

ภาคผนวก

APPROPRIATE SIZES OF SIMPLE RANDOM SAMPLES FOR SPECIFIC PERMISSIBLE
 ERRORS EXPRESSED AS ABSOLUTE PROPORTIONS WHEN THE TRUE PROPORTION
 IN THE POPULATION IS 0.5 AND THE CONFIDENCE LEVEL IS 90 PERCENT
 Desired level of reliability equal to 90 %

Population Size N	Sample size (n) for five different absolute d				
	.05	.04	.03	.02	.01
2	1	1	1	1	1
3	2	2	2	2	2
4	3	3	3	3	3
5	4	4	4	4	4
6	5	5	5	5	5
7	6	6	6	6	6
8	7	7	7	7	7
9	8	8	8	8	8
10	9	9	9	9	9
11	10	10	10	10	10
12	11	11	11	11	11
13	12	12	12	12	12
14	13	13	13	13	13
15	14	14	14	14	14
16	15	15	15	15	15
17	15	16	16	16	16
18	16	17	17	17	17
19	17	18	18	18	18
20	18	19	19	19	19
21	19	20	20	20	20
22	20	20	21	21	21
23	21	21	22	22	22
24	22	22	23	23	23
25	22	23	24	24	24
26	23	24	25	25	25
27	24	25	26	26	26
28	25	26	26	27	27
29	26	27	27	28	28
30	27	28	28	29	29
31	27	28	29	30	30
32	28	29	30	31	31
33	29	30	31	32	32
34	30	31	32	33	33
35	30	32	33	34	34
36	31	33	34	35	35
37	32	34	35	36	36
38	33	34	36	37	37
39	34	35	37	38	38
40	34	36	37	39	39
41	35	37	38	40	40

ค่าขนาดตัวอย่างคำนวณโดยใช้สูตรในหน้า ๔๑

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Population Size N	Sample size (n) for five different absolute d				
	.05	.04	.03	.02	.01
42	36	38	39	40	41
43	37	39	40	41	42
44	37	39	41	42	43
45	38	40	42	43	44
46	39	41	43	44	45
47	40	42	44	45	46
48	40	43	45	46	47
49	41	43	46	47	48
50	42	44	46	48	49
51	42	45	47	49	50
52	43	46	48	50	51
53	44	47	49	51	52
54	45	47	50	52	53
55	45	48	51	53	54
56	46	49	52	54	55
57	47	50	52	55	56
58	47	51	53	56	57
59	48	51	54	57	58
60	49	52	55	57	59
61	49	53	56	58	60
62	50	54	57	59	61
63	51	54	58	60	62
64	51	55	58	61	63
65	52	56	59	62	64
66	53	57	60	63	65
67	53	57	61	64	66
68	54	58	62	65	67
69	54	59	63	66	68
70	55	60	64	67	69
71	56	60	64	68	70
72	56	61	65	69	71
73	57	62	66	69	72
74	58	62	67	70	73
75	58	63	68	71	74
76	59	64	69	72	75
77	59	65	69	73	76
78	60	65	70	74	77
79	61	66	71	75	78
80	61	67	72	76	79
81	62	67	73	77	80

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Population Size N	Sample size (n) for five different absolute d				
	.05	.04	.03	.02	.01
82	62	68	73	78	81
83	63	69	74	79	81
84	64	70	75	80	82
85	64	70	76	80	83
86	65	71	77	81	84
87	65	72	77	82	85
88	66	72	78	83	86
89	66	73	79	84	87
90	67	74	80	85	88
91	68	74	81	86	89
92	68	75	81	87	90
93	69	76	82	88	91
94	69	76	83	89	92
95	70	77	84	89	93
96	70	78	85	90	94
97	71	78	85	91	95
98	71	79	86	92	96
99	72	80	87	93	97
100	73	80	88	94	98
101	73	81	89	95	99
102	74	82	89	96	100
103	74	82	90	97	101
104	75	83	91	97	102
105	75	84	92	98	103
106	76	84	92	99	104
107	76	85	93	100	105
108	77	86	94	101	106
109	77	86	95	102	107
110	78	87	95	103	108
111	78	87	96	104	109
112	79	88	97	105	110
113	79	89	98	105	111
114	80	89	98	106	112
115	80	90	99	107	113
116	81	91	100	108	114
117	81	91	101	109	115
118	82	92	101	110	115
119	82	92	102	111	116
120	83	93	103	112	117
121	83	94	104	112	118

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Population Size N	Sample size (n) for five different absolute d				
	.05	.04	.03	.02	.01
122	84	94	104	113	119
123	84	95	105	114	120
124	85	95	106	115	121
125	85	96	107	116	122
126	85	97	107	117	123
127	86	97	108	118	124
128	86	98	109	118	125
129	87	98	110	119	126
130	87	99	110	120	127
131	88	100	111	121	128
132	88	100	112	122	129
133	89	101	113	123	130
134	89	101	113	124	131
135	90	102	114	125	132
136	90	102	115	125	133
137	90	103	115	126	134
138	91	104	116	127	135
139	91	104	117	128	136
140	92	105	118	129	137
141	92	105	118	130	138
142	93	106	119	131	139
143	93	106	120	131	140
144	93	107	120	132	140
145	94	107	121	133	141
146	94	108	122	134	142
147	95	109	122	135	143
148	95	109	123	136	144
149	96	110	124	136	145
150	96	110	125	137	146
151	96	111	125	138	147
152	97	111	126	139	148
153	97	112	127	140	149
154	98	112	127	141	150
155	98	113	128	141	151
156	98	113	129	142	152
157	99	114	129	143	153
158	99	115	130	144	154
159	100	115	131	145	155
160	100	116	131	146	156
161	100	116	132	147	157

