# Appendix B. Random Number Tables

*Reproduced from Million Random Digits, used with permission of the Rand Corporation, Copyright, 1955, The Free Press (*http://www.rand.org/publications/classics/randomdigits)

All of the sampling plans presented in this handbook are based on the assumption that the packages constituting the sample are chosen at random from the inspection lot. Randomness in this instance means that every package in the lot has an equal chance of being selected as part of the sample. It does not matter what other packages have already been chosen, what the package net contents are, or where the package is located in the lot.

To obtain a random sample, two steps are necessary. First it is necessary to identify each package in the lot of packages with a specific number whether on the shelf, in the warehouse, or coming off the packaging line. Then it is necessary to obtain a series of random numbers. These random numbers indicate exactly which packages in the lot shall be taken for the sample.

**The Random Number Table**

The random number tables in Appendix B are composed of the digits from 0 through 9, with approximately equal frequency of occurrence. This appendix consists of 8 pages. On each page digits are printed in blocks of columns and blocks of rows. The printing of the table in blocks is intended only to make it easier to locate specific columns and rows.

**Random Starting Place**

Starting Page. The Random Digit pages are pages 110 through 116. You can use the day of the week to determine the starting page or use the first page for the first lot you test in a location, the second page for the second lot, and so on, moving to the following page for each new lot.

Starting Column and Row. You may choose a starting page in the random number table and with eyes closed, drop a pencil anywhere on the page to indicate a starting place in the table.

For example, assume that testing takes place on the 3rd day of the week. Start with Table 3 of Appendix B. Assume you dropped your pencil on the page and it has indicated a starting place at Column 22, Row 45. That number is 1.

If one‑digit random numbers are needed, record them, going down the column to the bottom of the page and then to the top of the next column, and so on. Ignore duplicates and record zero (0) as ten (10). Following on from the last example, these numbers are 3, 2, 9, 8, etc. If two‑digit random numbers are needed, rule off the pages, and further pages if necessary, in columns of two digits each. If there is a single column left on the page, ignore this column, and rule the next page in columns of two. Again, ignore duplicate numbers and record 00 as 100. For example, using the same starting place as in the last example (Table 3, Column 22, Row 45), the recorded two‑digit numbers would be 11, 34, 26, 95, etc. When three‑digit numbers are needed, rule the page in columns of three. Record 000 as 1000. Starting on Table 3, Column 22, Row 45, the recorded numbers would be 119, 346, 269, 959, etc.

