DRAIN_MEDK.asp

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1      0    0      0.0    NOSTOP HDRYBOT LIMOP MINTHICK
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#12 December 2007
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HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/ibound3" 1 0 10000
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/ibound4" 1 0 10000
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/ibound5" 1 0 10000
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/ibound6" 1 0 10000
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HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/StartHead3" 1 0 10000
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GMS_HDF5_01 "DRAIN_MEDK.h5" "Specified Head" 1
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323688.6211621 1.0 no_chdf1
#GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 12 220080.0 323316.0 1.0
no_chdf2
#GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 2 219501.18238633
328416.68044872 1.0 no_chdf3
#GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 3 218869.23003934
327810.9157566 1.0 no_chdf4
#GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 4 219829.5 323290.0 1.0
no_chdf5
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no_chdf6
#GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 6 219619.23539641
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no_chdf15
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no_chdf16
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1 97 46 0.3082584948342
1 42
no_chdf13 1 0.0 1.0 1.0e+019 1 1
1 2 14 0.1464615554733
1 2 15 0.3301027797392
1 2 16 0.4966988266045
1 2 17 0.4967754485535
1 2 18 0.4968520941458
1 2 19 0.4969287633926
```

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1 2 20 0.4970054563046
1 2 21 0.497082172893
1 2 22 0.4971589131685
1 2 23 0.4972356771423
1 2 24 0.4973124648253
1 2 25 0.4973892762284
1 2 26 0.4974661113627
1 2 27 0.4975429702392
1 2 28 0.4976198528689
1 2 29 0.4976967592627
1 2 30 0.4977736894318
1 2 31 0.497850643387
1 2 32 0.4979276211396
1 2 33 0.4980046227005
1 2 34 0.4980466884375
1 3 34 0.4980852046557
1 3 35 0.4981586972913
1 3 36 0.4982357703434
1 3 37 0.498312867248
1 3 38 0.4983899880163
1 3 39 0.4984671326592
1 3 40 0.4985443011879
1 3 41 0.4986214936135
1 3 42 0.4986987099471
1 3 43 0.4987759501998
1 3 44 0.4988532143826
1 3 45 0.4989305025068
1 3 46 0.4990078145835
1 3 47 0.4990851506237
1 3 48 0.4991625106387
1 3 49 0.4992398946396
1 3 50 0.4993173026375
1 3 51 0.4993947346436
1 3 52 0.4994721906691
1 3 53 0.4995496707251
1 3 54 0.0336060850463
1 36
no_chdf14 1 0.0 1.0 1.0e+019 1 1
1 2 14 0.3501057359839
1 2 15 0.1664940273828
1 3 15 0.4965132173716
1 4 15 0.4964789751423
1 4 16 0.4964549438921
1 5 16 0.4964170930704
1 6 16 0.4963875308528
1 6 17 0.496363508454
1 7 17 0.496321005981
1 8 17 0.4962961202426
1 8 18 0.4962721066903
1 9 18 0.4962287503265
1 9 19 0.4962047432931
1 10 19 0.4961769450719
1 11 19 0.496137398181
1 11 20 0.4961133999856
1 12 20 0.4960809509176
1 13 20 0.4960460796638
1 13 21 0.4960220903015
1 14 21 0.4959849938998
1 15 21 0.4959547947564
1 15 22 0.4959308142224
1 16 22 0.4958890739967
1 17 22 0.4958635434403
1 17 23 0.4958395717296
```

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1 18 23 0.4957962909057
1 18 24 0.4957723256968
1 19 24 0.4957452636851
1 20 24 0.4957050979015
1 20 25 0.4956811415076
1 21 25 0.4956494364748
1 22 25 0.4956139384378
1 22 26 0.495589990854
1 23 26 0.4955536463041
1 24 26 0.4955228124961
1 24 27 0.4760723273906
1 21
no_chdf15 1 0.0 1.0 1.0e+019 1 1
1 87 36 0.0251626977566
1 88 36 0.4949095520563
1 88 37 0.4949604891448
1 89 37 0.4950106765358
1 89 38 0.4950616344433
1 90 38 0.495111842349
1 90 39 0.4951628210885
1 91 39 0.4952130495215
1 91 40 0.4952640491055
1 92 40 0.4953142980785
1 92 41 0.4953653185199
1 93 41 0.4954155880454
1 93 42 0.495466629357
1 94 42 0.4955169194476
1 94 43 0.4955679816422
1 95 43 0.4956182923106
1 95 44 0.495669375401
1 96 44 0.4957197066598
1 96 45 0.4957708106589
1 97 45 0.4958211625207
1 97 46 0.1876002686882
1 49
no_chdf16 1 0.0 1.0 1.0e+019 1 1
1 18 74 0.4924174867912
1 19 74 0.5001417230153
1 19 75 0.5002069898078
1 20 75 0.500282118578
1 21 75 0.5003723366738
1 21 76 0.5004376636726
1 22 76 0.500537792889
1 22 77 0.5006031631007
1 23 77 0.5006741951268
1 24 77 0.5007687720293
1 24 78 0.5008342025906
1 25 78 0.5009344905674
1 25 79 0.5009999644443
1 26 79 0.5010668867068
1 27 79 0.5011658360592
1 27 80 0.5012313704293
1 28 80 0.5013290234926
1 29 80 0.5013973953333
1 29 81 0.5014629902806
1 30 81 0.5015635302599
1 30 82 0.5016291686862
1 31 82 0.5017227433456
1 32 82 0.5017954572671
1 32 83 0.5018611564149
1 33 83 0.5019618561329
1 33 84 0.5020275988634
1 34 84 0.5021170821021
```

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1 35 84 0.5021941517499
1 35 85 0.5022599553466
1 36 85 0.5023608151844
1 36 86 0.5024266624678
1 37 86 0.5025120412227
1 38 86 0.5025934802906
1 38 87 0.5026593885856
1 39 87 0.5027604089253
1 39 88 0.5028263610112
1 40 88 0.5029076221723
1 41 88 0.5029934444029
1 41 89 0.5030594576462
1 42 89 0.5031606388713
1 42 90 0.5032266960102
1 43 90 0.5033038264207
1 44 90 0.5033940456055
1 44 91 0.503460164048
1 45 91 0.503561506543
1 45 92 0.5036276689862
1 46 92 0.5037006554423
1 47 92 0.1901629438474
1 47 93 0.3086362867694
1 28
no_chdf17 1 0.0 1.0 1.0e+019 1 1
1 66 28 0.2684047678
1 66 29 0.4958636921857
1 66 30 0.4958311770316
1 66 31 0.4957986661415
1 66 32 0.4957661595144
1 66 33 0.4957336571497
1 66 34 0.4957011590463
1 66 35 0.4956686652036
1 66 36 0.4956361756206
1 66 37 0.4956106861651
1 67 37 0.4955819269536
1 68 37 0.4955429049721
1 69 37 0.4955038891353
1 70 37 0.4954648794417
1 71 37 0.4954258758899
1 72 37 0.4953970511117
1 72 36 0.4953775539075
1 73 36 0.4953478872058
1 74 36 0.4953089020706
1 75 36 0.4952699230714
1 76 36 0.4952309502067
1 77 36 0.4951919834751
1 78 36 0.4951530228751
1 79 36 0.4951140684053
1 80 36 0.4950751200643
1 81 36 0.4950361778505
1 82 36 0.4949972417626
1 83 36 0.464954574808
1 48
no_chdf18 1 0.0 1.0 1.0e+019 1 1
1 24 27 0.0194265783748
1 25 27 0.4954888028629
1 26 27 0.4954946431299
1 26 28 0.4954999835286
1 27 28 0.4955096271957
1 27 29 0.4955149679174
1 28 29 0.4955208462262
1 29 29 0.4955299532125
1 29 30 0.4955352943723
```

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1 30 30 0.4955422107711
1 31 30 0.4955525484477
1 32 30 0.4955624042494
1 33 30 0.4955721234323
1 34 30 0.4955818429964
1 35 30 0.4955915629418
1 36 30 0.4956012832685
1 37 30 0.4956110039765
1 38 30 0.4956207250659
1 39 30 0.4956304465365
1 40 30 0.4956401683886
1 41 30 0.4956498906221
1 42 30 0.4956596132369
1 43 30 0.4956693362333
1 44 30 0.4956790596111
1 45 30 0.4956848809121
1 45 29 0.4956897428582
1 46 29 0.4956985075111
1 47 29 0.4957082320334
1 48 29 0.4957179569373
1 49 29 0.4957276822228
1 50 29 0.4957374078898
1 51 29 0.4957471339385
1 52 29 0.4957568603688
1 53 29 0.4957665871808
1 54 29 0.4957763143745
1 55 29 0.4957860419499
1 56 29 0.495795769907
1 57 29 0.4958054982459
1 58 29 0.4958152269665
1 59 29 0.495824956069
1 60 29 0.4958346855533
1 61 29 0.4958400806434
1 61 28 0.4958449456346
1 62 28 0.4958541456674
1 63 28 0.4958638762973
1 64 28 0.4958736073092
1 65 28 0.4958833387029
1 66 28 0.2274823063453
1 38
no_chdf19 1 0.0 1.0 1.0e+019 1 1
1 3 54 0.4659921120886
1 3 55 0.4996092431102
1 3 56 0.4996201388592
1 3 57 0.4996301140164
1 4 57 0.4996412041493
1 5 57 0.4996543305594
1 6 57 0.4996674576593
1 7 57 0.4996805854489
1 8 57 0.4996937139284
1 9 57 0.4997068430977
1 10 57 0.499719972957
1 11 57 0.4997331035063
1 12 57 0.4997462347456
1 13 57 0.4997550927839
1 13 56 0.4997616588951
1 14 56 0.4997724992947
1 15 56 0.4997856326045
1 16 56 0.4997987666046
1 17 56 0.499809775888
1 17 57 0.4998196757029
1 17 58 0.4998305914833
1 17 59 0.4998415077405
```

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1 17 60 0.4998524244745
1 17 61 0.4998633416855
1 17 62 0.4998742593733
1 17 63 0.499885177538
1 17 64 0.4998960961797
1 17 65 0.4999070152983
1 17 66 0.499917934894
1 17 67 0.4999259698814
1 18 67 0.4999314300336
1 18 68 0.4999397755166
1 18 69 0.4999506965435
1 18 70 0.4999616180476
1 18 71 0.4999725400288
1 18 72 0.4999834624873
1 18 73 0.499994385423
1 18 74 0.0076250055016
```

```
# MF2K DISCRETIZATION FILE
#
#
# NLAY NROW NCOL NPER TIMEUNITS LENUNITS
6 100 100 1 4 1
0 0 0 0 0 0
INTERNAL 1.0 (free) -1
47.357889655653 47.357889655653 47.357889655653 47.357889655653 47.357889655653
47.357889655653 47.357889655653 47.357889655653 47.357889655653 47.357889655653
47.357889655653 47.357889655653 47.357889655653 47.357889655653 47.357889655653
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47.357889655653 47.357889655653 47.357889655653 47.357889655653 47.357889655653
47.357889655653 47.357889655653 47.357889655653 47.357889655653 47.357889655653
INTERNAL 1.0 (free) -1
57.007683300146 57.007683300146 57.007683300146 57.007683300146 57.007683300146
57.007683300146 57.007683300146 57.007683300146 57.007683300146 57.007683300146
57.007683300146 57.007683300146 57.007683300146 57.007683300146 57.007683300146
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57.007683300145 57.007683300145 57.007683300145 57.007683300145 57.007683300145
57.007683300145 57.007683300145 57.007683300145 57.007683300145 57.007683300145
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/top1" 1 0 10000
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/bot1" 1 0 10000
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/bot2" 1 0 10000
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/bot3" 1 0 10000
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/bot4" 1 0 10000
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/bot5" 1 0 10000
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/bot6" 1 0 10000
1.0 1 1.0 SS
```

```
#           CoverageGUID ObjectType ID X Y Time OBNAME
#GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 2 219899.98547031
328399.37538393 1.0 no_ghbf0
#GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 3 219323.21532894
326636.73976194 1.0 no_ghbf1
#GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 4 219606.20168673
324019.54638495 1.0 no_ghbf2
#GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 5 221825.0 326713.0 1.0
no_ghbf3
4 263 4
1.0 1.0 0
1 79
no_ghbf0 1 0.0 1.0 1.0e+019 1 1
5 18 74 1.0
5 18 73 1.0
5 18 72 1.0
5 18 71 1.0
5 18 70 1.0
5 18 69 1.0
5 18 68 1.0
5 18 67 1.0
5 17 67 1.0
5 17 66 1.0
5 17 65 1.0
5 17 64 1.0
5 17 63 1.0
5 17 62 1.0
5 17 61 1.0
5 17 60 1.0
5 17 59 1.0
5 17 58 1.0
5 17 57 1.0
5 17 56 1.0
5 16 56 1.0
5 15 56 1.0
5 14 56 1.0
5 13 56 1.0
5 13 57 1.0
5 12 57 1.0
5 11 57 1.0
5 10 57 1.0
5 9 57 1.0
5 8 57 1.0
5 7 57 1.0
5 6 57 1.0
5 5 57 1.0
5 4 57 1.0
5 3 57 1.0
5 3 56 1.0
5 3 55 1.0
5 3 54 1.0
5 3 53 1.0
5 3 52 1.0
5 3 51 1.0
5 3 50 1.0
5 3 49 1.0
5 3 48 1.0
5 3 47 1.0
5 3 46 1.0
5 3 45 1.0
5 3 44 1.0
5 3 43 1.0
5 3 42 1.0
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5 3 41 1.0
5 3 40 1.0
5 3 39 1.0
5 3 38 1.0
5 3 37 1.0
5 3 36 1.0
5 3 35 1.0
5 3 34 1.0
5 2 34 1.0
5 2 33 1.0
5 2 32 1.0
5 2 31 1.0
5 2 30 1.0
5 2 29 1.0
5 2 28 1.0
5 2 27 1.0
5 2 26 1.0
5 2 25 1.0
5 2 24 1.0
5 2 23 1.0
5 2 22 1.0
5 2 21 1.0
5 2 20 1.0
5 2 19 1.0
5 2 18 1.0
5 2 17 1.0
5 2 16 1.0
5 2 15 1.0
5 2 14 1.0
1 83
no_ghbf1 1 0.0 1.0 1.0e+019 1 1
5 66 28 1.0
5 65 28 1.0
5 64 28 1.0
5 63 28 1.0
5 62 28 1.0
5 61 28 1.0
5 61 29 1.0
5 60 29 1.0
5 59 29 1.0
5 58 29 1.0
5 57 29 1.0
5 56 29 1.0
5 55 29 1.0
5 54 29 1.0
5 53 29 1.0
5 52 29 1.0
5 51 29 1.0
5 50 29 1.0
5 49 29 1.0
5 48 29 1.0
5 47 29 1.0
5 46 29 1.0
5 45 29 1.0
5 45 30 1.0
5 44 30 1.0
5 43 30 1.0
5 42 30 1.0
5 41 30 1.0
5 40 30 1.0
5 39 30 1.0
5 38 30 1.0
5 37 30 1.0
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5 36 30 1.0
5 35 30 1.0
5 34 30 1.0
5 33 30 1.0
5 32 30 1.0
5 31 30 1.0
5 30 30 1.0
5 29 30 1.0
5 29 29 1.0
5 28 29 1.0
5 27 29 1.0
5 27 28 1.0
5 26 28 1.0
5 26 27 1.0
5 25 27 1.0
5 24 27 1.0
5 24 26 1.0
5 23 26 1.0
5 22 26 1.0
5 22 25 1.0
5 21 25 1.0
5 20 25 1.0
5 20 24 1.0
5 19 24 1.0
5 18 24 1.0
5 18 23 1.0
5 17 23 1.0
5 17 22 1.0
5 16 22 1.0
5 15 22 1.0
5 15 21 1.0
5 14 21 1.0
5 13 21 1.0
5 13 20 1.0
5 12 20 1.0
5 11 20 1.0
5 11 19 1.0
5 10 19 1.0
5 9 19 1.0
5 9 18 1.0
5 8 18 1.0
5 8 17 1.0
5 7 17 1.0
5 6 17 1.0
5 6 16 1.0
5 5 16 1.0
5 4 16 1.0
5 4 15 1.0
5 3 15 1.0
5 2 15 1.0
5 2 14 1.0
1 52
no_ghbf2 1 0.0 1.0 1.0e+019 1 1
5 97 46 1.0
5 97 45 1.0
5 96 45 1.0
5 96 44 1.0
5 95 44 1.0
5 95 43 1.0
5 94 43 1.0
5 94 42 1.0
5 93 42 1.0
5 93 41 1.0
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5 92 41 1.0
5 92 40 1.0
5 91 40 1.0
5 91 39 1.0
5 90 39 1.0
5 90 38 1.0
5 89 38 1.0
5 89 37 1.0
5 88 37 1.0
5 88 36 1.0
5 87 36 1.0
5 86 36 1.0
5 85 36 1.0
5 84 36 1.0
5 83 36 1.0
5 82 36 1.0
5 81 36 1.0
5 80 36 1.0
5 79 36 1.0
5 78 36 1.0
5 77 36 1.0
5 76 36 1.0
5 75 36 1.0
5 74 36 1.0
5 73 36 1.0
5 72 36 1.0
5 72 37 1.0
5 71 37 1.0
5 70 37 1.0
5 69 37 1.0
5 68 37 1.0
5 67 37 1.0
5 66 37 1.0
5 66 36 1.0
5 66 35 1.0
5 66 34 1.0
5 66 33 1.0
5 66 32 1.0
5 66 31 1.0
5 66 30 1.0
5 66 29 1.0
5 66 28 1.0
1 49
no_ghbf3 1 0.0 1.0 1.0e+019 1 1
5 47 93 1.0
5 47 92 1.0
5 46 92 1.0
5 45 92 1.0
5 45 91 1.0
5 44 91 1.0
5 44 90 1.0
5 43 90 1.0
5 42 90 1.0
5 42 89 1.0
5 41 89 1.0
5 41 88 1.0
5 40 88 1.0
5 39 88 1.0
5 39 87 1.0
5 38 87 1.0
5 38 86 1.0
5 37 86 1.0
5 36 86 1.0
```

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5 36 85 1.0
5 35 85 1.0
5 35 84 1.0
5 34 84 1.0
5 33 84 1.0
5 33 83 1.0
5 32 83 1.0
5 32 82 1.0
5 31 82 1.0
5 30 82 1.0
5 30 81 1.0
5 29 81 1.0
5 29 80 1.0
5 28 80 1.0
5 27 80 1.0
5 27 79 1.0
5 26 79 1.0
5 25 79 1.0
5 25 78 1.0
5 24 78 1.0
5 24 77 1.0
5 23 77 1.0
5 22 77 1.0
5 22 76 1.0
5 21 76 1.0
5 21 75 1.0
5 20 75 1.0
5 19 75 1.0
5 19 74 1.0
5 18 74 1.0
```

```
#GMS_HDF5_01
263 40 AUX IFACE AUX CONDFACT AUX CELLGRP
       263          0         0
GMS_HDF5_01 "DRAIN_MEDK.h5" "General Head" 1
```

```
                              DRAIN_MEDK.glo
                             MODFLOW-2000
      U.S. GEOLOGICAL SURVEY MODULAR FINITE-DIFFERENCE GROUND-WATER FLOW MODEL
                       VERSION 1.18.01 06/20/2008


 This model run produced both GLOBAL and LIST files.  This is the GLOBAL file.