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Population Size N	Sample size (n) for five different absolute d				
	.05	.04	.03	.02	.01
162	101	117	133	147	158
163	101	117	133	148	159
164	102	118	134	149	160
165	102	118	135	150	161
166	102	119	135	151	162
167	103	119	136	151	162
168	103	120	137	152	163
169	104	120	137	153	164
170	104	121	138	154	165
171	104	121	139	155	166
172	105	122	139	156	167
173	105	122	140	156	168
174	105	123	141	157	169
175	106	123	141	158	170
176	106	124	142	159	171
177	107	124	143	160	172
178	107	125	143	161	173
179	107	125	144	161	174
180	108	126	145	162	175
181	108	126	145	163	176
182	108	127	146	164	177
183	109	127	147	165	178
184	109	128	147	165	179
185	109	128	148	166	180
186	110	129	149	167	181
187	110	129	149	168	181
188	110	130	150	169	182
189	111	130	151	170	183
190	111	131	151	170	184
191	111	131	152	171	185
192	112	132	152	172	186
193	112	132	153	173	187
194	112	132	154	174	188
195	113	133	154	174	189
196	113	133	155	175	190
197	114	134	156	176	191
198	114	134	156	177	192
199	114	135	157	178	193
200	115	135	157	178	194
201	115	136	158	179	195

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Population Size N	Sample size (n) for five different absolute d				
	.05	.04	.03	.02	.01
100	73	80	88	94	98
200	115	135	157	178	194
300	142	175	214	254	287
400	161	205	261	323	377
500	175	229	300	385	465
600	186	248	333	442	551
700	195	263	362	495	634
800	202	276	387	543	715
900	208	287	409	587	794
1,000	212	297	429	628	871
1,100	217	305	446	666	946
1,200	220	312	462	701	1,019
1,300	223	319	476	735	1,090
1,400	226	324	489	765	1,159
1,500	229	329	500	794	1,227
1,600	231	334	511	822	1,293
1,700	233	338	521	847	1,358
1,800	235	342	530	871	1,421
1,900	236	345	538	894	1,483
2,000	238	349	546	916	1,543
2,100	239	351	553	936	1,602
2,200	240	354	560	956	1,660
2,300	242	357	566	974	1,716
2,400	243	359	572	992	1,771
2,500	244	361	577	1,008	1,825
2,600	245	363	583	1,024	1,878
2,700	245	365	587	1,039	1,929
2,800	246	367	592	1,054	1,980
2,900	247	369	596	1,068	2,029
3,000	248	370	601	1,081	2,078
3,100	248	372	604	1,094	2,125
3,200	249	373	608	1,106	2,172
3,300	250	374	612	1,118	2,218
3,400	250	376	615	1,129	2,262
3,500	251	377	618	1,140	2,306
3,600	251	378	621	1,150	2,349
3,700	252	379	624	1,160	2,391
3,800	252	380	627	1,170	2,433
3,900	253	381	630	1,179	2,473
4,000	253	382	632	1,188	2,513

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Population Size N	Sample size (n) for five different absolute d				
	.05	.04	.03	.02	.01
5,100	256	390	655	1,270	2,907
5,200	257	391	656	1,276	2,940
5,300	257	391	658	1,282	2,971
5,400	257	392	659	1,287	3,002
5,500	257	392	661	1,293	3,033
5,600	258	393	662	1,298	3,063
5,700	258	393	664	1,304	3,093
5,800	258	394	665	1,309	3,122
5,900	258	394	666	1,314	3,151
6,000	258	394	667	1,319	3,179
6,100	259	395	669	1,324	3,207
6,200	259	395	670	1,328	3,235
6,300	259	396	671	1,333	3,262
6,400	259	396	672	1,337	3,288
6,500	259	396	673	1,342	3,314
6,600	259	397	674	1,346	3,340
6,700	260	397	675	1,350	3,366
6,800	260	398	676	1,354	3,391
6,900	260	398	677	1,358	3,415
7,000	260	398	678	1,362	3,440
7,100	260	399	679	1,365	3,464
7,200	260	399	680	1,369	3,487
7,300	260	399	681	1,373	3,511
7,400	261	399	682	1,376	3,534
7,500	261	400	683	1,380	3,556
7,600	261	400	684	1,383	3,579
7,700	261	400	684	1,386	3,601
7,800	261	401	685	1,389	3,622
7,900	261	401	686	1,393	3,644
8,000	261	401	687	1,396	3,665
8,100	261	401	687	1,399	3,686
8,200	261	402	688	1,402	3,706
8,300	262	402	689	1,404	3,727
8,400	262	402	689	1,407	3,747
8,500	262	402	690	1,410	3,766
8,600	262	403	691	1,413	3,786
8,700	262	403	691	1,415	3,805
8,800	262	403	692	1,418	3,824
8,900	262	403	693	1,421	3,843
9,000	262	403	693	1,423	3,862

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Population Size N	Sample size (n) for five different absolute d				
	.05	.04	.03	.02	.01
11,000	264	407	703	1,465	4,188
12,000	264	408	707	1,482	4,326
13,000	265	409	710	1,496	4,449
14,000	265	410	713	1,508	4,561
15,000	265	411	715	1,519	4,662
16,000	266	411	717	1,529	4,754
17,000	266	412	719	1,538	4,839
18,000	266	413	721	1,546	4,917
19,000	266	413	723	1,553	4,988
20,000	266	414	724	1,559	5,055
21,000	267	414	725	1,565	5,116
22,000	267	414	726	1,570	5,174
23,000	267	415	727	1,575	5,227
24,000	267	415	728	1,579	5,277
25,000	267	415	729	1,584	5,324
26,000	267	416	730	1,587	5,368
27,000	267	416	731	1,591	5,409
28,000	268	416	732	1,594	5,448
29,000	268	416	732	1,598	5,485
30,000	268	416	733	1,601	5,520
31,000	268	417	733	1,603	5,553
32,000	268	417	734	1,606	5,584
33,000	268	417	734	1,608	5,614
34,000	268	417	735	1,611	5,642
35,000	268	417	735	1,613	5,669
36,000	268	417	736	1,615	5,694
37,000	268	418	736	1,617	5,719
38,000	268	418	737	1,619	5,742
39,000	268	418	737	1,620	5,765
40,000	268	418	737	1,622	5,786
41,000	268	418	738	1,624	5,806
42,000	268	418	738	1,625	5,826
43,000	268	418	738	1,627	5,845
44,000	268	418	739	1,628	5,863
45,000	268	418	739	1,630	5,880
46,000	269	418	739	1,631	5,897
47,000	269	419	739	1,632	5,913
48,000	269	419	740	1,633	5,929
49,000	269	419	740	1,634	5,944
50,000	269	419	740	1,635	5,958

