

208 ARDSAVnp AlluviumMatrixRD_SAV_Np
 209 ARDSAV_I AlluviumMatrixRD_SAV_I
 210 ARDSAVTc AlluviumMatrixRD_SAV_Tc
 211 ARDSAV_U AlluviumMatrixRD_SAV_U
 212 ARDSAVPu AlluviumMatrixRD_SAV_Pu
 213 ARDSAVTh AlluviumMatrixRD_SAV_Th
 214 ARDSAVRa AlluviumMatrixRD_SAV_Ra
 215 ARDSAVPb AlluviumMatrixRD_SAV_Pb
 216 ARDSAVCs AlluviumMatrixRD_SAV-Cs
 217 ARDSAVNi AlluviumMatrixRD_SAV_Ni
 218 ARDSAVSe AlluviumMatrixRD_SAV_Se
 219 ARDSAVNb AlluviumMatrixRD_SAV_Nb
 220 FPrs_STF FracturePorosity_STFF
 221 APra_SAV AlluviumMatrixPorosity_SAV
 222 WPRRG010 WellPumpingRateAtReceptorGroup10km[gal/day]
 223 WPRRG020 WellPumpingRateAtReceptorGroup20km[gal/day]
 224 PlumeTh5 PlumeThickness5km[m]
 225 AqThick5 AquiferThickness5km[m]
 226 MixZnT20 MixingZoneThickness20km[m]
 227 FEROI-Tn TimeOfNextFaultingEventInRegionOfInterest[yr]
 228 WFPD-ThD ThresholdDisplacementforFaultDisruptionOfNP[m]
 229 FEROI-X XLocationOfFaultingEventInRegionOfInterest[m]
 230 FEROI-Y YLocationOfFaultingEventInRegionOfInterest[m]
 231 FO-Rn#Sd RntoDetermineFaultOrientation
 232 NWFZnW NWFaultZoneWidth[m]
 233 NEFZnW NEFaultZoneWidth[m]
 234 VEROI-Tn TimeOfNextVolcanicEventInRegionOfInterest[yr]
 235 VEI/e-R# RntoDetermineIfExtrusiveOrIntrusiveVolcanicEvent
 236 VD-Angle AngleOfVolcanicDikeMeasuredFromNorthClockwise[degrees]
 237 VD-Lengt LengthOfVolcanicDike[m]
 238 VD-Width WidthOfVolcanicDike[m]
 239 VC-Dia DiameterOfVolcanicCone[m]
 240 WindSpd WindSpeed[cm/s]
 241 VE-Durat VolcanicEventDuration[s]
 242 VE-Power VolcanicEventPower[W]
 243 AshMnPLD AshMeanParticleLogDiameter[d_in_cm]
 244 ABMLFVDC AirborneMassLoadForVolcanismDoseCalculation[g/ml]

EXAMPLE OUTPUT FROM TPA 3.2 OUTPUT FILE SAMPLE.PAR.RES

Input file tpa.inp as supplied with TPA Version 3.2 Code.
 Base case data set Rev 3.2 7/16/98
 TPA 3.2, Job started: Mon Oct 19 14:59:49 1998
 Sampled Parameters (Nonconstant) Specified in "tpa.inp"
 Values for Each Vector

A list of the 8 character abbreviations for the sampled parameters is contained in the file "samplpar.abb".

1	244
0.2873876E+01	0.2186646E+01
0.1341968E-07	0.2563956E+02
0.1228862E+04	0.5133022E+05
0.2004139E+00	0.5317292E+00
0.5188986E-01	0.5266356E+00
0.1048009E+01	0.9865962E+00
0.7835862E+00	0.7084877E+00
0.3284600E+01	0.3423362E+01
0.2261200E+01	0.1135729E+01
0.3856289E+01	0.6748210E+01
0.8042231E+01	0.8845945E+00
0.6558550E+01	0.9628371E+01
0.3402834E+01	0.2860815E-01
0.1444302E-02	0.1267848E-05
0.1573537E+00	0.3839716E+00
0.3244214E+00	0.3112299E+00
0.9119198E+00	0.1538574E+00
0.8496279E-01	0.7930064E+00
0.2874160E+00	0.9113725E+00
0.6050169E+00	0.5571558E+00
0.8391464E+00	0.7471911E+00
0.1707450E-04	0.7759107E+00
0.8016717E+00	0.2973081E-02
0.1531709E+02	0.3193455E+11
0.2749395E+00	0.1064861E+00
0.9319665E+00	0.1011601E+01
0.1115999E+01	0.1139632E+01
0.5092021E+00	0.6160751E+00
0.1531034E+01	0.1514350E+01
0.5787737E+01	0.4910653E+01
0.8316963E+01	0.6340072E+00
0.2816935E+01	0.3478517E+01
0.3636095E+01	0.3964922E+01
0.4982337E+00	0.2124247E-02
0.3023586E+01	0.4226248E-04
0.8913081E+00	0.6893570E+00
0.7098093E+00	0.9580356E+00
0.3678296E+00	0.2698264E+00
0.4436440E-01	0.1690473E+00
0.8113819E+00	0.1356517E+00
0.5256413E+00	0.6034402E+00
0.9523863E+00	0.9427800E+00

0.2638228E+00	0.7933736E+00	0.1656571E+00	0.4797631E-01	0.8557552E-02
0.3458217E+00	0.4014971E+00	0.7559334E+00	0.5378976E+00	0.1224041E-18
0.1082433E+05	0.4712141E+05	0.1303496E+05	0.5880340E+04	0.3104863E+04
0.1842203E+05	0.2871552E+04	0.1524827E-04	0.4545695E-02	0.2019945E-02
0.2539773E-02	0.2564041E-03	0.1368898E-01	0.1363123E-03	0.4104124E-04
0.8615212E-03	0.5247543E-04	0.9745017E-05	0.1192787E-06	0.3402619E-03
0.3033765E-04	0.1312561E+01	0.8283416E+01	0.1143349E+02	0.6052686E+01
0.1034622E+02	0.7520298E+01	0.2764814E+01	0.4583839E+02	0.4061736E+02
0.6436613E+02	0.4998412E+00	0.2059508E+01	0.5176551E+01	0.2802709E+00
0.1147651E+00	0.5011460E-01	0.2297381E+01	0.3502732E+00	0.2752875E+00
0.1684376E+00	0.2538407E+00	0.1451774E+00	0.2389408E+00	0.1101211E+00
0.3115811E+00	0.1358725E+00	0.1491840E+00	0.3908299E+00	0.3452428E-01
0.3307329E-01	0.2118916E+01	0.7943168E-01	0.3319060E-01	0.8376474E-01
0.6775977E+00	0.1526108E-02	0.1937773E-05	0.2373120E-03	0.8790824E-03
0.8148049E-03	0.1840150E+00	0.1092273E-03	0.4926616E-04	0.3171703E-02
0.1813560E-06	0.1638685E-03	0.1342548E-02	0.2394621E-03	0.2653328E-04
0.2529154E-18	0.1309873E-13	0.7546488E-17	0.1447654E-16	0.4053096E-17
0.9131003E-18	0.3457937E-16	0.1614011E-12	0.5248353E-12	0.1050468E-11
0.4631487E-12	0.2627206E-11	0.2451554E-12	0.1091150E-11	0.6191331E-02
0.3438700E-02	0.4144673E-02	0.3340290E-02	0.2480129E-02	0.8148537E-02
0.4496649E-02	0.2056972E+08	0.2481671E+02	0.2969945E+01	0.4812693E+01
0.2902073E+02	0.4921762E+04	0.7091270E+05	0.4773818E+04	0.6783325E+04
0.9973596E+05	0.1744310E+01	0.1375146E+01	0.6676678E+04	0.3144570E-02
0.1435276E+00	0.1447401E+06	0.5567596E+07	0.6369621E+02	0.6856565E+03
0.1894765E+03	0.3444985E+04	0.4000000E+00	0.5476145E+06	0.4077843E+07
0.7193321E+00	0.9846723E+01	0.5421574E+01	0.3361075E+04	0.9637249E+00
0.4205274E+01	0.5244983E+04	0.7400648E+01	0.7777777E+02	0.4529729E+03
0.7583746E+06	0.7457380E+10	0.3269102E-01	0.4156750E-02	
2	244			
0.5744916E+01	0.2063034E+01	-0.5024497E+01	0.6215006E-02	0.1959983E+00
0.3449678E-03	0.1825784E+02	0.2020508E+01	0.8179310E+00	0.1201625E-02
0.1230980E+04	0.4031755E+05	0.8051826E-02	0.2420157E+02	0.3392706E+11
0.2406752E+00	0.5088049E+00	0.4378687E+00	0.2887741E+00	0.8694135E-01
0.4474872E-01	0.5579767E+00	0.8612592E+00	0.5989739E+00	0.9397579E+00
0.1129304E+01	0.1094940E+01	0.6366580E+00	0.1125679E+01	0.7714320E+00
0.1395091E+01	0.7934337E+00	0.5135501E+00	0.2482886E+01	0.1108389E+01
0.6510046E+00	0.3068060E+01	0.2204752E+01	0.4078941E+01	0.1065309E+01
0.4771288E+01	0.2336700E+01	0.3240834E+01	0.2290366E+01	0.3669191E+01
0.4753689E+01	0.6286499E+01	0.7982181E+00	0.8356772E+01	0.2250156E+01
0.2038816E+01	0.3421421E+01	0.7472203E+01	0.8644126E+00	0.6246291E+00
0.4345562E+01	0.5232835E+01	0.4662192E+01	0.9612951E+01	0.1020506E+02
0.1223212E+02	0.1152899E+01	0.2486853E-01	0.1029033E+00	0.5396591E-02
0.2159599E-02	0.9843596E-06	0.7476006E-04	0.1219957E+00	0.9192746E-04
0.5406112E+00	0.2753188E+00	0.9368941E+00	0.9820171E-01	0.6193981E+00
0.1751071E+00	0.9772217E+00	0.1324604E+00	0.5440863E+00	0.4785932E+00
0.1237920E+00	0.5085581E+00	0.8111287E+00	0.9461129E+00	0.1146034E+00
0.3170552E+00	0.5937659E+00	0.4591480E+00	0.4434829E+00	0.3549014E+00
0.3454461E-01	0.7377089E+00	0.1510898E+00	0.6116327E+00	0.9034926E+00
0.5361802E+00	0.4669128E+00	0.5391414E+00	0.9734826E+00	0.2469018E+00
0.9708369E+00	0.4620247E+00	0.5541521E+00	0.5290900E+00	0.6962836E+00
0.3924356E+00	0.1306430E+00	0.3952328E+00	0.3213263E+00	0.1641806E+00
0.9813596E+00	0.4895273E+00	0.1004883E+00	0.3585298E+00	0.9000862E-19
0.5325662E+05	0.2451329E+04	0.4778454E+04	0.9557532E+02	0.1778321E+05
0.4169547E+03	0.1384621E+03	0.4583698E-04	0.2461022E-01	0.8232975E-03
0.3084791E-03	0.4092228E-02	0.1293560E-02	0.3240027E-02	0.1183656E-03
0.4715612E-06	0.1072423E-04	0.8370745E-04	0.6873789E-06	0.4288392E-06
0.2517926E-06	0.4754645E+00	0.2451312E+01	0.1418221E+02	0.7469013E+00
0.3316444E+00	0.3068901E+00	0.1486954E+01	0.2377734E+02	0.4566022E+01
0.9383239E+00	0.2443584E+00	0.4795393E+01	0.5476686E-01	0.3923291E-02
0.1110783E+00	0.8389936E-01	0.3590119E+01	0.1018686E+00	0.3252905E+00
0.1824671E+00	0.3743434E+00	0.1924012E+00	0.3886012E+00	0.3856935E+00
0.1263779E+00	0.4273605E+00	0.1213124E+00	0.4710732E+00	0.2445921E-01
0.2615356E-01	0.1393801E+01	0.1216082E+00	0.1612397E+00	0.2181978E-01
0.1044212E+00	0.4318504E-01	0.1636352E-02	0.2794842E-04	0.2045280E-03
0.7636687E-03	0.1290157E-02	0.5049169E-04	0.1098990E-01	0.3320241E-02
0.8003181E-04	0.2347120E-04	0.3057261E-06	0.2255856E-01	0.1946465E-01
0.4878737E-18	0.2197574E-13	0.1225500E-16	0.1369733E-16	0.1197453E-17
0.1603323E-18	0.2161224E-16	0.5609917E-12	0.1647702E-11	0.2102468E-12
0.4519300E-12	0.1687243E-11	0.3431479E-12	0.1034589E-11	0.4721908E-02
0.3653795E-02	0.5011898E-02	0.2359496E-02	0.7203787E-02	0.1587165E-02
0.2800554E-02	0.4448671E+07	0.4118079E+01	0.2644973E+01	0.4432837E+01
0.3088974E+02	0.3601103E+04	0.4547729E+04	0.3610770E+04	0.3218489E+04