 GLOBAL LISTING FILE: "DRAIN_MEDK.glo"
                        UNIT    1

 OPENING "DRAIN_MEDK.out"
 FILE TYPE:LIST   UNIT    2   STATUS:REPLACE
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_MEDK.hed"
 FILE TYPE:DATA(BINARY)   UNIT   30   STATUS:UNKNOWN
 FORMAT:BINARY                 ACCESS:SEQUENTIAL

 OPENING "DRAIN_MEDK.ccf"
 FILE TYPE:DATA(BINARY)   UNIT   40   STATUS:UNKNOWN
 FORMAT:BINARY                 ACCESS:SEQUENTIAL

 OPENING "DRAIN_MEDK.lmt"
 FILE TYPE:LMT6   UNIT   18   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL
#


# Obs-Sen-Pes Process Input Files



 OPENING "DRAIN_MEDK.obs"
 FILE TYPE:OBS   UNIT   50   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_MEDK.hob"
 FILE TYPE:HOB   UNIT   51   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_MEDK.gbob"
 FILE TYPE:GBOB   UNIT   53   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_MEDK.drob"
 FILE TYPE:DROB   UNIT   54   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_MEDK.chob"
 FILE TYPE:CHOB   UNIT   55   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_MEDK.t_snn"
 FILE TYPE:SEN   UNIT   57   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_MEDK.pes"
 FILE TYPE:PES   UNIT   58   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 FILE TYPE:ASP: FILE = DRAIN_MEDK.asp
#
```

```
# Global Input Files



 OPENING "DRAIN_MEDK.dis"
 FILE TYPE:DIS   UNIT   19   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL
#


# Flow Process Input Files



 OPENING "DRAIN_MEDK.ba6"
 FILE TYPE:BAS6   UNIT    3   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_MEDK.lpf"
 FILE TYPE:LPF   UNIT    4   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_MEDK.oc"
 FILE TYPE:OC   UNIT   15   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_MEDK.rch"
 FILE TYPE:RCH   UNIT   16   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_MEDK.hfb"
 FILE TYPE:HFB6   UNIT    7   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_MEDK.wel"
 FILE TYPE:WEL   UNIT    9   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_MEDK.drn"
 FILE TYPE:DRN   UNIT   10   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_MEDK.ghb"
 FILE TYPE:GHB   UNIT   11   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_MEDK.evt"
 FILE TYPE:EVT   UNIT   12   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_MEDK.chd"
 FILE TYPE:CHD   UNIT   13   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "DRAIN_MEDK.pcg"
 FILE TYPE:PCG   UNIT   14   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 THE FREE FORMAT OPTION HAS BEEN SELECTED

 DISCRETIZATION INPUT DATA READ FROM UNIT   19
 # MF2K DISCRETIZATION FILE
```

```
#
#
# NLAY NROW NCOL NPER TIMEUNITS LENUNITS
   6 LAYERS       100 ROWS       100 COLUMNS
   1 STRESS PERIOD(S) IN SIMULATION
MODEL TIME UNIT IS DAYS
MODEL LENGTH UNIT IS FEET
THE GROUND-WATER TRANSPORT PROCESS IS INACTIVE

THE OBSERVATION PROCESS IS ACTIVE
THE SENSITIVITY PROCESS IS ACTIVE, BUT ISENALL < 0
THE PARAMETER-ESTIMATION PROCESS IS ACTIVE

MODE: FORWARD WITH OBSERVATIONS AND PARAMETER-VALUE SUBSTITUTION

 Confining bed flag for each layer:
  0   0   0   0   0   0

    540200  ELEMENTS OF GX ARRAY USED OUT OF     540200
     60000  ELEMENTS OF GZ ARRAY USED OUT OF      60000
     60000  ELEMENTS OF IG ARRAY USED OUT OF      60000

-------------------------------------------------------------------------------

VARIABLES READ FROM ASP INPUT FILE:-

NOSTOP = 1          : DO NOT CEASE EXECUTION IF MODFLOW FAILS TO CONVERGE.
HYDRYBOT = 0        : ASSIGN HDRY TO HEAD IN DRY CELL.
MINTHICK =     0.000: DO NOT PREVENT BASAL CELLS DRYING OUT.
LIMOP = 0           : NO LIMITATIONS ON OBSERVATION OR SENSITIVITY OUTPUT.

-------------------------------------------------------------------------------



                              DELR
READING ON UNIT   19 WITH FORMAT: (FREE)


                              DELC
READING ON UNIT   19 WITH FORMAT: (FREE)


STRESS PERIOD     LENGTH       TIME STEPS     MULTIPLIER FOR DELT    SS FLAG
----------------------------------------------------------------------------
       1        1.000000          1                   1.000         SS

STEADY-STATE SIMULATION



LPF1 -- LAYER PROPERTY FLOW PACKAGE, VERSION 1, 1/11/2000
        INPUT READ FROM UNIT    4
CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT   40
HEAD AT CELLS THAT CONVERT TO DRY=  -888.00
No named parameters

  LAYER FLAGS:
LAYER       LAYTYP        LAYAVG         CHANI        LAYVKA        LAYWET
---------------------------------------------------------------------------
```

```
      1             1             0    -1.000E+00            1             1
      2             0             0    -1.000E+00            1             0
      3             0             0    -1.000E+00            1             0
      4             0             0    -1.000E+00            1             0
      5             0             0    -1.000E+00            1             0
      6             0             0    -1.000E+00            1             0

   INTERPRETATION OF LAYER FLAGS:
                        INTERBLOCK     HORIZONTAL    DATA IN
         LAYER TYPE   TRANSMISSIVITY   ANISOTROPY   ARRAY VKA   WETTABILITY
 LAYER      (LAYTYP)      (LAYAVG)       (CHANI)      (LAYVKA)       (LAYWET)
 ---------------------------------------------------------------------------
    1   CONVERTIBLE      HARMONIC      VARIABLE    ANISOTROPY      WETTABLE
    2      CONFINED      HARMONIC      VARIABLE    ANISOTROPY  NON-WETTABLE
    3      CONFINED      HARMONIC      VARIABLE    ANISOTROPY  NON-WETTABLE
    4      CONFINED      HARMONIC      VARIABLE    ANISOTROPY  NON-WETTABLE
    5      CONFINED      HARMONIC      VARIABLE    ANISOTROPY  NON-WETTABLE
    6      CONFINED      HARMONIC      VARIABLE    ANISOTROPY  NON-WETTABLE

     240000 ELEMENTS IN X ARRAY ARE USED BY LPF
         36 ELEMENTS IN IX ARRAY ARE USED BY LPF

 PCG2 -- CONJUGATE GRADIENT SOLUTION PACKAGE, VERSION 2.4, 12/29/98
 MAXIMUM OF     25 CALLS OF SOLUTION ROUTINE
 MAXIMUM OF     50 INTERNAL ITERATIONS PER CALL TO SOLUTION ROUTINE
 MATRIX PRECONDITIONING TYPE :    1
     122500 ELEMENTS IN X ARRAY ARE USED BY PCG
       8750 ELEMENTS IN IX ARRAY ARE USED BY PCG
     240000 ELEMENTS IN Z ARRAY ARE USED BY PCG

 SEN1BAS6 -- SENSITIVITY PROCESS, VERSION 1.0, 10/15/98
 INPUT READ FROM UNIT   57

 NUMBER OF PARAMETER VALUES TO BE READ FROM SEN FILE:    3
 ISENALL.........................................:   -1
 SENSITIVITY PROCESS HAS BEEN DEACTIVATED BECAUSE ISENALL<0
 PARAMETER-ESTIMATION PROCESS HAS BEEN DEACTIVATED BECAUSE ISENALL<0

      60022 ELEMENTS IN X ARRAY ARE USED FOR SENSITIVITIES
      60000 ELEMENTS IN Z ARRAY ARE USED FOR SENSITIVITIES
          6 ELEMENTS IN IX ARRAY ARE USED FOR SENSITIVITIES

 OBS1BAS6 -- OBSERVATION PROCESS, VERSION 1.0, 4/27/99
 INPUT READ FROM UNIT  50
 OBSERVATION GRAPH-DATA OUTPUT FILES
 WILL BE PRINTED AND NAMED USING THE BASE: DRAIN_MEDK

 HEAD OBSERVATIONS -- INPUT READ FROM UNIT  51
 #            CoverageGUID ObjectType ID X Y Time OBNAME
 #GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5774, 221327.2, 326728.0
ts_0 hed1
 #GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5775, 219776.0, 326790.0
ts_0 hed2
 #GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5776, 220131.0, 325400.6
ts_0 hed3
 #GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5777, 220779.0, 324851.0
ts_0 hed4
 #GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5778, 219770.0, 325299.0
ts_0 hed5
 #GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5779, 220383.0, 323927.0
ts_0 hed6
 #GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5780, 220522.0, 325981.0
ts_0 hed7
```

```
 NUMBER OF HEADS....................................:    7
   NUMBER OF MULTILAYER HEADS.......................:    0
   MAXIMUM NUMBER OF LAYERS FOR MULTILAYER HEADS....:    6

 OBS1DRN6 -- OBSERVATION PROCESS (DRAIN FLOW OBSERVATIONS)
 VERSION 1.0, 10/15/98
 INPUT READ FROM UNIT   54
 #           CoverageGUID ObjectType ID X Y Time OBNAME
 #GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 1 221620.32472546
324401.08427563 1.0 no_drnf0

 NUMBER OF FLOW-OBSERVATION DRAIN-CELL GROUPS.....:      1
   NUMBER OF CELLS IN DRAIN-CELL GROUPS...........:    432
   NUMBER OF DRAIN-CELL FLOWS.....................:      1

 OBS1GHB6 -- OBSERVATION PROCESS (GENERAL HEAD BOUNDARY FLOW OBSERVATIONS)
 VERSION 1.0, 10/15/98
 INPUT READ FROM UNIT   53
 #           CoverageGUID ObjectType ID X Y Time OBNAME
 #GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 2 219899.98547031
328399.37538393 1.0 no_ghbf0
 #GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 3 219323.21532894
326636.73976194 1.0 no_ghbf1
 #GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 4 219606.20168673
324019.54638495 1.0 no_ghbf2
 #GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 5 221825.0 326713.0 1.0
no_ghbf3

 NUMBER OF FLOW-OBSERVATION GENERAL-HEAD-CELL GROUPS:      4
   NUMBER OF CELLS IN GENERAL-HEAD-CELL GROUPS......:    263
   NUMBER OF GENERAL-HEAD-CELL FLOWS................:      4

 OBS1BAS6F -- OBSERVATION PROCESS (CONSTANT-HEAD BOUNDARY FLOW OBSERVATIONS)
 VERSION 1.0, 12/03/99
 INPUT READ FROM UNIT  55
 #           CoverageGUID ObjectType ID X Y Time OBNAME
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 1 221706.7893717
324591.94949304 1.0 no_chdf0
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 11 219594.16804226
323688.6211621 1.0 no_chdf1
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 12 220080.0 323316.0 1.0
no_chdf2
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 2 219501.18238633
328416.68044872 1.0 no_chdf3
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 3 218869.23003934
327810.9157566 1.0 no_chdf4
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 4 219829.5 323290.0 1.0
no_chdf5
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 5 221825.0 326713.0 1.0
no_chdf6
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 6 219619.23539641
324377.97340138 1.0 no_chdf7
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 8 219282.05029394
325848.27101463 1.0 no_chdf8
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 9 220581.52416746
327592.41058298 1.0 no_chdf9
 #GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 1 221706.7893717
324591.94949304 1.0 no_chdf10
 #GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 11 219594.16804226
323688.6211621 1.0 no_chdf11
 #GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 12 220080.0 323316.0 1.0
no_chdf12
```

```
 #GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 2 219501.18238633
328416.68044872 1.0 no_chdf13
 #GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 3 218869.23003934
327810.9157566 1.0 no_chdf14
 #GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 4 219829.5 323290.0 1.0
no_chdf15
 #GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 5 221825.0 326713.0 1.0
no_chdf16
 #GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 6 219619.23539641
324377.97340138 1.0 no_chdf17
 #GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 8 219282.05029394
325848.27101463 1.0 no_chdf18
 #GMSCOMMENT b0ab6fc4-3c71-420b-b189-b1e94b402a70 ARC 9 220581.52416746
327592.41058298 1.0 no_chdf19

 NUMBER OF FLOW-OBSERVATION CONSTANT-HEAD-CELL GROUPS:   20
   NUMBER OF CELLS IN CONSTANT-HEAD-CELL GROUPS......:  752
   NUMBER OF CONSTANT-HEAD-CELL FLOWS................:   20

       9178 ELEMENTS IN X ARRAY ARE USED FOR OBSERVATIONS
        702 ELEMENTS IN Z ARRAY ARE USED FOR OBSERVATIONS
        273 ELEMENTS IN IX ARRAY ARE USED FOR OBSERVATIONS

 COMMON ERROR VARIANCE FOR ALL OBSERVATIONS SET TO:       1.000

     431700  ELEMENTS OF X ARRAY USED OUT OF     431700
     300702  ELEMENTS OF Z ARRAY USED OUT OF     300702
       9065  ELEMENTS OF IX ARRAY USED OUT OF       9065
          0  ELEMENTS OF XHS ARRAY USED OUT OF         1

 INFORMATION ON PARAMETERS LISTED IN SEN FILE
                                              LOWER         UPPER       ALTERNATE
                               VALUE IN SEN   REASONABLE    REASONABLE    SCALING
    NAME      ISENS  LN    INPUT FILE      LIMIT         LIMIT         FACTOR
 ----------   -----  --   ------------  ------------  ------------  ------------
 HK_800         1     0     20.000       0.10000E-02    20.000        1.0000
 GHB_300        1     0     1000.0       0.10000E-02    1000.0        1.0000
 GHB_400        1     0     1000.0       0.10000E-02    1000.0        1.0000
 ----------------------------------------------------------------------------
 FOR THE PARAMETERS LISTED IN THE TABLE ABOVE, PARAMETER VALUES IN INDIVIDUAL
 PACKAGE INPUT FILES ARE REPLACED BY THE VALUES FROM THE SEN INPUT FILE.  THE
 ALTERNATE SCALING FACTOR IS USED TO SCALE SENSITIVITIES IF IT IS LARGER THAN
 THE PARAMETER VALUE IN ABSOLUTE VALUE AND THE PARAMETER IS NOT LOG-TRANSFORMED.

 BECAUSE ISENALL < 0, ALL ISENS ARE SET TO 0

 HEAD OBSERVATION VARIANCES ARE MULTIPLIED BY:       1.000

 OBSERVED HEAD DATA -- TIME OFFSETS ARE MULTIPLIED BY:   1.0000

                         REFER.
       OBSERVATION     STRESS     TIME                                      STATISTIC    PLOT
  OBS#    NAME         PERIOD    OFFSET    OBSERVATION   STATISTIC       TYPE       SYM.
    1 hed1                1      0.000       3690.        1.531        STD. DEV.      1
    2 hed2                1      0.000       3698.        1.531        STD. DEV.      1
    3 hed3                1      0.000       3697.        1.531        STD. DEV.      1
    4 hed4                1      0.000       3701.        1.531        STD. DEV.      1
    5 hed5                1      0.000       3706.        1.531        STD. DEV.      1
    6 hed6                1      0.000       3703.        1.531        STD. DEV.      1
    7 hed7                1      0.000       3605.        1.531        STD. DEV.      1

