1
500			.8	.8	.9	.9	.9
1,000					.4	.5	.5
2,000					.2	.2	.2

Sample Precision for Relative Frequencies for Random Samples Only—Rate of Occurrence in Sample 1%

And Sample Size is:	500		1,000		For Field Size of: 1,500		2,000		10,000		50,000		100,000 and over	
	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit
Confidence Level 95% (Two-sided) Confidence Level 97.5% (One-sided)														
100	.2%	5.0%	.1%	5.2%	.1%	5.3%	.1%	5.3%	.0*	5.4%	.0*	5.5%	.0*	5.5%
120	.2	4.3	.1	4.6	.1	4.7	.1	4.7	.1	4.8	.1	4.8	.1	4.9
140	.2	3.9	.2	4.2	.1	4.3	.1	4.3	.1	4.4	.1	4.4	.1	4.4
150	.2	3.7	.2	4.0	.1	4.0	.1	4.1	.1	4.2	.1	4.2	.1	4.3
160	.3	3.5	.2	3.8	.1	3.9	.1	4.0	.1	4.1	.1	4.1	.1	4.1
180	.3	3.3	.2	3.6	.2	3.6	.2	3.7	.1	3.8	.1	3.8	.1	3.8
200	.4	3.0	.2	3.3	.2	3.4	.2	3.4	.1	3.5	.1	3.6	.1	3.6
250	.4	2.6	.3	3.0	.3	3.1	.2	3.1	.2	3.3	.2	3.3	.2	3.3
300			.3	2.6	.3	2.7	.3	2.8	.2	2.9	.2	2.9	.2	2.9
400			.4	2.2	.4	2.3	.4	2.4	.3	2.5	.3	2.5	.3	2.4
500					.5	2.1	.4	2.1	.3	2.3	.3	2.3	.3	2.3
600					.5	1.9	.5	1.9	.4	2.1	.4	2.2	.4	2.2
700					.6	1.8	.6	1.8	.4	2.1	.4	2.1	.4	2.1
800									.5	1.9	.4	2.0	.4	2.0
900									.5	1.9	.5	1.9	.5	1.9
1,000									.5	1.8	.5	1.8	.5	1.8
1,500									.6	1.6	.6	1.6	.6	1.6
2,000									.7	1.5	.6	1.5	.6	1.5
3,000									.7	1.4	.7	1.4	.7	1.4

*Less than 0.05%.

And Sample Size is:	500		1,000		For Field Size of: 1,500		2,000		10,000		50,000		100,000 and over	
	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit
Confidence Level 99% (Two-sided) Confidence Level 99.5% (One-sided)														
100	.1%	6.6%	.1%	6.9%	.0*	7.0%	.0*	7.1%	.0*	7.2%	.0*	7.2%	.0*	7.2%
120	.1	5.6	.1	6.0	.1	6.1	.0*	6.2	.0*	6.3	.0*	6.3	.0*	6.3
140	.2	5.0	.1	5.4	.1	5.5	.1	5.6	.0*	5.7	.0*	5.8	.0*	5.8
150	.2	4.7	.1	5.1	.1	5.2	.1	5.3	.0*	5.4	.0*	5.4	.0*	5.5
160	.2	4.5	.1	4.9	.1	5.0	.1	5.1	.0*	5.2	.0*	5.3	.0*	5.3
180	.2	4.2	.1	4.6	.1	4.7	.1	4.8	.1	4.9	.1	4.9	.1	5.0
200	.3	3.8	.2	4.2	.1	4.3	.1	4.4	.1	4.5	.1	4.5	.1	4.6
250	.4	3.2	.2	3.7	.2	3.9	.1	3.9	.1	4.1	.1	4.1	.1	4.2
300			.3	3.2	.2	3.3	.2	3.4	.1	3.6	.1	3.6	.1	3.6
400			.4	2.6	.3	2.8	.3	2.9	.2	3.1	.2	3.1	.2	3.1
500					.4	2.5	.3	2.6	.2	2.8	.2	2.8	.2	2.8
600					.4	2.2	.4	2.3	.3	2.5	.3	2.6	.3	2.6
700					.5	2.0	.4	2.2	.3	2.4	.3	2.4	.3	2.4
800							.5	2.0	.4	2.3	.3	2.3	.3	2.3
900							.5	1.9	.4	2.2	.3	2.2	.3	2.2
1,000									.4	2.1	.4	2.1	.4	2.1
1,500									.5	1.8	.5	1.9	.5	1.9
2,000									.6	1.7	.5	1.7	.5	1.7
3,000									.7	1.5	.6	1.6	.6	1.6

*Less than 0.05%.

Sample Precision for Relative Frequencies for Random Samples Only—Rate of Occurrence in Sample 2%

And Sample Size is:	500		1,000		1,500		2,000		10,000		50,000		100,000 and over	
	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit
Confidence Level 90% (Two-sided)														
Confidence Level 95% (One-sided)														
50	.2%	8.9%	.2%	9.1%	.1%	9.1%	.1%	9.2%	.1%	9.3%	.1%	9.3%	.1%	9.3%
80	.4	6.6	.4	6.8	.3	6.9	.3	6.9	.3	7.0	.3	7.0	.3	7.0
90	.5	6.1	.4	6.4	.4	6.4	.4	6.5	.3	6.6	.3	6.6	.3	6.6
100	.5	5.8	.4	6.0	.4	6.1	.4	6.1	.4	6.2	.4	6.2	.4	6.2
120	.7	5.2	.6	5.5	.5	5.5	.5	5.6	.5	5.7	.5	5.7	.5	5.7
140	.8	4.8	.6	5.1	.6	5.2	.6	5.2	.5	5.3	.5	5.3	.5	5.3
150	.8	4.6	.7	4.9	.6	5.0	.6	5.0	.6	5.1	.6	5.1	.6	5.1
160	.8	4.5	.7	4.8	.7	4.9	.7	4.9	.6	5.0	.6	5.0	.6	5.1
180	.9	4.3	.8	4.6	.8	4.7	.7	4.7	.7	4.8	.7	4.8	.7	4.8
200	1.0	4.0	.8	4.3	.8	4.4	.8	4.4	.7	4.5	.7	4.5	.7	4.6
250	1.2	3.7	1.0	4.0	.9	4.1	.9	4.2	.9	4.3	.9	4.3	.8	4.3
300			1.2	3.5	1.1	3.7	1.1	3.7	1.0	3.8	1.0	3.8	1.0	3.8
400			1.3	3.2	1.3	3.3	1.2	3.4	1.1	3.5	1.1	3.5	1.1	3.5
500			1.4	2.9	1.4	3.1	1.3	3.2	1.2	3.3	1.2	3.3	1.2	3.3
600					1.4	2.9	1.4	3.0	1.3	3.1	1.3	3.2	1.3	3.2
700					1.5	2.8	1.4	2.9	1.3	3.0	1.3	3.1	1.3	3.1
800							1.5	2.8	1.4	2.9	1.4	3.0	1.3	3.0
900							1.5	2.7	1.4	2.9	1.4	2.9	1.4	2.9
1,000							1.6	2.6	1.4	2.8	1.4	2.8	1.4	2.8
1,500									1.5	2.6	1.5	2.7	1.5	2.7
2,000									1.6	2.5	1.6	2.6	1.6	2.6
3,000									1.7	2.4	1.7	2.4	1.6	2.4