**TABLE 1 – RANDOM DIGITS**

11164 36318 75061 37674 26320 75100 10431 20418 19228 91792

21215 91791 76831 58678 87054 31687 93205 43685 19732 08468

10438 44482 66558 37649 08882 90870 12462 41810 01806 02977

36792 26236 33266 66583 60881 97395 20461 36742 02852 50564

73944 04773 12032 51414 82384 38370 00249 80709 72605 67497

49563 12872 14063 93104 78483 72717 68714 18048 25005 04151

64208 48237 41701 73117 33242 42314 83049 21933 92813 04763

51486 72875 38605 29341 80749 80151 33835 52602 79147 08868

99756 26360 64516 17971 48478 09610 04638 17141 09227 10606

71325 55217 13015 72907 00431 45117 33827 92873 02953 85474

65285 97198 12138 53010 94601 15838 16805 61004 43516 17020

17264 57327 38224 29301 31381 38109 34976 65692 98566 29550

95639 99754 31199 92558 68368 04985 51092 37780 40261 14479

61555 76404 86210 11808 12841 45147 97438 60022 12645 62000

78137 98768 04689 87130 79225 08153 84967 64539 79493 74917

62490 99215 84987 28759 19177 14733 24550 28067 68894 38490

24216 63444 21283 07044 92729 37284 13211 37485 10415 36457

16975 95428 33226 55903 31605 43817 22250 03918 46999 98501

59138 39542 71168 57609 91510 77904 74244 50940 31553 62562

29478 59652 50414 31966 87912 87154 12944 49862 96566 48825

96155 95009 27429 72918 08457 78134 48407 26061 58754 05326

29621 66583 62966 12468 20245 14015 04014 35713 03980 03024

12639 75291 71020 17265 41598 64074 64629 63293 53307 48766

14544 37134 54714 02401 63228 26831 19386 15457 17999 18306

83403 88827 09834 11333 68431 31706 26652 04711 34593 22561

67642 05204 30697 44806 96989 68403 85621 45556 35434 09532

64041 99011 14610 40273 09482 62864 01573 82274 81446 32477

17048 94523 97444 59904 16936 39384 97551 09620 63932 03091

93039 89416 52795 10631 09728 68202 20963 02477 55494 39563

82244 34392 96607 17220 51984 10753 76272 50985 97593 34320

96990 55244 70693 25255 40029 23289 48819 07159 60172 81697

09119 74803 97303 88701 51380 73143 98251 78635 27556 20712

57666 41204 47589 78364 38266 94393 70713 53388 79865 92069

46492 61594 26729 58272 81754 14648 77210 12923 53712 87771

08433 19172 08320 20839 13715 10597 17234 39355 74816 03363

10011 75004 86054 41190 10061 19660 03500 68412 57812 57929

92420 65431 16530 05547 10683 88102 30176 84750 10115 69220

35542 55865 07304 47010 43233 57022 52161 82976 47981 46588

86595 26247 18552 29491 33712 32285 64844 69395 41387 87195

72115 34985 58036 99137 47482 06204 24138 24272 16196 04393

07428 58863 96023 88936 51343 70958 96768 74317 27176 29600

35379 27922 28906 55013 26937 48174 04197 36074 65315 12537

10982 22807 10920 26299 23593 64629 57801 10437 43965 15344

90127 33341 77806 12446 15444 49244 47277 11346 15884 28131

63002 12990 23510 68774 48983 20481 59815 67248 17076 78910

40779 86382 48454 65269 91239 45989 45389 54847 77919 41105

43216 12608 18167 84631 94058 82458 15139 76856 86019 47928

96167 64375 74108 93643 09204 98855 59051 56492 11933 64958

70975 62693 35684 72607 23026 37004 32989 24843 01128 74658

85812 61875 23570 75754 29090 40264 80399 47254 40135 69916

**TABLE 2 – RANDOM DIGITS**

40603 16152 83235 37361 98783 24838 39793 80954 76865 32713

40941 53585 69958 60916 71018 90561 84505 53980 64735 85140

73505 83472 55953 17957 11446 22618 34771 25777 27064 13526

39412 16013 11442 89320 11307 49396 39805 12249 57656 88686

57994 76748 54627 48511 78646 33287 35524 54522 08795 56273

61834 59199 15469 82285 84164 91333 90954 87186 31598 25942

91402 77227 79516 21007 58602 81418 87838 18443 76162 51146

58299 83880 20125 10794 37780 61705 18276 99041 78135 99661

40684 99948 33880 76413 63839 71371 32392 51812 48248 96419

75978 64298 08074 62055 73864 01926 78374 15741 74452 49954