1/31/00
 DRJ

DRJmm

0.9951533E+05	0.2270745E+02	0.1010916E+02	0.1475679E+05	0.5816858E-02
0.1247971E+00	0.1760292E+06	0.6097114E+07	0.6723235E+02	0.3724750E+03
0.1269351E+03	0.3240648E+04	0.1000000E+00	0.5477274E+06	0.4078138E+07
0.5905176E+00	0.3689827E+02	0.2126429E+02	0.6802010E+04	0.2452977E+00
0.1447892E+02	0.2953292E+04	0.2510995E+01	0.3741492E+02	0.9435078E+03
0.2432616E+07	0.1151035E+12	0.1905690E+00	0.7209160E-03	
3	244			
0.5860844E+01	0.1905620E+01	-0.5825967E+01	0.1309841E-05	0.6801271E+00
0.2726638E-05	0.9913168E+02	0.1881787E+01	0.7987835E+00	0.2563477E-02
0.1223096E+04	0.5185512E+05	0.4602546E-02	0.1786833E+01	0.3277347E+11
0.2071293E+00	0.5663292E+00	0.3747960E+00	0.2656871E+00	0.1327645E+00
0.5367753E-01	0.5245187E+00	0.7605073E+00	0.9547153E+00	0.9475570E+00
0.5973479E+00	0.5456198E+00	0.9400435E+00	0.7898573E+00	0.6217434E+00
0.4790266E+00	0.9273930E+00	0.1586763E+01	0.1680815E+01	0.2692961E+01
0.2878834E+01	0.6003553E+00	0.1023709E+01	0.1687375E+01	0.5178822E+01
0.3093723E+01	0.8753387E+00	0.2356929E+01	0.2626774E+01	0.4104885E+01
0.5497275E+01	0.6835705E+01	0.1129061E+01	0.2361833E+01	0.8880589E+01
0.3047875E+01	0.2782970E+01	0.8256960E+01	0.7526433E+01	0.6441360E+01
0.5120245E+01	0.8249639E+01	0.7882752E+01	0.2227271E+01	0.9651531E+01
0.3290368E+01	0.7523298E-01	0.4724952E-01	0.6541551E+00	0.9901950E-02
0.1812859E-02	0.1593723E-05	0.7784819E-04	0.4386898E-01	0.1277696E-03
0.3684797E+00	0.2636282E+00	0.8514560E-01	0.9108921E+00	0.3905158E-01
0.4345012E+00	0.7957322E+00	0.3225209E+00	0.5705411E+00	0.2867334E+00
0.5343945E+00	0.7686109E+00	0.9171596E-01	0.3159783E+00	0.1468199E-01
0.5754065E-01	0.4155038E+00	0.9598448E+00	0.8312503E+00	0.3511397E+00
0.2690867E+00	0.9121711E-01	0.8896744E+00	0.9724347E+00	0.9668105E+00
0.6631161E+00	0.1111990E+00	0.2515099E+00	0.5221990E+00	0.7243905E-01
0.8640335E+00	0.1775988E+00	0.9967164E+00	0.5541792E+00	0.8636489E+00
0.1138379E+00	0.3645123E+00	0.5863302E+00	0.1464572E+00	0.5602925E-01
0.7338099E+00	0.1407351E-01	0.2985933E+00	0.5622672E+00	0.5140683E-18
0.5948592E+03	0.8245030E+05	0.8110904E+02	0.3427302E+05	0.1710842E+05
0.1580933E+04	0.3377721E+05	0.6505954E-03	0.5070579E-02	0.4490692E-04
0.1504227E-01	0.1337716E-02	0.6024169E-03	0.1239979E-02	0.2165838E-04
0.4880654E-05	0.1842224E-02	0.1317641E-06	0.2599050E-06	0.7991977E-04
0.3184275E-01	0.2101712E+01	0.6158118E+01	0.1189098E+01	0.1543847E+02
0.9813221E+00	0.1621790E+01	0.4643957E+00	0.9782336E+01	0.2154250E+01
0.1624928E+01	0.1730754E+00	0.1268715E+00	0.4212569E+00	0.7573330E+00
0.4351153E+00	0.5857536E-01	0.3343456E+01	0.1033582E+00	0.1597459E+00
0.1153728E+00	0.4190412E+00	0.2704898E+00	0.1289205E+00	0.1519215E+00
0.2323246E+00	0.1896663E+00	0.2163973E+00	0.1514335E+00	0.3585923E+00
0.4362364E-01	0.8414204E+00	0.2625804E+00	0.6796618E+00	0.4581604E+00
0.3797660E-01	0.2349989E-03	0.4095748E-01	0.7800805E-05	0.1444390E-03
0.2360781E-03	0.1284604E+00	0.6812190E-04	0.2842504E-05	0.3440185E-03
0.1515594E-04	0.7089895E-05	0.1523849E-04	0.2245148E-05	0.3883091E-05
0.1490373E-18	0.4135537E-13	0.1680557E-17	0.8280453E-17	0.1044772E-17
0.1650228E-18	0.4692395E-16	0.5014991E-12	0.1029874E-10	0.6160655E-12
0.2407363E-11	0.6362076E-11	0.5603220E-13	0.4477345E-12	0.8571777E-02
0.2578143E-02	0.9076495E-02	0.1031447E-02	0.8276731E-02	0.3114085E-02
0.6914766E-02	0.9814150E+09	0.7800206E+02	0.1269789E+01	0.3432944E+01
0.1275109E+03	0.3764012E+05	0.6477257E+04	0.2414323E+04	0.6441480E+04
0.9458213E+05	0.3301419E+03	0.4915243E+03	0.3932083E+04	0.3866427E-02
0.1141697E+00	0.2494562E+06	0.7589046E+07	0.6560514E+02	0.5729051E+03
0.1251073E+03	0.6665815E+04	0.3000000E+00	0.5477419E+06	0.4077438E+07
0.8085694E+00	0.3694403E+01	0.9194272E+02	0.5705792E+04	0.7241470E+00
0.1091934E+02	0.3512680E+04	0.1985979E+01	0.2760658E+02	0.2654657E+04
0.1987163E+06	0.8160440E+10	0.2126631E+00	0.2325039E-02	
4	244			
0.4242872E+01	0.1506665E+01	-0.7466807E+01	0.9349235E-05	0.8403262E+00
0.7784233E-06	0.1932480E+02	0.2040352E+01	0.7649227E+00	0.1859268E-02
0.1102372E+04	0.5230027E+05	0.7517326E-02	0.7418592E+01	0.3401855E+11
0.1938151E+00	0.5545435E+00	0.4042790E+00	0.2234344E+00	0.1484389E+00
0.4574500E-01	0.5626985E+00	0.7262726E+00	0.5657735E+00	0.9142201E+00
0.1064950E+01	0.7996690E+00	0.5330069E+00	0.5544693E+00	0.1498776E+01
0.1224750E+01	0.9128305E+00	0.8728315E+00	0.9421822E+00	0.1676342E+01
0.2540912E+01	0.1569690E+01	0.2109137E+01	0.4062178E+01	0.2628602E+01
0.3867268E+01	0.1294484E+01	0.4100611E+01	0.1271433E+01	0.1700784E+01
0.2261181E+01	0.6090258E+01	0.2024169E+01	0.7400248E+01	0.2921411E+01
0.8479473E+01	0.9796513E+00	0.1965707E+01	0.3957821E+01	0.7673846E+01
0.6206324E+01	0.8483307E+00	0.3360699E+01	0.4475798E+01	0.6601904E+01
0.1199738E+01	0.2988127E+00	0.6001190E-01	0.3091987E-01	0.3118936E-02
0.1547722E-02	0.1669652E-05	0.1495936E-03	0.3175343E-01	0.4295693E-04
0.9941065E+00	0.4901751E+00	0.4549531E+00	0.3223455E+00	0.5421284E+00

0.7397010E+00	0.8161134E+00	0.2586315E+00	0.7102059E-01	0.9949203E+00
0.8365586E-01	0.1865453E+00	0.2622675E+00	0.1344604E+00	0.3335071E+00
0.2824079E+00	0.1630846E+00	0.2368196E+00	0.8352183E+00	0.1416911E+00
0.2596709E+00	0.4759121E+00	0.3569313E+00	0.2998314E-01	0.2004610E+00
0.7795896E+00	0.6738206E+00	0.3530449E+00	0.2351470E+00	0.2486250E-01
0.3544285E+00	0.4778265E+00	0.6403480E+00	0.5746312E+00	0.8130366E+00
0.4014525E+00	0.8545918E+00	0.1341631E+00	0.8888962E+00	0.5071464E+00
0.8634494E+00	0.7011009E+00	0.6521435E+00	0.8082296E+00	0.8475812E-18
0.7127226E+03	0.3661021E+05	0.5633590E+03	0.2098998E+05	0.4096729E+05
0.8165913E+02	0.2478979E+05	0.9380204E-03	0.9888059E-03	0.3505581E-02
0.1040834E-01	0.1244932E-01	0.3587535E-02	0.1403600E-03	0.2585905E-06
0.1511919E-04	0.1121502E-02	0.8154553E-02	0.3118991E-04	0.8717954E-04
0.7171279E-05	0.3430061E+01	0.4086250E+01	0.2409226E+01	0.3944331E+00
0.5383736E+00	0.9189193E+00	0.1067868E+02	0.1593617E+00	0.2015033E+00
0.3603195E+02	0.6233041E+00	0.1056823E+00	0.2799824E+00	0.4444397E+00
0.1285661E+00	0.8203739E-01	0.3969905E+01	0.1335907E+00	0.1013972E+00
0.1076614E+00	0.1096427E+00	0.3134301E+00	0.1510542E+00	0.4352092E+00
0.3033627E+00	0.3309894E+00	0.1026639E+00	0.3184699E+00	0.2178212E+00
0.2079550E-01	0.1584338E+01	0.1782922E+00	0.5357591E-01	0.3158475E+00
0.2113961E-01	0.1908944E-04	0.1163953E-05	0.2549385E-02	0.7045059E-03
0.4153351E-03	0.1427511E-02	0.8847066E-04	0.3158749E-05	0.1977217E-05
0.5428260E-02	0.7548887E-06	0.4909914E-04	0.3430602E-05	0.1055987E-03
0.1621963E-17	0.2614292E-13	0.4778503E-17	0.1580148E-16	0.4771709E-17
0.2747854E-18	0.5103856E-16	0.8684535E-12	0.5716429E-12	0.7980562E-11
0.6330815E-13	0.2662490E-13	0.1678185E-12	0.2782669E-11	0.1549195E-02
0.4034444E-02	0.1176765E-02	0.1594753E-02	0.2341489E-02	0.7150364E-02
0.1477197E-02	0.3416491E+07	0.5308773E+01	0.2884443E+01	0.1499409E+02
0.1112330E+02	0.2077504E+04	0.3847253E+03	0.5810871E+04	0.4783121E+04
0.9551793E+05	0.2343463E+02	0.1328988E+01	0.1643107E+05	0.4574500E-02
0.1204913E+00	0.2099491E+06	0.7435852E+07	0.4647090E+02	0.4480368E+03
0.9065475E+02	0.4809282E+04	0.3000000E+00	0.5478693E+06	0.4077155E+07
0.9831242E+00	0.3383942E+01	0.4395815E+02	0.1725107E+04	0.4062113E+00
0.2064670E+01	0.8449382E+04	0.4159265E+01	0.5123011E+02	0.7854807E+03
0.1242341E+07	0.3390017E+12	0.5862104E+00	0.1212463E-03	
5	244			
0.9068531E+01	0.2497218E+01	-0.8416572E+01	0.3554152E-06	0.9454983E+00
0.3024205E-01	0.6567844E+02	0.1896095E+01	0.7875246E+00	0.1070418E-02
0.1080247E+04	0.5883672E+05	0.4137391E-02	0.2390676E+02	0.3179665E+11
0.1966306E+00	0.5416866E+00	0.3830703E+00	0.2685951E+00	0.1795908E+00
0.4560296E-01	0.5653626E+00	0.6506395E+00	0.9943383E+00	0.8903065E+00
0.1025432E+01	0.7116528E+00	0.1017141E+01	0.1244818E+01	0.7644848E+00
0.3295990E+00	0.5705821E+00	0.5008448E+00	0.1106071E+01	0.1794732E+01
0.7618862E+00	0.1911245E+01	0.2672534E+01	0.4509130E+01	0.2672534E+01
0.3598122E+01	0.7224925E+00	0.3648587E+01	0.2130279E+01	0.2300454E+01
0.6606624E+01	0.7224610E+01	0.4730648E+01	0.3998442E+01	0.1965235E+01
0.7531723E+01	0.3624494E+01	0.5215024E+01	0.5177738E+01	0.2709149E+01
0.8916558E+01	0.2725396E+01	0.1044534E+02	0.3475006E+01	0.6961413E+01
0.5235464E+01	0.3537056E+00	0.5621304E-01	0.9410130E+00	0.2178627E-02
0.1746585E-02	0.9644075E-06	0.1677006E-03	0.3280748E-01	0.7325141E-04
0.6258527E+00	0.1604984E+00	0.4882480E+00	0.4965854E-01	0.4965854E-01
0.5244172E+00	0.3785290E+00	0.9267901E+00	0.2073695E+00	0.4834203E+00
0.8671155E+00	0.5182238E-01	0.3308464E+00	0.3530987E+00	0.2024448E+00
0.3558417E+00	0.3811910E-01	0.6729394E+00	0.7364212E+00	0.8584316E+00
0.7776766E+00	0.4450822E+00	0.2752281E+00	0.3106772E+00	0.8986851E+00
0.1619003E+00	0.9843381E+00	0.4544972E+00	0.1394662E+00	0.9036698E+00
0.4755097E-01	0.5731974E+00	0.5041800E+00	0.2557713E+00	0.6507622E+00
0.9675141E+00	0.6627582E-01	0.5122242E+00	0.6195470E+00	0.2512030E+00
0.2560163E+00	0.3171344E+00	0.2122120E+00	0.9290400E+00	0.1251354E-18
0.7819586E+04	0.1786141E+05	0.4995944E+03	0.3115765E+03	0.2755702E+07
0.3988639E+04	0.2265350E+04	0.6085318E-04	0.1713578E-03	0.5054942E-04
0.1491908E-02	0.4430373E-04	0.4793216E-01	0.1986225E-02	0.10678