And Sample Size is:	500		1,000		1,500		2,000		10,000		50,000		100,000 and over	
	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit
Confidence Level 95% (Two-sided)														
Confidence Level 97.5% (One-sided)														
50	.2%	10.2%	.1%	10.4%	.1%	10.5%	.1%	10.6%	.1%	10.6%	.1%	10.7%	.1%	10.7%
80	.3	7.5	.3	7.7	.2	7.8	.2	7.8	.2	7.9	.2	8.0	.2	8.0
90	.4	6.9	.3	7.2	.3	7.3	.3	7.3	.2	7.4	.2	7.4	.2	7.4
100	.4	6.5	.3	6.8	.3	6.9	.3	6.9	.3	7.0	.2	7.0	.2	7.0
120	.5	5.8	.4	6.1	.4	6.2	.4	6.3	.3	6.4	.3	6.4	.3	6.4
140	.6	5.4	.5	5.7	.5	5.8	.4	5.8	.4	6.0	.4	6.0	.4	6.0
150	.7	5.1	.5	5.4	.5	5.5	.5	5.6	.4	5.7	.4	5.7	.4	5.7
160	.7	5.0	.6	5.3	.5	5.4	.5	5.5	.5	5.6	.5	5.6	.5	5.6
180	.8	4.7	.7	5.1	.6	5.1	.6	5.2	.5	5.3	.5	5.4	.5	5.4
200	.9	4.4	.7	4.7	.7	4.8	.6	4.9	.6	5.0	.6	5.0	.6	5.0
250	1.1	4.0	.9	4.4	.8	4.5	.8	4.6	.7	4.8	.7	4.8	.7	4.8
300			1.1	3.8	1.0	4.0	1.0	4.0	.9	4.2	.9	4.2	.9	4.2
400			1.2	3.4	1.1	3.5	1.1	3.6	1.0	3.8	1.0	3.8	1.0	3.8
500					1.2	3.3	1.2	3.4	1.1	3.5	1.1	3.6	1.1	3.6
600					1.3	3.1	1.3	3.2	1.2	3.3	1.1	3.4	1.1	3.4
700					1.4	2.9	1.3	3.0	1.2	3.2	1.2	3.3	1.2	3.3
800							1.4	2.9	1.3	3.1	1.2	3.2	1.2	3.2
900							1.5	2.8	1.3	3.0	1.3	3.1	1.3	3.1
1,000									1.3	3.0	1.3	3.0	1.3	3.0
1,500									1.5	2.7	1.5	2.8	1.5	2.8
2,000									1.5	2.6	1.5	2.7	1.5	2.7
3,000									1.6	2.4	1.6	2.5	1.6	2.5

Sample Precision for Relative Frequencies for Random Samples Only—Rate of Occurrence in Sample 2%

And Sample Size is:	500		1,000		For Field Size of: 1,500		2,000		10,000		50,000		100,000 and over	
	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit
Confidence Level 99% (Two-sided) ✓ Confidence Level 99.5% (One-sided)														
50	.2%	13.4%	.1%	13.7%	.0*	13.8%	.0*	13.8%	.0*	14.0%	.0*	14.0%	.0*	14.0%
80	.2	9.5	.1	9.9	.1	10.0	.1	10.1	.1	10.2	.1	10.2	.1	10.2
90	.3	8.8	.2	9.2	.2	9.3	.1	9.3	.1	9.5	.1	9.5	.1	9.5
100	.4	8.2	.2	8.6	.2	8.7	.2	8.8	.1	8.9	.1	8.9	.1	8.9
120	.4	7.3	.3	7.7	.2	7.8	.2	7.9	.2	8.0	.2	8.0	.2	8.0
140	.5	6.6	.3	7.1	.3	7.2	.3	7.3	.2	7.4	.2	7.5	.2	7.5
150	.6	6.3	.4	6.7	.3	6.9	.3	6.9	.2	7.1	.2	7.1	.2	7.1
160	.6	6.1	.4	6.6	.4	6.7	.3	6.8	.3	7.0	.3	7.0	.3	7.0
180	.6	5.7	.5	6.2	.4	6.3	.4	6.4	.3	6.6	.3	6.6	.3	6.6
200 ✓	.8	5.2	.5	5.7	.5	5.9	.4	6.0	.4	6.1	.3	6.2	.3	6.2
250	.9	4.7	.7	5.3	.6	5.5	.6	5.5	.5	5.7	.5	5.8	.5	5.8
300			.9	4.5	.8	4.7	.8	4.8	.7	5.0	.7	5.0	.7	5.0
400			1.1	3.9	1.0	4.1	.9	4.2	.8	4.4	.8	4.4	.8	4.4
500					1.1	3.7	1.0	3.8	.9	4.1	.9	4.1	.9	4.1
600					1.2	3.5	1.1	3.6	1.0	3.8	.9	3.8	.9	3.8
700					1.3	3.2	1.2	3.4	1.0	3.6	1.0	3.7	1.0	3.7
800							1.3	3.2	1.1	3.5	1.1	3.5	1.0	3.5
900							1.3	3.1	1.1	3.4	1.1	3.4	1.1	3.5
1,000									1.2	3.3	1.1	3.4	1.1	3.4
1,500									1.3	3.0	1.3	3.0	1.3	3.1
2,000									1.4	2.8	1.4	2.9	1.4	2.9
3,000									1.4	2.7	1.4	2.8	1.4	2.8

*Less than 0.05%.

And Sample Size is:	500		1,000		For Field Size of: 1,500		2,000		10,000		50,000		100,000 and over	
	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit
Confidence Level 90% (Two-sided) Confidence Level 95% (One-sided)														
80	.9%	8.0%	.8%	8.2%	.7%	8.3%	.7%	8.3%	.7%	8.4%	.7%	8.4%	.7%	8.4%
90	1.0	7.5	.9	7.8	.8	7.8	.8	7.9	.8	8.0	.8	8.0	.8	8.0
100	1.0	7.2	.9	7.4	.9	7.5	.9	7.5	.8	7.6	.8	7.6	.8	7.6
120	1.2	6.5	1.1	6.8	1.1	6.9	1.0	6.9	1.0	7.0	1.0	7.0	1.0	7.0
140	1.4	6.1	1.2	6.4	1.2	6.5	1.2	6.6	1.1	6.7	1.1	6.7	1.1	6.7
150	1.4	5.9	1.3	6.2	1.2	6.3	1.2	6.4	1.1	6.5	1.1	6.5	1.1	6.5
160	1.5	5.8	1.3	6.1	1.3	6.2	1.3	6.3	1.2	6.4	1.2	6.4	1.2	6.4
180	1.6	5.5	1.4	5.9	1.4	6.0	1.4	6.0	1.3	6.2	1.3	6.2	1.3	6.2
200	1.7	5.2	1.5	5.6	1.5	5.7	1.4	5.7	1.4	5.8	1.3	5.9	1.3	5.9
250	2.0	4.9	1.7	5.3	1.7	5.4	1.6	5.5	1.6	5.6	1.5	5.7	1.5	5.7
300			1.9	4.8	1.9	4.9	1.8	4.9	1.7	5.1	1.7	5.1	1.7	5.1
400			2.1	4.4	2.0	4.5	2.0	4.6	1.9	4.7	1.9	4.7	1.9	4.7
500			2.3	4.1	2.2	4.2	2.1	4.3	2.0	4.5	2.0	4.5	2.0	4.5
600					2.2	4.0	2.2	4.1	2.1	4.3	2.1	4.3	2.1	4.4
700					2.4	3.9	2.3	4.0	2.2	4.2	2.1	4.2	2.1	4.2
800							2.4	3.9	2.2	4.1	2.2	4.1	2.2	4.1
900							2.4	3.8	2.2	4.0	2.2	4.0	2.2	4.1
1,000							2.5	3.7	2.3	3.9	2.3	4.0	2.3	4.0
1,500									2.4	3.7	2.4	3.8	2.4	3.8
2,000									2.5	3.6	2.5	3.6	2.5	3.7
3,000									2.6	3.4	2.6	3.5	2.5	3.5