                                                      HEAD CHANGE
                                                       REFERENCE
```

OBS#	OBSERVATION NAME	LAY	ROW	COL	ROW OFFSET	COL OFFSET	OBSERVATION (IF > 0)
1	hed1	5	32	73	0.135	-0.495	0
2	hed2	5	31	40	0.047	-0.250	0
3	hed3	5	55	47	0.419	0.246	0
4	hed4	5	65	61	0.060	-0.071	0
5	hed5	5	57	40	0.202	-0.377	0
6	hed6	5	81	53	0.268	-0.433	0
7	hed7	5	45	56	0.238	-0.498	0

DRAIN-CELL FLOW OBSERVATION VARIANCES ARE MULTIPLIED BY: 1.000

OBSERVED DRAIN-CELL FLOW DATA
-- TIME OFFSETS ARE MULTIPLIED BY: 1.0000

GROUP NUMBER: 1 BOUNDARY TYPE: DRN NUMBER OF CELLS IN GROUP: 432
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED DRAIN FLOW GAIN (-)	STATISTIC	STATISTIC TYPE	PLOT SYM.
8	no_drnf0	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
2.	97.	46.	1.00
3.	97.	46.	1.00
4.	97.	46.	1.00
5.	97.	46.	1.00
2.	96.	46.	1.00
3.	96.	46.	1.00
4.	96.	46.	1.00
5.	96.	46.	1.00
2.	95.	46.	1.00
3.	95.	46.	1.00
4.	95.	46.	1.00
5.	95.	46.	1.00
2.	94.	46.	1.00
3.	94.	46.	1.00
4.	94.	46.	1.00
5.	94.	46.	1.00
2.	93.	46.	1.00
3.	93.	46.	1.00
4.	93.	46.	1.00
5.	93.	46.	1.00
2.	92.	46.	1.00
3.	92.	46.	1.00
4.	92.	46.	1.00
5.	92.	46.	1.00
2.	91.	46.	1.00
3.	91.	46.	1.00
4.	91.	46.	1.00
5.	91.	46.	1.00
2.	90.	46.	1.00
3.	90.	46.	1.00
4.	90.	46.	1.00
5.	90.	46.	1.00
2.	89.	46.	1.00
3.	89.	46.	1.00
4.	89.	46.	1.00
5.	89.	46.	1.00
2.	88.	46.	1.00
3.	88.	46.	1.00
4.	88.	46.	1.00

5.	88.	46.	1.00
2.	87.	46.	1.00
3.	87.	46.	1.00
4.	87.	46.	1.00
5.	87.	46.	1.00
2.	87.	47.	1.00
3.	87.	47.	1.00
4.	87.	47.	1.00
5.	87.	47.	1.00
2.	86.	47.	1.00
3.	86.	47.	1.00
4.	86.	47.	1.00
5.	86.	47.	1.00
2.	86.	48.	1.00
3.	86.	48.	1.00
4.	86.	48.	1.00
5.	86.	48.	1.00
2.	86.	49.	1.00
3.	86.	49.	1.00
4.	86.	49.	1.00
5.	86.	49.	1.00
2.	86.	50.	1.00
3.	86.	50.	1.00
4.	86.	50.	1.00
5.	86.	50.	1.00
2.	86.	51.	1.00
3.	86.	51.	1.00
4.	86.	51.	1.00
5.	86.	51.	1.00
2.	85.	51.	1.00
3.	85.	51.	1.00
4.	85.	51.	1.00
5.	85.	51.	1.00
2.	85.	52.	1.00
3.	85.	52.	1.00
4.	85.	52.	1.00
5.	85.	52.	1.00
2.	85.	53.	1.00
3.	85.	53.	1.00
4.	85.	53.	1.00
5.	85.	53.	1.00
2.	85.	54.	1.00
3.	85.	54.	1.00
4.	85.	54.	1.00
5.	85.	54.	1.00
2.	85.	55.	1.00
3.	85.	55.	1.00
4.	85.	55.	1.00
5.	85.	55.	1.00
2.	84.	55.	1.00
3.	84.	55.	1.00
4.	84.	55.	1.00
5.	84.	55.	1.00
2.	84.	56.	1.00
3.	84.	56.	1.00
4.	84.	56.	1.00
5.	84.	56.	1.00
2.	84.	57.	1.00
3.	84.	57.	1.00
4.	84.	57.	1.00
5.	84.	57.	1.00
2.	83.	57.	1.00
3.	83.	57.	1.00

4.	83.	57.	1.00
5.	83.	57.	1.00
2.	83.	58.	1.00
3.	83.	58.	1.00
4.	83.	58.	1.00
5.	83.	58.	1.00
2.	82.	58.	1.00
3.	82.	58.	1.00
4.	82.	58.	1.00
5.	82.	58.	1.00
2.	81.	58.	1.00
3.	81.	58.	1.00
4.	81.	58.	1.00
5.	81.	58.	1.00
2.	81.	59.	1.00
3.	81.	59.	1.00
4.	81.	59.	1.00
5.	81.	59.	1.00
2.	80.	59.	1.00
3.	80.	59.	1.00
4.	80.	59.	1.00
5.	80.	59.	1.00
2.	79.	59.	1.00
3.	79.	59.	1.00
4.	79.	59.	1.00
5.	79.	59.	1.00
2.	78.	59.	1.00
3.	78.	59.	1.00
4.	78.	59.	1.00
5.	78.	59.	1.00
2.	78.	60.	1.00
3.	78.	60.	1.00
4.	78.	60.	1.00
5.	78.	60.	1.00
2.	77.	60.	1.00
3.	77.	60.	1.00
4.	77.	60.	1.00
5.	77.	60.	1.00
2.	76.	60.	1.00
3.	76.	60.	1.00
4.	76.	60.	1.00
5.	76.	60.	1.00
2.	76.	61.	1.00
3.	76.	61.	1.00
4.	76.	61.	1.00
5.	76.	61.	1.00
2.	75.	61.	1.00
3.	75.	61.	1.00
4.	75.	61.	1.00
5.	75.	61.	1.00
2.	74.	61.	1.00
3.	74.	61.	1.00
4.	74.	61.	1.00
5.	74.	61.	1.00
2.	73.	61.	1.00
3.	73.	61.	1.00
4.	73.	61.	1.00
5.	73.	61.	1.00
2.	73.	62.	1.00
3.	73.	62.	1.00
4.	73.	62.	1.00
5.	73.	62.	1.00
2.	72.	62.	1.00

3.	72.	62.	1.00
4.	72.	62.	1.00
5.	72.	62.	1.00
2.	72.	63.	1.00
3.	72.	63.	1.00
4.	72.	63.	1.00
5.	72.	63.	1.00
2.	72.	64.	1.00
3.	72.	64.	1.00
4.	72.	64.	1.00
5.	72.	64.	1.00
2.	73.	64.	1.00
3.	73.	64.	1.00
4.	73.	64.	1.00
5.	73.	64.	1.00
2.	73.	65.	1.00
3.	73.	65.	1.00
4.	73.	65.	1.00
5.	73.	65.	1.00
2.	74.	65.	1.00
3.	74.	65.	1.00
4.	74.	65.	1.00
5.	74.	65.	1.00
2.	75.	65.	1.00
3.	75.	65.	1.00
4.	75.	65.	1.00
5.	75.	65.	1.00
2.	75.	66.	1.00
3.	75.	66.	1.00
4.	75.	66.	1.00
5.	75.	66.	1.00
2.	76.	66.	1.00
3.	76.	66.	1.00
4.	76.	66.	1.00
5.	76.	66.	1.00
2.	76.	67.	1.00
3.	76.	67.	1.00
4.	76.	67.	1.00
5.	76.	67.	1.00
2.	77.	67.	1.00
3.	77.	67.	1.00
4.	77.	67.	1.00
5.	77.	67.	1.00
2.	77.	68.	1.00
3.	77.	68.	1.00
4.	77.	68.	1.00
5.	77.	68.	1.00
2.	77.	69.	1.00
3.	77.	69.	1.00
4.	77.	69.	1.00
5.	77.	69.	1.00
2.	77.	70.	1.00
3.	77.	70.	1.00
4.	77.	70.	1.00
5.	77.	70.	1.00
2.	77.	71.	1.00
3.	77.	71.	1.00
4.	77.	71.	1.00
5.	77.	71.	1.00
2.	76.	71.	1.00
3.	76.	71.	1.00
4.	76.	71.	1.00
5.	76.	71.	1.00

2.	76.	72.	1.00
3.	76.	72.	1.00
4.	76.	72.	1.00
5.	76.	72.	1.00
2.	76.	73.	1.00
3.	76.	73.	1.00
4.	76.	73.	1.00
5.	76.	73.	1.00
2.	75.	73.	1.00
3.	75.	73.	1.00
4.	75.	73.	1.00
5.	75.	73.	1.00
2.	75.	74.	1.00
3.	75.	74.	1.00
4.	75.	74.	1.00
5.	75.	74.	1.00
2.	75.	75.	1.00
3.	75.	75.	1.00
4.	75.	75.	1.00
5.	75.	75.	1.00
2.	74.	75.	1.00
3.	74.	75.	1.00
4.	74.	75.	1.00
5.	74.	75.	1.00
2.	74.	76.	1.00
3.	74.	76.	1.00
4.	74.	76.	1.00
5.	74.	76.	1.00
2.	74.	77.	1.00
3.	74.	77.	1.00
4.	74.	77.	1.00
5.	74.	77.	1.00
2.	74.	78.	1.00
3.	74.	78.	1.00
4.	74.	78.	1.00
5.	74.	78.	1.00
2.	73.	78.	1.00
3.	73.	78.	1.00
4.	73.	78.	1.00
5.	73.	78.	1.00
2.	73.	79.	1.00
3.	73.	79.	1.00
4.	73.	79.	1.00
5.	73.	79.	1.00
2.	73.	80.	1.00
3.	73.	80.	1.00
4.	73.	80.	1.00
5.	73.	80.	1.00
2.	72.	80.	1.00
3.	72.	80.	1.00
4.	72.	80.	1.00
5.	72.	80.	1.00
2.	71.	80.	1.00
3.	71.	80.	1.00
4.	71.	80.	1.00
5.	71.	80.	1.00
2.	70.	80.	1.00
3.	70.	80.	1.00
4.	70.	80.	1.00
5.	70.	80.	1.00
2.	70.	81.	1.00
3.	70.	81.	1.00
4.	70.	81.	1.00

5.	70.	81.	1.00
2.	69.	81.	1.00
3.	69.	81.	1.00
4.	69.	81.	1.00
5.	69.	81.	1.00
2.	68.	81.	1.00
3.	68.	81.	1.00
4.	68.	81.	1.00
5.	68.	81.	1.00
2.	67.	81.	1.00
3.	67.	81.	1.00
4.	67.	81.	1.00
5.	67.	81.	1.00
2.	66.	81.	1.00
3.	66.	81.	1.00
4.	66.	81.	1.00
5.	66.	81.	1.00
2.	65.	81.	1.00
3.	65.	81.	1.00
4.	65.	81.	1.00
5.	65.	81.	1.00
2.	64.	81.	1.00
3.	64.	81.	1.00
4.	64.	81.	1.00
5.	64.	81.	1.00
2.	63.	81.	1.00
3.	63.	81.	1.00
4.	63.	81.	1.00
5.	63.	81.	1.00
2.	62.	81.	1.00
3.	62.	81.	1.00
4.	62.	81.	1.00
5.	62.	81.	1.00
2.	61.	81.	1.00
3.	61.	81.	1.00
4.	61.	81.	1.00
5.	61.	81.	1.00
2.	60.	81.	1.00
3.	60.	81.	1.00
4.	60.	81.	1.00
5.	60.	81.	1.00
2.	59.	81.	1.00
3.	59.	81.	1.00
4.	59.	81.	1.00
5.	59.	81.	1.00
2.	58.	81.	1.00
3.	58.	81.	1.00
4.	58.	81.	1.00
5.	58.	81.	1.00
2.	57.	81.	1.00
3.	57.	81.	1.00
4.	57.	81.	1.00
5.	57.	81.	1.00
2.	56.	81.	1.00
3.	56.	81.	1.00
4.	56.	81.	1.00
5.	56.	81.	1.00
2.	55.	81.	1.00
3.	55.	81.	1.00
4.	55.	81.	1.00
5.	55.	81.	1.00
2.	55.	82.	1.00
3.	55.	82.	1.00

4.	55.	82.	1.00
5.	55.	82.	1.00
2.	54.	82.	1.00
3.	54.	82.	1.00
4.	54.	82.	1.00
5.	54.	82.	1.00
2.	54.	83.	1.00
3.	54.	83.	1.00
4.	54.	83.	1.00
5.	54.	83.	1.00
2.	53.	83.	1.00
3.	53.	83.	1.00
4.	53.	83.	1.00
5.	53.	83.	1.00
2.	53.	84.	1.00
3.	53.	84.	1.00
4.	53.	84.	1.00
5.	53.	84.	1.00
2.	53.	85.	1.00
3.	53.	85.	1.00
4.	53.	85.	1.00
5.	53.	85.	1.00
2.	52.	85.	1.00
3.	52.	85.	1.00
4.	52.	85.	1.00
5.	52.	85.	1.00
2.	52.	86.	1.00
3.	52.	86.	1.00
4.	52.	86.	1.00
5.	52.	86.	1.00
2.	51.	86.	1.00
3.	51.	86.	1.00
4.	51.	86.	1.00
5.	51.	86.	1.00
2.	51.	87.	1.00
3.	51.	87.	1.00
4.	51.	87.	1.00
5.	51.	87.	1.00
2.	51.	88.	1.00
3.	51.	88.	1.00
4.	51.	88.	1.00
5.	51.	88.	1.00
2.	50.	88.	1.00
3.	50.	88.	1.00
4.	50.	88.	1.00
5.	50.	88.	1.00
2.	50.	89.	1.00
3.	50.	89.	1.00
4.	50.	89.	1.00
5.	50.	89.	1.00
2.	49.	89.	1.00
3.	49.	89.	1.00
4.	49.	89.	1.00
5.	49.	89.	1.00
2.	49.	90.	1.00
3.	49.	90.	1.00
4.	49.	90.	1.00
5.	49.	90.	1.00
2.	48.	90.	1.00
3.	48.	90.	1.00
4.	48.	90.	1.00
5.	48.	90.	1.00
2.	48.	91.	1.00

3.	48.	91.	1.00
4.	48.	91.	1.00
5.	48.	91.	1.00
2.	48.	92.	1.00
3.	48.	92.	1.00
4.	48.	92.	1.00
5.	48.	92.	1.00
2.	47.	92.	1.00
3.	47.	92.	1.00
4.	47.	92.	1.00
5.	47.	92.	1.00
2.	47.	93.	1.00
3.	47.	93.	1.00
4.	47.	93.	1.00
5.	47.	93.	1.00

GENERAL-HEAD-CELL FLOW OBSERVATION VARIANCES ARE MULTIPLIED BY: 1.000

OBSERVED GENERAL-HEAD-CELL FLOW DATA
-- TIME OFFSETS ARE MULTIPLIED BY: 1.0000

GROUP NUMBER: 2 BOUNDARY TYPE: GHB NUMBER OF CELLS IN GROUP: 79
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
9	no_ghbf0	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
5.	18.	74.	1.00
5.	18.	73.	1.00
5.	18.	72.	1.00
5.	18.	71.	1.00
5.	18.	70.	1.00
5.	18.	69.	1.00
5.	18.	68.	1.00
5.	18.	67.	1.00
5.	17.	67.	1.00
5.	17.	66.	1.00
5.	17.	65.	1.00
5.	17.	64.	1.00
5.	17.	63.	1.00
5.	17.	62.	1.00
5.	17.	61.	1.00
5.	17.	60.	1.00
5.	17.	59.	1.00
5.	17.	58.	1.00
5.	17.	57.	1.00
5.	17.	56.	1.00
5.	16.	56.	1.00
5.	15.	56.	1.00
5.	14.	56.	1.00
5.	13.	56.	1.00
5.	13.	57.	1.00
5.	12.	57.	1.00
5.	11.	57.	1.00
5.	10.	57.	1.00
5.	9.	57.	1.00
5.	8.	57.	1.00
5.	7.	57.	1.00
5.	6.	57.	1.00

5.	5.	57.	1.00
5.	4.	57.	1.00
5.	3.	57.	1.00
5.	3.	56.	1.00
5.	3.	55.	1.00
5.	3.	54.	1.00
5.	3.	53.	1.00
5.	3.	52.	1.00
5.	3.	51.	1.00
5.	3.	50.	1.00
5.	3.	49.	1.00
5.	3.	48.	1.00
5.	3.	47.	1.00
5.	3.	46.	1.00
5.	3.	45.	1.00
5.	3.	44.	1.00
5.	3.	43.	1.00
5.	3.	42.	1.00
5.	3.	41.	1.00
5.	3.	40.	1.00
5.	3.	39.	1.00
5.	3.	38.	1.00
5.	3.	37.	1.00
5.	3.	36.	1.00
5.	3.	35.	1.00
5.	3.	34.	1.00
5.	2.	34.	1.00
5.	2.	33.	1.00
5.	2.	32.	1.00
5.	2.	31.	1.00
5.	2.	30.	1.00
5.	2.	29.	1.00
5.	2.	28.	1.00
5.	2.	27.	1.00
5.	2.	26.	1.00
5.	2.	25.	1.00
5.	2.	24.	1.00
5.	2.	23.	1.00
5.	2.	22.	1.00
5.	2.	21.	1.00
5.	2.	20.	1.00
5.	2.	19.	1.00
5.	2.	18.	1.00
5.	2.	17.	1.00
5.	2.	16.	1.00
5.	2.	15.	1.00
5.	2.	14.	1.00

GROUP NUMBER: 3 BOUNDARY TYPE: GHB NUMBER OF CELLS IN GROUP: 83
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
10	no_ghbf1	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
5.	66.	28.	1.00
5.	65.	28.	1.00
5.	64.	28.	1.00
5.	63.	28.	1.00
5.	62.	28.	1.00

5.	61.	28.	1.00
5.	61.	29.	1.00
5.	60.	29.	1.00
5.	59.	29.	1.00
5.	58.	29.	1.00
5.	57.	29.	1.00
5.	56.	29.	1.00
5.	55.	29.	1.00
5.	54.	29.	1.00
5.	53.	29.	1.00
5.	52.	29.	1.00
5.	51.	29.	1.00
5.	50.	29.	1.00
5.	49.	29.	1.00
5.	48.	29.	1.00
5.	47.	29.	1.00
5.	46.	29.	1.00
5.	45.	29.	1.00
5.	45.	30.	1.00
5.	44.	30.	1.00
5.	43.	30.	1.00
5.	42.	30.	1.00
5.	41.	30.	1.00
5.	40.	30.	1.00
5.	39.	30.	1.00
5.	38.	30.	1.00
5.	37.	30.	1.00
5.	36.	30.	1.00
5.	35.	30.	1.00
5.	34.	30.	1.00
5.	33.	30.	1.00
5.	32.	30.	1.00
5.	31.	30.	1.00
5.	30.	30.	1.00
5.	29.	30.	1.00
5.	29.	29.	1.00
5.	28.	29.	1.00
5.	27.	29.	1.00
5.	27.	28.	1.00
5.	26.	28.	1.00
5.	26.	27.	1.00
5.	25.	27.	1.00
5.	24.	27.	1.00
5.	24.	26.	1.00
5.	23.	26.	1.00
5.	22.	26.	1.00
5.	22.	25.	1.00
5.	21.	25.	1.00
5.	20.	25.	1.00
5.	20.	24.	1.00
5.	19.	24.	1.00
5.	18.	24.	1.00
5.	18.	23.	1.00
5.	17.	23.	1.00
5.	17.	22.	1.00
5.	16.	22.	1.00
5.	15.	22.	1.00
5.	15.	21.	1.00
5.	14.	21.	1.00
5.	13.	21.	1.00
5.	13.	20.	1.00
5.	12.	20.	1.00
5.	11.	20.	1.00

5.	11.	19.	1.00
5.	10.	19.	1.00
5.	9.	19.	1.00
5.	9.	18.	1.00
5.	8.	18.	1.00
5.	8.	17.	1.00
5.	7.	17.	1.00
5.	6.	17.	1.00
5.	6.	16.	1.00
5.	5.	16.	1.00
5.	4.	16.	1.00
5.	4.	15.	1.00
5.	3.	15.	1.00
5.	2.	15.	1.00
5.	2.	14.	1.00

GROUP NUMBER: 4 BOUNDARY TYPE: GHB NUMBER OF CELLS IN GROUP: 52
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
11	no_ghbf2	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
5.	97.	46.	1.00
5.	97.	45.	1.00
5.	96.	45.	1.00
5.	96.	44.	1.00
5.	95.	44.	1.00
5.	95.	43.	1.00
5.	94.	43.	1.00
5.	94.	42.	1.00
5.	93.	42.	1.00
5.	93.	41.	1.00
5.	92.	41.	1.00
5.	92.	40.	1.00
5.	91.	40.	1.00
5.	91.	39.	1.00
5.	90.	39.	1.00
5.	90.	38.	1.00
5.	89.	38.	1.00
5.	89.	37.	1.00
5.	88.	37.	1.00
5.	88.	36.	1.00
5.	87.	36.	1.00
5.	86.	36.	1.00
5.	85.	36.	1.00
5.	84.	36.	1.00
5.	83.	36.	1.00
5.	82.	36.	1.00
5.	81.	36.	1.00
5.	80.	36.	1.00
5.	79.	36.	1.00
5.	78.	36.	1.00
5.	77.	36.	1.00
5.	76.	36.	1.00
5.	75.	36.	1.00
5.	74.	36.	1.00
5.	73.	36.	1.00
5.	72.	36.	1.00
5.	72.	37.	1.00

5.	71.	37.	1.00
5.	70.	37.	1.00
5.	69.	37.	1.00
5.	68.	37.	1.00
5.	67.	37.	1.00
5.	66.	37.	1.00
5.	66.	36.	1.00
5.	66.	35.	1.00
5.	66.	34.	1.00
5.	66.	33.	1.00
5.	66.	32.	1.00
5.	66.	31.	1.00
5.	66.	30.	1.00
5.	66.	29.	1.00
5.	66.	28.	1.00

GROUP NUMBER: 5 BOUNDARY TYPE: GHB NUMBER OF CELLS IN GROUP: 49
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
12	no_ghbf3	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
5.	47.	93.	1.00
5.	47.	92.	1.00
5.	46.	92.	1.00
5.	45.	92.	1.00
5.	45.	91.	1.00
5.	44.	91.	1.00
5.	44.	90.	1.00
5.	43.	90.	1.00
5.	42.	90.	1.00
5.	42.	89.	1.00
5.	41.	89.	1.00
5.	41.	88.	1.00
5.	40.	88.	1.00
5.	39.	88.	1.00
5.	39.	87.	1.00
5.	38.	87.	1.00
5.	38.	86.	1.00
5.	37.	86.	1.00
5.	36.	86.	1.00
5.	36.	85.	1.00
5.	35.	85.	1.00
5.	35.	84.	1.00
5.	34.	84.	1.00
5.	33.	84.	1.00
5.	33.	83.	1.00
5.	32.	83.	1.00
5.	32.	82.	1.00
5.	31.	82.	1.00
5.	30.	82.	1.00
5.	30.	81.	1.00
5.	29.	81.	1.00
5.	29.	80.	1.00
5.	28.	80.	1.00
5.	27.	80.	1.00
5.	27.	79.	1.00
5.	26.	79.	1.00
5.	25.	79.	1.00

5.	25.	78.	1.00
5.	24.	78.	1.00
5.	24.	77.	1.00
5.	23.	77.	1.00
5.	22.	77.	1.00
5.	22.	76.	1.00
5.	21.	76.	1.00
5.	21.	75.	1.00
5.	20.	75.	1.00
5.	19.	75.	1.00
5.	19.	74.	1.00
5.	18.	74.	1.00

CONSTANT-HEAD-CELL FLOW OBSERVATION VARIANCES ARE MULTIPLIED BY: 1.000

OBSERVED CONSTANT-HEAD-CELL FLOW DATA
-- TIME OFFSETS ARE MULTIPLIED BY: 1.0000

GROUP NUMBER: 6 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 98
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
13	no_chdf0	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	47.	93.	0.19
1.	47.	92.	0.31
1.	48.	92.	0.50
1.	48.	91.	0.50
1.	48.	90.	0.50
1.	49.	90.	0.50
1.	49.	89.	0.50
1.	50.	89.	0.50
1.	50.	88.	0.50
1.	51.	88.	0.50
1.	51.	87.	0.50
1.	51.	86.	0.50
1.	52.	86.	0.50
1.	52.	85.	0.50
1.	53.	85.	0.50
1.	53.	84.	0.50
1.	53.	83.	0.50
1.	54.	83.	0.50
1.	54.	82.	0.50
1.	55.	82.	0.50
1.	55.	81.	0.50
1.	56.	81.	0.50
1.	57.	81.	0.50
1.	58.	81.	0.50
1.	59.	81.	0.50
1.	60.	81.	0.50
1.	61.	81.	0.50
1.	62.	81.	0.50
1.	63.	81.	0.50
1.	64.	81.	0.50
1.	65.	81.	0.50
1.	66.	81.	0.50
1.	67.	81.	0.50
1.	68.	81.	0.50
1.	69.	81.	0.50

1.	70.	81.	0.50
1.	70.	80.	0.50
1.	71.	80.	0.50
1.	72.	80.	0.50
1.	73.	80.	0.50
1.	73.	79.	0.50
1.	73.	78.	0.50
1.	74.	78.	0.50
1.	74.	77.	0.50
1.	74.	76.	0.50
1.	74.	75.	0.50
1.	75.	75.	0.50
1.	75.	74.	0.50
1.	75.	73.	0.50
1.	76.	73.	0.50
1.	76.	72.	0.50
1.	76.	71.	0.50
1.	77.	71.	0.50
1.	77.	70.	0.50
1.	77.	69.	0.50
1.	77.	68.	0.50
1.	77.	67.	0.50
1.	76.	67.	0.50
1.	76.	66.	0.50
1.	75.	66.	0.50
1.	75.	65.	0.50
1.	74.	65.	0.50
1.	73.	65.	0.50
1.	73.	64.	0.50
1.	72.	64.	0.50
1.	72.	63.	0.50
1.	72.	62.	0.50
1.	73.	62.	0.50
1.	73.	61.	0.50
1.	74.	61.	0.50
1.	75.	61.	0.50
1.	76.	61.	0.50
1.	76.	60.	0.50
1.	77.	60.	0.50
1.	78.	60.	0.50
1.	78.	59.	0.50
1.	79.	59.	0.50
1.	80.	59.	0.50
1.	81.	59.	0.50
1.	81.	58.	0.50
1.	82.	58.	0.50
1.	83.	58.	0.50
1.	83.	57.	0.50
1.	84.	57.	0.50
1.	84.	56.	0.50
1.	84.	55.	0.50
1.	85.	55.	0.50
1.	85.	54.	0.50
1.	85.	53.	0.50
1.	85.	52.	0.50
1.	85.	51.	0.50
1.	86.	51.	0.50
1.	86.	50.	0.50
1.	86.	49.	0.50
1.	86.	48.	0.50
1.	86.	47.	0.50
1.	87.	47.	0.50
1.	87.	46.	0.04

```
 GROUP NUMBER:    7    BOUNDARY TYPE: CHD    NUMBER OF CELLS IN GROUP:     5
 NUMBER OF FLOW OBSERVATIONS:      1

                                               OBSERVED
                            REFER.           BOUNDARY FLOW
       OBSERVATION  STRESS     TIME       GAIN (-) OR                  STATISTIC    PLOT
 OBS#     NAME        PERIOD   OFFSET      LOSS (+)    STATISTIC      TYPE        SYM.
   14 no_chdf1           1     0.000        1.000      0.1000E+20  STD. DEV.        1

       LAYER   ROW  COLUMN     FACTOR
          1.    83.    36.     0.03
          1.    84.    36.     0.51
          1.    85.    36.     0.51
          1.    86.    36.     0.51
          1.    87.    36.     0.48

 GROUP NUMBER:    8    BOUNDARY TYPE: CHD    NUMBER OF CELLS IN GROUP:    11
 NUMBER OF FLOW OBSERVATIONS:      1

                                               OBSERVED
                            REFER.           BOUNDARY FLOW
       OBSERVATION  STRESS     TIME       GAIN (-) OR                  STATISTIC    PLOT
 OBS#     NAME        PERIOD   OFFSET      LOSS (+)    STATISTIC      TYPE        SYM.
   15 no_chdf2           1     0.000        1.000      0.1000E+20  STD. DEV.        1

       LAYER   ROW  COLUMN     FACTOR
          1.    87.    46.     0.46
          1.    88.    46.     0.50
          1.    89.    46.     0.50
          1.    90.    46.     0.50
          1.    91.    46.     0.50
          1.    92.    46.     0.50
          1.    93.    46.     0.50
          1.    94.    46.     0.50
          1.    95.    46.     0.50
          1.    96.    46.     0.50
          1.    97.    46.     0.31

 GROUP NUMBER:    9    BOUNDARY TYPE: CHD    NUMBER OF CELLS IN GROUP:    42
 NUMBER OF FLOW OBSERVATIONS:      1

                                               OBSERVED
                            REFER.           BOUNDARY FLOW
       OBSERVATION  STRESS     TIME       GAIN (-) OR                  STATISTIC    PLOT
 OBS#     NAME        PERIOD   OFFSET      LOSS (+)    STATISTIC      TYPE        SYM.
   16 no_chdf3           1     0.000        1.000      0.1000E+20  STD. DEV.        1