34556 39861 88267 76068 62445 64361 78685 24246 27027 48239

65990 57048 25067 77571 77974 37634 81564 98608 37224 49848

16381 15069 25416 87875 90374 86203 29677 82543 37554 89179

52458 88880 78352 67913 09245 47773 51272 06976 99571 33365

33007 85607 92008 44897 24964 50559 79549 85658 96865 24186

38712 31512 08588 61490 72294 42862 87334 05866 66269 43158

58722 03678 19186 69602 34625 75958 56869 17907 81867 11535

26188 69497 51351 47799 20477 71786 52560 66827 79419 70886

12893 54048 07255 86149 99090 70958 50775 31768 52903 27645

33186 81346 85095 37282 85536 72661 32180 40229 19209 74939

79893 29448 88392 54211 61708 83452 61227 81690 42265 20310

48449 15102 44126 19438 23382 14985 37538 30120 82443 11152

94205 04259 68983 50561 06902 10269 22216 70210 60736 58772

38648 09278 81313 77400 41126 52614 93613 27263 99381 49500

04292 46028 75666 26954 34979 68381 45154 09314 81009 05114

17026 49737 85875 12139 59391 81830 30185 83095 78752 40899

48070 76848 02531 97737 10151 18169 31709 74842 85522 74092

30159 95450 83778 46115 99178 97718 98440 15076 21199 20492

12148 92231 31361 60650 54695 30035 22765 91386 70399 79270

73838 77067 24863 97576 01139 54219 02959 45696 98103 78867

73547 43759 95632 39555 74391 07579 69491 02647 17050 49869

07277 93217 79421 21769 83572 48019 17327 99638 87035 89300

65128 48334 07493 28098 52087 55519 83718 60904 48721 17522

38716 61380 60212 05099 21210 22052 01780 36813 19528 07727

31921 76458 73720 08657 74922 61335 41690 41967 50691 30508

57238 27464 61487 52329 26150 79991 64398 91273 26824 94827

24219 41090 08531 61578 08236 41140 76335 91189 66312 44000

31309 49387 02330 02476 96074 33256 48554 95401 02642 29119

20750 97024 72619 66628 66509 31206 55293 24249 02266 39010

28537 84395 26654 37851 80590 53446 34385 86893 87713 26842

97929 41220 86431 94485 28778 44997 38802 56594 61363 04206

40568 33222 40486 91122 43294 94541 40988 02929 83190 74247

41483 92935 17061 78252 40498 43164 68646 33023 64333 64083

93040 66476 24990 41099 65135 37641 97613 87282 63693 55299

76869 39300 84978 07504 36835 72748 47644 48542 25076 68626

02982 57991 50765 91930 21375 35604 29963 13738 03155 59914

94479 76500 39170 06629 10031 48724 49822 44021 44335 26474

52291 75822 95966 90947 65031 75913 52654 63377 70664 60082

03684 03600 52831 55381 97013 19993 41295 29118 18710 64851

58939 28366 86765 67465 45421 74228 01095 50987 83833 37216

**TABLE 3 – RANDOM DIGITS**

37100 62492 63642 47638 13925 80113 88067 42575 44078 62703

53406 13855 38519 29500 62479 01036 87964 44498 07793 21599

55172 81556 18856 59043 64315 38270 25677 01965 21310 28115

40353 84807 47767 46890 16053 32415 60259 99788 55924 22077

18899 09612 77541 57675 70153 41179 97535 82889 27214 03482

68141 25340 92551 11326 60939 79355 41544 88926 09111 86431

51559 91159 81310 63251 91799 41215 87412 35317 74271 11603

92214 33386 73459 79359 65867 39269 57527 69551 17495 91456

15089 50557 33166 87094 52425 21211 41876 42525 36625 63964

96461 00604 11120 22254 16763 19206 67790 88362 01880 37911

28177 44111 15705 73835 69399 33602 13660 84342 97667 80847

66953 44737 81127 07493 07861 12666 85077 95972 96556 80108

19712 27263 84575 49820 19837 69985 34931 67935 71903 82560

68756 64757 19987 92222 11691 42502 00952 47981 97579 93408

75022 65332 98606 29451 57349 39219 08585 31502 96936 96356

11323 70069 90269 89266 46413 61615 66447 49751 15836 97343

55208 63470 18158 25283 19335 53893 87746 72531 16826 52605

11474 08786 05594 67045 13231 51186 71500 50498 59487 48677

81422 86842 60997 79669 43804 78690 58358 87639 24427 66799

21771 75963 23151 90274 08275 50677 99384 94022 84888 80139

42278 12160 32576 14278 34231 20724 27908 02657 19023 07190