Sample Precision for Relative Frequencies for Random Samples Only--Rate of Occurrence in Sample 3%

And Sample Size is:	500		1,000		1,500		2,000		10,000		50,000		100,000 and over	
	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit
Confidence Level 95% (Two-sided)														
Confidence Level 97.5% (One-sided)														
80	.7%	8.9%	.6%	9.2%	.6%	9.3%	.6%	9.3%	.5%	9.5%	.5%	9.5%	.5%	9.5%
90	.8	8.4	.7	8.7	.6	8.8	.6	8.8	.6	8.9	.6	8.9	.6	9.0
100	.9	8.0	.7	8.3	.7	8.3	.7	8.4	.6	8.5	.6	8.5	.6	8.5
120	1.0	7.2	.9	7.5	.9	7.6	.8	7.6	.8	7.8	.8	7.8	.8	7.8
140	1.2	6.7	1.0	7.1	1.0	7.2	.9	7.3	.9	7.4	.9	7.4	.9	7.4
150	1.3	6.5	1.1	6.8	1.0	6.9	1.0	7.0	.9	7.1	.9	7.1	.9	7.2
160	1.3	6.4	1.1	6.7	1.1	6.8	1.1	6.9	1.0	7.0	1.0	7.1	1.0	7.1
180	1.4	6.0	1.2	6.4	1.2	6.5	1.1	6.6	1.1	6.8	1.1	6.8	1.1	6.8
200	1.5	5.7	1.3	6.1	1.2	6.2	1.2	6.2	1.1	6.4	1.1	6.4	1.1	6.4
250	1.8	5.2	1.5	5.8	1.5	5.9	1.4	6.0	1.5	5.2	1.3	6.2	1.3	6.2
300			1.8	5.1	1.7	5.2	1.6	5.3	1.5	5.5	1.5	5.5	1.5	5.5
400			1.9	4.7	1.8	4.9	1.7	4.9	1.6	5.1	1.6	5.2	1.6	5.2
500					2.0	4.5	2.0	4.6	1.8	4.8	1.8	4.8	1.8	4.8
600					2.1	4.2	2.1	4.3	1.9	4.6	1.9	4.6	1.9	4.6
700					2.2	4.1	2.1	4.2	2.0	4.4	2.0	4.5	2.0	4.5
800							2.2	4.0	2.1	4.3	2.0	4.3	2.0	4.4
900							2.3	3.9	2.1	4.2	2.1	4.2	2.1	4.3
1,000									2.2	4.1	2.1	4.2	2.1	4.2
1,500									2.3	3.9	2.3	3.9	2.3	3.9
2,000									2.4	3.7	2.4	3.8	2.4	3.8
3,000									2.5	3.5	2.5	3.6	2.5	3.6

And Sample Size is:	500		1,000		1,500		2,000		10,000		50,000		100,000 and over	
	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit
Confidence Level 99% (Two-sided)														
Confidence Level 99.5% (One-sided)														
80	.5%	11.1%	.4%	11.5%	.3%	11.6%	.3%	11.7%	.3%	11.8%	.3%	11.9%	.2%	11.9%
90	.6	10.4	.4	10.8	.4	10.9	.4	11.0	.3	11.1	.3	11.1	.3	11.2
100	.6	9.8	.5	10.2	.4	10.3	.4	10.4	.4	10.5	.3	10.6	.3	10.6
120	.8	8.8	.6	9.2	.6	9.3	.5	9.4	.5	9.6	.5	9.6	.4	9.6
140	.9	8.1	.7	8.6	.7	8.8	.6	8.8	.6	9.0	.6	9.0	.5	9.0
150	1.0	7.7	.8	8.2	.7	8.4	.7	8.5	.6	8.6	.6	8.7	.6	8.7
160	1.1	7.6	.8	8.1	.8	8.2	.7	8.3	.7	8.5	.6	8.5	.6	8.5
180	1.2	7.1	.9	7.7	.9	7.8	.8	7.9	.7	8.1	.7	8.1	.7	8.2
200	1.3	6.6	1.0	7.2	.9	7.3	.9	7.4	.8	7.6	.8	7.6	.8	7.7
250	1.6	6.0	1.2	6.7	1.1	6.9	1.1	7.0	1.0	7.2	1.0	7.3	1.0	7.3
300			1.5	5.8	1.5	6.0	1.4	6.1	1.3	6.4	1.2	6.4	1.2	6.4
400			1.6	5.3	1.5	5.5	1.4	5.6	1.3	5.9	1.2	5.9	1.2	5.9
500					1.8	5.0	1.7	5.1	1.6	5.4	1.5	5.4	1.5	5.4
600					1.9	4.7	1.8	4.8	1.7	5.1	1.6	5.2	1.6	5.2
700					2.1	4.4	2.0	4.6	1.8	4.9	1.7	5.0	1.7	5.0
800							2.0	4.4	1.8	4.7	1.8	4.8	1.8	4.8
900							2.1	4.3	1.9	4.6	1.8	4.7	1.8	4.7
1,000									1.9	4.5	1.9	4.6	1.9	4.6
1,500									2.1	4.2	2.1	4.2	2.1	4.3
2,000									2.3	4.0	2.2	4.0	2.2	4.1
3,000									2.4	3.7	2.3	3.8	2.3	3.8

Sample Precision for Relative Frequencies for Random Samples Only—Rate of Occurrence in Sample 4%