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	.05	.04	.03	.02	.01
61,000	269	419	742	1,645	6,089
62,000	269	419	742	1,646	6,099
63,000	269	419	742	1,647	6,109
64,000	269	420	742	1,647	6,118
65,000	269	420	743	1,648	6,127
66,000	269	420	743	1,649	6,136
67,000	269	420	743	1,649	6,144
68,000	269	420	743	1,650	6,152
69,000	269	420	743	1,650	6,161
70,000	269	420	743	1,651	6,168
71,000	269	420	743	1,651	6,176
72,000	269	420	743	1,652	6,184
73,000	269	420	744	1,652	6,191
74,000	269	420	744	1,653	6,198
75,000	269	420	744	1,653	6,205
76,000	269	420	744	1,654	6,212
77,000	269	420	744	1,654	6,218
78,000	269	420	744	1,655	6,225
79,000	269	420	744	1,655	6,231
80,000	269	420	744	1,656	6,237
81,000	269	420	744	1,656	6,243
82,000	269	420	744	1,657	6,249
83,000	269	420	744	1,657	6,255
84,000	269	420	745	1,657	6,260
85,000	269	420	745	1,658	6,266
86,000	269	420	745	1,658	6,271
87,000	269	420	745	1,659	6,276
88,000	269	420	745	1,659	6,282
89,000	269	420	745	1,659	6,287
90,000	269	420	745	1,660	6,292
91,000	269	420	745	1,660	6,296
92,000	269	420	745	1,660	6,301
93,000	269	420	745	1,661	6,306
94,000	269	420	745	1,661	6,310
95,000	269	420	745	1,661	6,315
96,000	269	420	745	1,661	6,319
97,000	269	420	745	1,662	6,324
98,000	269	421	745	1,662	6,328
99,000	269	421	746	1,662	6,332
100,000	269	421	746	1,663	6,336

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	.05	.04	.03	.02	.01
100,000	269	421	746	1,663	6,336
105,000	269	421	746	1,664	6,355
110,000	269	421	746	1,665	6,373
115,000	269	421	746	1,666	6,389
120,000	269	421	746	1,667	6,404
125,000	270	421	747	1,668	6,417
130,000	270	421	747	1,669	6,430
135,000	270	421	747	1,670	6,442
140,000	270	421	747	1,671	6,453
145,000	270	421	747	1,671	6,463
150,000	270	421	747	1,672	6,473
155,000	270	421	748	1,673	6,482
160,000	270	421	748	1,673	6,490
165,000	270	421	748	1,674	6,498
170,000	270	421	748	1,674	6,506
175,000	270	421	748	1,675	6,513
180,000	270	421	748	1,675	6,520
185,000	270	421	748	1,675	6,526
190,000	270	421	748	1,676	6,532
195,000	270	421	748	1,676	6,538
200,000	270	421	748	1,677	6,543
205,000	270	421	748	1,677	6,548
210,000	270	421	748	1,677	6,553
215,000	270	421	749	1,678	6,558
220,000	270	422	749	1,678	6,563
225,000	270	422	749	1,678	6,567
230,000	270	422	749	1,678	6,571
235,000	270	422	749	1,679	6,575
240,000	270	422	749	1,679	6,579
245,000	270	422	749	1,679	6,583
250,000	270	422	749	1,679	6,586
255,000	270	422	749	1,680	6,590
260,000	270	422	749	1,680	6,593
265,000	270	422	749	1,680	6,596
270,000	270	422	749	1,680	6,599
275,000	270	422	749	1,680	6,602
280,000	270	422	749	1,681	6,605
285,000	270	422	749	1,681	6,608
290,000	270	422	749	1,681	6,610
295,000	270	422	749	1,681	6,613

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	.05	.04	.03	.02	.01
300,000	270	422	749	1,681	6,615
310,000	270	422	749	1,682	6,620
320,000	270	422	749	1,682	6,625
330,000	270	422	749	1,682	6,629
340,000	270	422	750	1,682	6,633
350,000	270	422	750	1,683	6,636
360,000	270	422	750	1,683	6,640
370,000	270	422	750	1,683	6,643
380,000	270	422	750	1,683	6,646
390,000	270	422	750	1,683	6,649
400,000	270	422	750	1,684	6,652
410,000	270	422	750	1,684	6,655
420,000	270	422	750	1,684	6,657
430,000	270	422	750	1,684	6,660
440,000	270	422	750	1,684	6,662
450,000	270	422	750	1,684	6,664
460,000	270	422	750	1,685	6,667
470,000	270	422	750	1,685	6,669
480,000	270	422	750	1,685	6,671
490,000	270	422	750	1,685	6,672
500,000	270	422	750	1,685	6,674
510,000	270	422	750	1,685	6,676
520,000	270	422	750	1,685	6,678
530,000	270	422	750	1,685	6,679
540,000	270	422	750	1,685	6,681
550,000	270	422	750	1,686	6,682
560,000	270	422	750	1,686	6,684
570,000	270	422	750	1,686	6,685
580,000	270	422	750	1,686	6,687
590,000	270	422	750	1,686	6,688
600,000	270	422	750	1,686	6,689
610,000	270	422	750	1,686	6,690
620,000	270	422	750	1,686	6,692
630,000	270	422	750	1,686	6,693
640,000	270	422	750	1,686	6,694
650,000	270	422	750	1,686	6,695
660,000	270	422	750	1,686	6,696
670,000	270	422	750	1,687	6,697
680,000	270	422	750	1,687	6,698
690,000	270	422	750	1,687	6,699