17697 60114 63247 32096 32503 04923 17570 73243 76181 99343

05686 30243 34124 02936 71749 03031 72259 26351 77511 00850

52992 46650 89910 57395 39502 49738 87854 71066 84596 33115

94518 93984 81478 67750 89354 01080 25988 84359 31088 13655

00184 72186 78906 75480 71140 15199 69002 08374 22126 23555

87462 63165 79816 61630 50140 95319 79205 79202 67414 60805

88692 58716 12273 48176 86038 78474 76730 82931 51595 20747

20094 42962 41382 16768 13261 13510 04822 96354 72001 68642

60935 81504 50520 82153 27892 18029 79663 44146 72876 67843

51392 85936 43898 50596 81121 98122 69196 54271 12059 62539

54239 41918 79526 46274 24853 67165 12010 04923 20273 89405

57892 73394 07160 90262 48731 46648 70977 58262 78359 50436

02330 74736 53274 44468 53616 35794 54838 39114 68302 26855

76115 29247 55342 51299 79908 36613 68361 18864 13419 34950

63312 81886 29085 20101 38037 34742 78364 39356 40006 49800

27632 21570 34274 56426 00330 07117 86673 46455 66866 76374

06335 62111 44014 52567 79480 45886 92585 87828 17376 35254

64142 87676 21358 88773 10604 62834 63971 03989 21421 76086

28436 25468 75235 75370 63543 76266 27745 31714 04219 00699

09522 83855 85973 15888 29554 17995 37443 11461 42909 32634

93714 15414 93712 02742 34395 21929 38928 31205 01838 60000

15681 53599 58185 73840 88758 10618 98725 23146 13521 47905

77712 23914 08907 43768 10304 61405 53986 61116 76164 54958

78453 54844 61509 01245 91199 07482 02534 08189 62978 55516

24860 68284 19367 29073 93464 06714 45268 60678 58506 23700

37284 06844 78887 57276 42695 03682 83240 09744 63025 60997

35488 52473 37634 32569 39590 27379 23520 29714 03743 08444

51595 59909 35223 44991 29830 56614 59661 83397 38421 17503

90660 35171 30021 91120 78793 16827 89320 08260 09181 53616

**TABLE 4 – RANDOM DIGITS**

54723 56527 53076 38235 42780 22716 36400 48028 78196 92985

84828 81248 25548 34075 43459 44628 21866 90350 82264 20478

65799 01914 81363 05173 23674 41774 25154 73003 87031 94368

87917 38549 48213 71708 92035 92527 55484 32274 87918 22455

26907 88173 71189 28377 13785 87469 35647 19695 33401 51998

68052 65422 88460 06352 42379 55499 60469 76931 83430 24560

42587 68149 88147 99700 56124 53239 38726 63652 36644 50876

97176 55416 67642 05051 89931 19482 80720 48977 70004 03664

53295 87133 38264 94708 00703 35991 76404 82249 22942 49659

23011 94108 29196 65187 69974 01970 31667 54307 40032 30031

75768 49549 24543 63285 32803 18301 80851 89301 02398 99891

86668 70341 66460 75648 78678 27770 30245 44775 56120 44235

56727 72036 50347 33521 05068 47248 67832 30960 95465 32217

27936 78010 09617 04408 18954 61862 64547 52453 83213 47833

31994 69072 37354 93025 38934 90219 91148 62757 51703 84040

02985 95303 15182 50166 11755 56256 89546 31170 87221 63267

89965 10206 95830 95406 33845 87588 70237 84360 19629 72568

45587 29611 98579 42481 05359 36578 56047 68114 58583 16313

01071 08530 74305 77509 16270 20889 99753 88035 55643 18291

90209 68521 14293 39194 68803 32052 39413 26883 83119 69623

04982 68470 27875 15480 13206 44784 83601 03172 07817 01520

19740 24637 97377 32112 74283 69384 49768 64141 02024 85380

50197 79869 86497 68709 42073 28498 82750 43571 77075 07123

46954 67536 28968 81936 95999 04319 09932 66223 45491 69503

82549 62676 31123 49899 70512 95288 15517 85352 21987 08669

61798 81600 80018 84742 06103 60786 01408 75967 29948 21454

57666 29055 46518 01487 30136 14349 56159 47408 78311 25896

29805 64994 66872 62230 41385 58066 96600 99301 85976 84194

06711 34939 19599 76247 87879 97114 74314 39599 43544 36255

13934 46885 58315 88366 06138 37923 11192 90757 10831 01580

28549 98327 99943 25377 17628 65468 07875 16728 22602 33892

40871 61803 25767 55484 90997 86941 64027 01020 39518 34693