And Sample Size is:	For Field Size of:													
	500		1,000		1,500		2,000		10,000		50,000		100,000 and over	
	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit
	Confidence Level 90% (Two-sided)													
	Confidence Level 95% (One-sided)													
50	.9%	11.7%	.8%	12.0%	.8%	12.0%	.8%	12.1%	.7%	12.1%	.7%	12.2%	.7%	12.2%
80	1.4	9.3	1.3	9.6	1.2	9.7	1.2	9.7	1.2	9.8	1.2	9.8	1.2	9.8
90	1.5	8.9	1.4	9.1	1.4	9.2	1.3	9.2	1.3	9.3	1.3	9.4	1.3	9.4
100	1.7	8.5	1.5	8.7	1.5	8.8	1.4	8.9	1.4	9.0	1.4	9.0	1.4	9.0
120	1.9	7.8	1.7	8.1	1.7	8.2	1.6	8.2	1.6	8.3	1.6	8.4	1.6	8.4
140	2.1	7.4	1.9	7.7	1.8	7.8	1.8	7.9	1.7	8.0	1.7	8.0	1.7	8.0
150	2.1	7.2	1.9	7.5	1.9	7.6	1.9	7.6	1.8	7.8	1.8	7.8	1.8	7.8
160	2.2	7.1	2.0	7.4	2.0	7.5	1.9	7.6	1.9	7.7	1.8	7.7	1.8	7.7
180	2.4	6.8	2.2	7.2	2.1	7.3	2.1	7.3	2.0	7.5	2.0	7.5	2.0	7.5
200	2.5	6.4	2.2	6.8	2.2	6.9	2.1	7.0	2.1	7.1	2.0	7.1	2.0	7.1
250	2.7	5.9	2.5	6.3	2.4	6.5	2.3	6.5	2.3	6.7	2.2	6.7	2.2	6.7
300			2.7	6.0	2.6	6.1	2.5	6.2	2.5	6.3	2.4	6.4	2.4	6.4
400			2.9	5.5	2.8	5.7	2.8	5.8	2.7	5.9	2.6	6.0	2.6	6.0
500			3.1	5.2	3.0	5.4	2.9	5.5	2.8	5.7	2.8	5.7	2.8	5.7
600					3.1	5.2	3.0	5.3	2.9	5.5	2.9	5.5	2.9	5.5
700					3.2	5.0	3.1	5.1	3.0	5.4	2.9	5.4	2.9	5.4
800							3.2	5.0	3.0	5.2	3.0	5.3	3.0	5.3
900							3.3	4.9	3.1	5.2	3.1	5.2	3.1	5.2
1,000							3.4	4.8	3.1	5.1	3.1	5.1	3.1	5.1
1,500									3.3	4.8	3.3	4.9	3.2	4.9
2,000									3.4	4.7	3.4	4.8	3.3	4.8
3,000									3.5	4.5	3.5	4.6	3.5	4.6

And Sample Size is:	For Field Size of:													
	500		1,000		1,500		2,000		10,000		50,000		100,000 and over	
	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit
	Confidence Level 95% (Two-sided)													
	Confidence Level 97.5% (One-sided)													
50	.7%	13.2%	.6%	13.5%	.6%	13.6%	.5%	13.6%	.5%	13.7%	.5%	13.7%	.5%	13.7%
80	1.2	10.4	1.0	10.6	1.0	10.7	1.0	10.8	.9	10.9	.9	10.9	.9	10.9
90	1.3	9.8	1.1	10.1	1.1	10.2	1.1	10.2	1.0	10.4	1.0	10.4	1.0	10.4
100	1.4	9.3	1.3	9.6	1.2	9.7	1.2	9.8	1.1	9.9	1.1	9.9	1.1	9.9
120	1.6	8.5	1.4	8.9	1.4	9.0	1.4	9.1	1.3	9.2	1.3	9.2	1.3	9.2
140	1.8	8.1	1.6	8.5	1.6	8.6	1.5	8.6	1.5	8.8	1.4	8.8	1.4	8.8
150	1.9	7.8	1.7	8.6	1.6	8.3	1.6	8.3	1.5	8.5	1.5	8.5	1.5	8.5
160	2.0	7.6	1.8	8.1	1.7	8.2	1.7	8.2	1.6	8.4	1.6	8.4	1.6	8.4
180	2.1	7.3	1.9	7.8	1.8	7.9	1.8	8.0	1.7	8.1	1.7	8.1	1.7	8.2
200	2.3	6.9	2.0	7.3	1.9	7.5	1.9	7.5	1.8	7.7	1.7	7.7	1.7	7.7
250	2.5	6.3	2.2	6.8	2.1	6.9	2.1	7.0	2.0	7.2	1.9	7.2	1.9	7.2
300			2.5	6.4	2.4	6.5	2.3	6.6	2.2	6.8	2.2	6.8	2.2	6.8
400			2.7	5.8	2.6	6.0	2.6	6.1	2.4	6.3	2.4	6.3	2.4	6.4
500					2.8	5.7	2.7	5.8	2.6	6.0	2.5	6.0	2.5	6.0
600					2.9	5.4	2.9	5.5	2.7	5.8	2.6	5.8	2.6	5.8
700					3.1	5.2	3.0	5.4	2.8	5.6	2.7	5.7	2.7	5.7
800							3.1	5.2	2.8	5.5	2.8	5.5	2.8	5.6
900							3.2	5.1	2.9	5.4	2.9	5.4	2.9	5.5
1,000									3.0	5.3	2.9	5.4	2.9	5.4
1,500									3.2	5.0	3.1	5.1	3.1	5.1
2,000									3.3	4.8	3.2	4.9	3.2	4.9
3,000									3.5	4.6	3.4	4.7	3.4	4.7

Sample Precision for Relative Frequencies for Random Samples Only—Rate of Occurrence in Sample 5%

And Sample Size is:	500		1,000		1,500		2,000		10,000		50,000		100,000 and over	
	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit
Confidence Level 95% (Two-sided)														
Confidence Level 97.5% (One-sided)														
80	1.7%	11.7%	1.5%	12.0%	1.5%	12.1%	1.5%	12.2%	1.4%	12.3%	1.4%	12.3%	1.4%	12.3%
90	1.8	11.1	1.7	11.4	1.6	11.5	1.6	11.6	1.5	11.7	1.5	11.7	1.5	11.8
100	2.0	10.6	1.8	11.0	1.8	11.1	1.7	11.1	1.7	11.3	1.6	11.3	1.6	11.3
120	2.3	9.8	2.1	10.2	2.0	10.3	2.0	10.4	1.9	10.5	1.9	10.6	1.9	10.6
140	2.5	9.4	2.3	9.8	2.2	9.9	2.2	10.0	2.1	10.1	2.1	10.1	2.1	10.1
150	2.6	9.0	2.3	9.4	2.3	9.6	2.2	9.6	2.1	9.8	2.1	9.8	2.1	9.8
160	2.7	8.8	2.4	9.2	2.3	9.4	2.3	9.4	2.2	9.6	2.2	9.6	2.2	9.6
180	2.8	8.4	2.6	8.9	2.5	9.0	2.4	9.1	2.3	9.2	2.3	9.3	2.3	9.3
200	3.0	8.1	2.7	8.6	2.6	8.7	2.6	8.8	2.5	9.0	2.4	9.0	2.4	9.0
250	3.3	7.5	3.0	8.0	2.9	8.2	2.8	8.3	2.7	8.4	2.7	8.5	2.6	8.5
300			3.2	7.6	3.1	7.8	3.0	7.9	2.9	8.1	2.8	8.1	2.8	8.1
400			3.5	7.0	3.4	7.2	3.3	7.3	3.1	7.6	3.1	7.6	3.1	7.6
500					3.6	6.9	3.5	7.0	3.3	7.2	3.3	7.3	3.3	7.3
600					3.8	6.6	3.7	6.7	3.4	7.0	3.4	7.0	3.4	7.1
700					3.9	6.4	3.8	6.5	3.6	6.8	3.5	6.9	3.5	6.9
800							3.9	6.4	3.7	6.7	3.6	6.7	3.6	6.7
900							4.0	6.2	3.7	6.6	3.7	6.6	3.7	6.6
1,000									3.8	6.5	3.8	6.5	3.7	6.5
1,500									4.0	6.1	4.0	6.2	4.0	6.2
2,000									4.2	5.9	4.1	6.0	4.1	6.0
3,000									4.4	5.7	4.3	5.8	4.2	5.8