1/31/00
DRJ

0.6866589E-19	0.3386515E-13	0.3066483E-17	0.8644141E-17	0.2503249E-17
0.2992569E-18	0.3600393E-16	0.1554494E-11	0.1025875E-12	0.6935226E-13
0.1915345E-12	0.6582645E-12	0.4635331E-12	0.1178975E-11	0.2189668E-02
0.1627301E-02	0.2535812E-02	0.5683321E-02	0.6793610E-02	0.4979839E-02
0.1632089E-02	0.2197120E+08	0.3127688E+02	0.2285897E+01	0.3549062E+01
0.2908553E+03	0.9704228E+04	0.5137361E+03	0.2698527E+04	0.2239845E+04
0.9567611E+05	0.1146668E+02	0.1084269E+01	0.1584692E+05	0.7206426E-02
0.1127185E+00	0.7107474E+05	0.1103121E+08	0.5917735E+02	0.5471267E+03
0.1717465E+03	0.2823412E+03	0.4000000E+00	0.5480557E+06	0.4078672E+07
0.2128810E+00	0.5460550E+02	0.5843756E+02	0.7694343E+04	0.6041269E+00
0.1204160E+02	0.9095881E+04	0.8054059E+01	0.6863956E+02	0.2538291E+04
0.1888110E+06	0.1888125E+12	0.1441745E+00	0.9835754E-02	

20 km

Plotting the values of RD provides a check:

Four runs:

- ▶ 2 with correlations for SAV, 2 without correlations for SAV
- ▶ 50,000 years, 20 km, 250 realizations
- ▶ Database tracking 20 radionuclides

Am(III)-Np(V)

Input provided to TPA 3.2:

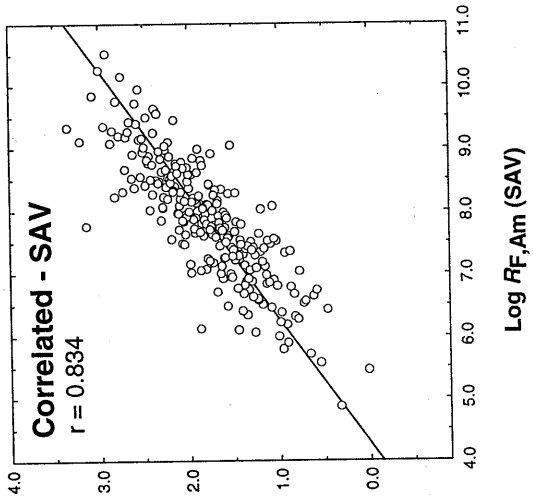
r = 0.8373

Uncorrelated runs have $r \ll 1$.

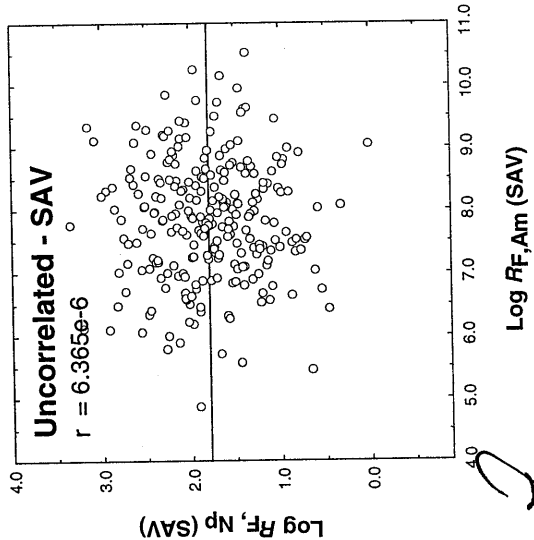
Correlated runs have $r = 0.834$

Therefore, the correlation coefficients are correctly implemented in TPA 3.2.

DRJ 1/31/00
Results: Groundwater pl dose @ 20 km, 50,000 yr



1/31/00
DRJ



20 km

1/3/00
CDB

Results: Groundwater peak dose @ 20km

with correlations, unsorted

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	Input file as supplied with TPA Version 3.2 Code																									
2	Base case file set for 3.2 code																									
3	TPA 3.2 Job started Mon Oct 19 16:02:00 1999																									
4	Groundwater Total Peak Dose and Peak Time with Dose																									
5	for Each Node of Peak Time - Values for Each Node																									
6	Dose values 10,000 years																									
7	probability	vector	id	node	node	node	node	node	node	node	node	node	node	node	node	node	node	node	node	node	node	node	node	node	node	node
8	vector	vector	id	node	node	node	node	node	node	node	node	node	node	node	node	node	node	node	node	node	node	node	node	node	node	node
9	1.0000	1	3.27E+04	3.75E+04	4.07E+04	4.39E+04	4.71E+04	5.03E+04	5.35E+04	5.67E+04	6.00E+04	6.32E+04	6.64E+04	6.96E+04	7.28E+04	7.60E+04	7.92E+04	8.24E+04	8.56E+04	8.88E+04	9.20E+04	9.52E+04	9.84E+04	1.016E+05	1.048E+05	1.080E+05
10	0.9999	2	3.00E+04	3.30E+04	3.60E+04	3.90E+04	4.20E+04	4.50E+04	4.80E+04	5.10E+04	5.40E+04	5.70E+04	6.00E+04	6.30E+04	6.60E+04	6.90E+04	7.20E+04	7.50E+04	7.80E+04	8.10E+04	8.40E+04	8.70E+04	9.00E+04	9.30E+04	9.60E+04	9.90E+04
11	0.9998	3	2.50E+04	2.80E+04	3.10E+04	3.40E+04	3.70E+04	4.00E+04	4.30E+04	4.60E+04	4.90E+04	5.20E+04	5.50E+04	5.80E+04	6.10E+04	6.40E+04	6.70E+04	7.00E+04	7.30E+04	7.60E+04	7.90E+04	8.20E+04	8.50E+04	8.80E+04	9.10E+04	9.40E+04
12	0.9997	4	2.00E+04	2.30E+04	2.60E+04	2.90E+04	3.20E+04	3.50E+04	3.80E+04	4.10E+04	4.40E+04	4.70E+04	5.00E+04	5.30E+04	5.60E+04	5.90E+04	6.20E+04	6.50E+04	6.80E+04	7.10E+04	7.40E+04	7.70E+04	8.00E+04	8.30E+04	8.60E+04	8.90E+04
13	0.9996	5	1.80E+04	2.10E+04	2.40E+04	2.70E+04	3.00E+04	3.30E+04	3.60E+04	3.90E+04	4.20E+04	4.50E+04	4.80E+04	5.10E+04	5.40E+04	5.70E+04	6.00E+04	6.30E+04	6.60E+04	6.90E+04	7.20E+04	7.50E+04	7.80E+04	8.10E+04	8.40E+04	8.70E+04
14	0.9995	6	1.60E+04	1.90E+04	2.20E+04	2.50E+04	2.80E+04	3.10E+04	3.40E+04	3.70E+04	4.00E+04	4.30E+04	4.60E+04	4.90E+04	5.20E+04	5.50E+04	5.80E+04	6.10E+04	6.40E+04	6.70E+04	7.00E+04	7.30E+04	7.60E+04	7.90E+04	8.20E+04	8.50E+04
15	0.9994	7	1.40E+04	1.70E+04	2.00E+04	2.30E+04	2.60E+04	2.90E+04	3.20E+04	3.50E+04	3.80E+04	4.10E+04	4.40E+04	4.70E+04	5.00E+04	5.30E+04	5.60E+04	5.90E+04	6.20E+04	6.50E+04	6.80E+04	7.10E+04	7.40E+04	7.70E+04	8.00E+04	8.30E+04
16	0.9993	8	1.20E+04	1.50E+04	1.80E+04	2.10E+04	2.40E+04	2.70E+04	3.00E+04	3.30E+04	3.60E+04	3.90E+04	4.20E+04	4.50E+04	4.80E+04	5.10E+04	5.40E+04	5.70E+04	6.00E+04	6.30E+04	6.60E+04	6.90E+04	7.20E+04	7.50E+04	7.80E+04	8.10E+04
17	0.9992	9	1.00E+04	1.30E+04	1.60E+04	1.90E+04	2.20E+04	2.50E+04	2.80E+04	3.10E+04	3.40E+04	3.70E+04	4.00E+04	4.30E+04	4.60E+04	4.90E+04	5.20E+04	5.50E+04	5.80E+04	6.10E+04	6.40E+04	6.70E+04	7.00E+04	7.30E+04	7.60E+04	7.90E+04
18	0.9991	10	9.00E+03	1.20E+04	1.50E+04	1.80E+04	2.10E+04	2.40E+04	2.70E+04	3.00E+04	3.30E+04	3.60E+04	3.90E+04	4.20E+04	4.50E+04	4.80E+04	5.10E+04	5.40E+04	5.70E+04	6.00E+04	6.30E+04	6.60E+04	6.90E+04	7.20E+04	7.50E+04	7.80E+04
19	0.9990	11	8.00E+03	1.10E+04	1.40E+04	1.70E+04	2.00E+04	2.30E+04	2.60E+04	2.90E+04	3.20E+04	3.50E+04	3.80E+04	4.10E+04	4.40E+04	4.70E+04	5.00E+04	5.30E+04	5.60E+04	5.90E+04	6.20E+04	6.50E+04	6.80E+04	7.10E+04	7.40E+04	7.70E+04
20	0.9989	12	7.00E+03	1.00E+04	1.30E+04	1.60E+04	1.90E+04	2.20E+04	2.50E+04	2.80E+04	3.10E+04	3.40E+04	3.70E+04	4.00E+04	4.30E+04	4.60E+04	4.90E+04	5.20E+04	5.50E+04	5.80E+04	6.10E+04	6.40E+04	6.70E+04	7.00E+04	7.30E+04	7.60E+04
21	0.9988	13	6.00E+03	9.00E+03	1.20E+04	1.50E+04	1.80E+04	2.10E+04	2.40E+04	2.70E+04	3.00E+04	3.30E+04	3.60E+04	3.90E+04	4.20E+04	4.50E+04	4.80E+04	5.10E+04	5.40E+04	5.70E+04	6.00E+04	6.30E+04	6.60E+04	6.90E+04	7.20E+04	7.50E+04
22	0.9987	14	5.00E+03	8.00E+03	1.10E+04	1.40E+04	1.70E+04	2.00E+04	2.30E+04	2.60E+04	2.90E+04	3.20E+04	3.50E+04	3.80E+04	4.10E+04	4.40E+04	4.70E+04	5.00E+04	5.30E+04	5.60E+04	5.90E+04	6.20E+04	6.50E+04	6.80E+04	7.10E+04	7.40E+04
23	0.9986	15	4.00E+03	7.00E+03	1.00E+04	1.30E+04	1.60E+04	1.90E+04	2.20E+04	2.50E+04	2.80E+04	3.10E+04	3.40E+04	3.70E+04	4.00E+04	4.30E+04	4.60E+04	4.90E+04	5.20E+04	5.50E+04	5.80E+04	6.10E+04	6.40E+04	6.70E+04	7.00E+04	7.30E+04
24	0.9985	16	3.00E+03	6.00E+03	9.00E+03	1.20E+04	1.50E+04	1.80E+04	2.10E+04	2.40E+04	2.70E+04	3.00E+04	3.30E+04	3.60E+04	3.90E+04	4.20E+04	4.50E+04	4.80E+04	5.10E+04	5.40E+04	5.70E+04	6.00E+04	6.30E+04	6.60E+04	6.90E+04	7.20E+04
25	0.9984	17	2.00E+03	5.00E+03	8.00E+03	1.10E+04	1.40E+04	1.70E+04	2.00E+04	2.30E+04	2.60E+04	2.90E+04	3.20E+04	3.50E+04	3.80E+04	4.10E+04	4.40E+04	4.70E+04	5.00E+04	5.30E+04	5.60E+04	5.90E+04	6.20E+04	6.50E+04	6.80E+04	7.10E+04
26	0.9983	18	1.80E+03	4.80E+03	7.80E+03	1.08E+04	1.38E+04	1.68E+04	1.98E+04	2.28E+04	2.58E+04	2.88E+04	3.18E+04	3.48E+04	3.78E+04	4.08E+04	4.38E+04	4.68E+04	4.98E+04	5.28E+04	5.58E+04	5.88E+04	6.18E+04	6.48E+04	6.78E+04	7.08E+04
27	0.9982	19	1.60E+03	4.60E+03	7.60E+03	1.06E+04	1.36E+04	1.66E+04	1.96E+04	2.26E+04	2.56E+04	2.86E+04	3.16E+04	3.46E+04	3.76E+04	4.06E+04	4.36E+04	4.66E+04	4.96E+04	5.26E+04	5.56E+04	5.86E+04	6.16E+04	6.46E+04	6.76E+04	7.06E+04
28	0.9981	20	1.40E+03	4.40E+03	7.40E+03	1.04E+04	1.34E+04	1.64E+04	1.94E+04	2.24E+04	2.54E+04	2.84E+04	3.14E+04	3.44E+04	3.74E+04	4.04E+04	4.34E+04	4.64E+04	4.94E+04	5.24E+04	5.54E+04	5.84E+04	6.14E+04	6.44E+04	6.74E+04	7.04E+04
29	0.9980	21	1.20E+03	4.20E+03	7.20E+03	1.02E+04	1.32E+04	1.62E+04	1.92E+04	2.22E+04	2.52E+04	2.82E+04	3.12E+04	3.42E+04	3.72E+04	4.02E+04	4.32E+04	4.62E+04	4.92E+04	5.22E+04	5.52E+04	5.82E+04	6.12E+04	6.42E+04	6.72E+04	7.02E+04
30	0.9979	22	1.00E+03	4.00E+03	7.00E+03	1.00E+04	1.30E+04	1.60E+04	1.90E+04	2.20E+04	2.50E+04	2.80E+04	3.10E+04	3.40E+04	3.70E+04	4.00E+04	4.30E+04	4.60E+04	4.90E+04	5.20E+04	5.50E+04	5.80E+04	6.10E+04	6.40E+04	6.70E+04	7.00E+04
31	0.9978	23	9.00E+02	3.80E+03	6.80E+03	9.80E+03	1.28E+04	1.58E+04	1.88E+04	2.18E+04	2.48E+04	2.78E+04	3.08E+04	3.38E+04	3.68E+04	3.98E+04	4.28E+04	4.58E+04	4.88E+04	5.18E+04	5.48E+04	5.78E+04	6.08E+04	6.38E+04	6.68E+04	6.98E+04
32	0.9977	24	8.00E+02	3.60E+03	6.60E+03	9.60E+03	1.26E+04	1.56E+04	1.86E+04	2.16E+04	2.46E+04	2.76E+04	3.06E+04	3.36E+04	3.66E+04	3.96E+04	4.26E+04	4.56E+04	4.86E+04	5.16E+04	5.46E+04	5.76E+04	6.06E+04	6.36E+04	6.66E+04	6.96E+04
33	0.9976	25	7.00E+02	3.40E+03	6.40E+03	9.40E+03	1.24E+04	1.54E+04	1.84E+04	2.14E+04	2.44E+04	2.74E+04	3.04E+04	3.34E+04	3.64E+04	3.94E+04	4.24E+04	4.54E+04	4.84E+04	5.14E+04	5.44E+04	5.74E+04	6.04E+04	6.34E+04	6.64E+04	6.94E+04
34	0.9975	26	6.00E+02	3.20E+03	6.20E+03	9.20E+03	1.22E+04	1.52E+04	1.82E+04	2.12E+04	2.42E+04	2.72E+04	3.02E+04	3.32E+04	3.62E+04	3.92E+04	4.22E+04	4.52E+04	4.82E+04	5.12E+04	5.42E+04	5.72E+04	6.02E+04	6.32E+04	6.62E+04	6.92E+04
35	0.9974	27	5.00E+02	3.00E+03	6.00E+03	9.00E+03	1.20E+04	1.50E+04	1.80E+04	2.10E+04	2.40E+04	2.70E+04	3.00E+04	3.30E+04	3.60E+04	3.90E+04	4.20E+04	4.50E+04	4.80E+04	5.10E+04	5.40E+04	5.70E+04	6.00E+04	6.30E+04	6.60E+04	6.90E+04
36	0.9973	28	4.00E+02	2.80E+03	5.80E+03	8.80E+03	1.18E+04	1.48E+04	1.78E+04	2.08E+04	2.38E+04	2.68E+04	2.98E+04	3.28E+04	3.58E+04	3.88E+04	4.18E+04	4.48E+04	4.78E+04	5.08E+04	5.38E+04	5.68E+04	5.98E+04	6.28E+04	6.58E+04	6.88E+04
37	0.9972	29	3.00E+02	2.60E+03	5.60E+03	8.60E+03	1.16E+04	1.46E+04	1.76E+04	2.06E+04	2.36E+04	2.66E+04	2.96E+04	3.26E+04	3.56E+04	3.86E+04	4.16E+04	4.46E+04	4.76E+04	5.06E+04	5.36E+04	5.66E+04	5.96E+04	6.26E+04	6.56E+04	6.86E+04
38	0.9971	30	2.00E+02	2.40E+03	5.40E+03	8.40E+03	1.14E+04	1.44E+04	1.74E+04	2.04E+04	2.34E+04	2.64E+04	2.94E+04	3.24E+04	3.54E+04	3.84E+04	4.14E+04	4.44E+04	4.74E+04	5.04E+04	5.34E+04	5.64E+04	5.94E+04	6.24E+04	6.54E+04	6.84E+