47704 38355 71708 80117 11361 88875 22315 38048 42891 87885

62611 19698 09304 29265 07636 08508 23773 56545 08015 28891

03047 83981 11916 09267 67316 87952 27045 62536 32180 60936

26460 50501 31731 18938 11025 18515 31747 96828 58258 97107

01764 25959 69293 89875 72710 49659 66632 25314 95260 22146

11762 54806 02651 52912 32770 64507 59090 01275 47624 16124

31736 31695 11523 64213 91190 10145 34231 36405 65860 48771

97155 48706 52239 21831 49043 18650 72246 43729 63368 53822

31181 49672 17237 04024 65324 32460 01566 67342 94986 36106

32115 82683 67182 89030 41370 50266 19505 57724 93358 49445

07068 75947 71743 69285 30395 81818 36125 52055 20289 16911

26622 74184 75166 96748 34729 61289 36908 73686 84641 45130

02805 52676 22519 47848 68210 23954 63085 87729 14176 45410

32301 58701 04193 30142 99779 21697 05059 26684 63516 75925

26339 56909 39331 42101 01031 01947 02257 47236 19913 90371

95274 09508 81012 42413 11278 19354 68661 04192 36878 84366

24275 39632 09777 98800 48027 96908 08177 15364 02317 89548

36116 42128 65401 94199 51058 10759 47244 99830 64255 40516

**TABLE 5 – RANDOM DIGITS**

47505 02008 20300 87188 42505 40294 04404 59286 95914 07191

13350 08414 64049 94377 91059 74531 56228 12307 87871 97064

33006 92690 69248 97443 38841 05051 33756 24736 43508 53566

55216 63886 06804 11861 30968 74515 40112 40432 18682 02845

21991 26228 14801 19192 45110 39937 81966 23258 99348 61219

71025 28212 10474 27522 16356 78456 46814 28975 01014 91458

65522 15242 84554 74560 26206 49520 65702 54193 25583 54745

27975 54923 90650 06170 99006 75651 77622 20491 53329 12452

07300 09704 36099 61577 34632 55176 87366 19968 33986 46445

54357 13689 19569 03814 47873 34086 28474 05131 46619 41499

00977 04481 42044 08649 83107 02423 46919 59586 58337 32280

13920 78761 12311 92808 71581 85251 11417 85252 61312 10266

08395 37043 37880 34172 80411 05181 58091 41269 22626 64799

46166 67206 01619 43769 91727 06149 17924 42628 57647 76936

87767 77607 03742 01613 83528 66251 75822 83058 97584 45401

29880 95288 21644 46587 11576 30568 56687 83239 76388 17857

36248 36666 14894 59273 04518 11307 67655 08566 51759 41795

12386 29656 30474 25964 10006 86382 46680 93060 52337 56034

52068 73801 52188 19491 76221 45685 95189 78577 36250 36082

41727 52171 56719 06054 34898 93990 89263 79180 39917 16122

49319 74580 57470 14600 22224 49028 93024 21414 90150 15686

88786 76963 12127 25014 91593 98208 27991 12539 14357 69512

84866 95202 43983 72655 89684 79005 85932 41627 87381 38832

11849 26482 20461 99450 21636 13337 55407 01897 75422 05205

54966 17594 57393 73267 87106 26849 68667 45791 87226 74412

10959 33349 80719 96751 25752 17133 32786 34368 77600 41809

22784 07783 35903 00091 73954 48706 83423 96286 90373 23372

86037 61791 33815 63968 70437 33124 50025 44367 98637 40870

80037 65089 85919 74391 36170 82988 52311 59180 37846 98028

72751 84359 15769 13615 70866 37007 74565 92781 37770 76451

18532 03874 66220 79050 66814 76341 42452 65365 07167 90134

22936 22058 49171 11027 07066 14606 11759 19942 21909 15031

66397 76510 81150 00704 94990 68204 07242 82922 65745 51503

89730 23272 65420 35091 16227 87024 56662 59110 11158 67508

81821 75323 96068 91724 94679 88062 13729 94152 59343 07352

94377 82554 53586 11432 08788 74053 98312 61732 91248 23673

68485 49991 53165 19865 30288 00467 98105 91483 89389 61991

07330 07184 86788 64577 47692 45031 36325 47029 27914 24905

10993 14930 35072 36429 26176 66205 07758 07982 33721 81319

20801 15178 64453 83357 21589 23153 60375 63305 37995 66275

79241 35347 66851 79247 57462 23893 16542 55775 06813 63512

43593 39555 97345 58494 52892 55080 19056 96192 61508 23165

29522 62713 33701 17186 15721 95018 76571 58615 35836 66260