And Sample Size is:	500		1,000		1,500		2,000		10,000		50,000		100,000 and over	
	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit
Confidence Level 99% (Two-sided)														
Confidence Level 99.5% (One-sided)														
80	1.2%	14.1%	1.0%	14.5%	1.0%	14.7%	.9%	14.7%	.9%	14.9%	.9%	14.9%	.9%	14.9%
90	1.4	13.3	1.2	13.7	1.1	13.9	1.1	14.0	1.0	14.1	1.0	14.2	1.0	14.2
100	1.5	12.6	1.3	13.1	1.2	13.2	1.2	13.3	1.1	13.5	1.1	13.5	1.1	13.5
120	1.8	11.6	1.5	12.1	1.5	12.2	1.4	12.3	1.3	12.5	1.3	12.5	1.3	12.5
140	2.0	10.9	1.8	11.4	1.7	11.6	1.6	11.7	1.5	11.9	1.5	11.9	1.5	11.9
150	2.1	10.4	1.8	11.0	1.7	11.2	1.7	11.3	1.6	11.5	1.6	11.5	1.6	11.5
160	2.2	10.1	1.9	10.7	1.8	10.9	1.8	11.0	1.7	11.2	1.6	11.2	1.6	11.2
180	2.4	9.6	2.1	10.2	2.0	10.4	1.9	10.5	1.8	10.7	1.8	10.8	1.8	10.8
200	2.6	9.2	2.2	9.8	2.1	10.0	2.0	10.1	1.9	10.4	1.9	10.4	1.9	10.4
250	3.0	8.3	2.5	9.1	2.4	9.3	2.3	9.4	2.2	9.6	2.1	9.7	2.1	9.7
300			2.8	8.5	2.6	8.7	2.5	8.9	2.4	9.1	2.3	9.2	2.3	9.2
400			3.2	7.7	3.0	8.0	2.9	8.1	2.7	8.4	2.6	8.5	2.6	8.5
500					3.2	7.5	3.1	7.7	2.9	8.0	2.8	8.1	2.8	8.1
600					3.4	7.1	3.3	7.3	3.1	7.7	3.0	7.7	3.0	7.8
700					3.6	6.8	3.5	7.0	3.2	7.4	3.1	7.5	3.1	7.5
800							3.6	6.8	3.3	7.2	3.2	7.3	3.2	7.3
900							3.7	6.6	3.4	7.1	3.3	7.2	3.3	7.2
1,000									3.5	6.9	3.4	7.0	3.4	7.0
1,500									3.8	6.5	3.7	6.6	3.7	6.6
2,000									4.0	6.2	3.9	6.4	3.8	6.4
3,000									4.2	5.9	4.1	6.1	4.0	6.1

Sample Precision for Relative Frequencies for Random Samples Only—Rate of Occurrence in Sample 7%

And Sample Size is:	500		1,000		For Field Size of: 1,500		2,000		10,000		50,000		100,000 and over		
	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	
Confidence Level 95% (Two-sided) Confidence Level 97.5% (One-sided)															
80	2.9%	14.3%	2.7%	14.6%	2.6%	14.7%	2.6%	14.8%	2.5%	14.9%	2.5%	15.0%	2.5%	15.0%	
90	3.1	13.7	2.9	14.0	2.8	14.2	2.8	14.2	2.7	14.3	2.7	14.4	2.7	14.4	
100	3.3	13.2	3.1	13.6	3.0	13.7	3.0	13.7	2.9	13.9	2.9	13.9	2.9	13.9	
120	3.6	12.3	3.4	12.8	3.3	12.9	3.3	12.9	3.2	13.1	3.2	13.1	3.1	13.1	
140	3.9	11.8	3.7	12.2	3.6	12.4	3.5	12.4	3.4	12.6	3.4	12.6	3.4	12.6	
150	4.1	11.4	3.8	11.9	3.7	12.0	3.7	12.1	3.6	12.2	3.6	12.3	3.5	12.3	
160	4.2	11.2	3.9	11.6	3.8	11.8	3.8	11.9	3.7	12.0	3.6	12.1	3.6	12.1	
180	4.4	10.8	4.1	11.3	4.0	11.4	3.9	11.5	3.8	11.7	3.8	11.7	3.8	11.7	
200	4.6	10.4	4.3	10.9	4.2	11.1	4.1	11.2	4.0	11.4	4.0	11.4	3.9	11.4	
250	5.0	9.8	4.6	10.4	4.4	10.6	4.4	10.7	4.2	10.9	4.2	10.9	4.2	10.9	
300			4.9	9.9	4.7	10.1	4.6	10.2	4.5	10.4	4.5	10.4	4.4	10.4	
400			5.3	9.3	5.0	9.5	4.9	9.6	4.8	9.9	4.8	9.9	4.8	9.9	
500					5.3	9.1	5.2	9.2	5.0	9.5	5.0	9.6	5.0	9.6	
600					5.6	8.8	5.4	8.9	5.2	9.2	5.1	9.3	5.1	9.3	
700					5.7	8.5	5.6	8.7	5.3	9.0	5.3	9.1	5.3	9.1	
800									5.4	8.9	5.4	8.9	5.4	8.9	
900								5.7	8.5	5.5	8.8	5.5	8.8	5.5	8.8
1,000								5.9	8.4	5.6	8.6	5.5	8.7	5.5	8.7
1,500										5.9	8.3	5.8	8.4	5.8	8.4
2,000										6.1	8.1	6.0	8.2	6.0	8.2
3,000										6.3	7.8	6.2	7.9	6.1	8.0

And Sample Size is:	500		1,000		For Field Size of: 1,500		2,000		10,000		50,000		100,000 and over	
	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit
Confidence Level 99% (Two-sided) Confidence Level 99.5% (One-sided)														
80	2.2%	16.8%	1.9%	17.3%	1.9%	17.4%	1.8%	17.5%	1.7%	17.7%	1.7%	17.7%	1.7%	17.7%
90	2.4	16.0	2.1	16.5	2.1	16.6	2.0	16.7	1.9	16.9	1.9	16.9	1.9	16.9
100	2.6	15.3	2.3	15.8	2.3	16.0	2.2	16.1	2.1	16.2	2.1	16.3	2.1	16.3
120	3.0	14.2	2.7	14.7	2.6	14.9	2.5	15.0	2.4	15.2	2.4	15.2	2.4	15.2
140	3.3	13.4	3.0	14.0	2.8	14.2	2.8	14.3	2.7	14.5	2.6	14.6	2.6	14.6
150	3.5	12.9	3.1	13.5	3.0	13.7	3.0	13.8	2.9	14.0	2.8	14.1	2.8	14.1
160	3.6	12.6	3.3	13.2	3.1	13.4	3.1	13.5	3.0	13.7	2.9	13.8	2.9	13.8
180	3.9	12.1	3.5	12.7	3.4	12.9	3.3	13.0	3.1	13.3	3.1	13.3	3.1	13.3
200	4.1	11.6	3.7	12.3	3.5	12.5	3.4	12.6	3.3	12.9	3.3	12.9	3.3	12.9
250	4.5	10.7	4.0	11.6	3.8	11.8	3.8	11.9	3.6	12.2	3.5	12.3	3.5	12.3
300			4.3	10.9	4.2	11.1	4.1	11.3	3.9	11.6	3.8	11.6	3.8	11.6
400			4.8	10.0	4.6	10.3	4.5	10.5	4.2	10.8	4.2	10.9	4.2	10.9
500					4.9	9.8	4.8	10.0	4.5	10.3	4.4	10.4	4.4	10.4
600					5.2	9.4	5.0	9.6	4.7	10.0	4.6	10.1	4.6	10.1
700					5.4	9.1	5.2	9.3	4.9	9.7	4.8	9.8	4.8	9.8
800									5.4	9.0	5.0	9.6	4.9	9.6
900									5.5	8.8	5.1	9.3	5.0	9.4
1,000											5.2	9.2	5.1	9.3
1,500											5.6	8.7	5.5	8.8
2,000											5.8	8.4	5.7	8.5
3,000											6.1	8.1	5.9	8.2