APPROPRIATE SIZES OF SIMPLE RANDOM SAMPLES FOR SPECIFIC PERMISSIBLE
 ERRORS EXPRESSED AS ABSOLUTE PROPORTIONS WHEN THE TRUE PROPORTION
 IN THE POPULATION IS 0.5 AND THE CONFIDENCE LEVEL IS 90 PERCENT
 Desired level of reliability equal to 90 %

Population Size N	Sample size (n) for five different absolute d				
	.05	.04	.03	.02	.01
800,000	270	422	750	1,687	6,708
810,000	270	422	750	1,687	6,709
820,000	270	422	750	1,687	6,709
830,000	270	422	750	1,687	6,710
840,000	270	422	751	1,687	6,711
850,000	270	422	751	1,687	6,711
860,000	270	422	751	1,687	6,712
870,000	270	422	751	1,687	6,712
880,000	270	422	751	1,688	6,713
890,000	270	422	751	1,688	6,714
900,000	270	422	751	1,688	6,714
910,000	270	422	751	1,688	6,715
920,000	270	422	751	1,688	6,715
930,000	270	422	751	1,688	6,716
940,000	270	422	751	1,688	6,716
950,000	270	422	751	1,688	6,717
960,000	270	422	751	1,688	6,717
970,000	270	422	751	1,688	6,718
980,000	270	422	751	1,688	6,718
990,000	270	422	751	1,688	6,719
1,000,000	270	422	751	1,688	6,719
1,010,000	270	422	751	1,688	6,720
1,020,000	270	422	751	1,688	6,720
1,030,000	270	422	751	1,688	6,720
1,040,000	270	422	751	1,688	6,721
1,050,000	270	422	751	1,688	6,721
1,060,000	270	422	751	1,688	6,722
1,070,000	270	422	751	1,688	6,722
1,080,000	270	422	751	1,688	6,722
1,090,000	270	422	751	1,688	6,723
1,100,000	270	422	751	1,688	6,723
1,110,000	270	422	751	1,688	6,724
1,120,000	270	422	751	1,688	6,724
1,130,000	270	422	751	1,688	6,724
1,140,000	270	422	751	1,688	6,725
1,150,000	270	422	751	1,688	6,725
1,160,000	270	422	751	1,688	6,725
1,170,000	270	422	751	1,688	6,726
1,180,000	270	422	751	1,688	6,726
1,190,000	270	422	751	1,688	6,726

APPROPRIATE SIZES OF SIMPLE RANDOM SAMPLES FOR SPECIFIC PERMISSIBLE
 ERRORS EXPRESSED AS ABSOLUTE PROPORTIONS WHEN THE TRUE PROPORTION
 IN THE POPULATION IS 0.5 AND THE CONFIDENCE LEVEL IS 90 PERCENT
 Desired level of reliability equal to 90 %

Population Size N	Sample size (n) for five different absolute d				
	.05	.04	.03	.02	.01
1,000,000	270	422	751	1,688	6,719
1,050,000	270	422	751	1,688	6,721
1,100,000	270	422	751	1,688	6,723
1,150,000	270	422	751	1,688	6,725
1,200,000	270	422	751	1,688	6,727
1,250,000	270	422	751	1,688	6,728
1,300,000	270	422	751	1,689	6,730
1,350,000	270	422	751	1,689	6,731
1,400,000	270	422	751	1,689	6,732
1,450,000	270	422	751	1,689	6,733
1,500,000	270	422	751	1,689	6,734
1,550,000	270	422	751	1,689	6,735
1,600,000	270	422	751	1,689	6,736
1,650,000	270	422	751	1,689	6,737
1,700,000	270	422	751	1,689	6,738
1,750,000	270	422	751	1,689	6,739
1,800,000	270	422	751	1,689	6,739
1,850,000	270	422	751	1,689	6,740
1,900,000	270	422	751	1,689	6,741
1,950,000	270	422	751	1,689	6,741
2,000,000	270	422	751	1,689	6,742
2,050,000	270	422	751	1,689	6,742
2,100,000	270	422	751	1,689	6,743
2,150,000	270	422	751	1,689	6,743
2,200,000	270	422	751	1,689	6,744
2,250,000	270	422	751	1,689	6,744
2,300,000	270	422	751	1,690	6,745
2,350,000	270	422	751	1,690	6,745
2,400,000	270	422	751	1,690	6,746
2,450,000	270	422	751	1,690	6,746
2,500,000	270	422	751	1,690	6,746
2,550,000	270	422	751	1,690	6,747
2,600,000	270	422	751	1,690	6,747
2,650,000	270	422	751	1,690	6,747
2,700,000	270	422	751	1,690	6,748
2,750,000	270	422	751	1,690	6,748
2,800,000	270	422	751	1,690	6,748
2,850,000	270	422	751	1,690	6,749
2,900,000	270	422	751	1,690	6,749
2,950,000	270	422	751	1,690	6,749

APPROPRIATE SIZES OF SIMPLE RANDOM SAMPLES FOR SPECIFIC PERMISSIBLE
 ERRORS EXPRESSED AS ABSOLUTE PROPORTIONS WHEN THE TRUE PROPORTION
 IN THE POPULATION IS 0.5 AND THE CONFIDENCE LEVEL IS 90 PERCENT
 Desired level of reliability equal to 90 %