       LAYER   ROW  COLUMN     FACTOR
          1.     2.    14.     0.15
          1.     2.    15.     0.33
          1.     2.    16.     0.50
          1.     2.    17.     0.50
          1.     2.    18.     0.50
          1.     2.    19.     0.50
          1.     2.    20.     0.50
          1.     2.    21.     0.50
          1.     2.    22.     0.50
          1.     2.    23.     0.50
          1.     2.    24.     0.50
          1.     2.    25.     0.50
          1.     2.    26.     0.50
          1.     2.    27.     0.50
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1.	2.	28.	0.50
1.	2.	29.	0.50
1.	2.	30.	0.50
1.	2.	31.	0.50
1.	2.	32.	0.50
1.	2.	33.	0.50
1.	2.	34.	0.50
1.	3.	34.	0.50
1.	3.	35.	0.50
1.	3.	36.	0.50
1.	3.	37.	0.50
1.	3.	38.	0.50
1.	3.	39.	0.50
1.	3.	40.	0.50
1.	3.	41.	0.50
1.	3.	42.	0.50
1.	3.	43.	0.50
1.	3.	44.	0.50
1.	3.	45.	0.50
1.	3.	46.	0.50
1.	3.	47.	0.50
1.	3.	48.	0.50
1.	3.	49.	0.50
1.	3.	50.	0.50
1.	3.	51.	0.50
1.	3.	52.	0.50
1.	3.	53.	0.50
1.	3.	54.	0.03

GROUP NUMBER: 10 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 36
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
17	no_chdf4	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	2.	14.	0.35
1.	2.	15.	0.17
1.	3.	15.	0.50
1.	4.	15.	0.50
1.	4.	16.	0.50
1.	5.	16.	0.50
1.	6.	16.	0.50
1.	6.	17.	0.50
1.	7.	17.	0.50
1.	8.	17.	0.50
1.	8.	18.	0.50
1.	9.	18.	0.50
1.	9.	19.	0.50
1.	10.	19.	0.50
1.	11.	19.	0.50
1.	11.	20.	0.50
1.	12.	20.	0.50
1.	13.	20.	0.50
1.	13.	21.	0.50
1.	14.	21.	0.50
1.	15.	21.	0.50
1.	15.	22.	0.50
1.	16.	22.	0.50
1.	17.	22.	0.50

1.	17.	23.	0.50
1.	18.	23.	0.50
1.	18.	24.	0.50
1.	19.	24.	0.50
1.	20.	24.	0.50
1.	20.	25.	0.50
1.	21.	25.	0.50
1.	22.	25.	0.50
1.	22.	26.	0.50
1.	23.	26.	0.50
1.	24.	26.	0.50
1.	24.	27.	0.48

GROUP NUMBER: 11 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 21
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
18	no_chdf5	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	87.	36.	0.03
1.	88.	36.	0.51
1.	88.	37.	0.51
1.	89.	37.	0.50
1.	89.	38.	0.50
1.	90.	38.	0.50
1.	90.	39.	0.50
1.	91.	39.	0.50
1.	91.	40.	0.50
1.	92.	40.	0.50
1.	92.	41.	0.50
1.	93.	41.	0.50
1.	93.	42.	0.50
1.	94.	42.	0.50
1.	94.	43.	0.50
1.	95.	43.	0.50
1.	95.	44.	0.50
1.	96.	44.	0.50
1.	96.	45.	0.50
1.	97.	45.	0.50
1.	97.	46.	0.19

GROUP NUMBER: 12 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 49
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
19	no_chdf6	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	18.	74.	0.49
1.	19.	74.	0.50
1.	19.	75.	0.50
1.	20.	75.	0.50
1.	21.	75.	0.50
1.	21.	76.	0.50
1.	22.	76.	0.50
1.	22.	77.	0.50

1.	23.	77.	0.50
1.	24.	77.	0.50
1.	24.	78.	0.50
1.	25.	78.	0.50
1.	25.	79.	0.50
1.	26.	79.	0.50
1.	27.	79.	0.50
1.	27.	80.	0.50
1.	28.	80.	0.50
1.	29.	80.	0.50
1.	29.	81.	0.50
1.	30.	81.	0.50
1.	30.	82.	0.50
1.	31.	82.	0.50
1.	32.	82.	0.50
1.	32.	83.	0.50
1.	33.	83.	0.50
1.	33.	84.	0.50
1.	34.	84.	0.50
1.	35.	84.	0.50
1.	35.	85.	0.50
1.	36.	85.	0.50
1.	36.	86.	0.50
1.	37.	86.	0.50
1.	38.	86.	0.50
1.	38.	87.	0.50
1.	39.	87.	0.50
1.	39.	88.	0.50
1.	40.	88.	0.50
1.	41.	88.	0.50
1.	41.	89.	0.50
1.	42.	89.	0.50
1.	42.	90.	0.50
1.	43.	90.	0.50
1.	44.	90.	0.50
1.	44.	91.	0.50
1.	45.	91.	0.50
1.	45.	92.	0.50
1.	46.	92.	0.50
1.	47.	92.	0.19
1.	47.	93.	0.30

GROUP NUMBER: 13 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 28
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
20	no_chdf7	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	66.	28.	0.27
1.	66.	29.	0.50
1.	66.	30.	0.50
1.	66.	31.	0.50
1.	66.	32.	0.50
1.	66.	33.	0.50
1.	66.	34.	0.50
1.	66.	35.	0.50
1.	66.	36.	0.50
1.	66.	37.	0.50
1.	67.	37.	0.50

1.	68.	37.	0.50
1.	69.	37.	0.50
1.	70.	37.	0.50
1.	71.	37.	0.50
1.	72.	37.	0.50
1.	72.	36.	0.50
1.	73.	36.	0.50
1.	74.	36.	0.50
1.	75.	36.	0.50
1.	76.	36.	0.50
1.	77.	36.	0.50
1.	78.	36.	0.50
1.	79.	36.	0.50
1.	80.	36.	0.50
1.	81.	36.	0.50
1.	82.	36.	0.51
1.	83.	36.	0.47

GROUP NUMBER: 14 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 48
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
21	no_chdf8	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	24.	27.	0.02
1.	25.	27.	0.50
1.	26.	27.	0.50
1.	26.	28.	0.50
1.	27.	28.	0.50
1.	27.	29.	0.50
1.	28.	29.	0.50
1.	29.	29.	0.50
1.	29.	30.	0.50
1.	30.	30.	0.50
1.	31.	30.	0.50
1.	32.	30.	0.50
1.	33.	30.	0.50
1.	34.	30.	0.50
1.	35.	30.	0.50
1.	36.	30.	0.50
1.	37.	30.	0.50
1.	38.	30.	0.50
1.	39.	30.	0.50
1.	40.	30.	0.50
1.	41.	30.	0.50
1.	42.	30.	0.50
1.	43.	30.	0.50
1.	44.	30.	0.50
1.	45.	30.	0.50
1.	45.	29.	0.50
1.	46.	29.	0.50
1.	47.	29.	0.50
1.	48.	29.	0.50
1.	49.	29.	0.50
1.	50.	29.	0.50
1.	51.	29.	0.50
1.	52.	29.	0.50
1.	53.	29.	0.50
1.	54.	29.	0.50

1.	55.	29.	0.50
1.	56.	29.	0.50
1.	57.	29.	0.50
1.	58.	29.	0.50
1.	59.	29.	0.50
1.	60.	29.	0.50
1.	61.	29.	0.50
1.	61.	28.	0.50
1.	62.	28.	0.50
1.	63.	28.	0.50
1.	64.	28.	0.50
1.	65.	28.	0.50
1.	66.	28.	0.23

GROUP NUMBER: 15 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 38
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
22	no_chdf9	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	3.	54.	0.47
1.	3.	55.	0.50
1.	3.	56.	0.50
1.	3.	57.	0.50
1.	4.	57.	0.50
1.	5.	57.	0.50
1.	6.	57.	0.50
1.	7.	57.	0.50
1.	8.	57.	0.50
1.	9.	57.	0.50
1.	10.	57.	0.50
1.	11.	57.	0.50
1.	12.	57.	0.50
1.	13.	57.	0.50
1.	13.	56.	0.50
1.	14.	56.	0.50
1.	15.	56.	0.50
1.	16.	56.	0.50
1.	17.	56.	0.50
1.	17.	57.	0.50
1.	17.	58.	0.50
1.	17.	59.	0.50
1.	17.	60.	0.50
1.	17.	61.	0.50
1.	17.	62.	0.50
1.	17.	63.	0.50
1.	17.	64.	0.50
1.	17.	65.	0.50
1.	17.	66.	0.50
1.	17.	67.	0.50
1.	18.	67.	0.50
1.	18.	68.	0.50
1.	18.	69.	0.50
1.	18.	70.	0.50
1.	18.	71.	0.50
1.	18.	72.	0.50
1.	18.	73.	0.50
1.	18.	74.	0.01

GROUP NUMBER: 16 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 98
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
23	no_chdf10	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	47.	93.	0.20
1.	47.	92.	0.31
1.	48.	92.	0.50
1.	48.	91.	0.50
1.	48.	90.	0.50
1.	49.	90.	0.50
1.	49.	89.	0.50
1.	50.	89.	0.50
1.	50.	88.	0.50
1.	51.	88.	0.50
1.	51.	87.	0.50
1.	51.	86.	0.50
1.	52.	86.	0.50
1.	52.	85.	0.50
1.	53.	85.	0.50
1.	53.	84.	0.50
1.	53.	83.	0.50
1.	54.	83.	0.50
1.	54.	82.	0.50
1.	55.	82.	0.50
1.	55.	81.	0.50
1.	56.	81.	0.50
1.	57.	81.	0.50
1.	58.	81.	0.50
1.	59.	81.	0.50
1.	60.	81.	0.50
1.	61.	81.	0.50
1.	62.	81.	0.50
1.	63.	81.	0.50
1.	64.	81.	0.50
1.	65.	81.	0.50
1.	66.	81.	0.50
1.	67.	81.	0.50
1.	68.	81.	0.50
1.	69.	81.	0.50
1.	70.	81.	0.50
1.	70.	80.	0.50
1.	71.	80.	0.50
1.	72.	80.	0.50
1.	73.	80.	0.50
1.	73.	79.	0.50
1.	73.	78.	0.50
1.	74.	78.	0.50
1.	74.	77.	0.50
1.	74.	76.	0.50
1.	74.	75.	0.50
1.	75.	75.	0.50
1.	75.	74.	0.50
1.	75.	73.	0.50
1.	76.	73.	0.50
1.	76.	72.	0.50
1.	76.	71.	0.50
1.	77.	71.	0.50

1.	77.	70.	0.50
1.	77.	69.	0.50
1.	77.	68.	0.50
1.	77.	67.	0.50
1.	76.	67.	0.50
1.	76.	66.	0.50
1.	75.	66.	0.50
1.	75.	65.	0.50
1.	74.	65.	0.50
1.	73.	65.	0.50
1.	73.	64.	0.50
1.	72.	64.	0.50
1.	72.	63.	0.50
1.	72.	62.	0.50
1.	73.	62.	0.50
1.	73.	61.	0.50
1.	74.	61.	0.50
1.	75.	61.	0.50
1.	76.	61.	0.50
1.	76.	60.	0.50
1.	77.	60.	0.50
1.	78.	60.	0.50
1.	78.	59.	0.50
1.	79.	59.	0.50
1.	80.	59.	0.50
1.	81.	59.	0.50
1.	81.	58.	0.50
1.	82.	58.	0.50
1.	83.	58.	0.50
1.	83.	57.	0.50
1.	84.	57.	0.50
1.	84.	56.	0.50
1.	84.	55.	0.50
1.	85.	55.	0.50
1.	85.	54.	0.50
1.	85.	53.	0.50
1.	85.	52.	0.50
1.	85.	51.	0.50
1.	86.	51.	0.50
1.	86.	50.	0.50
1.	86.	49.	0.50
1.	86.	48.	0.50
1.	86.	47.	0.50
1.	87.	47.	0.50
1.	87.	46.	0.04

GROUP NUMBER: 17 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 5
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
24	no_chdf11	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	83.	36.	0.03
1.	84.	36.	0.49
1.	85.	36.	0.49
1.	86.	36.	0.49
1.	87.	36.	0.47

GROUP NUMBER: 18 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 11

NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
25	no_chdf12	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	87.	46.	0.45
1.	88.	46.	0.50
1.	89.	46.	0.50
1.	90.	46.	0.50
1.	91.	46.	0.50
1.	92.	46.	0.50
1.	93.	46.	0.50
1.	94.	46.	0.50
1.	95.	46.	0.50
1.	96.	46.	0.50
1.	97.	46.	0.31

GROUP NUMBER: 19 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 42
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
26	no_chdf13	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	2.	14.	0.15
1.	2.	15.	0.33
1.	2.	16.	0.50
1.	2.	17.	0.50
1.	2.	18.	0.50
1.	2.	19.	0.50
1.	2.	20.	0.50
1.	2.	21.	0.50
1.	2.	22.	0.50
1.	2.	23.	0.50
1.	2.	24.	0.50
1.	2.	25.	0.50
1.	2.	26.	0.50
1.	2.	27.	0.50
1.	2.	28.	0.50
1.	2.	29.	0.50
1.	2.	30.	0.50
1.	2.	31.	0.50
1.	2.	32.	0.50
1.	2.	33.	0.50
1.	2.	34.	0.50
1.	3.	34.	0.50
1.	3.	35.	0.50
1.	3.	36.	0.50
1.	3.	37.	0.50
1.	3.	38.	0.50
1.	3.	39.	0.50
1.	3.	40.	0.50
1.	3.	41.	0.50
1.	3.	42.	0.50
1.	3.	43.	0.50
1.	3.	44.	0.50

1.	3.	45.	0.50
1.	3.	46.	0.50
1.	3.	47.	0.50
1.	3.	48.	0.50
1.	3.	49.	0.50
1.	3.	50.	0.50
1.	3.	51.	0.50
1.	3.	52.	0.50
1.	3.	53.	0.50
1.	3.	54.	0.03

GROUP NUMBER: 20 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 36
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
27	no_chdf14	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	2.	14.	0.35
1.	2.	15.	0.17
1.	3.	15.	0.50
1.	4.	15.	0.50
1.	4.	16.	0.50
1.	5.	16.	0.50
1.	6.	16.	0.50
1.	6.	17.	0.50
1.	7.	17.	0.50
1.	8.	17.	0.50
1.	8.	18.	0.50
1.	9.	18.	0.50
1.	9.	19.	0.50
1.	10.	19.	0.50
1.	11.	19.	0.50
1.	11.	20.	0.50
1.	12.	20.	0.50
1.	13.	20.	0.50
1.	13.	21.	0.50
1.	14.	21.	0.50
1.	15.	21.	0.50
1.	15.	22.	0.50
1.	16.	22.	0.50
1.	17.	22.	0.50
1.	17.	23.	0.50
1.	18.	23.	0.50
1.	18.	24.	0.50
1.	19.	24.	0.50
1.	20.	24.	0.50
1.	20.	25.	0.50
1.	21.	25.	0.50
1.	22.	25.	0.50
1.	22.	26.	0.50
1.	23.	26.	0.50
1.	24.	26.	0.50
1.	24.	27.	0.48

GROUP NUMBER: 21 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 21
NUMBER OF FLOW OBSERVATIONS: 1

OBSERVED
REFER. BOUNDARY FLOW

OBS#	OBSERVATION NAME	STRESS PERIOD	TIME OFFSET	GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
28	no_chdf15	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	87.	36.	0.03
1.	88.	36.	0.49
1.	88.	37.	0.49
1.	89.	37.	0.50
1.	89.	38.	0.50
1.	90.	38.	0.50
1.	90.	39.	0.50
1.	91.	39.	0.50
1.	91.	40.	0.50
1.	92.	40.	0.50
1.	92.	41.	0.50
1.	93.	41.	0.50
1.	93.	42.	0.50
1.	94.	42.	0.50
1.	94.	43.	0.50
1.	95.	43.	0.50
1.	95.	44.	0.50
1.	96.	44.	0.50
1.	96.	45.	0.50
1.	97.	45.	0.50
1.	97.	46.	0.19

GROUP NUMBER: 22 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 49
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
29	no_chdf16	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	18.	74.	0.49
1.	19.	74.	0.50
1.	19.	75.	0.50
1.	20.	75.	0.50
1.	21.	75.	0.50
1.	21.	76.	0.50
1.	22.	76.	0.50
1.	22.	77.	0.50
1.	23.	77.	0.50
1.	24.	77.	0.50
1.	24.	78.	0.50
1.	25.	78.	0.50
1.	25.	79.	0.50
1.	26.	79.	0.50
1.	27.	79.	0.50
1.	27.	80.	0.50
1.	28.	80.	0.50
1.	29.	80.	0.50
1.	29.	81.	0.50
1.	30.	81.	0.50
1.	30.	82.	0.50
1.	31.	82.	0.50
1.	32.	82.	0.50
1.	32.	83.	0.50
1.	33.	83.	0.50
1.	33.	84.	0.50

1.	34.	84.	0.50
1.	35.	84.	0.50
1.	35.	85.	0.50
1.	36.	85.	0.50
1.	36.	86.	0.50
1.	37.	86.	0.50
1.	38.	86.	0.50
1.	38.	87.	0.50
1.	39.	87.	0.50
1.	39.	88.	0.50
1.	40.	88.	0.50
1.	41.	88.	0.50
1.	41.	89.	0.50
1.	42.	89.	0.50
1.	42.	90.	0.50
1.	43.	90.	0.50
1.	44.	90.	0.50
1.	44.	91.	0.50
1.	45.	91.	0.50
1.	45.	92.	0.50
1.	46.	92.	0.50
1.	47.	92.	0.19
1.	47.	93.	0.31

GROUP NUMBER: 23 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 28
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
30	no_chdf17	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	66.	28.	0.27
1.	66.	29.	0.50
1.	66.	30.	0.50
1.	66.	31.	0.50
1.	66.	32.	0.50
1.	66.	33.	0.50
1.	66.	34.	0.50
1.	66.	35.	0.50
1.	66.	36.	0.50
1.	66.	37.	0.50
1.	67.	37.	0.50
1.	68.	37.	0.50
1.	69.	37.	0.50
1.	70.	37.	0.50
1.	71.	37.	0.50
1.	72.	37.	0.50
1.	72.	36.	0.50
1.	73.	36.	0.50
1.	74.	36.	0.50
1.	75.	36.	0.50
1.	76.	36.	0.50
1.	77.	36.	0.50
1.	78.	36.	0.50
1.	79.	36.	0.50
1.	80.	36.	0.50
1.	81.	36.	0.50
1.	82.	36.	0.49
1.	83.	36.	0.46

GROUP NUMBER: 24 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 48
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
31	no_chdf18	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	24.	27.	0.02
1.	25.	27.	0.50
1.	26.	27.	0.50
1.	26.	28.	0.50
1.	27.	28.	0.50
1.	27.	29.	0.50
1.	28.	29.	0.50
1.	29.	29.	0.50
1.	29.	30.	0.50
1.	30.	30.	0.50
1.	31.	30.	0.50
1.	32.	30.	0.50
1.	33.	30.	0.50
1.	34.	30.	0.50
1.	35.	30.	0.50
1.	36.	30.	0.50
1.	37.	30.	0.50
1.	38.	30.	0.50
1.	39.	30.	0.50
1.	40.	30.	0.50
1.	41.	30.	0.50
1.	42.	30.	0.50
1.	43.	30.	0.50
1.	44.	30.	0.50
1.	45.	30.	0.50
1.	45.	29.	0.50
1.	46.	29.	0.50
1.	47.	29.	0.50
1.	48.	29.	0.50
1.	49.	29.	0.50
1.	50.	29.	0.50
1.	51.	29.	0.50
1.	52.	29.	0.50
1.	53.	29.	0.50
1.	54.	29.	0.50
1.	55.	29.	0.50
1.	56.	29.	0.50
1.	57.	29.	0.50
1.	58.	29.	0.50
1.	59.	29.	0.50
1.	60.	29.	0.50
1.	61.	29.	0.50
1.	61.	28.	0.50
1.	62.	28.	0.50
1.	63.	28.	0.50
1.	64.	28.	0.50
1.	65.	28.	0.50
1.	66.	28.	0.23

GROUP NUMBER: 25 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 38
NUMBER OF FLOW OBSERVATIONS: 1