Sample Precision for Relative Frequencies for Random Samples Only—Rate of Occurrence in Sample 8%

And Sample Size is:	For Field Size of:													
	500		1,000		1,500		2,000		10,000		50,000		100,000 and over	
	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit
	Confidence Level 90% (Two-sided)													
	Confidence Level 95% (One-sided)													
50	3.0%	17.0%	2.9%	17.2%	2.9%	17.3%	2.8%	17.3%	2.8%	17.4%	2.8%	17.4%	2.8%	17.4%
80	4.0	14.3	3.8	14.6	3.8	14.7	3.7	14.8	3.7	14.9	3.7	14.9	3.7	14.9
90	4.3	13.8	4.1	14.1	4.0	14.2	4.0	14.3	3.9	14.4	3.9	14.4	3.9	14.4
100	4.5	13.4	4.2	13.7	4.2	13.8	4.1	13.9	4.0	14.0	4.0	14.0	4.0	14.0
120	4.8	12.7	4.6	13.0	4.5	13.1	4.5	13.2	4.4	13.3	4.4	13.3	4.4	13.3
140	5.1	12.2	4.9	12.6	4.8	12.7	4.7	12.7	4.6	12.9	4.6	12.9	4.6	12.9
150	5.2	11.9	5.0	12.3	4.9	12.4	4.8	12.5	4.7	12.6	4.7	12.7	4.7	12.7
160	5.4	11.7	5.1	12.1	5.0	12.2	5.0	12.3	4.9	12.4	4.9	12.4	4.9	12.4
180	5.6	11.3	5.3	11.7	5.2	11.9	5.2	11.9	5.1	12.1	5.0	12.1	5.0	12.1
200	5.8	11.0	5.5	11.5	5.4	11.6	5.3	11.7	5.2	11.8	5.2	11.9	5.2	11.9
250	6.2	10.4	5.8	11.0	5.6	11.2	5.6	11.2	5.5	11.4	5.4	11.4	5.4	11.5
300			6.0	10.5	5.9	10.7	5.8	10.8	5.7	11.0	5.7	11.0	5.7	11.0
400			6.4	10.0	6.3	10.2	6.2	10.3	6.0	10.5	6.0	10.6	6.0	10.6
500			6.7	9.6	6.5	9.9	6.4	10.0	6.2	10.2	6.2	10.3	6.2	10.3
600					6.7	9.6	6.6	9.7	6.4	10.0	6.3	10.0	6.3	10.0
700					6.9	9.4	6.7	9.5	6.5	9.8	6.4	9.9	6.4	9.9
800							6.9	9.3	6.6	9.7	6.5	9.7	6.5	9.7
900							7.0	9.2	6.7	9.6	6.6	9.6	6.6	9.6
1,000							7.1	9.1	6.7	9.5	6.7	9.5	6.7	9.5
1,500									7.0	9.1	6.9	9.2	6.9	9.2
2,000									7.2	8.9	7.1	9.0	7.1	9.0
3,000									7.3	8.7	7.2	8.8	7.2	8.8

And Sample Size is:	For Field Size of:													
	500		1,000		1,500		2,000		10,000		50,000		100,000 and over	
	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit
	Confidence Level 95% (Two-sided)													
	Confidence Level 97.5% (One-sided)													
50	2.5%	13.7%	2.4%	19.0%	2.3%	19.1%	2.3%	19.1%	2.2%	19.2%	2.2%	19.2%	2.2%	19.3%
80	3.5	15.6	3.3	15.9	3.3	16.0	3.2	16.1	3.1	16.2	3.1	16.2	3.1	16.3
90	3.3	14.9	3.5	15.3	3.5	15.4	3.4	15.5	3.4	15.6	3.3	15.6	3.3	15.7
100	4.0	14.4	3.7	14.8	3.7	14.9	3.6	15.0	3.5	15.1	3.5	15.2	3.5	15.2
120	4.4	13.6	4.1	14.0	4.0	14.1	4.0	14.2	3.9	14.3	3.8	14.4	3.8	14.4
140	4.7	13.0	4.4	13.4	4.3	13.6	4.2	13.7	4.1	13.8	4.1	13.9	4.1	13.9
150	4.9	12.6	4.6	13.1	4.5	13.2	4.4	13.3	4.3	13.5	4.3	13.5	4.3	13.5
160	5.0	12.4	4.7	12.8	4.6	13.0	4.5	13.1	4.4	13.2	4.4	13.3	4.4	13.3
180	5.2	11.9	4.9	12.5	4.8	12.6	4.7	12.7	4.6	12.9	4.6	12.9	4.6	12.9
200	5.4	11.6	5.1	12.1	4.9	12.3	4.9	12.4	4.7	12.6	4.7	12.6	4.7	12.6
250	5.9	10.9	5.4	11.6	5.2	11.8	5.2	11.9	5.0	12.1	5.0	12.1	5.0	12.1
300			5.7	11.0	5.5	11.2	5.5	11.3	5.3	11.6	5.3	11.6	5.2	11.6
400			6.1	10.4	5.9	10.6	5.8	10.7	5.6	11.0	5.6	11.1	5.6	11.1
500					6.2	10.2	6.1	10.3	5.9	10.6	5.8	10.7	5.8	10.7
600					6.4	9.9	6.3	10.0	6.1	10.4	6.0	10.4	6.0	10.4
700					6.6	9.6	6.5	9.8	6.2	10.2	6.1	10.2	6.1	10.2
800							6.6	9.6	6.3	10.0	6.3	10.1	6.2	10.1
900							6.8	9.4	6.4	9.9	6.4	9.9	6.3	9.9
1,000									6.5	9.7	6.4	9.8	6.4	9.8
1,500									6.8	9.4	6.7	9.4	6.7	9.5
2,000									7.0	9.1	6.9	9.2	6.9	9.3
3,000									7.2	8.8	7.1	9.0	7.1	9.0

Sample Precision for Relative Frequencies for Random Samples Only—Rate of Occurrence in Sample 13%