Population Size N	Sample size (n) for five different absolute d				
	.05	.04	.03	.02	.01
3,000,000	270	422	751	1,690	6,749
3,100,000	270	422	751	1,690	6,750
3,200,000	270	422	751	1,690	6,750
3,300,000	270	422	751	1,690	6,751
3,400,000	270	422	751	1,690	6,751
3,500,000	270	422	751	1,690	6,752
3,600,000	270	422	751	1,690	6,752
3,700,000	270	422	751	1,690	6,752
3,800,000	270	422	751	1,690	6,753
3,900,000	270	422	751	1,690	6,753
4,000,000	270	422	751	1,690	6,753
4,100,000	270	422	751	1,690	6,753
4,200,000	270	422	751	1,690	6,754
4,300,000	270	422	751	1,690	6,754
4,400,000	270	422	751	1,690	6,754
4,500,000	270	422	751	1,690	6,754
4,600,000	270	422	751	1,690	6,755
4,700,000	270	422	751	1,690	6,755
4,800,000	270	422	751	1,690	6,755
4,900,000	270	422	751	1,690	6,755
5,000,000	270	422	751	1,690	6,755
5,100,000	270	422	751	1,690	6,756
5,200,000	270	422	751	1,690	6,756
5,300,000	270	422	751	1,690	6,756
5,400,000	270	422	751	1,690	6,756
5,500,000	270	422	751	1,690	6,756
5,600,000	270	422	751	1,690	6,756
5,700,000	270	422	751	1,690	6,757
5,800,000	270	422	751	1,690	6,757
5,900,000	270	422	751	1,690	6,757
6,000,000	270	422	751	1,690	6,757
6,100,000	270	422	751	1,690	6,757
6,200,000	270	422	751	1,690	6,757
6,300,000	270	422	751	1,690	6,757
6,400,000	270	422	751	1,690	6,757
6,500,000	270	422	751	1,690	6,758
6,600,000	270	422	751	1,690	6,758
6,700,000	270	422	751	1,690	6,758
6,800,000	270	422	751	1,690	6,758
6,900,000	270	422	751	1,690	6,758

Table of Random Units

A TABLE OF 14,000 RANDOM UNITS

Line/Col.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1	10450	15911	01536	02011	81647	91646	69179	14194	62590	36207	20969	99570	91291	90700
2	22368	46573	25595	85393	30995	89198	27982	53402	93965	34095	52666	19174	39615	99505
3	24130	48360	22527	97265	76393	64509	15179	24630	49340	32081	30680	19655	63348	58629
4	42167	93093	06243	61680	07856	16376	39440	53537	71341	57004	00849	74917	97758	16379
5	37570	39975	81837	16656	06121	91782	60468	81305	49684	60672	14110	06927	01263	54613
6	77921	06907	11008	42751	27756	53498	18602	70659	90655	15053	21916	81825	44394	42880
7	99562	72905	56420	69994	98872	31016	71194	18738	44013	48840	63213	21069	10634	12952
8	96301	91977	05463	07972	18876	20922	94595	56869	69014	60045	18425	84903	42508	32307
9	89579	14342	63661	10281	17453	18103	57740	84378	25331	12566	58678	44947	05585	56941
10	85475	36857	43342	53988	53060	59533	38867	62300	08158	17983	16439	11458	18593	64952
11	28918	69578	88231	33276	70997	79936	56865	05559	90106	31595	01547	85590	91610	78188
12	63553	40961	48235	03427	49626	69445	18663	72695	52180	20847	12234	90511	33703	90322
13	09429	93969	52636	92737	88974	33488	36320	17617	30015	08272	84115	27156	30613	74951
14	10365	61129	87529	85689	48237	52267	67689	93394	01511	26358	85104	20285	29975	89868
15	07119	97336	71048	08178	77233	13916	47564	81056	97735	85977	29372	74461	28551	90707
16	51085	12765	51821	51259	77452	16308	60756	92144	49442	53900	70960	63990	75601	40719
17	02368	21382	52404	60268	89368	19885	55322	44819	01188	65255	64835	44919	05944	55157
18	01011	54092	33362	94904	31273	04146	18594	29852	71585	85030	51132	01915	92747	64951
19	52162	53916	46369	58586	23216	14513	83149	98736	23495	64350	94738	17752	35156	35749
20	07056	97628	33787	09998	42698	06691	76988	13602	51851	46104	88916	19509	25625	58104
21	48663	91245	85828	14346	09172	30168	90229	04734	59193	22178	30421	61666	99904	32812
22	54164	58492	22421	74103	47070	25306	76468	26384	58151	06646	21524	15227	96909	44592
23	32639	32363	05597	24200	13363	38005	94342	28728	35806	06912	17012	64161	18296	22851
24	29334	27001	87637	87308	58731	00256	45834	15398	46557	41135	10367	07684	36188	18510
25	02488	33062	28834	07351	19731	92420	60952	61280	50001	67658	32586	86679	50720	94953
26	81525	72295	04839	96423	24878	82651	66566	14778	76797	14780	13300	87074	79666	95725
27	29676	20591	68086	26432	46901	20849	89768	81536	86645	12659	92259	57102	80428	25280
28	00742	57392	39064	66432	84673	40027	32832	61362	98947	96067	64760	64584	96096	98253
29	05366	04213	25669	26422	44407	44048	37937	63904	45766	66134	75470	66520	34693	90449
30	91921	26418	64117	94305	26766	25940	39972	22209	71500	64568	91402	42416	07844	69618
31	00582	04711	87917	77341	42206	35126	74087	99547	81817	42607	43808	76655	62028	76630
32	00725	69884	62797	56170	86324	88072	76222	36086	84637	93161	76038	65855	77919	88006
33	69011	65797	95876	55293	18988	27354	26575	08625	40801	59920	29841	80150	12777	48501
34	25976	57948	29888	88604	67917	48708	18912	82271	65424	69774	33611	54262	85963	03547
35	09763	83473	73577	12908	30883	18317	28290	35797	05998	41688	34952	37888	38917	88050
36	91567	42595	27958	30134	04024	86385	29880	99730	55536	84855	29080	09250	79656	73211
37	17955	56349	90999	49127	20044	59931	06115	20542	18059	02008	73708	83517	36103	42791
38	46503	18584	18845	49618	02304	51038	20655	58727	28168	15475	56942	53389	20562	87338
39	92157	89634	94824	78171	84610	82834	09922	25417	44137	48413	25555	21246	35509	20468
40	14577	62765	35605	81263	39667	47358	56873	56307	61607	49518	89656	20103	77490	18062
41	98427	07523	33362	64270	01638	92477	66969	98420	04880	45585	46565	04102	46880	45709
42	34914	63976	88720	82765	34476	17032	87589	40836	32427	70002	70663	88863	77775	69348
43	70060	28277	39475	46473	23219	53416	94970	25832	69975	94884	19661	72828	00102	66794
44	53976	54914	06990	67245	68350	82948	11398	42878	80287	88267	47363	46634	06541	97809
45	76072	29515	40980	07391	58745	25774	22987	80059	39911	96189	41151	14222	60697	59583
46	90725	52210	83974	29992	65831	38857	50490	83765	55657	14361	31720	57375	56228	41546
47	64364	67412	33339	31926	14883	24413	59744	92351	97473	89286	35931	04110	23726	51900
48	08962	00358	31662	25388	61642	34072	81249	35648	56891	69352	48373	45578	78547	81788
49	95012	68379	93526	70765	10593	04542	76463	54328	02349	17247	28865	14777	62730	92277
50	15664	10493	20492	38391	91132	21999	59516	81652	27195	48223	46751	22923	32261	85653