OBSERVED

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
32	no_chdf19	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	3.	54.	0.47
1.	3.	55.	0.50
1.	3.	56.	0.50
1.	3.	57.	0.50
1.	4.	57.	0.50
1.	5.	57.	0.50
1.	6.	57.	0.50
1.	7.	57.	0.50
1.	8.	57.	0.50
1.	9.	57.	0.50
1.	10.	57.	0.50
1.	11.	57.	0.50
1.	12.	57.	0.50
1.	13.	57.	0.50
1.	13.	56.	0.50
1.	14.	56.	0.50
1.	15.	56.	0.50
1.	16.	56.	0.50
1.	17.	56.	0.50
1.	17.	57.	0.50
1.	17.	58.	0.50
1.	17.	59.	0.50
1.	17.	60.	0.50
1.	17.	61.	0.50
1.	17.	62.	0.50
1.	17.	63.	0.50
1.	17.	64.	0.50
1.	17.	65.	0.50
1.	17.	66.	0.50
1.	17.	67.	0.50
1.	18.	67.	0.50
1.	18.	68.	0.50
1.	18.	69.	0.50
1.	18.	70.	0.50
1.	18.	71.	0.50
1.	18.	72.	0.50
1.	18.	73.	0.50
1.	18.	74.	0.01

```
                              SOLUTION BY THE CONJUGATE-GRADIENT METHOD
                             ------------------------------------------
                    MAXIMUM NUMBER OF CALLS TO PCG ROUTINE =       25
                        MAXIMUM ITERATIONS PER CALL TO PCG =       50
                               MATRIX PRECONDITIONING TYPE =        1
       RELAXATION FACTOR (ONLY USED WITH PRECOND. TYPE 1) =    0.10000E+01
 PARAMETER OF POLYNOMIAL PRECOND. = 2 (2) OR IS CALCULATED :        0
                         HEAD CHANGE CRITERION FOR CLOSURE =    0.10000E+00
                     RESIDUAL CHANGE CRITERION FOR CLOSURE =    0.10000E+00
            PCG HEAD AND RESIDUAL CHANGE PRINTOUT INTERVAL =      999
     PRINTING FROM SOLVER IS LIMITED(1) OR SUPPRESSED (>1) =        2
                                         DAMPING PARAMETER =    0.10000E+01

 WETTING CAPABILITY IS ACTIVE IN    1 LAYERS
  WETTING FACTOR=   10.00000
  WETTING ITERATION INTERVAL=          10
```

```
 IHDWET=           0

    0 Well parameters

    0 Drain parameters

    0 Evapotranspiration parameters

    0 GHB parameters

    0 Recharge parameters

    0 TIME-VARIANT SPECIFIED-HEAD PARAMETERS

    0 HFB parameters

   3 PARAMETERS HAVE BEEN DEFINED IN ALL PACKAGES.
(SPACE IS ALLOCATED FOR  999 PARAMETERS.)

SMALLEST AND LARGEST WEIGHTED RESIDUALS

     SMALLEST WEIGHTED RESIDUALS      |       LARGEST WEIGHTED RESIDUALS
               WEIGHTED   PERCENT OF  |                  WEIGHTED   PERCENT OF
NAME           RESIDUAL    OBJ FUNC   |  NAME            RESIDUAL    OBJ FUNC
no_ghbf2      -0.760E-13     0.00     |  hed4             313.         45.75
no_ghbf1      -0.173E-13     0.00     |  hed6             236.         25.98
no_ghbf0      -0.936E-14     0.00     |  hed1             160.         11.92
no_ghbf3      -0.764E-15     0.00     |  hed7             137.          8.76
no_chdf11      0.168E-15     0.00     |  hed3             113.          5.93

STATISTICS FOR ALL RESIDUALS :
AVERAGE WEIGHTED RESIDUAL  : 0.321E+02
# RESIDUALS >= 0. :     28
# RESIDUALS < 0.  :      4
NUMBER OF RUNS  :    3  IN   32 OBSERVATIONS

INTERPRETING THE CALCULATED RUNS STATISTIC VALUE OF     -3.87
NOTE: THE FOLLOWING APPLIES ONLY IF
       # RESIDUALS >= 0 . IS GREATER THAN 10 AND
       # RESIDUALS < 0.   IS GREATER THAN 10
THE NEGATIVE VALUE MAY INDICATE TOO FEW RUNS:
   IF THE VALUE IS LESS THAN -1.28, THERE IS LESS THAN A 10 PERCENT
      CHANCE THE VALUES ARE RANDOM,
   IF THE VALUE IS LESS THAN -1.645, THERE IS LESS THAN A 5 PERCENT
      CHANCE THE VALUES ARE RANDOM,
   IF THE VALUE IS LESS THAN -1.96, THERE IS LESS THAN A 2.5 PERCENT
      CHANCE THE VALUES ARE RANDOM.


CORRELATION BETWEEN ORDERED WEIGHTED RESIDUALS AND NORMAL ORDER STATISTICS
FOR OBSERVATIONS =    0.487

--------------------------------------------------------------------------
COMMENTS ON THE INTERPRETATION OF THE CORRELATION BETWEEN
WEIGHTED RESIDUALS AND NORMAL ORDER STATISTICS:
```

Generally, IF the reported CORRELATION is LESS than the critical value, at the selected significance level (usually 5 or 10%), the hypothesis that the weighted residuals are INDEPENDENT AND NORMALLY DISTRIBUTED would be REJECTED. HOWEVER, in this case, conditions are outside of the range of published critical values as discussed below.

The sum of the number of observations and prior information items is 32 which is less than 35, the minimum value for which critical values are published. Therefore, the critical values for the 5 and 10% significance levels are less than 0.943 and 0.952, respectively.

CORRELATIONS GREATER than these critical values indicate that, probably, the weighted residuals ARE INDEPENDENT AND NORMALLY DISTRIBUTED.

Correlations LESS than these critical values MAY BE ACCEPTABLE, and rejection of the hypothesis is not necessarily warranted.

The Kolmogorov-Smirnov test can be used to further evaluate the residuals.

```
#            CoverageGUID ObjectType ID X Y Time OBNAME
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5774, 221327.2, 326728.0 ts_0
hed1
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5775, 219776.0, 326790.0 ts_0
hed2
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5776, 220131.0, 325400.6 ts_0
hed3
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5777, 220779.0, 324851.0 ts_0
hed4
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5778, 219770.0, 325299.0 ts_0
hed5
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5779, 220383.0, 323927.0 ts_0
hed6
#GMSCOMMENT b65651bb-5d3e-49f7-ab1c-bfd45d5e548c POINT 5780, 220522.0, 325981.0 ts_0
hed7
7 0 6
1.0 1.0
hed1 5 32 73 1 0.0 0.1347586289295 -0.49533529968 3689.73 1.530640358798 1 1
hed2 5 31 40 1 0.0 0.047185929761 -0.250173221704 3698.05 1.530640358798 1 1
hed3 5 55 47 1 0.0 0.4193392881939 0.2459378293005 3696.72 1.530640358798 1 1
hed4 5 65 61 1 0.0 0.060145021455 -0.071020026894 3700.85 1.530640358798 1 1
hed5 5 57 40 1 0.0 0.2015551952144 -0.376868056369 3706.41 1.530640358798 1 1
hed6 5 81 53 1 0.0 0.2684865380731 -0.432879114776 3702.56 1.530640358798 1 1
hed7 5 45 56 1 0.0 0.238255504378 -0.497782111706 3604.85 1.530640358798 1 1
```

```
# MF2K-MT3DMS LINKER FILE
#
OUTPUT_FILE_NAME "DRAIN_MEDK.hff"
OUTPUT_FILE_UNIT
OUTPUT_FILE_HEADER standard
OUTPUT_FILE_FORMAT unformatted
```

```
40 -888.0 0 0
1 0 0 0 0 0
0 0 0 0 0 0
-1.0 -1.0 -1.0 -1.0 -1.0 -1.0
1 1 1 1 1 1
1 0 0 0 0 0
10.0   10   0
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/HK1" 1 0 10000
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/HANI1" 1 0 10000
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/VANI1" 1 0 10000
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/WET1" 1 0 10000
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/HK2" 1 0 10000
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/HANI2" 1 0 10000
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/VANI2" 1 0 10000
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/HK3" 1 0 10000
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/HANI3" 1 0 10000
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/VANI3" 1 0 10000
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/HK4" 1 0 10000
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/HANI4" 1 0 10000
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/VANI4" 1 0 10000
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/HK5" 1 0 10000
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/HANI5" 1 0 10000
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/VANI5" 1 0 10000
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/HK6" 1 0 10000
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/HANI6" 1 0 10000
HDF5 1.0 -1 "DRAIN_MEDK.h5" "Arrays/VANI6" 1 0 10000
```

```
# MF2K NAME file
#
# Output Files
GLOBAL          1 "DRAIN_MEDK.glo"
LIST            2 "DRAIN_MEDK.out"
DATA(BINARY) 30 "DRAIN_MEDK.hed"
DATA(BINARY) 40 "DRAIN_MEDK.ccf"
LMT6           18 "DRAIN_MEDK.lmt"
#
# Obs-Sen-Pes Process Input Files
OBS            50 "DRAIN_MEDK.obs"
HOB            51 "DRAIN_MEDK.hob"
GBOB           53 "DRAIN_MEDK.gbob"
DROB           54 "DRAIN_MEDK.drob"
CHOB           55 "DRAIN_MEDK.chob"
SEN            57 "DRAIN_MEDK.snn"
PES            58 "DRAIN_MEDK.pes"
ASP            71 "DRAIN_MEDK.asp"
#
# Global Input Files
DIS            19 "DRAIN_MEDK.dis"
#
# Flow Process Input Files
BAS6            3 "DRAIN_MEDK.ba6"
LPF             4 "DRAIN_MEDK.lpf"
OC             15 "DRAIN_MEDK.oc"
RCH            16 "DRAIN_MEDK.rch"
HFB6            7 "DRAIN_MEDK.hfb"
WEL             9 "DRAIN_MEDK.wel"
DRN            10 "DRAIN_MEDK.drn"
GHB            11 "DRAIN_MEDK.ghb"
EVT            12 "DRAIN_MEDK.evt"
CHD            13 "DRAIN_MEDK.chd"
PCG            14 "DRAIN_MEDK.pcg"
```

DRAIN_MEDK 3

```
HEAD SAVE UNIT 30
COMPACT BUDGET AUX
PERIOD 1 STEP 1
    PRINT BUDGET
    SAVE HEAD
    SAVE BUDGET
```

```
                                  MODFLOW-2000
      U.S. GEOLOGICAL SURVEY MODULAR FINITE-DIFFERENCE GROUND-WATER FLOW MODEL
                             VERSION 1.18.01 06/20/2008


 This model run produced both GLOBAL and LIST files.  This is the LIST file.


 #NT-1
 #12 December 2007
 THE FREE FORMAT OPTION HAS BEEN SELECTED
    6 LAYERS       100 ROWS       100 COLUMNS
    1 STRESS PERIOD(S) IN SIMULATION

 BAS6 -- BASIC PACKAGE, VERSION 6, 1/11/2000 INPUT READ FROM UNIT    3
         30 ELEMENTS IN IR ARRAY ARE USED BY BAS

 WEL6 -- WELL PACKAGE, VERSION 6, 1/11/2000 INPUT READ FROM UNIT    9
 #GMS_HDF5_01
 No named parameters
 MAXIMUM OF      1 ACTIVE WELLS AT ONE TIME
 CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT   40
 AUXILIARY WELL VARIABLE: IFACE
 AUXILIARY WELL VARIABLE: QFACT
 AUXILIARY WELL VARIABLE: CELLGRP
          7 ELEMENTS IN RX ARRAY ARE USED BY WEL

 DRN6 -- DRAIN PACKAGE, VERSION 6, 1/11/2000 INPUT READ FROM UNIT   10
 #GMS_HDF5_01
 No named parameters
 MAXIMUM OF    432 ACTIVE DRAINS AT ONE TIME
 CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT   40
 AUXILIARY DRAIN VARIABLE: IFACE
 AUXILIARY DRAIN VARIABLE: CONDFACT
 AUXILIARY DRAIN VARIABLE: CELLGRP
       3456 ELEMENTS IN RX ARRAY ARE USED BY DRN

 EVT6 -- EVAPOTRANSPIRATION PACKAGE, VERSION 6, 12/14/2000
         INPUT READ FROM UNIT   12
 #GMS_HDF5_01
 No named parameters
 OPTION 1 -- EVAPOTRANSPIRATION FROM TOP LAYER
 CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT   40
      30000 ELEMENTS IN RX ARRAY ARE USED BY EVT
      10000 ELEMENTS IN IR ARRAY ARE USED BY EVT

 GHB6 -- GHB PACKAGE, VERSION 6, 1/11/2000 INPUT READ FROM UNIT   11
 #GMS_HDF5_01
 No named parameters
 MAXIMUM OF    263 ACTIVE GHB CELLS AT ONE TIME
 CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT   40
 AUXILIARY GHB VARIABLE: IFACE
 AUXILIARY GHB VARIABLE: CONDFACT
 AUXILIARY GHB VARIABLE: CELLGRP
       2104 ELEMENTS IN RX ARRAY ARE USED BY GHB

 RCH6 -- RECHARGE PACKAGE, VERSION 6, 1/11/2000 INPUT READ FROM UNIT   16
 #GMS_HDF5_01
 No named parameters
 OPTION 3 -- RECHARGE TO HIGHEST ACTIVE NODE IN EACH VERTICAL COLUMN
 CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT   40
      10000 ELEMENTS IN RX ARRAY ARE USED BY RCH
      10000 ELEMENTS IN IR ARRAY ARE USED BY RCH
```

```
 CHD6 -- TIME-VARIANT SPECIFIED-HEAD PACKAGE, VERSION 6, 1/11/2000
 INPUT READ FROM UNIT   13
 #GMS_HDF5_01
 No named parameters
 MAXIMUM OF    752 TIME-VARIANT SPECIFIED-HEAD CELLS AT ONE TIME
       3760 ELEMENTS IN RX ARRAY ARE USED BY CHD
 HFB6 -- HORIZONTAL FLOW BARRIER PACKAGE, VERSION 6, 1/11/1000.
   INPUT READ FROM UNIT    7
     0 PARAMETERS DEFINE A MAXIMUM OF      0 HORIZONTAL FLOW BARRIERS
    380 HORIZONTAL FLOW BARRIERS NOT DEFINED BY PARAMETERS
       2660 ELEMENTS IN RX ARRAY ARE USED FOR
           HORIZONTAL FLOW BARRIER PACKAGE

      51987  ELEMENTS OF RX ARRAY USED OUT OF      51987
          0  ELEMENTS OF RZ ARRAY USED OUT OF          1
      20030  ELEMENTS OF IR ARRAY USED OUT OF      20030
1
 #NT-1
 #12 December 2007

             1           2           3           4           5           6
  7          8           9          10
            11          12          13          14          15          16
 17         18          19          20
            21          22          23          24          25          26
 27         28          29          30
            31          32          33          34          35          36
 37         38          39          40
            41          42          43          44          45          46
 47         48          49          50
            51          52          53          54          55          56
 57         58          59          60
            61          62          63          64          65          66
 67         68          69          70
            71          72          73          74          75          76
 77         78          79          80
            81          82          83          84          85          86
 87         88          89          90
            91          92          93          94          95          96
 97         98          99         100

...................................................................................
........................................
  1          0           0           0           0           0           0
  0          0           0           0
             0           0           0           0           0           0
  0          0           0           0
             0           0           0           0           0           0
  0          0           0           0
             0           0           0           0           0           0
  0          0           0           0
             0           0           0           0           0           0
  0          0           0           0
             0           0           0           0           0           0
  0          0           0           0
             0           0           0           0           0           0
  0          0           0           0
             0           0           0           0           0           0
  0          0           0           0
             0           0           0           0           0           0
  0          0           0           0
             0           0           0           0           0           0
```

```
0             0             0             0
2              0             0             0             0             0             0
0             0             0             0
               0             0             0             1             1             1
1             1             1             1
               1             1             1             1             1             1
1             1             1             1
               1             1             1             1             0             0
0             0             0             0
               0             0             0             0             0             0
0             0             0             0
               0             0             0             0             0             0
0             0             0             0
               0             0             0             0             0             0
0             0             0             0
               0             0             0             0             0             0
0             0             0             0
               0             0             0             0             0             0
0             0             0             0
               0             0             0             0             0             0
0             0             0             0
3              0             0             0             0             0             0
0             0             0             0
               0             0             0             0             1             1
1             1             1             1
               1             1             1             1             1             1
1             1             1             1
               1             1             1             1             1             1
1             1             1             1
               1             1             1             1             1             1
1             1             1             1
               1             1             1             1             1             1
1             0             0             0
               0             0             0             0             0             0
0             0             0             0
               0             0             0             0             0             0
0             0             0             0
               0             0             0             0             0             0
0             0             0             0
               0             0             0             0             0             0
0             0             0             0
4              0             0             0             0             0             0
0             0             0             0
               0             0             0             0             1             1
1             1             1             1
               1             1             1             1             1             1
1             1             1             1
               1             1             1             1             1             1
1             1             1             1
               1             1             1             1             1             1
1             1             1             1
               1             1             1             1             1             1
1             0             0             0
               0             0             0             0             0             0
0             0             0             0
               0             0             0             0             0             0
0             0             0             0
               0             0             0             0             0             0
0             0             0             0
               0             0             0             0             0             0
0             0             0             0
5              0             0             0             0             0             0
0             0             0             0
```

```
              0              0              0              0              0              1
1             1              1              1
              1              1              1              1              1              1
1             1              1              1
              1              1              1              1              1              1
1             1              1              1
              1              1              1              1              1              1
1             1              1              1
              1              1              1              1              1              1
1             0              0              0
              0              0              0              0              0              0
0             0              0              0
              0              0              0              0              0              0
0             0              0              0
              0              0              0              0              0              0
0             0              0              0
              0              0              0              0              0              0
0             0              0              0
6             0              0              0              0              0              0
0             0              0              0
              0              0              0              0              0              1
1             1              1              1
              1              1              1              1              1              1
1             1              1              1
              1              1              1              1              1              1
1             1              1              1
              1              1              1              1              1              1
1             1              1              1
              1              1              1              1              1              1
1             0              0              0
              0              0              0              0              0              0
0             0              0              0
              0              0              0              0              0              0
0             0              0              0
              0              0              0              0              0              0
0             0              0              0
              0              0              0              0              0              0
0             0              0              0
7             0              0              0              0              0              0
0             0              0              0
              0              0              0              0              0              0
1             1              1              1
              1              1              1              1              1              1
1             1              1              1
              1              1              1              1              1              1
1             1              1              1
              1              1              1              1              1              1
1             1              1              1
              1              1              1              1              1              1
1             0              0              0
              0              0              0              0              0              0
0             0              0              0
              0              0              0              0              0              0
0             0              0              0
              0              0              0              0              0              0
0             0              0              0
              0              0              0              0              0              0
0             0              0              0
8             0              0              0              0              0              0
0             0              0              0
              0              0              0              0              0              0
1             1              1              1
              1              1              1              1              1              1
```

```
 1           1           1           1
              1           1           1           1            1           1
 1           1           1           1
              1           1           1           1            1           1
 1           1           1           1
              1           1           1           1            1           1
 1           0           0           0
              0           0           0           0            0           0
 0           0           0           0
              0           0           0           0            0           0
 0           0           0           0
              0           0           0           0            0           0
 0           0           0           0
              0           0           0           0            0           0
 0           0           0           0
 9            0           0           0           0            0           0
 0           0           0           0
              0           0           0           0            0           0
 0           1           1           1
              1           1           1           1            1           1
 1           1           1           1
              1           1           1           1            1           1
 1           1           1           1
              1           1           1           1            1           1
 1           1           1           1
              1           1           1           1            1           1
 1           0           0           0
              0           0           0           0            0           0
 0           0           0           0
              0           0           0           0            0           0
 0           0           0           0
              0           0           0           0            0           0
 0           0           0           0
              0           0           0           0            0           0
 0           0           0           0
10            0           0           0           0            0           0
 0           0           0           0
              0           0           0           0            0           0
 0           0           1           1
              1           1           1           1            1           1
 1           1           1           1
              1           1           1           1            1           1
 1           1           1           1
              1           1           1           1            1           1
 1           1           1           1
              1           1           1           1            1           1
 1           0           0           0
              0           0           0           0            0           0
 0           0           0           0
              0           0           0           0            0           0
 0           0           0           0
              0           0           0           0            0           0
 0           0           0           0
              0           0           0           0            0           0
 0           0           0           0
11            0           0           0           0            0           0
 0           0           0           0
              0           0           0           0            0           0
 0           0           1           1
              1           1           1           1            1           1
 1           1           1           1
              1           1           1           1            1           1
 1           1           1           1
```

```
             1            1            1            1            1            1
 1          1            1            1
             1            1            1            1            1            1
 1          0            0            0
             0            0            0            0            0            0
 0          0            0            0
             0            0            0            0            0            0
 0          0            0            0
             0            0            0            0            0            0
 0          0            0            0
             0            0            0            0            0            0
 0          0            0            0
12           0            0            0            0            0            0
 0          0            0            0
             0            0            0            0            0            0
 0          0            0            1
             1            1            1            1            1            1
 1          1            1            1
             1            1            1            1            1            1
 1          1            1            1
             1            1            1            1            1            1
 1          1            1            1
             1            1            1            1            1            1
 1          0            0            0
             0            0            0            0            0            0
 0          0            0            0
             0            0            0            0            0            0
 0          0            0            0
             0            0            0            0            0            0
 0          0            0            0
             0            0            0            0            0            0
 0          0            0            0
13           0            0            0            0            0            0
 0          0            0            0
             0            0            0            0            0            0
 0          0            0            1
             1            1            1            1            1            1
 1          1            1            1
             1            1            1            1            1            1
 1          1            1            1
             1            1            1            1            1            1
 1          1            1            1
             1            1            1            1            1            1
 1          0            0            0
             0            0            0            0            0            0
 0          0            0            0
             0            0            0            0            0            0
 0          0            0            0
             0            0            0            0            0            0
 0          0            0            0
             0            0            0            0            0            0
 0          0            0            0
14           0            0            0            0            0            0
 0          0            0            0
             0            0            0            0            0            0
 0          0            0            0
             1            1            1            1            1            1
 1          1            1            1
             1            1            1            1            1            1
 1          1            1            1
             1            1            1            1            1            1
 1          1            1            1
             1            1            1            1            1            1
```

```
    0           0           0           0
                 0           0           0           0           0           0
    0           0           0           0
                 0           0           0           0           0           0
    0           0           0           0
                 0           0           0           0           0           0
    0           0           0           0
                 0           0           0           0           0           0
    0           0           0           0
   15            0           0           0           0           0           0
    0           0           0           0
                 0           0           0           0           0           0
    0           0           0           0
                 1           1           1           1           1           1
    1           1           1           1
                 1           1           1           1           1           1
    1           1           1           1
                 1           1           1           1           1           1
    1           1           1           1
                 1           1           1           1           1           1
    0           0           0           0
                 0           0           0           0           0           0
    0           0           0           0
                 0           0           0           0           0           0
    0           0           0           0
                 0           0           0           0           0           0
    0           0           0           0
                 0           0           0           0           0           0
    0           0           0           0
   16            0           0           0           0           0           0
    0           0           0           0
                 0           0           0           0           0           0
    0           0           0           0
                 0           1           1           1           1           1
    1           1           1           1
                 1           1           1           1           1           1
    1           1           1           1
                 1           1           1           1           1           1
    1           1           1           1
                 1           1           1           1           1           1
    0           0           0           0
                 0           0           0           0           0           0
    0           0           0           0
                 0           0           0           0           0           0
    0           0           0           0
                 0           0           0           0           0           0
    0           0           0           0
                 0           0           0           0           0           0
    0           0           0           0
   17            0           0           0           0           0           0
    0           0           0           0
                 0           0           0           0           0           0
    0           0           0           0
                 0           1           1           1           1           1
    1           1           1           1
                 1           1           1           1           1           1
    1           1           1           1
                 1           1           1           1           1           1
    1           1           1           1
                 1           1           1           1           1           1
    1           1           1           1
                 1           1           1           1           1           1
    1           0           0           0
```

```
                 0          0          0          0          0          0
     0          0          0          0
                 0          0          0          0          0          0
     0          0          0          0
                 0          0          0          0          0          0
     0          0          0          0
    18           0          0          0          0          0          0
     0          0          0          0
                 0          0          0          0          0          0
     0          0          0          0
                 0          0          1          1          1          1
     1          1          1          1
                 1          1          1          1          1          1
     1          1          1          1
                 1          1          1          1          1          1
     1          1          1          1
                 1          1          1          1          1          1
     1          1          1          1
                 1          1          1          1          1          1
     1          1          1          1
                 1          1          1          1          0          0
     0          0          0          0
                 0          0          0          0          0          0
     0          0          0          0
                 0          0          0          0          0          0
     0          0          0          0
    19           0          0          0          0          0          0
     0          0          0          0
                 0          0          0          0          0          0
     0          0          0          0
                 0          0          0          1          1          1
     1          1          1          1
                 1          1          1          1          1          1
     1          1          1          1
                 1          1          1          1          1          1
     1          1          1          1
                 1          1          1          1          1          1
     1          1          1          1
                 1          1          1          1          1          1
     1          1          1          1
                 1          1          1          1          1          0
     0          0          0          0
                 0          0          0          0          0          0
     0          0          0          0
                 0          0          0          0          0          0
     0          0          0          0
    20           0          0          0          0          0          0
     0          0          0          0
                 0          0          0          0          0          0
     0          0          0          0
                 0          0          0          1          1          1
     1          1          1          1
                 1          1          1          1          1          1
     1          1          1          1
                 1          1          1          1          1          1
     1          1          1          1
                 1          1          1          1          1          1
     1          1          1          1
                 1          1          1          1          1          1
     1          1          1          1
                 1          1          1          1          1          0
     0          0          0          0
                 0          0          0          0          0          0
```

```
 0          0           0           0
               0           0           0           0           0           0
 0          0           0           0
21             0           0           0           0           0           0
 0          0           0           0
               0           0           0           0           0           0
 0          0           0           0
               0           0           0           0           1           1
 1          1           1           1
               1           1           1           1           1           1
 1          1           1           1
               1           1           1           1           1           1
 1          1           1           1
               1           1           1           1           1           1
 1          1           1           1
               1           1           1           1           1           1
 1          1           1           1
               1           1           1           1           1           1
 0          0           0           0
               0           0           0           0           0           0
 0          0           0           0
               0           0           0           0           0           0
 0          0           0           0
22             0           0           0           0           0           0
 0          0           0           0
               0           0           0           0           0           0
 0          0           0           0
               0           0           0           0           1           1
 1          1           1           1
               1           1           1           1           1           1
 1          1           1           1
               1           1           1           1           1           1
 1          1           1           1
               1           1           1           1           1           1
 1          1           1           1
               1           1           1           1           1           1
 1          1           1           1
               1           1           1           1           1           1
 1          0           0           0
               0           0           0           0           0           0
 0          0           0           0
               0           0           0           0           0           0
 0          0           0           0
23             0           0           0           0           0           0
 0          0           0           0
               0           0           0           0           0           0
 0          0           0           0
               0           0           0           0           0           1
 1          1           1           1
               1           1           1           1           1           1
 1          1           1           1
               1           1           1           1           1           1
 1          1           1           1
               1           1           1           1           1           1
 1          1           1           1
               1           1           1           1           1           1
 1          1           1           1
               1           1           1           1           1           1
 1          0           0           0
               0           0           0           0           0           0
 0          0           0           0
               0           0           0           0           0           0
 0          0           0           0
```

```
24         0          0          0          0          0          0
 0        0          0          0
           0          0          0          0          0          0
 0        0          0          0
           0          0          0          0          0          1
 1        1          1          1
           1          1          1          1          1          1
 1        1          1          1
           1          1          1          1          1          1
 1        1          1          1
           1          1          1          1          1          1
 1        1          1          1
           1          1          1          1          1          1
 1        1          1          1
           1          1          1          1          1          1
 1        1          0          0
           0          0          0          0          0          0
 0        0          0          0
           0          0          0          0          0          0
 0        0          0          0
25         0          0          0          0          0          0
 0        0          0          0
           0          0          0          0          0          0
 0        0          0          0
           0          0          0          0          0          0
 1        1          1          1
           1          1          1          1          1          1
 1        1          1          1
           1          1          1          1          1          1
 1        1          1          1
           1          1          1          1          1          1
 1        1          1          1
           1          1          1          1          1          1
 1        1          1          1
           1          1          1          1          1          1
 1        1          1          0
           0          0          0          0          0          0
 0        0          0          0
           0          0          0          0          0          0
 0        0          0          0
26         0          0          0          0          0          0
 0        0          0          0
           0          0          0          0          0          0
 0        0          0          0
           0          0          0          0          0          0
 1        1          1          1
           1          1          1          1          1          1
 1        1          1          1
           1          1          1          1          1          1
 1        1          1          1
           1          1          1          1          1          1
 1        1          1          1
           1          1          1          1          1          1
 1        1          1          1
           1          1          1          1          1          1
 1        1          1          0
           0          0          0          0          0          0
 0        0          0          0
           0          0          0          0          0          0
 0        0          0          0
27         0          0          0          0          0          0
 0        0          0          0
           0          0          0          0          0          0
```

```
   0           0           0           0
               0           0           0           0           0           0
   0           1           1           1
               1           1           1           1           1           1
   1           1           1           1
               1           1           1           1           1           1
   1           1           1           1
               1           1           1           1           1           1
   1           1           1           1
               1           1           1           1           1           1
   1           1           1           1
               1           1           1           1           1           1
   1           1           1           1
               0           0           0           0           0           0
   0           0           0           0
               0           0           0           0           0           0
   0           0           0           0
  28           0           0           0           0           0           0
   0           0           0           0
               0           0           0           0           0           0
   0           0           0           0
               0           0           0           0           0           0
   0           0           1           1
               1           1           1           1           1           1
   1           1           1           1
               1           1           1           1           1           1
   1           1           1           1
               1           1           1           1           1           1
   1           1           1           1
               1           1           1           1           1           1
   1           1           1           1
               1           1           1           1           1           1
   1           1           1           1
               0           0           0           0           0           0
   0           0           0           0
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   0           0           0           0
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 0          0          0          0
33        0          0          0          0          0          0
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 0          0          0          0
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          1          1          1          1          1          1
```