And Sample Size is:	For Field Size of:															
	500		1,000		1,500		2,000		10,000		50,000		100,000 and over			
	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit		
Confidence Level 95% (Two-sided)																
Confidence Level 97.5% (One-sided)																
80	7.1%	21.6%	6.8%	22.0%	6.7%	22.1%	6.7%	22.2%	6.6%	22.3%	6.5%	22.4%	6.5%	22.4%		
90	7.4	20.9	7.1	21.3	7.0	21.5	7.0	21.5	6.9	21.7	6.8	21.7	6.8	21.7		
100	7.8	20.3	7.5	20.8	7.4	20.9	7.3	21.0	7.2	21.1	7.2	21.2	7.2	21.2		
120	8.3	19.4	7.9	19.9	7.8	20.0	7.8	20.1	7.6	20.3	7.6	20.3	7.6	20.3		
140	8.7	18.7	8.3	19.2	8.2	19.4	8.1	19.5	8.0	19.6	8.0	19.7	8.0	19.7		
150	8.9	18.4	8.5	18.9	8.4	19.1	8.3	19.2	8.1	19.4	8.1	19.4	8.1	19.4		
160	9.1	18.1	8.6	18.7	8.5	18.9	8.4	18.9	8.3	19.1	8.2	19.2	8.2	19.2		
180	9.4	17.6	8.9	18.2	8.8	18.4	8.7	18.5	8.5	18.7	8.5	18.8	8.5	18.8		
200	9.7	17.2	9.2	17.9	9.0	18.1	8.9	18.2	8.7	18.4	8.7	18.4	8.7	18.4		
250	10.3	16.4	9.6	17.1	9.5	17.4	9.4	17.5	9.2	17.7	9.1	17.8	9.1	17.8		
300			10.6	16.6	9.8	16.9	9.7	17.0	9.5	17.3	9.4	17.3	9.4	17.3		
400			10.6	15.9	10.3	16.2	10.2	16.3	9.9	16.6	9.9	16.7	9.9	16.7		
500					10.7	15.7	10.6	15.8	10.3	16.2	10.2	16.2	10.2	16.2		
600					11.0	15.3	10.8	15.5	10.5	15.9	10.4	15.9	10.4	15.9		
700					11.3	15.0	11.1	15.2	10.7	15.6	10.6	15.7	10.6	15.7		
800							11.3	15.0	10.9	15.4	10.8	15.5	10.8	15.5		
900							11.4	14.8	11.0	15.3	10.9	15.3	10.9	15.4		
1,000									11.1	15.1	11.0	15.2	11.0	15.2		
1,500									11.5	14.7	11.4	14.8	11.4	14.8		
2,000									11.7	14.4	11.6	14.5	11.6	14.5		
3,000									12.0	14.0	11.9	14.2	11.8	14.3		

And Sample Size is:	For Field Size of:															
	500		1,000		1,500		2,000		10,000		50,000		100,000 and over			
	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit		
Confidence Level 99% (Two-sided)																
Confidence Level 99.5% (One-sided)																
80	5.8%	24.4%	5.5%	25.0%	5.3%	25.2%	5.3%	25.2%	5.2%	25.4%	5.1%	25.5%	5.1%	25.5%		
90	6.2	23.5	5.8	24.1	5.7	24.3	5.6	24.4	5.5	24.6	5.5	24.6	5.5	24.6		
100	6.6	22.7	6.2	23.3	6.1	23.5	6.0	23.6	5.9	23.8	5.8	23.9	5.8	23.9		
120	7.2	21.5	6.7	22.1	6.6	22.4	6.5	22.5	6.4	22.7	6.3	22.7	6.3	22.8		
140	7.7	20.6	7.2	21.3	7.0	21.5	7.0	21.6	6.8	21.8	6.7	21.9	6.7	21.9		
150	7.9	20.2	7.4	20.9	7.2	21.1	7.1	21.2	6.9	21.5	6.9	21.5	6.9	21.6		
160	8.1	19.8	7.7	20.5	7.4	20.8	7.3	20.9	7.1	21.2	7.1	21.2	7.1	21.2		
180	8.5	19.1	7.9	20.0	7.8	20.1	7.6	20.3	7.4	20.6	7.4	20.7	7.4	20.7		
200	8.8	18.6	8.2	19.5	7.9	19.7	7.9	19.9	7.7	20.2	7.6	20.2	7.6	20.2		
250	9.5	17.5	8.8	18.5	8.5	18.8	8.4	18.9	8.2	19.3	8.1	19.3	8.1	19.4		
300			9.2	17.8	9.0	18.1	8.8	18.3	8.6	18.6	8.5	18.7	8.5	18.7		
400			9.9	16.8	9.6	17.2	9.4	17.4	9.1	17.8	9.0	17.9	9.0	17.9		
500					10.1	16.5	9.9	16.7	9.5	17.2	9.4	17.3	9.4	17.3		
600					10.5	16.0	10.2	16.3	9.8	16.8	9.7	16.9	9.7	16.9		
700					10.8	15.6	10.5	15.9	10.0	16.5	10.0	16.6	9.9	16.6		
800							10.8	15.6	10.2	16.2	10.1	16.3	10.1	16.3		
900							11.0	15.3	10.4	16.0	10.3	16.1	10.3	16.1		
1,000									10.5	15.8	10.4	15.9	10.4	15.9		
1,500									11.0	15.2	10.9	15.3	10.9	15.4		
2,000									11.3	14.8	11.2	15.0	11.2	15.0		
3,000									11.7	14.4	11.5	14.6	11.5	14.7		

ภาคผนวก ๗.

FINITE POPULATION CORRECTION FACTOR

Proportion of Population in Sample (n/N)	Finite Correction Factor	Proportion of Population in Sample (n/N)	Finite Correction Factor
0.1	.9995	5.2	.9737
0.2	.9990	5.3	.9731
0.3	.9985	5.4	.9726
0.4	.9980	5.5	.9721
0.5	.9975	5.6	.9716
0.6	.9970	5.7	.9711
0.7	.9965	5.8	.9706
0.8	.9960	5.9	.9701
0.9	.9955	6.0	.9695
1.0	.9950	6.1	.9690
1.1	.9945	6.2	.9685
1.2	.9940	6.3	.9680
1.3	.9935	6.4	.9675
1.4	.9930	6.5	.9670
1.5	.9925	6.6	.9664
1.6	.9920	6.7	.9659
1.7	.9915	6.8	.9654
1.8	.9910	6.9	.9649
1.9	.9905	7.0	.9644
2.0	.9899	7.1	.9638
2.1	.9894	7.2	.9633
2.2	.9889	7.3	.9628
2.3	.9884	7.4	.9623
2.4	.9879	7.5	.9618
2.5	.9874	7.6	.9612
2.6	.9869	7.7	.9607
2.7	.9864	7.8	.9602
2.8	.9859	7.9	.9597
2.9	.9854	8.0	.9592
3.0	.9849	8.1	.9586
3.1	.9844	8.2	.9581
3.2	.9839	8.3	.9576
3.3	.9834	8.4	.9571
3.4	.9829	8.5	.9566
3.5	.9823	8.6	.9560
3.6	.9818	8.7	.9555
3.7	.9813	8.8	.9550
3.8	.9808	8.9	.9545
3.9	.9803	9.0	.9539
4.0	.9798	9.1	.9534
4.1	.9793	9.2	.9529
4.2	.9788	9.3	.9524
4.3	.9783	9.4	.9518
4.4	.9778	9.5	.9513
4.5	.9772	9.6	.9508
4.6	.9767	9.7	.9503
4.7	.9762	9.8	.9497
4.8	.9757	9.9	.9492
4.9	.9752	10.0	.9487
5.0	.9747	10.1	.9482
5.1	.9742	10.2	.9476