Table of Random Units

A TABLE OF 14,000 RANDOM UNITS (Continued)

Line/Col.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
101	13284	16834	74151	92027	24670	36665	00770	22878	02179	51602	07270	76517	97275	45000
102	21224	00370	30420	03883	96648	89428	41583	17564	27395	63904	41548	49197	82277	24120
103	99052	47887	81085	64933	66279	80432	85793	83287	34142	13241	30590	97760	35848	91083
104	00199	50993	98603	38452	87890	94624	69721	57484	67501	77638	44331	11257	71131	11059
105	60578	06483	28733	37867	07936	98710	98539	27186	31237	80612	44488	97819	70401	95419
106	91240	18312	17441	01929	18163	69201	31211	54288	39296	37318	65724	90401	79017	62077
107	97458	14229	12063	59611	32249	90466	33216	19358	02591	54263	88449	01912	07436	50813
108	35249	38646	34475	72417	60514	69257	12489	51924	86871	92446	36607	11458	30449	52839
109	38980	46600	11759	11900	46743	27860	77940	39298	97838	95145	32378	68038	89351	37005
110	10750	52745	38749	87365	58959	53731	89295	59062	39404	13188	59060	70408	29812	83126
111	36247	27850	73958	20673	37800	63835	71051	84724	52492	22342	78071	17456	06104	18327
112	70994	66986	99744	72438	01174	42159	11392	20724	54322	36923	70009	23233	05438	50085
113	99638	94702	11463	18148	81396	80431	90628	52506	02016	85151	88598	47821	00265	82525
114	72055	15774	43857	99805	10419	76939	25993	03544	21560	83471	43989	90770	22965	44247
115	24038	65541	85788	55835	38835	59399	13790	35112	01324	39520	76210	22467	83275	32286
116	74976	14631	35998	28221	39470	91548	12854	30166	09073	75887	36782	00268	97121	67676
117	35553	71628	70189	26436	63407	91178	90348	55359	80392	41012	36270	77786	89578	21059
118	36676	12797	51434	82976	42010	26344	92920	92155	58807	54044	58581	95331	78929	73344
119	74815	67523	72985	23183	02446	63594	98924	20633	58942	85061	07648	70164	34994	67662
120	45246	89048	65173	50989	91060	89894	36063	32819	68559	99221	49475	50558	34698	71800
121	76509	47069	86378	41797	11910	49672	88575	97966	32486	10083	54728	81072	58975	30761
122	19689	90332	04315	21358	97248	11188	39062	63312	52496	07349	79178	33692	57352	72862
123	42751	35318	97513	61537	54955	08159	00337	80778	27507	95478	21252	12746	37554	97775
124	11946	22681	45045	13964	57517	59419	58045	44067	58716	58840	45557	96345	33271	53464
125	96518	48688	20996	11090	48386	57177	83867	86464	14342	21645	46717	72364	88954	55580
126	85726	86643	76899	84822	39098	36083	72505	92265	23107	60278	05822	46760	44294	07672
127	39737	42750	49068	70536	84864	64952	38404	94317	65402	13589	01055	79044	18306	83623
128	97025	66492	56177	04049	80312	48028	26408	43591	75528	65341	49044	95495	81256	53214
129	62814	08075	09788	56350	76787	51591	54509	49295	85830	59860	30883	89660	96142	16354
130	25578	22950	16227	83291	41737	79599	96191	71845	86899	70694	24290	01551	80092	82118
131	68763	69576	88991	49662	46704	63362	56625	00481	73323	91427	15264	06969	57048	54149
132	17900	00813	64361	60725	88974	61005	99709	30666	26451	11528	44323	34778	60342	60388
133	71944	80227	63581	71109	05624	43836	58254	26160	32116	63403	35404	57146	10909	07346
134	54684	93691	85132	64399	29182	44324	14491	55226	78793	34107	36374	48429	51376	09559
135	25946	27623	11258	65204	52832	50880	22273	05554	99521	73791	85744	29276	70326	60251
136	01853	39318	44961	44972	91766	90262	86073	08606	51826	18803	83448	31915	97764	75091
137	99083	88191	27662	99113	57174	35571	99884	13951	71057	53961	61448	74009	07322	80090
138	32021	45406	37945	75234	24327	86978	22644	87779	23753	99026	63898	54886	18051	96314
139	78755	47744	43776	83098	03225	14281	83637	55984	13300	52212	58781	14005	46502	04472
140	25282	69106	59180	16257	22810	43609	12224	25643	89884	31149	85423	32581	34374	70873
141	11959	94202	02743	86847	79725	51811	12998	76844	05320	54236	53891	70226	39632	84776
142	11644	13792	98190	01424	30078	28197	55583	05197	47714	68440	22016	79204	06962	94451
143	06307	97912	08110	59812	95448	43244	31262	88880	13040	16458	43813	89416	42482	33939
144	76285	75714	5...85	99296	52640	46518	55486	90754	88932	19937	57119	23251	55619	23679
145	35322	07589	39600	60866	63007	20007	66819	84164	61131	81429	60676	42807	78286	29015
146	78017	90928	90220	92503	83375	26986	74399	30885	88567	29169	72816	53357	15428	86932
147	44768	43342	20696	26331	43140	69744	82928	24988	94237	46138	77426	39039	55596	12655
148	25100	19396	14605	86803	51680	97678	24261	02464	86563	74812	60069	71674	15478	47642
149	83612	46623	62876	85197	07824	91392	58317	37726	84628	42221	10268	20092	15699	29167
150	41347	81666	82961	60413	71020	83658	02415	33322	66936	98712	46795	16308	28413	05417