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```

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0        0         0         0
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0        0         0         0
38       0         0         0         0         0         0
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0        0         0         0
39       0         0         0         0         0         0
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```

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0 0 0 0
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0 0 0 0
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0 0 0 0
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1 1 0 0
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0 0 0 0
41 0 0 0 0 0 0
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0 0 0 0
42 0 0 0 0 0 0
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1 1 1 1
```

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43            0          0          0          0          0          0
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 0          0          0          0
46            0          0          0          0          0          0
```

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  0         0         0         0
```

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52         0           0           0           0           0           0
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           1           1           1           1           1           1
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    1           1           1           1
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              1          1          1          1          1          1
```

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     1            1            1            1
```

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   0         0         0         0
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   0         0         0         0
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 0          0          0          0
65           0          0          0          0          0          0
 0          0          0          0
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66           0          0          0          0          0          0
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 0          0          0          0
67           0          0          0          0          0          0
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 0          0          0          0
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 0          0          0          0
68           0          0          0          0          0          0
 0          0          0          0
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     0          0          0          0
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```

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 0          0          0          0
72           0          0          0          0          0          0
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73           0          0          0          0          0          0
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74           0          0          0          0          0          0
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81           0           0           0           0           0           0
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82           0           0           0           0           0           0
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83           0           0           0           0           0           0
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0      0      0      0
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0      0      0      0
84     0      0      0      0      0      0
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0      0      0      0
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0      0      0      0
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0      0      0      0
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0      0      0      0
       0      0      0      0      0      0
0      0      0      0
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0      0      0      0
85     0      0      0      0      0      0
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0      0      0      0
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0      0      0      0
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86     0      0      0      0      0      0
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1      1      1      1
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0      0      0      0
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       0      0      0      0      0      0
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87      0      0      0      0      0      0
 0      0      0      0
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88      0      0      0      0      0      0
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90      0      0      0      0      0      0
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```

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 0           0           0           0
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91            0           0           0           0           0           0
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92            0           0           0           0           0           0
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93            0           0           0           0           0           0
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94        0          0          0          0          0          0
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95        0          0          0          0          0          0
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96        0          0          0          0          0          0
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```

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97            0          0          0          0          0          0
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98            0          0          0          0          0          0
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                   1          2          3          4          5          6
        7         8          9         10
                  11         12         13         14         15         16
       17        18         19         20
                  21         22         23         24         25         26
       27        28         29         30
                  31         32         33         34         35         36
       37        38         39         40
                  41         42         43         44         45         46
       47        48         49         50
                  51         52         53         54         55         56
       57        58         59         60
                  61         62         63         64         65         66
       67        68         69         70
                  71         72         73         74         75         76
       77        78         79         80
                  81         82         83         84         85         86
       87        88         89         90
                  91         92         93         94         95         96
       97        98         99        100

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```

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   0         0          0          0
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   0         0          0          0
              0          0          0          0          0          0
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33           0         0         0         0         0         0
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55           0          0          0          0          0          0
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58         0          0          0          0          0          0
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 0           0           0           0
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70            0           0           0           0           0           0
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```

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 0      0      0      0
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 0      0      0      0
77       0      0      0      0      0      0
 0      0      0      0
         0      0      0      0      0      0
```

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78           0          0          0          0          0          0
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79           0          0          0          0          0          0
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 0          0          0          0
80           0          0          0          0          0          0
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 0          0          0          0
             0          0          0          0          0          0
 0          0          0          0
```

```
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    83        0         0         0         0         0         0
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```

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0 0 0 0
```

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```

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 0          0          0          0
91            0          0          0          0          0          0
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92            0          0          0          0          0          0
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 0          0          0          0
```

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```

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99            0           0           0           0           0           0
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 0           0           0           0
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           11          12          13          14          15          16
 17       18          19          20
           21          22          23          24          25          26
 27       28          29          30
           31          32          33          34          35          36
 37       38          39          40
           41          42          43          44          45          46
 47       48          49          50
           51          52          53          54          55          56
 57       58          59          60
           61          62          63          64          65          66
 67       68          69          70
           71          72          73          74          75          76
 77       78          79          80
           81          82          83          84          85          86
 87       88          89          90
           91          92          93          94          95          96
 97       98          99         100

..............................................................................
..........................................
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```

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1           1           1           1
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1           1           1           1
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0           0           0           0
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0           0           0           0
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0           0           0           0
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0           0           0           0
4            0           0           0           0           0           0
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1           1           1           1
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1           1           1           1
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0           0           0           0
5               0           0           0           0           0           0
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0           0           0           0
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0           0           0           0
7               0           0           0           0           0           0
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     1          0          0          0
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13        0         0         0         0         0         0
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 0        0         0         0
          0         0         0         0         0         0
```

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  0            0            0            0
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  0            0            0            0
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  0            0            0            0
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17               0         0         0         0         0         0
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 0         0         0         0
20               0         0         0         0         0         0
```

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     0           0           0           0
    23            0           0           0           0           0           0
     0           0           0           0
                  0           0           0           0           0           0
     0           0           0           0
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24            0           0           0           0           0           0
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25            0           0           0           0           0           0
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 0           0           0           0
26            0           0           0           0           0           0
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 1           1           1           1
              1           1           1           1           1           1
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      1           1           1           1
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      0           0           0           0
     27            0           0           0           0           0           0
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 1          1          1          1
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33            0          0          0          0          0          0
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34            0          0          0          0          0          0
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35            0          0          0          0          0          0
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 1          1          1          1
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 1          1          1          1
```

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            1          1          1          1          1          0
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 0          0          0          0
36          0          0          0          0          0          0
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 0          0          0          0
37          0          0          0          0          0          0
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 0          0          0          0
38          0          0          0          0          0          0
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 1          0          0          0
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 0           0           0           0
39           0           0           0           0           0           0
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40           0           0           0           0           0           0
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41           0           0           0           0           0           0
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 0           0           0           0
42           0           0           0           0           0           0
 0           0           0           0
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       0        0         0         0
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     1          1          1          1
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   0          0          0          0
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   1          1          1          1
              1          1          1          1          1          1
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   1           1           1           1
```

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    1         1         1         1
              1         0         0         0         0         0
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 0            0            0            0
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 0            0            0            0
58             0            0            0            0            0            0
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 0            0            0            0
59             0            0            0            0            0            0
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 0            0            0            0
60             0            0            0            0            0            0
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 0            0            0            0
               0            0            0            0            0            0
 0            0            0            0
```

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61        0        0        0        0        0        0
 0        0        0        0
          0        0        0        0        0        0
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63        0        0        0        0        0        0
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          1        0        0        0        0        0
 0        0        0        0
          0        0        0        0        0        0
 0        0        0        0
64        0        0        0        0        0        0
 0        0        0        0
          0        0        0        0        0        0
```

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 0          0          0          0
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67           0          0          0          0          0          0
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68         0          0          0          0          0          0
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69         0          0          0          0          0          0
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70         0          0          0          0          0          0
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76        0         0         0         0         0         0
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83              0           0           0           0           0           0
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```

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90           0          0          0          0          0          0
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7 8 9 10
11 12 13 14 15 16
17 18 19 20
21 22 23 24 25 26
27 28 29 30
31 32 33 34 35 36
37 38 39 40
41 42 43 44 45 46
47 48 49 50
51 52 53 54 55 56
57 58 59 60
61 62 63 64 65 66
67 68 69 70
71 72 73 74 75 76
77 78 79 80
81 82 83 84 85 86
87 88 89 90

```
                    91                  92                  93                  94                  95                  96
     97             98                  99                 100

.......................................................................................
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0          0          0          0
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0          0          0          0
7               0          0          0          0          0          0
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29            0           0           0           0           0           0
 0           0           0           0
```

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0 0 0 0
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0 0 0 0
46 0 0 0 0 0 0
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0 0 0 0
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0 0 0 0
47 0 0 0 0 0 0
0 0 0 0
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1 1 1 1
1 1 1 0 0 0
0 0 0 0
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 0      0       0       0
51      0       0       0       0       0       0
 0      0       0       0
        0       0       0       0       0       0
```

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     0             0             0             0
    54              0             0             0             0             0             0
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     0             0             1             1
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 0            0            0            0
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 0            0            0            0
57             0            0            0            0            0            0
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 1            1            1            1
               1            1            1            1            1            1
```

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     1          1          1          1
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    60           0          0          0          0          0          0
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     1          1          1          1
```

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0         0         0         0
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0         0         0         0
62        0         0         0         0         0         0
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0         0         0         0
63        0         0         0         0         0         0
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1         1         1         1
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1         1         1         1
          1         1         1         1         1         1
```

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 1            1            1            1
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 0            0            0            0
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 0            0            0            0
64             0            0            0            0            0            0
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 0            0            0            0
65             0            0            0            0            0            0
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66             0            0            0            0            0            0
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 0            0            0            0
```

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67               0           0           0           0           0           0
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68               0           0           0           0           0           0
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 0          0           0           0
70               0           0           0           0           0           0
```

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    0          0          0          0
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 0        0         0         0
74        0         0         0         0         0         0
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75        0         0         0         0         0         0
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76        0         0         0         0         0         0
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 0        0         0         0
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 0        0         0         0
          0         0         0         0         0         1
```

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     0            0            0            0
    77              0            0            0            0            0            0
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     0            0            0            0
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     0            0            0            0
    79              0            0            0            0            0            0
     0            0            0            0
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     1            1            1            1
```

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83 0 0 0 0 0 0
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90            0           0           0           0           0           0
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 0           0           0           0
91            0           0           0           0           0           0
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92            0           0           0           0           0           0
 0           0           0           0
```

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0           0           0           0

            1           2           3           4           5           6
7           8           9          10
           11          12          13          14          15          16
17         18          19          20
           21          22          23          24          25          26
27         28          29          30
           31          32          33          34          35          36
37         38          39          40
           41          42          43          44          45          46
47         48          49          50
```

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             51        52        53        54        55        56
   57        58        59        60
             61        62        63        64        65        66
   67        68        69        70
             71        72        73        74        75        76
   77        78        79        80
             81        82        83        84        85        86
   87        88        89        90
             91        92        93        94        95        96
   97        98        99       100

.........................................................................
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```

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0       0         0         0
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0       0         0         0
        0         0         0         0         0         0
0       0         0         0
        0         0         0         0         0         0
0       0         0         0
11      0         0         0         0         0         0
0       0         0         0
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0       0         1         1
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1       1         1         1
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0       0         0         0
        0         0         0         0         0         0
0       0         0         0
        0         0         0         0         0         0
0       0         0         0
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0       0         0         0
12      0         0         0         0         0         0
0       0         0         0
        0         0         0         0         0         0
0       0         0         1
        1         1         1         1         1         1
1       1         1         1
        1         1         1         1         1         1
1       1         1         1
        1         1         1         1         1         1
1       1         1         1
        1         1         1         1         1         1
1       0         0         0
        0         0         0         0         0         0
0       0         0         0
        0         0         0         0         0         0
0       0         0         0
        0         0         0         0         0         0
0       0         0         0
        0         0         0         0         0         0
```

```
 0          0          0          0
13           0          0          0          0          0          0
 0          0          0          0
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             0          0          0          0          0          0
 0          0          0          0
             0          0          0          0          0          0
 0          0          0          0
             0          0          0          0          0          0
 0          0          0          0
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 0          0          0          0
14           0          0          0          0          0          0
 0          0          0          0
             0          0          0          0          0          0
 0          0          0          0
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 0          0          0          0
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 0          0          0          0
15           0          0          0          0          0          0
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 0          0          0          0
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 0          0          0          0
             0          0          0          0          0          0
 0          0          0          0
             0          0          0          0          0          0
 0          0          0          0
16           0          0          0          0          0          0
 0          0          0          0
```

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     0         0          0          0
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     0         0          0          0
    19          0          0          0          0          0          0
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                0          0          0          0          0          0
     0         0          0          0
                0          0          0          1          1          1
```

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21 0 0 0 0 0 0
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0 0 0 0 0 0
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0 0 0 0 1 1
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1 1 1 1
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22 0 0 0 0 0 0
0 0 0 0
0 0 0 0 0 0
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0 0 0 0 1 1
1 1 1 1
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1 1 1 1
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```
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  0          0           0           0
             0           0           0           0           0           0
  0          0           0           0
 23          0           0           0           0           0           0
  0          0           0           0
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  1          1           1           1
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  0          0           0           0
 24          0           0           0           0           0           0
  0          0           0           0
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  0          0           0           0
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  0          0           0           0
 25          0           0           0           0           0           0
  0          0           0           0
             0           0           0           0           0           0
  0          0           0           0
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             1           1           1           1           1           1
```

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 1          1          1          1
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 0          0          0          0
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 0          0          0          0
26            0          0          0          0          0          0
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 0          0          0          0
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 0          0          0          0
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 0          0          0          0
27            0          0          0          0          0          0
 0          0          0          0
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28            0          0          0          0          0          0
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 1          1          1          1
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 1          1          1          1
```

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29            0           0           0           0           0           0
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 0          0           0           0
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 0          0           0           0
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 0          0           0           0
30            0           0           0           0           0           0
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 0          0           0           0
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31            0           0           0           0           0           0
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```