Results: Groundwater peak dose @ 10km

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	
88	0.8840	80	2.71E+04	1.83E-04	4.35E-06	4.49E-17	1.24E-04	9.80E-14	1.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-05	1.08E-08	0.00E+00	0.00E+00	0.00E+00	1.79E-06	2.63E+04	8.97E-05		
89	0.8800	81	2.69E+04	2.92E-05	7.52E-07	1.20E-26	2.02E-25	2.28E-12	6.01E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-06	2.63E-07	0.00E+00	1.10E-08	0.00E+00	2.82E-07	2.63E+04	1.44E-05		
90	0.6760	82	3.27E+04	9.30E-05	1.04E-06	1.80E-11	5.00E-05	3.89E-13	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05	6.79E-10	2.30E-10	0.00E+00	1.27E-07	0.00E+00	3.27E+04	4.03E-05		
91	0.6720	83	2.63E+04	2.23E-04	6.05E-06	2.56E-14	1.64E-04	4.47E-13	1.71E-09	0.00E+00	0.00E+00	0.00E+00	4.37E-13	4.96E-17	1.95E-17	9.06E-17	0.00E+00	0.00E+00	5.01E-05	4.51E-06	9.33E-07	0.00E+00	0.00E+00	0.00E+00	2.43E-06	2.55E+04	1.14E-04
92	0.6680	84	5.50E+04	7.70E-04	1.16E-08	5.34E-08	1.40E-06	1.67E-13	7.60E-04	0.00E+00	0.00E+00	0.00E+00	1.95E-07	6.77E-11	5.70E-11	1.91E-10	0.00E+00	0.00E+00	3.26E-06	5.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-08	5.00E+04	4.54E-04
93	0.6640	85	2.56E+04	6.11E-04	1.19E-05	3.06E-04	3.01E-12	4.23E-09	3.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-09	2.23E-14	1.22E-13	3.26E-13	0.00E+00	0.00E+00	1.81E-04	1.07E-04	3.26E-12	0.00E+00	0.00E+00	0.00E+00	4.25E-06	2.48E+04	2.85E-04
94	0.6600	86	3.07E+04	7.47E-04	1.01E-05	3.88E-16	3.63E-04	2.25E-11	3.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04	2.23E-09	8.97E-11	0.00E+00	7.21E-05	0.00E+00	9.19E-06	3.07E+04	3.17E-04
95	0.6560	87	5.00E+04	2.31E-02	3.03E-07	1.67E-11	3.61E-05	5.21E-12	2.28E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-05	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-06	5.00E+04	1.36E-02
96	0.6520	88	4.31E+04	1.57E-04	3.95E-07	4.55E-17	3.15E-05	1.54E-12	1.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-05	6.25E-05	1.41E-06	0.00E+00	0.00E+00	0.00E+00	1.14E-06	4.31E+04	6.35E-05
97	0.6480	89	2.71E+04	4.97E-04	1.19E-05	2.89E-14	3.39E-04	1.38E-12	6.18E-09	0.00E+00	0.00E+00	0.00E+00	1.09E-17	9.87E-23	6.08E-23	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	4.87E-15	0.00E+00	4.22E-06	2.71E+04	2.43E-04
98	0.6440	90	2.48E+04	5.28E-04	1.35E-05	8.21E-15	3.32E-04	6.69E-13	1.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	3.84E-09	0.00E+00	0.00E+00	2.24E-06	0.00E+00	5.09E-06	2.41E+04	2.50E-04
99	0.6400	91	3.07E+04	2.44E-04	3.87E-06	2.31E-16	1.40E-04	1.16E-12	2.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	0.6360	92	3.38E+04	3.98E-04	4.05E-06	6.32E-15	1.77E-04	1.70E-12	5.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-05	4.99E-09	7.40E-07	0.00E+00	1.25E-17	0.00E+00	2.91E-06	3.07E+04	1.09E-04
101	0.6320	93	5.00E+04	3.00E-02	7.53E-07	8.60E-15	8.89E-05	3.11E-11	2.94E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	2.56E-05	0.00E+00	2.99E-05	0.00E+00	3.81E-06	3.38E+04	1.68E-04	
102	0.6280	94	3.27E+04	4.62E-04	5.36E-06	2.73E-15	2.20E-04	3.70E-13	3.11E-11	2.94E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	2.25E-04	4.06E-06	0.00E+00	3.57E-05	0.00E+00	2.64E-06	5.00E+04	1.76E-02
103	0.6240	95	2.71E+04	1.54E-03	2.51E-05	2.57E-14	7.13E-04	7.55E-12	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05	2.69E-05	1.02E-08	0.00E+00	3.34E-06	0.00E+00	2.56E-07	3.88E+04	3.04E-05
104	0.6200	96	2.22E+04	7.08E-04	2.03E-05	4.42E-15	4.21E-04	5.44E-13	4.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-04	3.18E-04	0.00E+00	0.00E+00	7.56E-05	0.00E+00	8.23E-06	2.71E+04	2.29E-04
105	0.6160	97	2.22E+04	7.08E-04	2.03E-05	4.42E-15	4.21E-04	5.44E-13	4.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-04	3.18E-04	0.00E+00	0.00E+00	7.56E-05	0.00E+00	8.23E-06	2.71E+04	2.29E-04
106	0.6120	98	2.41E+04	1.85E-04	5.26E-06	6.18E-16	1.23E-04	1.54E-13	1.47E-09	0.00E+00	0.00E+00	0.00E+00	4.91E-14	7.69E-17	2.44E-18	2.35E-17	0.00E+00	0.00E+00	6.00E-06	1.20E-04	1.63E-04	1.82E-09	0.00E+00	3.33E-10	0.00E+00	1.71E-08	7.16E-04
107	0.6080	99	2.97E+04	1.20E-03	1.74E-05	3.65E-15	5.37E-04	5.11E-12	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04	2.70E-04	0.00E+00	0.00E+00	2.65E-06	0.00E+00	1.46E-06	2.41E+04	8.98E-05
108	0.6040	100	3.17E+04	3.77E-04	4.59E-06	3.18E-15	1.80E-04	2.26E-13	4.74E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04	1.07E-04	0.00E+00	0.00E+00	7.76E-09	0.00E+00	7.05E-06	2.97E+04	5.46E-04
109	0.6000	101	3.38E+04	5.92E-05	5.15E-07	2.47E-17	2.27E-05	9.52E-14	2.11E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-06	3.07E+04	1.84E-04
110	0.5960	102	4.02E+04	6.73E-05	2.67E-07	5.20E-10	1.77E-05	4.84E-13	2.18E-06	0.00E+00	0.00E+00	0.00E+00	4.91E-09	1.07E-14	3.58E-13	5.66E-13	0.00E+00	0.00E+00	2.56E-05	9.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	0.5920	103	4.16E+04	6.67E-05	2.31E-07	5.07E-16	1.68E-05	7.94E-15	6.44E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	2.69E-05	1.02E-08	0.00E+00	3.34E-06	0.00E+00	2.56E-07	3.88E+04	3.04E-05
112	0.5880	104	3.62E+04	2.40E-04	1.67E-06	3.96E-17	8.86E-05	2.86E-12	9.09E-10	0.00E+00	0.00E+00	0.00E+00	1.46E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05	1.46E-05	6.54E-07	0.00E+00	1.67E-12	0.00E+00	6.08E-07	4.16E+04	2.52E-05
113	0.5840	105	5.00E+04	4.89E-03	6.85E-08	2.60E-08	7.89E-06	8.09E-13	4.83E-03	0.00E+00	0.00E+00	0.00E+00	8.95E-08	3.59E-12	2.01E-11	5.65E-11	0.00E+00	0.00E+00	1.45E-04	1.51E-07	3.42E-08	0.00E+00	0.00E+00	0.00E+00	3.09E-06	3.75E+04	8.74E-05
114	0.5800	106	3.27E+04	1.62E-05	1.83E-07	2.74E-16	7.47E-06	8.77E-15	1.75E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-07	5.00E+04	2.88E-03
115	0.5760	107	5.00E+04	1.36E-03	6.68E-08	2.89E-15	7.97E-06	3.05E-12	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-06	3.17E-06	1.19E-07	0.00E+00	0.00E+00	0.00E+00	1.15E-07	2.97E+04	7.70E-06
116	0.5720	108	2.41E+04	2.49E-04	6.27E-06	4.05E-09	1.47E-06	8.80E-12	1.54E-08	0.00E+00	0.00E+00	0.00E+00	2.39E-08	9.77E-11	2.76E-13	2.18E-12	0.00E+00	0.00E+00	2.11E-05	1.53E-05	2.06E-14	0.00E+00	3.01E-06	0.00E+00	2.35E-07	5.00E+04	7.92E-04
117	0.5680	109	4.31E+04	1.81E-02	8.27E-07	4.49E-08	5.03E-05	8.97E-12	1.79E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-05	7.89E-07	1.00E-07	0.00E+00	2.94E-11	0.00E+00	2.10E-06	2.41E+04	1.14E-04
118	0.5640	110	3.27E+04	3.77E-04	4.22E-06	3.33E-15	1.51E-05	1.93E-12	6.28E-09	0.00E+00	0.00E+00	0.00E+00	1.69E-05	3.02E-08	1.63E-09	3.48E-09	0.00E+00	0.00E+00	7.34E-05	1.20E-05	1.05E-07	0.00E+00	0.00E+00	0.00E+00	9.33E-07	4.31E+04	1.07E-02
119	0.5600	111	2.11E+04	7.31E-04	3.32E-05	5.49E-16	6.28E-04	6.96E-13	1.68E-09	0.00E+00	0.00E+00	0.00E+00	1.34E-25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	1.11E-04	0.00E+00	0.00E+00	1.62E-05	0.00E+00	2.88E-06	3.27E+04	1.60E-04
120	0.5560	112	3.62E+04	8.82E-05	7.02E-07	4.88E-14	3.59E-05	1.03E-12	1.83E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-05	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-06	2.06E+04	4.11E-04
121	0.5520	113	5.00E+04	7.89E-05	1.10E-07	3.89E-17	1.34E-05	4.06E-14	4.05E-10	0.00E+00	0.00E+00	0.00E+00	1.60E-11	1.59E-18	1.04E-18	3.89E-18	0.00E+00	0.00E+00	4.53E-05	5.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-06	3.62E+04	3.49E-05
122	0.5480	114	2.41E+04	5.66E-04	1.74E-05	2.50E-16	4.09E-04	1.99E-13	8.78E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-05	1.58E-0							