Table of Random Units

A TABLE OF 14,000 RANDOM UNITS (Continued)

Line/Col.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
151	38128	51178	75096	13609	16110	73533	42564	59870	29399	67834	91055	89917	51096	89011
152	60950	00455	73254	98067	50717	13878	03216	78274	65963	37011	91283	33914	91303	49326
153	90524	17320	29832	96118	75792	25326	22940	24904	80523	38928	91374	55597	97567	38914
154	49897	18278	67160	39408	97056	43517	84426	50650	20247	19293	02019	14790	02852	05819
155	18494	99209	81060	19488	65596	59787	47939	91225	98768	43688	00438	05548	09443	82897
156	65373	72984	30171	37741	70203	94094	87261	30056	58124	70133	18936	02138	59372	09075
157	40653	12843	04213	70925	95360	55774	76439	61768	52817	81151	52188	31940	54273	49032
158	51638	22238	56344	44587	83231	50317	74541	07719	25472	41602	77318	15145	57515	07633
159	69742	99303	62578	83575	30337	07488	51941	84316	42067	49692	28616	29101	03013	73449
160	58012	74072	67488	74580	47992	69482	58624	17106	47538	13452	22620	24260	40155	74716
161	18348	19855	42887	08279	43206	47077	42637	45606	00011	20662	14642	49984	04509	56399
162	59614	09193	58064	29086	44385	45740	70752	05663	49081	26960	57454	99264	24142	74646
163	75688	28630	39210	52897	62748	72658	98059	67202	72789	01869	13496	14663	87645	89715
164	13941	77802	69101	70061	35460	34576	15412	81304	58757	35498	94830	75521	00603	97701
165	96656	86420	96475	86458	54463	96419	55417	41375	76886	19008	66877	35934	59801	00497
166	03363	82042	15942	14549	38324	87094	19069	67590	11087	68570	22591	65232	85915	91499
167	70366	08390	69155	25496	13240	57407	91407	49160	07379	34444	94567	66035	38918	05706
168	47870	36605	12927	16043	53257	93796	52721	73120	48025	76074	95605	67422	41646	14557
169	79504	77606	22761	30518	28373	73898	30550	76684	77366	32276	04690	61667	64798	66276
170	46967	74841	50823	15339	37755	98995	40162	89561	69199	42257	11647	47603	48779	07997
171	14558	50769	35444	59030	87516	48193	02945	00922	48189	04724	21263	20892	92955	90251
172	12440	25057	01132	38611	28135	68089	10954	10097	54243	06460	50856	65435	79377	53891
173	32293	29938	68653	10497	98919	46587	77701	99119	93165	67788	17638	23097	21468	36992
174	10640	21875	72462	77981	56550	55999	87310	69643	45124	00349	25748	00844	06831	30651
175	47615	23169	39571	56972	20628	21788	51736	33133	72696	32605	41569	76148	91544	21121
176	16948	11128	71624	72754	49084	06303	27830	45817	67867	18062	87453	17226	72904	71471
177	21258	61092	66634	70335	92448	17354	83432	49608	66520	06442	59664	20420	39201	69549
178	15072	48853	15178	30730	47481	48490	41436	25015	49932	20474	53821	51015	70841	32496
179	99154	57412	09858	65071	70655	71479	63520	31357	58968	06729	34465	70685	04184	25224
180	08769	61089	23706	32994	35426	36696	63988	98844	37533	08269	27021	45886	22835	76454
181	67323	57839	61114	62192	47547	58023	64630	34886	98777	75442	95592	06141	45096	73187
182	09255	13986	84834	20764	72206	89393	34548	93438	88730	61805	78955	18952	46436	56749
183	36304	74712	00374	10107	85061	69228	81969	92216	03568	39630	81869	52824	50937	27954
184	15884	67429	86612	47367	10242	44880	12060	44309	46629	55105	66793	93173	00480	13311
185	18745	32031	35303	08134	33925	03044	59929	95418	04917	57596	24878	61733	92834	64454
186	72934	40086	88292	65728	38300	42323	64068	98373	48971	09049	59943	36538	05976	82118
187	17626	02944	20910	57682	80181	38579	24580	90529	52303	50436	29401	57824	86039	81062
188	27117	61399	50967	41399	81636	16663	15634	79717	94696	59240	25543	97989	63306	90446
189	03995	18678	90012	63645	85701	85269	62263	68331	00389	72571	15210	20769	44686	96176
190	67392	89421	09623	80725	62620	84162	87368	29560	00519	84545	08004	24526	41252	14621
191	04910	12261	37566	80016	21245	69377	50420	85658	55263	68667	78770	04533	14513	18977
192	81453	20283	79929	59839	23875	13245	46808	74124	74703	35769	95588	21014	37076	39176
193	19480	75790	48539	23703	15537	48885	02861	86587	74539	65227	90799	58789	96257	02705
194	21456	13162	74608	81011	55512	07481	93551	72189	76261	91206	89941	15132	37738	59254
195	89406	20912	46189	76376	25538	87212	20748	12831	57166	35026	16817	79121	18929	40628
196	09860	07414	55977	16419	01101	69343	13305	94302	80703	57910	36933	57771	42546	03641
197	86541	24681	23421	13521	28000	94017	07423	57523	97234	63951	42876	46829	09781	58166
198	10414	96941	06205	72222	57167	83902	07460	09507	10690	08358	07685	44472	64220	27999
199	49942	06683	41479	58982	56288	42853	92196	20632	62045	78812	35895	51851	83534	16699
200	23995	68882	42291	23374	24299	27024	67460	94783	40937	16961	26053	78749	46794	21959