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0 0 0 0
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0 0 0 0
33 0 0 0 0 0 0
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0 0 0 0
34 0 0 0 0 0 0
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1 1 1 1
 1 1 1 1 0 0
0 0 0 0
 0 0 0 0 0 0
0 0 0 0
```

```
35            0            0            0            0            0            0
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 0           0            0            0
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 0           0            0            0
36            0            0            0            0            0            0
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 0           0            0            0
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 0           0            0            0
37            0            0            0            0            0            0
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 1           1            1            1
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 1           1            1            1
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              0            0            0            0            0            0
 0           0            0            0
38            0            0            0            0            0            0
 0           0            0            0
              0            0            0            0            0            0
```

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   0          0          0          0
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   0          0          0          1
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   0          0          0          0
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   1          1          1          1
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               0          0          0          0          0          0
   0          0          0          0
  41           0          0          0          0          0          0
   0          0          0          0
               0          0          0          0          0          0
   0          0          0          0
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   0          0          0          1
```

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                 1          1          1          1          1          1
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  0          0          0          0
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  0          0          0          0
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  0          0          0          0
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0 0 0 0
46 0 0 0 0 0 0
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0 0 0 0
47 0 0 0 0 0 0
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0 0 1 1
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1 1 1 1 1 1
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1 1 1 1
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               1          1          1          1          1          1
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     0         0          0          0
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     1         1          1          1
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```

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 1          1          1          1
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 1          1          1          0
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 0          0          0          0
51           0          0          0          0          0          0
 0          0          0          0
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 1          1          1          1
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 0          0          0          0
52           0          0          0          0          0          0
 0          0          0          0
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 0          0          0          0
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 0          0          0          0
53           0          0          0          0          0          0
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 0          0          0          0
```

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0     0     0     0
54        0     0     0     0     0     0
0     0     0     0
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1     1     1     1
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1     1     1     1
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1     1     1     1
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0     0     0     0
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1     1     1     1
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0     0     0     0
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0     0     0     0
56        0     0     0     0     0     0
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1     1     1     1
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1     1     1     1
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1     1     1     1
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1     1     1     1
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0     0     0     0
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0     0     0     0
57        0     0     0     0     0     0
```

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   60            0           0           0           0           0           0
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    0           0           0           0
```

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0           0           0           0
61          0           0           0           0           0           0
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0           0           0           0
62          0           0           0           0           0           0
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0           0           0           0
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0           0           0           0
63          0           0           0           0           0           0
0           0           0           0
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0           0           0           0
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0           1           1           1
            1           1           1           1           1           1
```

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   0            0            0            0
  65             0            0            0            0            0            0
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   1            1            1            1
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   1            1            1            1
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   1            1            1            1
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   1            1            1            1
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   0            0            0            0
                 0            0            0            0            0            0
   0            0            0            0
  66             0            0            0            0            0            0
   0            0            0            0
                 0            0            0            0            0            0
   0            0            0            0
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   0            1            1            1
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   1            1            1            1
                 1            1            1            1            1            1
   1            1            1            1
```

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  0         0          0          0
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  0         0          0          0
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  0         0          0          0
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  0         0          0          0
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  1         1          1          1
            1          1          1          1          1          1
```

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 1           1           1           1
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 1           1           1           1
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 0           0           0           0
70             0           0           0           0           0           0
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72             0           0           0           0           0           0
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 1           1           1           1
```

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      0    0    0    0    0    0
 0    0    0    0
      0    0    0    0    0    0
 0    0    0    0
73    0    0    0    0    0    0
 0    0    0    0
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 0    0    0    0
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 0    0    0    0
74    0    0    0    0    0    0
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75    0    0    0    0    0    0
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      1    1    1    1    1    0
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      0    0    0    0    0    0
 0    0    0    0
      0    0    0    0    0    0
```

```
 0          0          0          0
76           0          0          0          0          0          0
 0          0          0          0
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77           0          0          0          0          0          0
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78           0          0          0          0          0          0
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 0          0          0          0
79           0          0          0          0          0          0
 0          0          0          0
```

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```

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 1 2 3 4 5 6
7 8 9 10
```

```
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              21          22          23          24          25          26
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  47         48          49          50
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  57         58          59          60
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  67         68          69          70
              71          72          73          74          75          76
  77         78          79          80
              81          82          83          84          85          86
  87         88          89          90
              91          92          93          94          95          96
  97         98          99         100

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.........................................
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1 1 1 1

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          1         1         1         1         1         1
1         1         1         1
          1         1         1         1         0         0
0         0         0         0
          0         0         0         0         0         0
```

```
 0          0          0          0
             0          0          0          0          0          0
 0          0          0          0
19           0          0          0          0          0          0
 0          0          0          0
             0          0          0          0          0          0
 0          0          0          0
             0          0          0          1          1          1
 1          1          1          1
             1          1          1          1          1          1
 1          1          1          1
             1          1          1          1          1          1
 1          1          1          1
             1          1          1          1          1          1
 1          1          1          1
             1          1          1          1          1          1
 1          1          1          1
             1          1          1          1          1          0
 0          0          0          0
             0          0          0          0          0          0
 0          0          0          0
             0          0          0          0          0          0
 0          0          0          0
20           0          0          0          0          0          0
 0          0          0          0
             0          0          0          0          0          0
 0          0          0          0
             0          0          0          1          1          1
 1          1          1          1
             1          1          1          1          1          1
 1          1          1          1
             1          1          1          1          1          1
 1          1          1          1
             1          1          1          1          1          1
 1          1          1          1
             1          1          1          1          1          1
 1          1          1          1
             1          1          1          1          1          0
 0          0          0          0
             0          0          0          0          0          0
 0          0          0          0
             0          0          0          0          0          0
 0          0          0          0
21           0          0          0          0          0          0
 0          0          0          0
             0          0          0          0          0          0
 0          0          0          0
             0          0          0          0          1          1
 1          1          1          1
             1          1          1          1          1          1
 1          1          1          1
             1          1          1          1          1          1
 1          1          1          1
             1          1          1          1          1          1
 1          1          1          1
             1          1          1          1          1          1
 1          1          1          1
             1          1          1          1          1          1
 0          0          0          0
             0          0          0          0          0          0
 0          0          0          0
             0          0          0          0          0          0
 0          0          0          0
```

```
22   0   0   0   0   0   0
 0   0   0   0
     0   0   0   0   0   0
 0   0   0   0
     0   0   0   0   1   1
 1   1   1   1
     1   1   1   1   1   1
 1   1   1   1
     1   1   1   1   1   1
 1   1   1   1
     1   1   1   1   1   1
 1   1   1   1
     1   1   1   1   1   1
 1   1   1   1
     1   1   1   1   1   1
 1   0   0   0
     0   0   0   0   0   0
 0   0   0   0
     0   0   0   0   0   0
 0   0   0   0
23   0   0   0   0   0   0
 0   0   0   0
     0   0   0   0   0   0
 0   0   0   0
     0   0   0   0   0   1
 1   1   1   1
     1   1   1   1   1   1
 1   1   1   1
     1   1   1   1   1   1
 1   1   1   1
     1   1   1   1   1   1
 1   1   1   1
     1   1   1   1   1   1
 1   1   1   1
     1   1   1   1   1   1
 1   0   0   0
     0   0   0   0   0   0
 0   0   0   0
     0   0   0   0   0   0
 0   0   0   0
24   0   0   0   0   0   0
 0   0   0   0
     0   0   0   0   0   0
 0   0   0   0
     0   0   0   0   0   1
 1   1   1   1
     1   1   1   1   1   1
 1   1   1   1
     1   1   1   1   1   1
 1   1   1   1
     1   1   1   1   1   1
 1   1   1   1
     1   1   1   1   1   1
 1   1   1   1
     1   1   1   1   1   1
 1   1   0   0
     0   0   0   0   0   0
 0   0   0   0
     0   0   0   0   0   0
 0   0   0   0
25   0   0   0   0   0   0
 0   0   0   0
     0   0   0   0   0   0
```

```
    0            0            0            0
                   0            0            0            0            0            0
    1            1            1            1
                   1            1            1            1            1            1
    1            1            1            1
                   1            1            1            1            1            1
    1            1            1            1
                   1            1            1            1            1            1
    1            1            1            1
                   1            1            1            1            1            1
    1            1            1            1
                   1            1            1            1            1            1
    1            1            1            0
                   0            0            0            0            0            0
    0            0            0            0
                   0            0            0            0            0            0
    0            0            0            0
   26              0            0            0            0            0            0
    0            0            0            0
                   0            0            0            0            0            0
    0            0            0            0
                   0            0            0            0            0            0
    1            1            1            1
                   1            1            1            1            1            1
    1            1            1            1
                   1            1            1            1            1            1
    1            1            1            1
                   1            1            1            1            1            1
    1            1            1            1
                   1            1            1            1            1            1
    1            1            1            1
                   1            1            1            1            1            1
    1            1            1            0
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    0            0            0            0
                   0            0            0            0            0            0
    0            0            0            0
   27              0            0            0            0            0            0
    0            0            0            0
                   0            0            0            0            0            0
    0            0            0            0
                   0            0            0            0            0            0
    0            1            1            1
                   1            1            1            1            1            1
    1            1            1            1
                   1            1            1            1            1            1
    1            1            1            1
                   1            1            1            1            1            1
    1            1            1            1
                   1            1            1            1            1            1
    1            1            1            1
                   1            1            1            1            1            1
    1            1            1            1
                   0            0            0            0            0            0
    0            0            0            0
                   0            0            0            0            0            0
    0            0            0            0
   28              0            0            0            0            0            0
    0            0            0            0
                   0            0            0            0            0            0
    0            0            0            0
                   0            0            0            0            0            0
    0            0            1            1
```

```
               1           1           1           1           1           1
   1           1           1           1
               1           1           1           1           1           1
   1           1           1           1
               1           1           1           1           1           1
   1           1           1           1
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   1           1           1           1
               1           1           1           1           1           1
   1           1           1           1
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   0           0           0           0
               0           0           0           0           0           0
   0           0           0           0
  29           0           0           0           0           0           0
   0           0           0           0
               0           0           0           0           0           0
   0           0           0           0
               0           0           0           0           0           0
   0           0           1           1
               1           1           1           1           1           1
   1           1           1           1
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   1           1           1           1
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   1           1           1           1
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   1           1           1           1
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   0           0           0           0
               0           0           0           0           0           0
   0           0           0           0
  30           0           0           0           0           0           0
   0           0           0           0
               0           0           0           0           0           0
   0           0           0           0
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   1           1           1           1
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   0           0           0           0
               0           0           0           0           0           0
   0           0           0           0
  31           0           0           0           0           0           0
   0           0           0           0
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   0           0           0           0
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   0           0           0           1
               1           1           1           1           1           1
   1           1           1           1
               1           1           1           1           1           1
```

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     1         1         1         1
                1         1         1         1         1         1
     1         1         1         1
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     1         1         1         1
                1         1         1         1         1         1
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     0         0         0         0
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     0         0         0         0
    32          0         0         0         0         0         0
     0         0         0         0
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     0         0         0         0
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     0         0         0         1
                1         1         1         1         1         1
     1         1         1         1
                1         1         1         1         1         1
     1         1         1         1
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     1         1         1         1
                1         1         1         1         1         1
     1         1         1         1
                1         1         1         1         1         1
     1         1         1         1
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     0         0         0         0
                0         0         0         0         0         0
     0         0         0         0
    33          0         0         0         0         0         0
     0         0         0         0
                0         0         0         0         0         0
     0         0         0         0
                0         0         0         0         0         0
     0         0         0         1
                1         1         1         1         1         1
     1         1         1         1
                1         1         1         1         1         1
     1         1         1         1
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     1         1         1         1
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     1         1         1         1
                1         1         1         1         1         1
     1         1         1         1
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     0         0         0         0
                0         0         0         0         0         0
     0         0         0         0
    34          0         0         0         0         0         0
     0         0         0         0
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     0         0         0         0
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     1         1         1         1
                1         1         1         1         1         1
     1         1         1         1
                1         1         1         1         1         1
     1         1         1         1
```

```
             1           1           1           1           1           1
 1           1           1           1
             1           1           1           1           1           1
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             1           1           1           1           0           0
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 0           0           0           0
35           0           0           0           0           0           0
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 0           0           0           0
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 1           1           1           1
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 1           1           1           1
             1           1           1           1           1           1
 1           1           1           1
             1           1           1           1           1           0
 0           0           0           0
             0           0           0           0           0           0
 0           0           0           0
36           0           0           0           0           0           0
 0           0           0           0
             0           0           0           0           0           0
 0           0           0           0
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 1           1           1           1
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 1           1           1           1
             1           1           1           1           1           1
 0           0           0           0
             0           0           0           0           0           0
 0           0           0           0
37           0           0           0           0           0           0
 0           0           0           0
             0           0           0           0           0           0
 0           0           0           0
             0           0           0           0           0           0
 0           0           0           1
             1           1           1           1           1           1
 1           1           1           1
             1           1           1           1           1           1
 1           1           1           1
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 1           1           1           1
             1           1           1           1           1           1
 1           1           1           1
             1           1           1           1           1           1
```

```
 1          1          1          1
              1          1          1          1          1          1
 0          0          0          0
              0          0          0          0          0          0
 0          0          0          0
38            0          0          0          0          0          0
 0          0          0          0
              0          0          0          0          0          0
 0          0          0          0
              0          0          0          0          0          0
 0          0          0          1
              1          1          1          1          1          1
 1          1          1          1
              1          1          1          1          1          1
 1          1          1          1
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 1          1          1          1
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 1          1          1          1
              1          1          1          1          1          1
 1          1          1          1
              1          1          1          1          1          1
 1          0          0          0
              0          0          0          0          0          0
 0          0          0          0
39            0          0          0          0          0          0
 0          0          0          0
              0          0          0          0          0          0
 0          0          0          0
              0          0          0          0          0          0
 0          0          0          1
              1          1          1          1          1          1
 1          1          1          1
              1          1          1          1          1          1
 1          1          1          1
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 1          1          1          1
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 1          1          1          1
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 1          1          1          1
              1          1          1          1          1          1
 1          1          0          0
              0          0          0          0          0          0
 0          0          0          0
40            0          0          0          0          0          0
 0          0          0          0
              0          0          0          0          0          0
 0          0          0          0
              0          0          0          0          0          0
 0          0          0          1
              1          1          1          1          1          1
 1          1          1          1
              1          1          1          1          1          1
 1          1          1          1
              1          1          1          1          1          1
 1          1          1          1
              1          1          1          1          1          1
 1          1          1          1
              1          1          1          1          1          1
 1          1          1          1
              1          1          1          1          1          1
 1          1          0          0
```

```
          0          0          0          0          0          0
0         0          0          0
41        0          0          0          0          0          0
0         0          0          0
          0          0          0          0          0          0
0         0          0          0
          0          0          0          0          0          0
0         0          0          1
          1          1          1          1          1          1
1         1          1          1
          1          1          1          1          1          1
1         1          1          1
          1          1          1          1          1          1
1         1          1          1
          1          1          1          1          1          1
1         1          1          1
          1          1          1          1          1          1
1         1          1          1
          1          1          1          1          1          1
1         1          1          0
          0          0          0          0          0          0
0         0          0          0
42        0          0          0          0          0          0
0         0          0          0
          0          0          0          0          0          0
0         0          0          0
          0          0          0          0          0          0
0         0          0          1
          1          1          1          1          1          1
1         1          1          1
          1          1          1          1          1          1
1         1          1          1
          1          1          1          1          1          1
1         1          1          1
          1          1          1          1          1          1
1         1          1          1
          1          1          1          1          1          1
1         1          1          1
          1          1          1          1          1          1
1         1          1          1
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0         0          0          0
43        0          0          0          0          0          0
0         0          0          0
          0          0          0          0          0          0
0         0          0          0
          0          0          0          0          0          0
0         0          0          1
          1          1          1          1          1          1
1         1          1          1
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1         1          1          1
          1          1          1          1          1          1
1         1          1          1
          1          1          1          1          1          1
1         1          1          1
          1          1          1          1          1          1
1         1          1          1
          1          1          1          1          1          1
1         1          1          1
          0          0          0          0          0          0
0         0          0          0
44        0          0          0          0          0          0
```

```
0 0 0 0
0 0 0 0 0 0
0 0 0 0
0 0 0 0 0 0
0 0 0 1
1 1 1 1 1 1
1 1 1 1
1 1 1 1 1 1
1 1 1 1
1 1 1 1 1 1
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0 0 0 0
46 0 0 0 0 0 0
0 0 0 0
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0 0 0 0
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1 1 1 1 1 1
1 1 1 1
1 1 0 0 0 0
0 0 0 0
47 0 0 0 0 0 0
0 0 0 0
0 0 0 0 0 0
0 0 0 0
```

```
                  0          0          0          0          0          0
     0          0          1          1
                  1          1          1          1          1          1
     1          1          1          1
                  1          1          1          1          1          1
     1          1          1          1
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     1          1          1          1
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     1          1          1          1
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     1          1          1          1
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     1          1          1          1
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     0          0          0          0
    48            0          0          0          0          0          0
     0          0          0          0
                  0          0          0          0          0          0
     0          0          0          0
                  0          0          0          0          0          0
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                  1          1          1          1          1          1
     1          1          1          1
                  1          1          1          1          1          1
     1          1          1          1
                  1          1          1          1          1          1
     1          1          1          1
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     1          1          1          1
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     1          1          1          1
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     1          1          1          1
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     0          0          0          0
    49            0          0          0          0          0          0
     0          0          0          0
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     1          1          1          1
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     1          1          1          1
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     1          1          1          1
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     1          1          1          1
                  0          0          0          0          0          0
     0          0          0          0
    50            0          0          0          0          0          0
     0          0          0          0
                  0          0          0          0          0          0
     0          0          0          0
                  0          0          0          0          0          0
     0          0          1          1
                  1          1          1          1          1          1
```

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 1          1          1          1
             1          1          1          1          1          1
 1          1          1          1
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 1          1          1          1
             1          1          1          1          1          1
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 1          1          1          1
             1          1          1          1          1          1
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 0          0          0          0
51           0          0          0          0          0          0
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 0          0          0          0
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 1          1          1          1
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 1          1          1          1
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 1          1          1          1
             1          1          1          1          1          1
 1          1          1          1
             1          1          1          1          1          1
 1          1          0          0
             0          0          0          0          0          0
 0          0          0          0
52           0          0          0          0          0          0
 0          0          0          0
             0          0          0          0          0          0
 0          0          0          0
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 1          1          1          1
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 0          0          0          0
             0          0          0          0          0          0
 0          0          0          0
53           0          0          0          0          0          0
 0          0          0          0
             0          0          0          0          0          0
 0          0          0          0
             0          0          0          0          0          0
 0          0          1          1
             1          1          1          1          1          1
 1          1          1          1
             1          1          1          1          1          1
 1          1          1          1
```

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            1          1          1          1          1          1
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            1          1          1          1          1          0
 0          0          0          0
            0          0          0          0          0          0
 0          0          0          0
54          0          0          0          0          0          0
 0          0          0          0
            0          0          0          0          0          0
 0          0          0          0
            0          0          0          0          0          0
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56          0          0          0          0          0          0
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57            0          0          0          0          0          0
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58            0          0          0          0          0          0
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64          0          0          0          0          0          0
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65          0          0          0          0          0          0
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66          0          0          0          0          0          0
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0         0          0          0
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0         0          0          0
73        0          0          0          0          0          0
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1         1          1          1
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0         0          0          0
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0         0          0          0
74        0          0          0          0          0          0
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0         0          0          0
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0         0          0          0
75        0          0          0          0          0          0
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76 0 0 0 0 0 0
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78 0 0 0 0 0 0
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79            0          0          0          0          0          0
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80            0          0          0          0          0          0
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81            0          0          0          0          0          0
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 0          0          0          0
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82           0          0          0          0          0          0
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83           0          0          0          0          0          0
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84           0          0          0          0          0          0
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85            0           0           0           0           0           0
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86            0           0           0           0           0           0
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87            0           0           0           0           0           0
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88            0           0           0           0           0           0
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0       0       0       0
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0       0       0       0
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0       0       0       0
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0       0       0       0
92      0       0       0       0       0       0
0       0       0       0
        0       0       0       0       0       0
0       0       0       0
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0       0       0       0
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0       0       0       0
        0       0       0       0       0       0
0       0       0       0
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0       0       0       0
93      0       0       0       0       0       0
0       0       0       0
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0       0       0       0
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0       0       0       0
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0       0       0       0
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0       0       0       0
94      0       0       0       0       0       0
0       0       0       0
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0       0       0       0
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0       0       0       0
        0       0       0       0       0       0
0       0       0       0
        0       1       1       1       1       1
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 0           0           0           0
95             0           0           0           0           0           0
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               0           0           0           0           0           0
 0           0           0           0
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 0           0           0           0
96             0           0           0           0           0           0
 0           0           0           0
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 0           0           0           0
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 0           0           0           0
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 0           0           0           0
97             0           0           0           0           0           0
 0           0           0           0
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 0           0           0           0
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 0           0           0           0
               0           0           0           0           0           0
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      0             0             0             0
     98           0             0             0             0             0             0
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      0             0             0             0
     99           0             0             0             0             0             0
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      0             0             0             0
                  0             0             0             0             0             0
      0             0             0             0
                  0             0             0             0             0             0
      0             0             0             0
    100           0             0             0             0             0             0
      0             0             0             0
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      0             0             0             0
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      0             0             0             0
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      0             0             0             0
                  0             0             0             0             0             0
```