Finite Population Correction Factor

Proportion of Population in Sample (n/N)	Finite Correction Factor	Proportion of Population in Sample (n/N)	Finite Correction Factor
10.3%	.9471	15.8%	.9176
10.4	.9466	15.9	.9171
10.5	.9460	16.0	.9165
10.6	.9455	16.1	.9160
10.7	.9450	16.2	.9154
10.8	.9445	16.3	.9149
10.9	.9439	16.4	.9143
11.0	.9434	16.5	.9138
11.1	.9429	16.6	.9132
11.2	.9423	16.7	.9127
11.3	.9418	16.8	.9121
11.4	.9413	16.9	.9116
11.5	.9407	17.0	.9110
11.6	.9402	17.1	.9105
11.7	.9397	17.2	.9099
11.8	.9391	17.3	.9094
11.9	.9386	17.4	.9088
12.0	.9381	17.5	.9083
12.1	.9376	17.6	.9077
12.2	.9370	17.7	.9072
12.3	.9365	17.8	.9066
12.4	.9359	17.9	.9061
12.5	.9354	18.0	.9055
12.6	.9349	18.1	.9050
12.7	.9343	18.2	.9044
12.8	.9338	18.3	.9039
12.9	.9333	18.4	.9033
13.0	.9327	18.5	.9028
13.1	.9322	18.6	.9022
13.2	.9317	18.7	.9017
13.3	.9311	18.8	.9011
13.4	.9306	18.9	.9006
13.5	.9301	19.0	.9000
13.6	.9295	19.1	.8994
13.7	.9290	19.2	.8989
13.8	.9284	19.3	.8983
13.9	.9279	19.4	.8978
14.0	.9274	19.5	.8972
14.1	.9268	19.6	.8967
14.2	.9263	19.7	.8961
14.3	.9257	19.8	.8955
14.4	.9252	19.9	.8950
14.5	.9247	20.0	.8944
14.6	.9241	20.1	.8939
14.7	.9236	20.2	.8933
14.8	.9230	20.3	.8927
14.9	.9225	20.4	.8922
15.0	.9220	20.5	.8916
15.1	.9214	20.6	.8911
15.2	.9209	20.7	.8905
15.3	.9203	20.8	.8899
15.4	.9198	20.9	.8894
15.5	.9192	21.0	.8888
15.6	.9187	21.1	.8883
15.7	.9182	21.2	.8877

ภาคผนวก ญ

ค่าผิดพลาดจากการใช้ตัวอย่างจะสูงสุดเมื่ออัตราผิดพลาดซึ่งคาดคะเนเท่ากับ 50 %

สามารถคำนวณค่าผิดพลาดจากการใช้ตัวอย่างจากสูตร

$$SE \% = \pm t \sqrt{\frac{p(1-p)}{n}}$$

เมื่อ t คือระดับความเชื่อมั่น

p อัตราผิดพลาดซึ่งคาดคะเน

n ขนาดของตัวอย่าง

SE ค่าผิดพลาดจากการใช้ตัวอย่าง

กำหนดให้ค่า p มีค่าแตกต่างกันตั้งแต่ 10 % - 90 % กำหนดให้ตัวอย่างมีขนาด 100 และประชากรมีขนาดใหญ่ และกำหนดให้ระดับความเชื่อมั่นเป็น 99 % ค่าผิดพลาดจากการใช้ตัวอย่างซึ่งคำนวณจากสูตร ปรากฏดังนี้ คือ

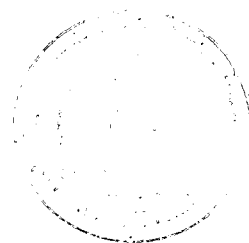
ค่าของ p	ค่าผิดพลาดจากการใช้ตัวอย่าง
.10	± 7.70 %
.20	10.32 %
.30	11.87 %
.40	12.64 %
.50	12.90 %
.60	12.64 %
.70	11.87 %
.80	10.32 %
.90	7.70 %

ถ้าอัตราผิดพลาดซึ่งคาดคะเนเพื่อใช้ในการคำนวณขนาดของตัวอย่างเป็น 50 % ขนาดของตัวอย่างที่ได้จะใหญ่ที่สุด เนื่องจากค่าผิดพลาดจากการใช้ตัวอย่างจะสูงสุดเมื่อ p เป็น 50 % นอกจากนั้นจะสังเกตว่าเมื่อ $p = .10$ และ $.90$ ค่าผิดพลาดจากการใช้ตัวอย่างจะเท่ากัน อาจกล่าวได้ว่าเมื่อค่าผิดพลาดซึ่งคาดคะเนไม่เกินจาก 10 % จะให้ผลอย่างเดียวกับเมื่ออัตราผิดพลาดซึ่งคาดคะเนไม่น้อยกว่า 90 %



ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย

ประวัติการศึกษา



ชื่อ

นางสาวแนนน้อย เจริญทวีทรัพย์

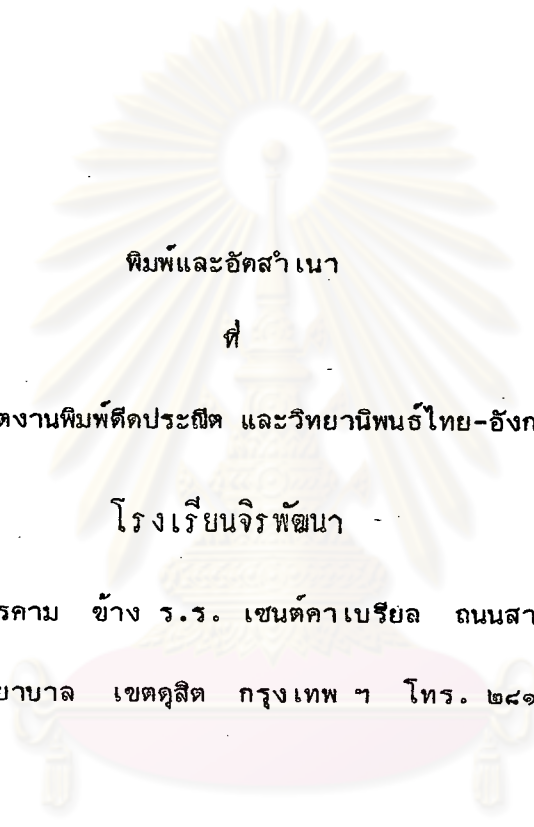
วุฒิการศึกษา

บัญชีบัณฑิต (เกียรตินิยม) คณะพาณิชยศาสตร์และการบัญชี
จุฬาลงกรณ์มหาวิทยาลัย เมื่อ พ.ศ. 2516
วุฒิบัญชีรับอนุญาต เมื่อ พ.ศ. 2519

การปฏิบัติงาน

สำนักงานสอบบัญชี Coopers & Lybrand พ.ศ. 2517-2519
สำนักงานสอบบัญชี Coopers & Lybrand ประเทศสิงคโปร์
พ.ศ. 2519-2520
ปัจจุบัน ปฏิบัติงานในสำนักงาน Coopers & Lybrand ในตำแหน่ง
Audit Senior.

ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย



พิมพ์และอัครสำเนา

ที่

แผนกผลิตงานพิมพ์ดีดประณีต และวิทยานิพนธ์ไทย-อังกฤษ

โรงเรียนจิรพัฒนา

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ตำบลวชิรพยาบาล เขตดุสิต กรุงเทพฯ โทร. ๒๔๑๒๗๗๑

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จุฬาลงกรณ์มหาวิทยาลัย