Table of Random Units

A TABLE OF 14,000 RANDOM UNITS (Continued)

Line/Col.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
51	16408	81999	04153	53381	79401	21438	83035	92350	36693	31238	59649	91754	72772	02338
52	18629	81952	35520	91962	04739	13092	97662	24822	94730	06496	35090	04822	86772	98289
53	73115	35101	47498	87637	99016	71060	88824	71013	18735	20286	23153	72924	35165	43040
54	57491	16703	23167	49323	45021	33132	12544	41035	80780	45393	44812	12515	98931	91202
55	30405	83946	23792	14422	15059	45799	22716	19792	09983	74353	68668	30429	70735	25499
56	16631	35006	85900	98275	32388	52390	16815	69298	82732	38490	73817	32523	41961	44437
57	96773	20206	42559	78985	05300	22164	24369	54224	35083	19687	11052	91491	60383	19746
58	38935	64202	14349	82674	66523	44133	00697	35552	35970	19124	63318	29686	03387	59846
59	31624	76384	17403	53363	44167	64486	64758	75366	76554	31601	12614	33072	60332	92325
60	78919	19474	23632	27889	47914	02584	37680	20801	72152	39339	34806	06930	85001	87820
61	03931	33309	57047	74211	63445	17361	62825	39908	05607	91284	68833	25570	38818	46920
62	74426	33278	43972	10119	89917	15665	52872	73823	73144	88662	88970	74492	51805	99378
63	09066	00903	20795	95452	92648	45454	09552	88815	16553	51125	79375	97596	16296	66092
64	42238	12426	87025	14267	20979	04508	64535	31355	86064	29472	47689	05974	52468	16834
65	16153	08002	26504	41744	81959	65642	74240	56302	00033	67107	77510	70625	28725	34191
66	21457	40742	29820	96783	29400	21840	15035	34537	33310	06116	95240	15957	16572	06004
67	21581	57802	02050	89728	17937	37621	47075	42080	97403	48626	68995	43805	33386	21597
68	55612	78095	83197	33732	05810	24813	86902	60397	16489	03264	88525	42786	05269	92532
69	44657	66999	99324	51281	84463	60563	79312	93454	68876	25471	93911	25650	12682	73572
70	91340	84979	46949	81973	37949	61023	43997	15263	80644	43942	89203	71795	99533	50501
71	91227	21199	31935	27022	84067	05462	35216	14486	29891	68607	41867	14951	91696	85065
72	50001	38140	66321	19924	72163	09538	12151	06878	91903	18749	34405	56087	82790	70925
73	65390	05224	72958	28609	81406	39147	25549	48542	42627	45233	57202	94617	23772	07896
74	27504	96131	83944	41575	10573	08619	64482	73923	36152	05184	94142	25299	84387	34925
75	37169	94851	39117	89632	00959	16487	65536	49071	39782	17095	02330	74301	00275	48280
76	11508	70225	51111	38351	19444	66499	71945	05422	13442	78675	84081	66938	93654	59894
77	37449	30362	06694	54690	04052	53115	62757	95348	78662	11163	81651	50245	34971	52924
78	46515	70331	85922	38329	57015	15765	97161	17869	45349	61796	66345	81073	49106	79860
79	30986	81223	42416	58353	21532	30502	32305	86482	05174	07901	54339	58861	74818	46942
80	63798	64995	46583	09765	44160	78128	83991	42865	92520	83531	80377	35909	81250	54238
81	82486	84846	99254	67632	43218	50076	21361	64818	51202	88124	41870	52689	51275	83556
82	21885	32906	92431	09060	64297	51674	64126	62570	26123	05155	59194	52799	28225	85762
83	60336	98782	07408	53458	13564	59089	26445	29789	85205	41001	12535	12133	14645	23541
84	43937	46891	24010	25560	86355	33941	25788	54990	71899	15475	95434	98227	21824	19585
85	97656	63175	89303	16275	07100	92063	21942	18611	47348	20203	18534	03862	78095	50136
86	03299	01221	05418	38982	55758	92237	26759	86367	21216	98442	08303	56613	91511	75928
87	79826	06486	03574	17668	07785	76020	79924	25651	83325	88428	85076	72811	22717	50585
88	85636	68335	47539	03129	65651	11977	02510	26113	99447	68645	34327	15152	55230	93448
89	18039	14367	61337	06177	12143	46609	32989	74014	64708	00533	35398	58408	13261	47906
90	08362	15656	60627	36478	65648	18764	53412	09013	07832	41574	17639	82163	60859	75567
91	79556	29088	04142	16268	15387	12856	66227	38358	22478	73373	88732	09443	82558	05250
92	92608	82674	27072	32534	17075	27698	98204	63863	11951	34648	88022	56148	34925	57031
93	23982	25835	40055	67006	12293	02753	14827	22235	35071	99704	37543	11601	35503	95171
94	09915	96306	05908	97901	28395	14186	00821	80703	70426	75647	76310	88717	37890	40129
95	50937	33300	26695	62247	69927	76123	50842	43834	86654	70959	79725	93872	28117	19233
96	42488	78077	69882	61657	34136	79180	97526	43092	04098	73571	80799	76536	71255	64239
97	46764	86273	63003	93017	31204	36692	40202	35275	57306	55543	53203	18098	47825	55684
98	03237	45430	55417	63282	90816	17349	88298	90183	36600	78406	06216	95787	42579	90730
99	86591	81482	52667	61583	14972	90053	89534	76036	49199	43716	97548	04379	46370	25673
100	38534	01715	94964	87288	65680	43772	39560	12918	86537	62738	19636	51132	25739	56947