Results: Groundwater peak dose @ 30km

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	
175	0.3360	167	3.75E+04	5.51E-06	3.62E-08	1.75E-17	2.01E-06	1.52E-14	6.43E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-06	6.90E-10	6.10E-14	0.00E+00	3.04E-07	0.00E+00	5.96E-08	3.62E+04	2.07E-06	
176	0.3320	168	2.28E+04	2.98E-04	9.95E-06	5.69E-16	2.15E-04	3.62E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-06	8.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-06	2.22E+04	1.51E-04	
177	0.3280	169	2.55E+04	7.60E-04	1.39E-05	1.02E-15	3.57E-04	3.13E-12	4.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	1.72E-04	3.03E-10	0.00E+00	4.13E-05	0.00E+00	4.01E-08	2.55E+04	3.60E-04	
178	0.3240	170	5.00E+04	8.40E-05	2.54E-07	6.31E-17	3.05E-05	1.25E-12	3.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05	6.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-06	4.47E+04	3.39E-05	
179	0.3200	171	3.50E+04	1.52E-04	1.45E-06	2.47E-15	6.88E-05	1.46E-12	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-05	3.25E-10	0.00E+00	0.00E+00	1.50E-05	0.00E+00	1.71E-06	3.38E+04	6.26E-05
180	0.3160	172	2.41E+04	2.00E-04	4.67E-06	4.27E-16	1.10E-04	3.35E-12	1.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	7.01E-05	0.00E+00	0.00E+00	5.09E-16	0.00E+00	3.24E-06	3.50E+04	1.44E-04	
181	0.3120	173	2.11E+04	1.92E-04	7.69E-06	6.30E-15	1.49E-04	9.31E-13	2.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-06	1.04E-05	0.00E+00	0.00E+00	1.17E-06	0.00E+00	7.97E-08	5.00E+04	2.72E-04	
182	0.3080	174	2.41E+04	9.35E-04	2.68E-05	1.92E-14	6.31E-04	5.25E-13	2.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05	1.04E-06	0.00E+00	0.00E+00	1.82E-11	0.00E+00	1.31E-06	2.11E+04	1.02E-04	
183	0.3040	175	3.62E+04	3.50E-04	2.42E-06	5.83E-15	1.24E-04	1.83E-12	2.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	3.69E-07	5.84E-06	0.00E+00	4.91E-13	0.00E+00	7.11E-06	2.35E+04	4.57E-04	
184	0.3000	176	5.00E+04	4.65E-04	2.29E-08	1.31E-11	2.72E-06	1.20E-14	4.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	7.01E-05	0.00E+00	0.00E+00	5.09E-16	0.00E+00	3.24E-06	3.50E+04	1.44E-04	
185	0.2960	177	1.96E+04	6.09E-04	1.90E-05	4.19E-15	3.31E-04	2.01E-12	2.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-06	1.04E-05	0.00E+00	0.00E+00	1.17E-06	0.00E+00	7.97E-08	5.00E+04	2.72E-04	
186	0.2920	178	2.71E+04	8.77E-04	1.71E-05	2.43E-15	4.84E-04	4.51E-12	4.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	9.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-06	1.96E+04	2.91E-04	
187	0.2880	179	5.00E+04	2.53E-04	1.27E-07	3.75E-08	1.52E-05	4.57E-13	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04	3.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-06	2.71E+04	3.84E-04	
188	0.2840	180	8.10E+03	6.12E-05	5.94E-06	1.49E-14	5.26E-05	1.35E-12	1.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05	2.47E-05	5.35E-07	0.00E+00	1.04E-06	0.00E+00	4.65E-07	5.00E+04	1.33E-04	
189	0.2800	181	2.63E+04	5.50E-04	1.15E-05	6.67E-16	3.13E-04	5.58E-13	5.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-06	9.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-08	9.10E+03	2.54E-05	
190	0.2760	182	2.01E+04	5.79E-04	2.26E-05	1.10E-15	4.10E-04	1.58E-12	4.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	6.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-06	2.55E+04	2.62E-04	
191	0.2720	183	4.47E+04	1.14E-04	2.64E-07	3.08E-15	2.34E-05	1.33E-12	4.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-06	2.01E+04	2.92E-04	
192	0.2680	184	2.35E+04	8.77E-04	1.80E-05	4.62E-16	4.03E-04	6.03E-13	5.64E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	5.64E-06	2.39E-07	0.00E+00	1.89E-05	0.00E+00	5.74E-06	2.36E+04	3.13E-04	
193	0.2640	185	3.75E+04	6.45E-04	5.64E-06	1.82E-14	3.14E-04	2.60E-12	2.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04	4.62E-06	1.32E-05	0.00E+00	0.00E+00	0.00E+00	5.32E-06	3.75E+04	2.66E-04	
194	0.2600	186	5.00E+04	1.98E-02	5.30E-07	1.31E-14	6.35E-05	1.20E-11	1.93E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	2.23E-04	1.04E-07	0.00E+00	1.32E-10	0.00E+00	1.88E-06	5.00E+04	1.16E-02	
195	0.2560	187	3.17E+04	7.34E-04	1.16E-05	1.26E-14	4.44E-04	1.11E-12	4.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	7.48E-05	5.10E-14	0.00E+00	1.02E-05	0.00E+00	6.20E-06	2.97E+04	3.70E-04	
196	0.2520	188	5.96E+03	6.24E-05	7.03E-06	6.18E-17	5.11E-05	5.07E-13	4.00E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-08	5.96E+03	2.54E-05	
197	0.2480	189	5.00E+04	1.55E-04	2.09E-07	2.28E-15	2.52E-05	1.03E-12	5.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-05	1.09E-05	0.00E+00	0.00E+00	6.05E-15	0.00E+00	7.51E-07	3.07E+04	7.42E-05	
198	0.2440	190	5.00E+04	8.12E-03	3.95E-07	1.29E-05	4.78E-05	8.18E-13	7.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	6.03E-05	0.00E+00	0.00E+00	4.50E-23	0.00E+00	1.43E-06	5.00E+04	4.75E-03	
199	0.2400	191	5.00E+04	7.59E-05	1.58E-07	8.60E-16	1.91E-05	2.40E-15	5.18E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-05	3.19E-08	2.09E-09	1.21E-08	0.00E+00	0.00E+00	5.93E-07	5.00E+04	2.88E-05	
200	0.2360	192	2.48E+04	5.95E-04	1.72E-05	1.46E-14	4.19E-04	2.35E-12	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05	1.65E-05	6.76E-07	0.00E+00	0.00E+00	0.00E+00	5.93E-07	5.00E+04	2.88E-05	
201	0.2320	193	2.17E+04	3.11E-05	8.71E-07	1.62E-15	1.74E-05	1.42E-13	3.29E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-05	6.92E-05	6.12E-08	0.00E+00	2.08E-07	0.00E+00	5.05E-06	2.35E+04	3.17E-04	
202	0.2280	194	2.79E+04	1.52E-04	1.79E-06	3.96E-17	5.36E-05	2.27E-13	1.85E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-14	1.25E-18	3.82E-18	9.87E-18	0.00E+00	0.00E+00	2.04E-07	2.22E+04	1.46E-05	
203	0.2240	195	5.00E+04	6.41E-03	1.49E-07	2.60E-08	1.80E-05	1.67E-11	6.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-05	3.63E-05	7.29E-07	0.00E+00	1.93E-06	0.00E+00	1.49E-06	2.79E+04	6.46E-05	
204	0.2200	196	3.07E+04	9.88E-04	1.06E-05	2.11E-15	3.96E-07	2.27E-13	1.85E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05	6.31E-05	0.00E+00	0.00E+00	4.20E-07	0.00E+00	5.39E-07	5.00E+04	3.77E-03	
205	0.2160	197	1.75E+04	9.54E-04	4.34E-05	8.82E-17	6.65E-04	2.51E-13	2.04E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04	2.87E-04	7.20E-06	0.00E+00	6.47E-06	0.00E+00	6.62E-06	3.07E+04	4.44E-04	
206	0.2120	198	5.00E+04	7.41E-03	6.51E-07	1.33E-14	7.83E-05	1.12E-11	8.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	2.16E-04	0.00E+00	0.00E+00	3.30E-05	0.00E+00	2.33E-06	5.00E+04	4.27E-03	
207	0.2080	199	1.17E+04	3.14E-05	2.44E-06	7.79E-17	2.54E-05	2.07E-13	1.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-06	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-08	1.46E+04	1.33E-05	
208	0.2040	200	3.07E+04	1.31E-04	1.27E-06	2.22E-16	4.60E-05	8.23E-14	6.32E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-05	1.81E-08	0.00E+00	0.00E+00	6.21E-06	0.00E+00	1.91E-06	3.17E+04	4.97E-05	
209	0.2000	201	2.88E+04	1.89E-04	2.40E-06	9.42E-16	7.70E-05	6.42E-14	3.28E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-05	3.38E-05	4.85E-08	0.00E+00	1.30E-10	0.00E+00	1.64E-06	2.97E+04	8.13E-05	
210	0.1960	202	5.00E+04	1.14E-04	1.68E-07	9.06E-16	2.04E																				