88836 47290 67274 78362 84457 39181 17295 39626 82373 10883

65905 66253 91482 30689 81313 01343 37188 37756 04182 19376

44798 69371 07865 91756 42318 63601 53872 93610 44142 89830

35510 99139 32031 27925 03560 33806 85092 70436 94777 57963

50125 93223 64209 49714 73379 89975 38567 44316 60262 10777

25173 90038 63871 40418 23818 63250 05118 52700 92327 55449

68459 90094 44995 93718 83654 79311 18107 12557 09179 28416

**TABLE 6 – RANDOM DIGITS**

96195 07059 13266 31389 87612 88004 31843 83469 22793 14312

22408 94958 19095 58035 43831 32354 83946 57964 70404 32017

53896 23508 16227 56929 74329 12264 26047 66844 47383 42202

22565 02475 00258 79018 70090 37914 27755 00872 71553 56684

49438 20772 60846 69732 07612 70474 46483 21053 95475 53448

65620 34684 00210 04863 01373 19978 61682 69315 46766 83768

20246 26941 41298 04763 19769 25865 95937 03545 93561 73871

09433 09167 35166 32731 73299 41137 37328 28301 61629 05040

95552 73456 16578 88140 80059 50296 07656 01396 83099 09718

76053 05150 69125 69442 16509 03495 26427 58780 27576 31342

34822 35843 78468 82380 52313 71070 71273 10768 86101 51474

07753 04073 58520 80022 28185 16432 86909 82347 10548 83929

04204 94434 62798 81902 29977 57258 87826 35003 46449 76636

96770 19440 29700 42093 64369 69176 29732 37389 34054 28680

65989 62843 10917 34458 81936 84775 39415 10622 36102 16753

06644 94784 66995 61812 54215 01336 75887 57685 66114 76984

88950 46077 34651 12038 87914 20785 39705 73898 12318 78334

21482 95422 02002 33671 46764 50527 46276 77570 68457 62199

55137 61039 02006 69913 11291 87215 89991 26003 55271 08153

98441 81529 59607 65225 49051 28328 85535 37003 87211 10204

57168 30458 23892 07825 53447 53511 09315 42552 43135 57892

71886 65334 38013 09379 83976 42441 14086 33197 82671 05037

40418 59504 52383 07232 14179 59693 37668 26689 93865 78925

28833 76661 47277 92935 63193 94862 60560 72484 29755 40894

37883 62124 62199 49542 55083 20575 44636 92282 52105 77664

44882 33592 66234 13821 86342 00135 87938 57995 34157 99858

19082 13873 07184 21566 95320 28968 31911 06288 77271 76171

45316 29283 89318 55806 89338 79231 91545 55477 19552 03471

22788 55433 31188 74882 44858 69655 08096 70982 61300 23792

08293 86193 05026 21255 63082 92946 28748 25423 45282 57821

29223 70541 67115 84584 10100 33854 26466 77796 70698 99393

22681 80110 31595 09246 39147 11158 43298 36220 88841 11271

74580 90354 43744 22178 38084 60027 24201 71686 59767 33274

69093 71364 08107 96952 50005 30297 97417 89575 04676 35616

40456 91234 58090 65342 95002 28447 21'700 43137 13746 85959

72927 67349 83962 58912 59734 76323 02913 46306 53956 38936

61869 33093 81129 06481 89281 83629 81960 63704 56329 10357

40048 16520 07638 10797 22270 57350 72214 36410 95526 87614

68773 97669 28656 89938 12917 25630 08068 19445 76250 24727

09774 30751 49740 11385 91468 28900 76804 52460 52320 70493

46139 36689 82587 13586 35061 76128 38568 62300 43439 53434

26566 95323 32993 89988 12152 01862 93113 33875 31730 62941

06765 57141 48617 18282 13086 76064 83334 70192 15972 80429

35384 90380 12317 89702 33091 68835 62960 38010 52710 87604

49333 78482 36199 11355 86044 88760 03724 22927 91716 92332

45595 14044 56806 99126 85584 87750 78149 22723 48245 78126

79819 15054 76174 12206 06886 06814 43285 20008 75345 19779

11971 62234 74857 46401 20817 57591 41189 49604 29604 30660

11452 89318 53084 21993 62471 74101 61217 76536 58393 63718

38746 81271 96260 98137 60275 22647 33103 50090 29395 10016

**TABLE 7 – RANDOM DIGITS**

93369 13044 69686 78162 29132 51544 17925 56738 32683 83153

19360 55049 94951 76341 38159 31008 41476 05278 03909 02299

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