1/31/00 141
CJES

Sorted results from pg 140; Sorted for each RN

With Correlation, sorted lowest to highest dose

	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH
1																																	
2																																	
3																																	
4																																	
5																																	
6																																	
7	probability	vector	cm040de	vector	U238de	vector	cm040de	vector	Am241de	vector	U238de	vector	U238de	vector	Th232de	vector	Ra226de	vector	Pb210de	vector	U238de	vector	Th232de	vector	Ni59de	vector	Sa79de	vector	Ci36de	vector	U238de	vector	dmk020
8	in250	unitless	rem/yr	unitless	rem/yr	unitless	rem/yr	unitless	rem/yr	unitless	rem/yr	unitless	rem/yr	unitless	rem/yr	unitless	rem/yr	unitless	rem/yr	unitless	rem/yr	unitless	rem/yr	unitless	rem/yr	unitless	rem/yr	unitless	rem/yr	unitless	rem/yr	unitless	rem/yr
9	1.000E-04	44	8.09E-07	143	3.43E-10	44	3.08E-07	44	3.09E-10	44	1.64E-12	3	0.00E+00	3	0.00E+00	1	0.00E+00	3	0.00E+00	3	0.00E+00	44	2.61E-07	89	0.00E+00	3	0.00E+00	44	5.34E-08	188	5.98E+03	44	3.22E-07
10	0.999E-04	44	1.15E-06	44	2.03E-10	153	1.33E-06	25	4.20E-10	143	8.13E-12	5	0.00E+00	5	0.00E+00	3	0.00E+00	5	0.00E+00	5	0.00E+00	153	5.93E-07	119	0.00E+00	8	0.00E+00	5	1.20E-08	135	9.10E+03	153	1.49E-06
11	0.992E-04	178	2.23E-06	20	4.92E-10	84	1.40E-06	123	7.30E-10	20	1.09E-11	7	0.00E+00	7	0.00E+00	5	0.00E+00	5	0.00E+00	5	0.00E+00	178	7.49E-07	188	0.00E+00	8	0.00E+00	8	0.00E+00	153	1.34E-08	167	2.07E-06
12	0.988E-04	144	2.41E-06	25	5.06E-10	167	2.01E-06	29	2.38E-10	25	2.01E-11	8	0.00E+00	8	0.00E+00	7	0.00E+00	7	0.00E+00	7	0.00E+00	135	8.43E-07	35	4.39E-15	10	0.00E+00	10	0.00E+00	225	2.44E-08	199	1.48E+04
13	0.984E-04	211	2.81E-06	50	1.51E-17	176	2.72E-06	191	2.40E-15	123	3.50E-11	74	4.49E-11	11	0.00E+00	11	0.00E+00	10	0.00E+00	10	0.00E+00	225	1.89E-06	225	8.25E-14	12	0.00E+00	14	0.00E+00	135	2.56E-06	50	1.75E+04
14	0.980E-04	4	2.90E-06	167	1.75E-17	225	2.80E-06	143	3.19E-15	113	4.71E-11	13	0.00E+00	12	0.00E+00	11	0.00E+00	11	0.00E+00	11	0.00E+00	180	2.52E-06	164	1.60E-13	15	0.00E+00	18	0.00E+00	199	5.54E-08	5	1.92E+04
15	0.976E-04	246	2.93E-06	153	2.24E-17	144	2.81E-06	157	3.02E-15	50	5.21E-11	13	0.00E+00	13	0.00E+00	12	0.00E+00	12	0.00E+00	12	0.00E+00	167	3.10E-06	218	3.99E-13	16	0.00E+00	21	0.00E+00	25	5.59E-08	27	1.82E+04
16	0.972E-04	153	3.23E-06	101	2.47E-17	165	3.02E-06	103	7.94E-15	200	6.32E-11	14	0.00E+00	14	0.00E+00	13	0.00E+00	13	0.00E+00	13	0.00E+00	84	3.26E-06	73	3.57E-12	17	0.00E+00	20	0.00E+00	167	5.96E-08	34	1.92E+04
17	0.968E-04	167	3.62E-06	144	2.48E-17	4	3.22E-06	106	8.77E-15	200	6.32E-11	14	0.00E+00	14	0.00E+00	13	0.00E+00	13	0.00E+00	13	0.00E+00	199	3.26E-06	64	4.57E-12	20	0.00E+00	27	0.00E+00	176	7.97E-08	137	1.92E+04
18	0.964E-04	2	3.77E-06	23	3.60E-17	211	3.35E-06	113	8.91E-15	135	6.41E-11	16	0.00E+00	16	0.00E+00	14	0.00E+00	14	0.00E+00	14	0.00E+00	199	3.26E-06	64	4.57E-12	20	0.00E+00	27	0.00E+00	176	7.97E-08	137	1.92E+04
19	0.960E-04	31	3.81E-06	113	3.88E-17	248	3.50E-06	39	9.00E-15	167	6.43E-11	17	0.00E+00	17	0.00E+00	16	0.00E+00	16	0.00E+00	16	0.00E+00	199	3.26E-06	64	4.57E-12	20	0.00E+00	27	0.00E+00	176	7.97E-08	137	1.92E+04
20	0.956E-04	29	4.40E-06	49	3.95E-17	50	3.95E-06	163	1.16E-14	103	6.44E-11	19	0.00E+00	19	0.00E+00	20	0.00E+00	20	0.00E+00	20	0.00E+00	199	3.26E-06	64	4.57E-12	20	0.00E+00	27	0.00E+00	176	7.97E-08	137	1.92E+04
21	0.952E-04	154	4.77E-06	194	3.96E-17	31	4.54E-06	178	1.20E-14	225	7.20E-11	20	0.00E+00	21	0.00E+00	21	0.00E+00	21	0.00E+00	21	0.00E+00	199	3.26E-06	64	4.57E-12	20	0.00E+00	27	0.00E+00	176	7.97E-08	137	1.92E+04
22	0.948E-04	128	4.83E-06	104	3.96E-17	2	4.55E-06	47	1.20E-14	225	7.20E-11	20	0.00E+00	21	0.00E+00	21	0.00E+00	21	0.00E+00	21	0.00E+00	199	3.26E-06	64	4.57E-12	20	0.00E+00	27	0.00E+00	176	7.97E-08	137	1.92E+04
23	0.944E-04	118	5.07E-06	123	4.45E-17	124	5.70E-06	218	1.39E-14	202	1.63E-10	23	0.00E+00	26	0.00E+00	25	0.00E+00	25	0.00E+00	25	0.00E+00	199	3.26E-06	64	4.57E-12	20	0.00E+00	27	0.00E+00	176	7.97E-08	137	1.92E+04
24	0.940E-04	29	5.15E-06	49	4.45E-17	124	5.70E-06	218	1.39E-14	202	1.63E-10	23	0.00E+00	26	0.00E+00	25	0.00E+00	25	0.00E+00	25	0.00E+00	199	3.26E-06	64	4.57E-12	20	0.00E+00	27	0.00E+00	176	7.97E-08	137	1.92E+04
25	0.936E-04	221	6.31E-06	88	4.55E-17	158	6.88E-06	238	1.41E-14	194	1.65E-10	23	0.00E+00	27	0.00E+00	26	0.00E+00	26	0.00E+00	26	0.00E+00	199	3.26E-06	64	4.57E-12	20	0.00E+00	27	0.00E+00	176	7.97E-08	137	1.92E+04
26	0.932E-04	225	6.34E-06	122	4.70E-17	118	6.04E-06	155	1.45E-14	77	1.70E-10	28	0.00E+00	28	0.00E+00	27	0.00E+00	27	0.00E+00	27	0.00E+00	199	3.26E-06	64	4.57E-12	20	0.00E+00	27	0.00E+00	176	7.97E-08	137	1.92E+04
27	0.928E-04	118	6.51E-06	248	4.75E-17	23	6.18E-06	167	1.59E-14	106	1.75E-10	27	0.00E+00	29	0.00E+00	28	0.00E+00	28	0.00E+00	28	0.00E+00	199	3.26E-06	64	4.57E-12	20	0.00E+00	27	0.00E+00	176	7.97E-08	137	1.92E+04
28	0.924E-04	105	6.65E-06	53	4.86E-17	74	6.39E-06	58	1.63E-14	233	1.83E-10	28	0.00E+00	30	0.00E+00	29	0.00E+00	29	0.00E+00	29	0.00E+00	199	3.26E-06	64	4.57E-12	20	0.00E+00	27	0.00E+00	176	7.97E-08	137	1.92E+04
29	0.920E-04	107	6.88E-06	78	4.93E-17	106	7.47E-06	248	2.27E-14	88	1.85E-10	28	0.00E+00	30	0.00E+00	29	0.00E+00	29	0.00E+00	29	0.00E+00	199	3.26E-06	64	4.57E-12	20	0.00E+00	27	0.00E+00	176	7.97E-08	137	1.92E+04
30	0.916E-04	105	6.88E-06	78	4.93E-17	106	7.47E-06	248	2.27E-14	88	1.85E-10	28	0.00E+00	30	0.00E+00	29	0.00E+00	29	0.00E+00	29	0.00E+00	199	3.26E-06	64	4.57E-12	20	0.00E+00	27	0.00E+00	176	7.97E-08	137	1.92E+04
31	0.912E-04	232	6.14E-06	159	5.45E-17	116	7.75E-06	68	3.07E-14	157	1.93E-10	32	0.00E+00	34	0.00E+00	33	0.00E+00	33	0.00E+00	33	0.00E+00	199	3.26E-06	64	4.57E-12	20	0.00E+00	27	0.00E+00	176	7.97E-08	137	1.92E+04
32	0.908E-04	230	6.61E-06	158	6.18E-17	105	7.89E-06	202	3.15E-14	29	1.95E-10	33	0.00E+00	35	0.00E+00	34	0.00E+00	34	0.00E+00	34	0.00E+00	199	3.26E-06	64	4.57E-12	20	0.00E+00	27	0.00E+00	176	7.97E-08	137	1.92E+04
33	0.904E-04	25	1.00E-07	170	6.31E-17	107	7.87E-06	73	3.30E-14	197	2.04E-10	34	0.00E+00	36	0.00E+00	35	0.00E+00	35	0.00E+00	35	0.00E+00	199	3.26E-06	64	4.57E-12	20	0.00E+00	27	0.00E+00	176	7.97E-08	137	1.92E+04
34	0.900E-04	113	1.10E-07	74	6.41E-17	150	8.73E-06	22	3.37E-14	58	2.07E-10	35	0.00E+00	37	0.00E+00	36	0.00E+00	36	0.00E+00	36	0.00E+00	199	3.26E-06	64	4.57E-12	20	0.00E+00	27	0.00E+00	176	7.97E-08	137	1.92E+04
35	0.896E-04	229	1.15E-07	36	6.70E-17	162	1.07E-06	245	3.81E-14	101	2.11E-10	36	0.00E+00	38	0.00E+00	37	0.00E+00	37	0.00E+00	37	0.00E+00	199	3.26E-06	64	4.57E-12	20	0.00E+00	27	0.00E+00	176	7.97E-08	137	1.92E+04
36	0.892E-04	9	1.22E-07	39	6.79E-17	232	1.10E-06	165	3.82E-14	104	2.12E-10	37	0.00E+00	39	0.00E+00	38	0.00E+00	38	0.00E+00	38	0.00E+00	199	3.26E-06	64	4.57E-12	20	0.00E+00	27	0.00E+00	176	7.97E-08	137	1.92E+04
37	0.888E-04	218	1.22E-07	77	7.40E-17	230	1.15E-06	128	3.84E-14	104	2.12E-10	37	0.00E+00	39	0.00E+00	38	0.00E+00	38	0.00E+00	38	0.00E+00	199	3.26E-06	64	4.57E-12	20	0.00E+00	27	0.00E+00	176	7.97E-08	137	1.92E+04
38	0.884E-04	178	1.22E-07	199	7.73E-17	113	1.34E-06	125	4.05E-14	248	2.22E-10	38	0.00E+00	40	0.00E+00	39	0.00E+00	39	0.00E+00	39	0.00E+00	199	3.26E-06	64	4.57E-12	20	0.00E+00	27	0.00E+00	176	7.97E-08	137	1.92E+04
39	0.880E-04	162	1.34E-07	45	8.79E-17	220	1.39E-06	112	4.06E-14	70	2.32E-10	40																					

Sorted results from pg 140; Sorted for each RN

1/31/00 141
CDB

	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH		
108	0.6040	133	1.63E-06	201	9.42E-16	228	7.42E-09	242	4.95E-15	172	8.00E-09	137	1.91E-09	138	0.00E+00	138	0.00E+00	133	0.00E+00	200	7.53E-05	106	3.17E-06	175	0.00E+00	245	1.13E-15	201	1.64E-06	235	2.79E+04	178	1.33E-04		
109	0.6000	127	1.63E-06	22	9.49E-16	51	7.45E-09	109	5.04E-15	130	8.00E-09	137	1.91E-09	138	0.00E+00	140	0.00E+00	133	0.00E+00	200	7.53E-05	106	3.17E-06	175	0.00E+00	245	1.13E-15	201	1.64E-06	235	2.79E+04	178	1.33E-04		
110	0.5960	104	1.67E-06	17	1.02E-15	134	7.59E-05	43	5.04E-15	130	1.35E-09	139	0.00E+00	141	0.00E+00	137	0.00E+00	134	0.00E+00	64	7.59E-05	185	4.62E-05	177	0.00E+00	175	0.00E+00	176	1.71E-06	141	2.88E+04	19	1.37E-04		
111	0.5920	228	1.67E-06	205	1.01E-15	221	7.68E-05	168	5.07E-15	231	1.87E-09	140	0.00E+00	142	0.00E+00	138	0.00E+00	125	0.00E+00	119	7.68E-05	139	4.85E-06	178	0.00E+00	228	6.62E-16	171	1.71E-06	145	2.88E+04	127	1.38E-04		
112	0.5880	148	1.68E-06	124	1.01E-15	201	7.70E-05	174	5.25E-15	151	2.05E-09	141	0.00E+00	143	0.00E+00	140	0.00E+00	136	0.00E+00	233	7.68E-05	84	5.15E-06	180	0.00E+00	89	4.97E-15	247	1.74E-06	203	2.88E+04	71	1.39E-04		
113	0.5840	213	1.68E-06	169	1.02E-15	157	7.82E-05	97	5.44E-15	173	2.05E-09	143	0.00E+00	144	0.00E+00	141	0.00E+00	137	0.00E+00	129	8.04E-05	112	5.25E-06	181	0.00E+00	89	4.97E-15	247	1.74E-06	203	2.88E+04	71	1.39E-04		
114	0.5800	184	1.78E-06	133	1.08E-15	198	7.83E-05	28	5.46E-15	182	2.11E-09	144	0.00E+00	145	0.00E+00	142	0.00E+00	136	0.00E+00	240	8.05E-05	29	5.54E-06	182	0.00E+00	188	6.03E-15	28	1.81E-06	106	2.87E+04	17	1.47E-04		
115	0.5760	214	1.87E-06	182	1.10E-15	124	7.80E-05	181	5.36E-15	91	2.23E-09	145	0.00E+00	146	0.00E+00	141	0.00E+00	135	0.00E+00	100	8.27E-05	152	6.88E-06	188	0.00E+00	142	1.38E-14	78	1.91E-06	129	2.87E+04	28	1.56E-04		
116	0.5720	149	1.95E-06	165	1.12E-15	222	7.92E-05	240	5.44E-15	159	8.02E-13	146	0.00E+00	149	0.00E+00	145	0.00E+00	142	0.00E+00	78	8.30E-05	101	9.83E-06	189	0.00E+00	174	4.91E-15	200	1.91E-06	132	2.87E+04	62	1.57E-04		
117	0.5680	129	1.98E-06	19	1.20E-15	26	8.35E-05	194	5.35E-15	184	8.03E-13	94	2.28E-09	151	0.00E+00	152	0.00E+00	147	0.00E+00	143	0.00E+00	192	8.33E-05	176	1.04E-05	190	0.00E+00	204	6.41E-15	49	1.98E-06	138	2.87E+04	52	1.59E-04
118	0.5640	40	1.99E-06	27	1.20E-15	204	8.51E-05	184	5.03E-15	94	2.28E-09	151	0.00E+00	152	0.00E+00	153	0.00E+00	149	0.00E+00	144	0.00E+00	192	8.33E-05	176	1.04E-05	190	0.00E+00	204	6.41E-15	49	1.98E-06	138	2.87E+04	52	1.59E-04
119	0.5600	45	2.02E-06	239	1.21E-15	148	8.52E-05	42	6.21E-13	175	2.32E-09	152	0.00E+00	153	0.00E+00	154	0.00E+00	149	0.00E+00	144	0.00E+00	192	8.33E-05	176	1.04E-05	190	0.00E+00	204	6.41E-15	49	1.98E-06	138	2.87E+04	52	1.59E-04
120	0.5560	26	2.04E-06	163	1.22E-15	104	8.66E-05	34	6.30E-13	174	2.38E-09	153	0.00E+00	155	0.00E+00	151	0.00E+00	145	0.00E+00	147	0.00E+00	192	8.33E-05	176	1.04E-05	190	0.00E+00	204	6.41E-15	49	1.98E-06	138	2.87E+04	52	1.59E-04
121	0.5520	161	2.12E-06	73	1.31E-15	212	8.68E-05	90	6.49E-13	8	2.40E-09	155	0.00E+00	157	0.00E+00	152	0.00E+00	150	0.00E+00	146	0.00E+00	192	8.33E-05	176	1.04E-05	190	0.00E+00	204	6.41E-15	49	1.98E-06	138	2.87E+04	52	1.59E-04
122	0.5480	204	2.22E-06	145	1.45E-15	40	8.83E-05	133	6.81E-13	152	2.61E-09	157	0.00E+00	158	0.00E+00	153	0.00E+00	150	0.00E+00	146	0.00E+00	192	8.33E-05	176	1.04E-05	190	0.00E+00	204	6.41E-15	49	1.98E-06	138	2.87E+04	52	1.59E-04
123	0.5440	119	2.23E-06	152	1.46E-15	234	8.64E-05	217	6.82E-13	153	2.63E-09	158	0.00E+00	159	0.00E+00	154	0.00E+00	151	0.00E+00	147	0.00E+00	192	8.33E-05	176	1.04E-05	190	0.00E+00	204	6.41E-15	49	1.98E-06	138	2.87E+04	52	1.59E-04
124	0.5400	231	2.24E-06	14	1.46E-15	93	8.98E-05	111	6.90E-13	215	2.63E-09	159	0.00E+00	160	0.00E+00	155	0.00E+00	151	0.00E+00	147	0.00E+00	192	8.33E-05	176	1.04E-05	190	0.00E+00	204	6.41E-15	49	1.98E-06	138	2.87E+04	52	1.59E-04
125	0.5360	212	2.26E-06	193	1.62E-15	55	9.14E-05	136	7.04E-13	177	2.67E-09	160	0.00E+00	161	0.00E+00	156	0.00E+00	153	0.00E+00	79	8.66E-05	211	1.28E-05	200	0.00E+00	108	2.84E-11	119	2.13E-06	1	3.07E+04	158	1.71E-04		
126	0.5320	201	2.40E-06	119	1.72E-15	15	9.35E-05	17	7.08E-13	194	2.91E-09	161	0.00E+00	162	0.00E+00	159	0.00E+00	155	0.00E+00	67	8.78E-05	11	1.31E-05	203	0.00E+00	73	2.99E-11	233	2.17E-06	12	3.07E+04	1	1.79E-04		
127	0.5280	49	2.40E-06	13	1.73E-15	213	9.40E-05	229	7.22E-13	149	2.85E-09	162	0.00E+00	163	0.00E+00	160	0.00E+00	156	0.00E+00	211	8.80E-05	216	1.32E-05	206	0.00E+00	148	3.08E-11	228	2.23E-06	149	3.07E+04	125	1.59E-04		
128	0.5240	175	2.42E-06	132	1.74E-15	90	9.41E-05	150	7.64E-13	204	3.22E-09	163	0.00E+00	164	0.00E+00	161	0.00E+00	157	0.00E+00	244	8.83E-05	47	1.32E-05	212	0.00E+00	58	3.15E-11	201	2.25E-06	45	3.07E+04	229	1.83E-04		
129	0.5200	199	2.44E-06	150	1.76E-15	28	9.50E-05	161	8.00E-13	12	3.28E-09	164	0.00E+00	165	0.00E+00	162	0.00E+00	158	0.00E+00	234	8.83E-05	216	1.32E-05	217	0.00E+00	201	1.30E-05	161	2.28E-06	91	3.07E+04	100	1.84E-04		
130	0.5160	234	2.46E-06	5	1.76E-15	132	9.70E-05	105	8.09E-13	12	3.28E-09	165	0.00E+00	166	0.00E+00	163	0.00E+00	159	0.00E+00	202	8.83E-05	216	1.32E-05	218	0.00E+00	200	0.00E+00	118	2.28E-06	214	2.87E+04	92	1.88E-04		
131	0.5120	16	2.46E-06	87	1.77E-15	119	9.78E-05	106	8.18E-13	78	3.44E-09	167	0.00E+00	168	0.00E+00	165	0.00E+00	160	0.00E+00	108	9.28E-05	103	1.46E-05	220	0.00E+00	247	2.08E-10	198	2.33E-06	100	3.07E+04	223	1.85E-04		
132	0.5080	62	2.50E-06	215	1.87E-15	17	9.85E-05	190	8.18E-13	78	3.44E-09	168	0.00E+00	169	0.00E+00	166	0.00E+00	161	0.00E+00	108	9.28E-05	103	1.46E-05	220	0.00E+00	247	2.08E-10	198	2.33E-06	100	3.07E+04	223	1.85E-04		
133	0.5040	28	2.55E-06	242	1.93E-15	49	9.86E-05	71	8.47E-13	205	3.65E-09	169	0.00E+00	170	0.00E+00	167	0.00E+00	162	0.00E+00	108	9.28E-05	103	1.46E-05	220	0.00E+00	247	2.08E-10	198	2.33E-06	100	3.07E+04	223	1.85E-04		
134	0.5000	146	2.65E-06	16	2.04E-15	120	1.03E-04	231	8.47E-13	170	3.74E-09	169	0.00E+00	170	0.00E+00	167	0.00E+00	163	0.00E+00	145	9.38E-05	107	1.53E-05	224	0.00E+00	158	3.07E-10	158	2.33E-06	133	3.07E+04	30	2.39E-04		
135	0.4960	152	2.68E-06	196	2.11E-15	32	1.02E-04	9	8.58E-13	119	3.75E-09	170	0.00E+00	171	0.00E+00	168	0.00E+00	164	0.00E+00	145	9.38E-05	107	1.53E-05	224	0.00E+00	158	3.07E-10	158	2.33E-06	133	3.07E+04	30	2.39E-04		
136	0.4920	243	2.71E-06	141	2.16E-15	172	1.10E-04	127	8.63E-13	51	3.88E-09	171	0.00E+00	172	0.00E+00	169	0.00E+00	165	0.00E+00	145	9.38E-05	107	1.53E-05	224	0.00E+00	158	3.07E-10	158	2.33E-06	133	3.07E+04	30	2.39E-04		
137	0.4880	75	2.75E-06	12	2.23E-15	218	1.12E-04	87	8.76E-13	3	4.04E-09	172	0.00E+00	173	0.00E+00	170	0.00E+00	166	0.00E+00	145	9.38E-05	107	1.53E-05	224	0.00E+00	158	3.07E-10	158	2.33E-06	133	3.07E+04	30	2.39E-04		
138	0.4840	220	2.81E-06	76	2.24E-15	161	1.15E-04	26	8.76E-13	3	4.04E-09	173	0.00E+00	174	0.00E+00	171	0.00E+00	167	0.00E+00	145	9.38E-05	107	1.53E-05	224	0.00E+00	158	3.07E-10	158	2.33E-06	133	3.07E+04	30	2.39E-04		
139	0.4800	110	2.82E-06	182	2.25E-15	83	1.17E-04	145	9.29E-13	182	4.22E-09	174	0.00E+00	175	0.00E+00	172	0.00E+00	168	0.00E+00	145	9.38E-05	107	1.53E-05	224	0.00E+00	158	3.07E-10	158	2.33E-06	133	3.07E+04	30	2.39E-04		
140	0.4760	138	2.83E-06	138	2.31E-15	161	1.19E-04	173	9.31E-13	85	4.23E-09	175	0.00E+00	176	0.00E+00	173	0.00E+00	169	0.00E+00	145	9.38E-05	107	1.53E-05	224	0.00E+00	158	3.07E-10	158	2.33E-06	133	3.07E+04	30	2.39E-04		
141	0.4720	15	3.27E-06	72	2.31E-15	140	1.23E-04	2	9.33E-13	169	4.28E-09	177	0.00E+00	178	0.0																				

Sorted results from pg 140; Sorted for each RN

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Cord

	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH		
215	0.1760	242	1.48E-05	217	3.55E-14	246	3.99E-04	139	4.43E-12	189	5.87E-09	226	5.84E-14	211	2.21E-18	56	3.81E-16	47	6.03E-16	12	2.10E-04	158	1.13E-04	115	5.41E-07	78	8.80E-06	217	5.20E-09	42	5.00E+04	126	5.69E-04		
216	0.1720	246	1.47E-05	156	3.65E-14	27	4.01E-04	178	4.51E-12	150	6.63E-05	83	4.37E-13	9	2.30E-16	15	3.94E-16	15	1.42E-15	242	2.11E-04	210	1.13E-04	29	5.43E-07	7	8.91E-06	185	5.32E-06	46	5.00E+04	249	5.89E-04		
217	0.1680	136	1.55E-05	226	4.29E-14	184	4.03E-04	52	4.84E-12	118	1.73E-04	47	2.15E-12	148	8.35E-16	24	6.89E-16	24	2.08E-15	138	2.19E-04	166	1.20E-04	130	5.75E-07	48	1.04E-05	64	5.47E-06	55	5.00E+04	247	6.25E-04		
218	0.1640	99	1.59E-05	112	4.82E-14	66	4.05E-04	10	4.92E-12	179	1.73E-04	47	2.15E-12	224	8.38E-12	15	8.78E-16	224	1.11E-15	18	3.12E-15	198	2.19E-04	141	1.26E-04	120	5.98E-07	163	1.05E-05	22	5.55E-06	57	5.00E+04	222	6.72E-04
219	0.1600	239	1.60E-05	47	1.44E-13	114	4.09E-04	99	5.11E-12	223	2.75E-04	224	8.38E-12	15	8.78E-16	224	1.11E-15	18	3.12E-15	198	2.19E-04	141	1.26E-04	120	5.98E-07	163	1.05E-05	22	5.55E-06	57	5.00E+04	222	6.72E-04		
220	0.1560	164	1.63E-05	24	2.19E-13	182	4.10E-04	87	5.21E-12	79	3.63E-04	56	1.11E-11	18	1.38E-15	18	1.26E-15	224	4.71E-15	55	2.20E-04	226	1.28E-04	88	6.18E-07	57	1.14E-05	56	5.70E-06	58	5.00E+04	217	6.85E-04		
221	0.1520	145	1.67E-05	56	4.14E-13	131	4.11E-04	208	5.46E-12	120	3.84E-04	15	1.12E-11	146	2.86E-15	17	1.93E-15	17	4.94E-15	124	2.21E-04	70	1.31E-04	118	6.27E-07	75	1.15E-05	164	5.74E-06	79	5.00E+04	218	6.89E-04		
222	0.1480	178	1.71E-05	224	5.50E-13	239	4.12E-04	24	5.59E-12	250	3.88E-04	148	1.20E-11	224	8.67E-15	148	2.46E-15	148	6.78E-15	164	2.25E-04	87	1.31E-04	36	6.42E-07	231	1.25E-05	226	5.78E-06	84	5.00E+04	95	7.15E-04		
223	0.1440	192	1.72E-05	15	8.23E-13	164	4.18E-04	213	6.02E-12	176	4.43E-04	24	1.47E-11	102	1.07E-14	6	1.18E-14	6	4.34E-14	38	2.27E-04	146	1.36E-04	103	4.54E-07	246	1.29E-05	141	5.83E-06	87	5.00E+04	6	7.58E-04		
224	0.1400	114	1.74E-05	148	1.14E-12	192	4.19E-04	204	6.42E-12	249	7.29E-04	112	1.06E-11	176	1.66E-14	82	1.44E-14	146	5.24E-14	56	2.35E-04	84	1.35E-04	191	6.76E-07	33	1.32E-05	136	6.19E-06	93	5.00E+04	107	7.82E-04		
225	0.1360	184	1.80E-05	48	1.69E-12	97	4.21E-04	95	7.55E-12	84	7.65E-04	18	6.15E-11	85	2.23E-14	244	1.65E-14	244	7.78E-14	32	2.32E-04	33	1.37E-04	194	7.28E-07	13	1.32E-05	187	6.20E-06	105	5.00E+04	10	8.10E-04		
226	0.1320	121	1.81E-05	18	1.87E-12	141	4.21E-04	32	7.96E-12	247	7.88E-04	48	9.41E-11	24	2.40E-14	146	3.11E-14	82	9.32E-14	70	2.34E-04	156	1.37E-04	91	7.40E-07	43	1.34E-05	208	6.24E-06	107	8.00E+04	46	8.16E-04		
227	0.1280	43	1.83E-05	176	1.31E-11	121	4.24E-04	72	8.43E-12	222	9.10E-04	82	1.06E-10	87	3.12E-14	87	4.83E-14	87	1.58E-13	197	2.37E-04	246	1.40E-04	116	7.46E-07	242	1.39E-05	66	6.27E-06	113	5.00E+04	42	8.50E-04		
228	0.1240	76	1.84E-05	87	1.67E-11	187	4.44E-04	154	8.74E-12	31	9.79E-04	176	2.57E-10	244	7.35E-14	176	6.80E-14	176	1.65E-13	120	2.38E-04	37	1.41E-04	150	7.73E-07	171	1.50E-05	197	6.32E-06	116	5.00E+04	21	9.13E-04		
229	0.1200	227	1.85E-05	82	1.80E-11	37	4.49E-04	108	8.80E-12	46	1.23E-03	87	5.07E-10	250	2.03E-13	85	1.22E-13	2	2.86E-13	238	2.40E-04	236	1.41E-04	58	8.51E-07	1	1.55E-06	163	6.57E-06	117	5.00E+04	139	9.45E-04		
230	0.1160	177	1.90E-05	2	8.95E-11	137	4.50E-04	76	8.88E-12	107	1.31E-03	146	1.08E-09	2	2.05E-13	108	2.63E-13	85	3.68E-13	147	2.42E-04	61	1.41E-04	109	1.05E-06	110	1.62E-05	207	6.81E-06	118	5.00E+04	60	9.76E-04		
231	0.1120	64	1.95E-05	244	1.35E-10	147	4.51E-04	109	8.97E-12	42	1.38E-03	2	1.10E-09	154	2.92E-13	2	2.83E-13	100	5.58E-13	222	2.48E-04	236	1.48E-04	236	1.17E-04	22	1.65E-05	196	6.82E-06	120	5.00E+04	4	1.19E-03		
232	0.1080	126	1.97E-05	6	1.43E-10	73	4.55E-04	81	1.09E-11	48	1.75E-03	6	1.25E-06	17	9.16E-13	102	3.59E-13	57	2.12E-12	226	2.48E-04	137	1.54E-04	70	1.23E-06	161	1.70E-05	115	6.87E-06	128	5.00E+04	48	1.12E-03		
233	0.1040	97	2.03E-05	146	1.90E-10	115	4.66E-04	61	1.10E-11	4	1.85E-03	244	1.27E-09	249	9.45E-13	57	4.40E-13	108	2.18E-12	65	2.50E-04	97	1.83E-04	57	1.31E-06	184	1.89E-05	138	6.72E-06	142	5.00E+04	69	1.13E-03		
234	0.1000	34	2.05E-05	57	3.18E-10	64	4.77E-04	198	1.12E-11	7	2.08E-03	85	3.11E-09	195	1.10E-12	247	5.94E-13	250	2.61E-12	22	2.58E-04	24	1.64E-04	88	1.41E-06	157	1.84E-05	111	6.92E-06	144	5.00E+04	7	1.30E-03		
235	0.0960	208	2.06E-05	55	3.44E-10	76	4.77E-04	158	1.14E-11	211	2.24E-03	57	3.33E-09	82	2.01E-12	55	9.85E-13	247	3.44E-12	163	2.59E-04	12	1.66E-04	204	1.84E-06	30	1.99E-05	148	7.00E-06	150	5.00E+04	211	1.34E-03		
236	0.0920	203	2.10E-05	85	3.45E-10	178	4.84E-04	186	1.20E-11	2	2.28E-03	247	4.02E-09	105	3.59E-12	42	1.64E-12	154	3.69E-12	174	2.64E-04	169	1.72E-04	14	1.69E-06	19	2.35E-05	99	7.05E-06	154	5.00E+04	2	1.36E-03		
237	0.0880	207	2.21E-05	247	4.51E-10	207	5.16E-04	41	1.22E-11	232	3.46E-03	102	4.81E-09	42	6.15E-12	154	1.81E-12	55	5.08E-12	141	2.83E-04	75	1.73E-04	250	1.74E-06	234	2.39E-06	65	7.85E-06	156	5.00E+04	232	2.08E-03		
238	0.0840	182	2.26E-05	102	5.20E-10	208	5.33E-04	5	1.26E-11	194	3.51E-03	154	6.11E-09	179	6.52E-12	212	1.97E-12	42	5.32E-12	196	2.88E-04	249	1.79E-04	218	1.82E-06	11	2.52E-05	174	7.11E-06	176	8.09E+04	154	3.09E-03		
239	0.0800	27	2.29E-05	42	7.50E-10	89	3.37E-04	53	1.33E-11	237	4.25E-03	42	7.39E-09	57	8.54E-12	250	2.25E-12	179	1.40E-11	88	2.92E-04	41	1.79E-04	210	1.95E-06	164	2.55E-06	152	7.30E-06	179	5.00E+04	237	2.59E-03		
240	0.0760	37	2.40E-05	154	9.19E-10	145	5.65E-04	40	1.38E-11	117	4.75E-03	55	1.19E-06	247	9.74E-12	179	6.83E-12	212	3.08E-11	121	2.82E-04	247	1.90E-04	215	1.87E-06	92	2.98E-05	147	7.34E-06	186	5.00E+04	117	2.87E-03		
241	0.0720	73	2.40E-05	250	2.34E-09	163	6.11E-04	220	1.44E-11	105	4.83E-03	250	1.65E-06	116	1.92E-11	4	1.37E-11	31	4.43E-11	68	3.02E-04	124	1.91E-04	38	2.30E-06	166	3.08E-05	131	7.64E-06	190	5.00E+04	105	2.88E-03		
242	0.0680	95	2.51E-05	108	4.09E-09	111	6.26E-04	237	1.51E-11	216	5.13E-03	108	2.39E-06	55	2.69E-11	105	2.01E-11	4	5.55E-11	185	3.02E-04	129	1.94E-04	233	2.43E-06	198	3.30E-05	219	7.84E-06	191	5.00E+04	216	3.06E-03		
243	0.0640	137	2.63E-05	249	2.14E-08	226	6.30E-04	195	1.67E-11	57	5.44E-03	4	8.54E-06	212	3.92E-11	241	2.67E-11	105	5.65E-11	218	3.21E-04	55	1.88E-04	7	2.44E-06	32	3.37E-05	121	8.18E-06	195	5.00E+04	57	3.86E-03		
244	0.0600	226	2.67E-05	31	2.14E-08	174	6.31E-04	6	1.68E-11	156	5.73E-03	31	9.11E-08	31	4.87E-11	48	3.04E-11	186	6.83E-11	138	3.27E-04	219	2.91E-04	156	2.67E-04	39	3.37E-05	85	8.23E-06	188	5.00E+04	159	3.59E-03		
245	0.0560	174	2.68E-05	4	2.16E-08	5	6.36E-04	67	1.83E-11	9	6.09E-03	105	9.85E-06	84	6.77E-11	31	3.27E-11	249	9.28E-11	148	3.28E-04	32	2.19E-04	136	2.91E-06	83	3.37E-05	145	8.24E-06	202	5.00E+04	5	3.60E-03		
246	0.0520	163	2.82E-05	195	2.60E-08	97	6.41E-04	28	1.84E-11	41	6.08E-03	195	1.32E-07	108	8.77E-11	195	3.72E-11	46	1.21E-10	66	3.32E-04	188	2.18E-04	27	3.30E-06	219	3.81E-09	76	8.73E-06	210	5.00E+04	230	3.72E-03		
247	0.0480	219	3.04E-05	105	7.80E-08	197	6.85E-04	141	1.84E-11	230	6.25E-03	179	1.83E-07	237	1.83E-10	249	4.44E-11	116	1.91E-10	152	3.34E-04	67	2.18E-04	104	3.42E-06	226	3.92E-05	178	8.90E-06	211	5.00E+04	41	3.73E-03		
248	0.0440	111	3.23E-05	179	3.75E-08	203	6.72E-04	222	1.88E-11	165	6.29E-03	84	1.89E-07	4	1.90E-10	84	1.91E-10	178	3.67E-04	217	2.18E-04	208	3.67E-06	24	4.07E-05	72	9.12E-06	216	5.00E+04	195	3.77E-03				
249	0.0400	67	3.54E-05	84	5.34E-08	126	7.09E-04	79	2.10E-11	188																									