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 0            0            0            0
               0            0            0            0            0            0
 0            0            0            0
               0            0            0            0            0            0
 0            0            0            0
```

AQUIFER HEAD WILL BE SET TO -999.00   AT ALL NO-FLOW NODES (IBOUND=0).

OUTPUT CONTROL IS SPECIFIED ONLY AT TIME STEPS FOR WHICH OUTPUT IS DESIRED
COMPACT CELL-BY-CELL BUDGET FILES WILL BE WRITTEN
AUXILIARY DATA WILL BE SAVED IN CELL-BY-CELL BUDGET FILES
HEAD PRINT FORMAT CODE IS   0   DRAWDOWN PRINT FORMAT CODE IS   0
HEADS WILL BE SAVED ON UNIT   30   DRAWDOWNS WILL BE SAVED ON UNIT   0

380 BARRIERS NOT DEFINED BY PARAMETERS

BARRIER	LAYER	IROW1	ICOL1	IROW2	ICOL2	HYDCHR
1	1	47	92	47	93	0.10000E-08
2	1	46	92	47	92	0.10000E-08
3	1	47	91	47	92	0.10000E-08
4	1	48	91	48	92	0.10000E-08
5	1	48	90	49	90	0.10000E-08
6	1	49	89	49	90	0.10000E-08
7	1	49	89	50	89	0.10000E-08
8	1	50	88	50	89	0.10000E-08
9	1	50	88	51	88	0.10000E-08
10	1	50	87	51	87	0.10000E-08
11	1	51	86	51	87	0.10000E-08
12	1	51	86	52	86	0.10000E-08
13	1	52	85	52	86	0.10000E-08
14	1	52	85	53	85	0.10000E-08
15	1	53	84	53	85	0.10000E-08
16	1	53	83	54	83	0.10000E-08
17	1	54	82	54	83	0.10000E-08
18	1	54	82	55	82	0.10000E-08
19	1	55	81	55	82	0.10000E-08
20	1	62	81	63	81	0.10000E-08
21	1	63	80	63	81	0.10000E-08
22	1	64	80	64	81	0.10000E-08
23	1	65	80	65	81	0.10000E-08
24	1	66	80	66	81	0.10000E-08
25	1	67	80	67	81	0.10000E-08
26	1	68	80	68	81	0.10000E-08
27	1	69	80	69	81	0.10000E-08
28	1	70	80	70	81	0.10000E-08
29	1	72	80	73	80	0.10000E-08
30	1	72	79	73	79	0.10000E-08
31	1	73	78	73	79	0.10000E-08
32	1	73	78	74	78	0.10000E-08
33	1	73	77	74	77	0.10000E-08
34	1	74	76	74	77	0.10000E-08
35	1	74	75	75	75	0.10000E-08
36	1	75	74	75	75	0.10000E-08
37	1	75	73	76	73	0.10000E-08
38	1	76	72	76	73	0.10000E-08
39	1	76	71	77	71	0.10000E-08
40	1	76	70	77	70	0.10000E-08
41	1	76	69	77	69	0.10000E-08
42	1	76	68	77	68	0.10000E-08
43	1	76	67	77	67	0.10000E-08
44	1	76	66	76	67	0.10000E-08
45	1	75	66	76	66	0.10000E-08
46	1	75	65	75	66	0.10000E-08
47	1	74	65	74	66	0.10000E-08

48	1	73	65	74	65	0.10000E-08
49	1	73	64	73	65	0.10000E-08
50	1	72	64	73	64	0.10000E-08
51	1	72	62	73	62	0.10000E-08
52	1	73	61	73	62	0.10000E-08
53	1	74	61	75	61	0.10000E-08
54	1	75	60	75	61	0.10000E-08
55	1	76	60	76	61	0.10000E-08
56	1	76	60	77	60	0.10000E-08
57	1	77	59	77	60	0.10000E-08
58	1	78	59	78	60	0.10000E-08
59	1	79	59	80	59	0.10000E-08
60	1	80	58	80	59	0.10000E-08
61	1	81	58	81	59	0.10000E-08
62	1	82	58	83	58	0.10000E-08
63	1	83	57	83	58	0.10000E-08
64	1	84	55	85	55	0.10000E-08
65	1	84	54	85	54	0.10000E-08
66	1	84	53	85	53	0.10000E-08
67	1	85	52	85	53	0.10000E-08
68	1	85	51	86	51	0.10000E-08
69	1	85	50	86	50	0.10000E-08
70	1	85	49	86	49	0.10000E-08
71	1	86	48	86	49	0.10000E-08
72	1	86	47	87	47	0.10000E-08
73	1	87	46	87	47	0.10000E-08
74	1	95	46	96	46	0.10000E-08
75	1	96	45	96	46	0.10000E-08
76	1	97	45	97	46	0.10000E-08
77	2	47	92	47	93	0.10000E-08
78	2	46	92	47	92	0.10000E-08
79	2	47	91	47	92	0.10000E-08
80	2	48	91	48	92	0.10000E-08
81	2	48	90	49	90	0.10000E-08
82	2	49	89	49	90	0.10000E-08
83	2	49	89	50	89	0.10000E-08
84	2	50	88	50	89	0.10000E-08
85	2	50	88	51	88	0.10000E-08
86	2	50	87	51	87	0.10000E-08
87	2	51	86	51	87	0.10000E-08
88	2	51	86	52	86	0.10000E-08
89	2	52	85	52	86	0.10000E-08
90	2	52	85	53	85	0.10000E-08
91	2	53	84	53	85	0.10000E-08
92	2	53	83	54	83	0.10000E-08
93	2	54	82	54	83	0.10000E-08
94	2	54	82	55	82	0.10000E-08
95	2	55	81	55	82	0.10000E-08
96	2	62	81	63	81	0.10000E-08
97	2	63	80	63	81	0.10000E-08
98	2	64	80	64	81	0.10000E-08
99	2	65	80	65	81	0.10000E-08
100	2	66	80	66	81	0.10000E-08
101	2	67	80	67	81	0.10000E-08
102	2	68	80	68	81	0.10000E-08
103	2	69	80	69	81	0.10000E-08
104	2	70	80	70	81	0.10000E-08
105	2	72	80	73	80	0.10000E-08
106	2	72	79	73	79	0.10000E-08
107	2	73	78	73	79	0.10000E-08
108	2	73	78	74	78	0.10000E-08
109	2	73	77	74	77	0.10000E-08
110	2	74	76	74	77	0.10000E-08

111	2	74	75	75	75	0.10000E-08
112	2	75	74	75	75	0.10000E-08
113	2	75	73	76	73	0.10000E-08
114	2	76	72	76	73	0.10000E-08
115	2	76	71	77	71	0.10000E-08
116	2	76	70	77	70	0.10000E-08
117	2	76	69	77	69	0.10000E-08
118	2	76	68	77	68	0.10000E-08
119	2	76	67	77	67	0.10000E-08
120	2	76	66	76	67	0.10000E-08
121	2	75	66	76	66	0.10000E-08
122	2	75	65	75	66	0.10000E-08
123	2	74	65	74	66	0.10000E-08
124	2	73	65	74	65	0.10000E-08
125	2	73	64	73	65	0.10000E-08
126	2	72	64	73	64	0.10000E-08
127	2	72	62	73	62	0.10000E-08
128	2	73	61	73	62	0.10000E-08
129	2	74	61	75	61	0.10000E-08
130	2	75	60	75	61	0.10000E-08
131	2	76	60	76	61	0.10000E-08
132	2	76	60	77	60	0.10000E-08
133	2	77	59	77	60	0.10000E-08
134	2	78	59	78	60	0.10000E-08
135	2	79	59	80	59	0.10000E-08
136	2	80	58	80	59	0.10000E-08
137	2	81	58	81	59	0.10000E-08
138	2	82	58	83	58	0.10000E-08
139	2	83	57	83	58	0.10000E-08
140	2	84	55	85	55	0.10000E-08
141	2	84	54	85	54	0.10000E-08
142	2	84	53	85	53	0.10000E-08
143	2	85	52	85	53	0.10000E-08
144	2	85	51	86	51	0.10000E-08
145	2	85	50	86	50	0.10000E-08
146	2	85	49	86	49	0.10000E-08
147	2	86	48	86	49	0.10000E-08
148	2	86	47	87	47	0.10000E-08
149	2	87	46	87	47	0.10000E-08
150	2	95	46	96	46	0.10000E-08
151	2	96	45	96	46	0.10000E-08
152	2	97	45	97	46	0.10000E-08
153	3	47	92	47	93	0.10000E-08
154	3	46	92	47	92	0.10000E-08
155	3	47	91	47	92	0.10000E-08
156	3	48	91	48	92	0.10000E-08
157	3	48	90	49	90	0.10000E-08
158	3	49	89	49	90	0.10000E-08
159	3	49	89	50	89	0.10000E-08
160	3	50	88	50	89	0.10000E-08
161	3	50	88	51	88	0.10000E-08
162	3	50	87	51	87	0.10000E-08
163	3	51	86	51	87	0.10000E-08
164	3	51	86	52	86	0.10000E-08
165	3	52	85	52	86	0.10000E-08
166	3	52	85	53	85	0.10000E-08
167	3	53	84	53	85	0.10000E-08
168	3	53	83	54	83	0.10000E-08
169	3	54	82	54	83	0.10000E-08
170	3	54	82	55	82	0.10000E-08
171	3	55	81	55	82	0.10000E-08
172	3	62	81	63	81	0.10000E-08
173	3	63	80	63	81	0.10000E-08

174	3	64	80	64	81	0.10000E-08
175	3	65	80	65	81	0.10000E-08
176	3	66	80	66	81	0.10000E-08
177	3	67	80	67	81	0.10000E-08
178	3	68	80	68	81	0.10000E-08
179	3	69	80	69	81	0.10000E-08
180	3	70	80	70	81	0.10000E-08
181	3	72	80	73	80	0.10000E-08
182	3	72	79	73	79	0.10000E-08
183	3	73	78	73	79	0.10000E-08
184	3	73	78	74	78	0.10000E-08
185	3	73	77	74	77	0.10000E-08
186	3	74	76	74	77	0.10000E-08
187	3	74	75	75	75	0.10000E-08
188	3	75	74	75	75	0.10000E-08
189	3	75	73	76	73	0.10000E-08
190	3	76	72	76	73	0.10000E-08
191	3	76	71	77	71	0.10000E-08
192	3	76	70	77	70	0.10000E-08
193	3	76	69	77	69	0.10000E-08
194	3	76	68	77	68	0.10000E-08
195	3	76	67	77	67	0.10000E-08
196	3	76	66	76	67	0.10000E-08
197	3	75	66	76	66	0.10000E-08
198	3	75	65	75	66	0.10000E-08
199	3	74	65	74	66	0.10000E-08
200	3	73	65	74	65	0.10000E-08
201	3	73	64	73	65	0.10000E-08
202	3	72	64	73	64	0.10000E-08
203	3	72	62	73	62	0.10000E-08
204	3	73	61	73	62	0.10000E-08
205	3	74	61	75	61	0.10000E-08
206	3	75	60	75	61	0.10000E-08
207	3	76	60	76	61	0.10000E-08
208	3	76	60	77	60	0.10000E-08
209	3	77	59	77	60	0.10000E-08
210	3	78	59	78	60	0.10000E-08
211	3	79	59	80	59	0.10000E-08
212	3	80	58	80	59	0.10000E-08
213	3	81	58	81	59	0.10000E-08
214	3	82	58	83	58	0.10000E-08
215	3	83	57	83	58	0.10000E-08
216	3	84	55	85	55	0.10000E-08
217	3	84	54	85	54	0.10000E-08
218	3	84	53	85	53	0.10000E-08
219	3	85	52	85	53	0.10000E-08
220	3	85	51	86	51	0.10000E-08
221	3	85	50	86	50	0.10000E-08
222	3	85	49	86	49	0.10000E-08
223	3	86	48	86	49	0.10000E-08
224	3	86	47	87	47	0.10000E-08
225	3	87	46	87	47	0.10000E-08
226	3	95	46	96	46	0.10000E-08
227	3	96	45	96	46	0.10000E-08
228	3	97	45	97	46	0.10000E-08
229	4	47	92	47	93	0.10000E-08
230	4	46	92	47	92	0.10000E-08
231	4	47	91	47	92	0.10000E-08
232	4	48	91	48	92	0.10000E-08
233	4	48	90	49	90	0.10000E-08
234	4	49	89	49	90	0.10000E-08
235	4	49	89	50	89	0.10000E-08
236	4	50	88	50	89	0.10000E-08

237	4	50	88	51	88	0.10000E-08
238	4	50	87	51	87	0.10000E-08
239	4	51	86	51	87	0.10000E-08
240	4	51	86	52	86	0.10000E-08
241	4	52	85	52	86	0.10000E-08
242	4	52	85	53	85	0.10000E-08
243	4	53	84	53	85	0.10000E-08
244	4	53	83	54	83	0.10000E-08
245	4	54	82	54	83	0.10000E-08
246	4	54	82	55	82	0.10000E-08
247	4	55	81	55	82	0.10000E-08
248	4	62	81	63	81	0.10000E-08
249	4	63	80	63	81	0.10000E-08
250	4	64	80	64	81	0.10000E-08
251	4	65	80	65	81	0.10000E-08
252	4	66	80	66	81	0.10000E-08
253	4	67	80	67	81	0.10000E-08
254	4	68	80	68	81	0.10000E-08
255	4	69	80	69	81	0.10000E-08
256	4	70	80	70	81	0.10000E-08
257	4	72	80	73	80	0.10000E-08
258	4	72	79	73	79	0.10000E-08
259	4	73	78	73	79	0.10000E-08
260	4	73	78	74	78	0.10000E-08
261	4	73	77	74	77	0.10000E-08
262	4	74	76	74	77	0.10000E-08
263	4	74	75	75	75	0.10000E-08
264	4	75	74	75	75	0.10000E-08
265	4	75	73	76	73	0.10000E-08
266	4	76	72	76	73	0.10000E-08
267	4	76	71	77	71	0.10000E-08
268	4	76	70	77	70	0.10000E-08
269	4	76	69	77	69	0.10000E-08
270	4	76	68	77	68	0.10000E-08
271	4	76	67	77	67	0.10000E-08
272	4	76	66	76	67	0.10000E-08
273	4	75	66	76	66	0.10000E-08
274	4	75	65	75	66	0.10000E-08
275	4	74	65	74	66	0.10000E-08
276	4	73	65	74	65	0.10000E-08
277	4	73	64	73	65	0.10000E-08
278	4	72	64	73	64	0.10000E-08
279	4	72	62	73	62	0.10000E-08
280	4	73	61	73	62	0.10000E-08
281	4	74	61	75	61	0.10000E-08
282	4	75	60	75	61	0.10000E-08
283	4	76	60	76	61	0.10000E-08
284	4	76	60	77	60	0.10000E-08
285	4	77	59	77	60	0.10000E-08
286	4	78	59	78	60	0.10000E-08
287	4	79	59	80	59	0.10000E-08
288	4	80	58	80	59	0.10000E-08
289	4	81	58	81	59	0.10000E-08
290	4	82	58	83	58	0.10000E-08
291	4	83	57	83	58	0.10000E-08
292	4	84	55	85	55	0.10000E-08
293	4	84	54	85	54	0.10000E-08
294	4	84	53	85	53	0.10000E-08
295	4	85	52	85	53	0.10000E-08
296	4	85	51	86	51	0.10000E-08
297	4	85	50	86	50	0.10000E-08
298	4	85	49	86	49	0.10000E-08
299	4	86	48	86	49	0.10000E-08

300	4	86	47	87	47	0.10000E-08
301	4	87	46	87	47	0.10000E-08
302	4	95	46	96	46	0.10000E-08
303	4	96	45	96	46	0.10000E-08
304	4	97	45	97	46	0.10000E-08
305	5	47	92	47	93	0.10000E-08
306	5	46	92	47	92	0.10000E-08
307	5	47	91	47	92	0.10000E-08
308	5	48	91	48	92	0.10000E-08
309	5	48	90	49	90	0.10000E-08
310	5	49	89	49	90	0.10000E-08
311	5	49	89	50	89	0.10000E-08
312	5	50	88	50	89	0.10000E-08
313	5	50	88	51	88	0.10000E-08
314	5	50	87	51	87	0.10000E-08
315	5	51	86	51	87	0.10000E-08
316	5	51	86	52	86	0.10000E-08
317	5	52	85	52	86	0.10000E-08
318	5	52	85	53	85	0.10000E-08
319	5	53	84	53	85	0.10000E-08
320	5	53	83	54	83	0.10000E-08
321	5	54	82	54	83	0.10000E-08
322	5	54	82	55	82	0.10000E-08
323	5	55	81	55	82	0.10000E-08
324	5	62	81	63	81	0.10000E-08
325	5	63	80	63	81	0.10000E-08
326	5	64	80	64	81	0.10000E-08
327	5	65	80	65	81	0.10000E-08
328	5	66	80	66	81	0.10000E-08
329	5	67	80	67	81	0.10000E-08
330	5	68	80	68	81	0.10000E-08
331	5	69	80	69	81	0.10000E-08
332	5	70	80	70	81	0.10000E-08
333	5	72	80	73	80	0.10000E-08
334	5	72	79	73	79	0.10000E-08
335	5	73	78	73	79	0.10000E-08
336	5	73	78	74	78	0.10000E-08
337	5	73	77	74	77	0.10000E-08
338	5	74	76	74	77	0.10000E-08
339	5	74	75	75	75	0.10000E-08
340	5	75	74	75	75	0.10000E-08
341	5	75	73	76	73	0.10000E-08
342	5	76	72	76	73	0.10000E-08
343	5	76	71	77	71	0.10000E-08
344	5	76	70	77	70	0.10000E-08
345	5	76	69	77	69	0.10000E-08
346	5	76	68	77	68	0.10000E-08
347	5	76	67	77	67	0.10000E-08
348	5	76	66	76	67	0.10000E-08
349	5	75	66	76	66	0.10000E-08
350	5	75	65	75	66	0.10000E-08
351	5	74	65	74	66	0.10000E-08
352	5	73	65	74	65	0.10000E-08
353	5	73	64	73	65	0.10000E-08
354	5	72	64	73	64	0.10000E-08
355	5	72	62	73	62	0.10000E-08
356	5	73	61	73	62	0.10000E-08
357	5	74	61	75	61	0.10000E-08
358	5	75	60	75	61	0.10000E-08
359	5	76	60	76	61	0.10000E-08
360	5	76	60	77	60	0.10000E-08
361	5	77	59	77	60	0.10000E-08
362	5	78	59	78	60	0.10000E-08

363	5	79	59	80	59	0.10000E-08
364	5	80	58	80	59	0.10000E-08
365	5	81	58	81	59	0.10000E-08
366	5	82	58	83	58	0.10000E-08
367	5	83	57	83	58	0.10000E-08
368	5	84	55	85	55	0.10000E-08
369	5	84	54	85	54	0.10000E-08
370	5	84	53	85	53	0.10000E-08
371	5	85	52	85	53	0.10000E-08
372	5	85	51	86	51	0.10000E-08
373	5	85	50	86	50	0.10000E-08
374	5	85	49	86	49	0.10000E-08
375	5	86	48	86	49	0.10000E-08
376	5	86	47	87	47	0.10000E-08
377	5	87	46	87	47	0.10000E-08
378	5	95	46	96	46	0.10000E-08
379	5	96	45	96	46	0.10000E-08
380	5	97	45	97	46	0.10000E-08

380 HFB BARRIERS

1

STRESS PERIOD NO. 1, LENGTH = 1.000000

NUMBER OF TIME STEPS = 1

MULTIPLIER FOR DELT = 1.000

INITIAL TIME STEP SIZE = 1.000000

WELL NO.	LAYER	ROW	COL	STRESS RATE	IFACE	QFACT	CELLGRP
1	5	45	55	-3100.	0.000	1.000	1.000

1 WELL

DRAIN NO.	LAYER	ROW	COL	DRAIN EL.	CONDUCTANCE	IFACE	CONDFACT	CELLGRP
1	2	97	46	0.000	6.326	6.000	52.72	1.000
2	3	97	46	0.000	6.326	6.000	52.72	1.000
3	4	97	46	0.000	6.326	6.000	52.72	1.000
4	5	97	46	0.000	6.326	6.000	52.72	1.000
5	2	96	46	0.000	6.845	6.000	57.04	1.000
6	3	96	46	0.000	6.845	6.000	57.04	1.000
7	4	96	46	0.000	6.845	6.000	57.04	1.000
8	5	96	46	0.000	6.845	6.000	57.04	1.000
9	2	95	46	0.000	6.845	6.000	57.04	1.000

```
      10        3       95      46          0.000           6.845           6.000
 57.04                1.000
      11        4       95      46          0.000           6.845           6.000
 57.04                1.000
      12        5       95      46          0.000           6.845           6.000
 57.04                1.000
      13        2       94      46          0.000           6.845           6.000
 57.04                1.000
      14        3       94      46          0.000           6.845           6.000
 57.04                1.000
      15        4       94      46          0.000           6.845           6.000
 57.04                1.000
      16        5       94      46          0.000           6.845           6.000
 57.04                1.000
      17        2       93      46          0.000           6.845           6.000
 57.04                1.000
      18        3       93      46          0.000           6.845           6.000
 57.04                1.000
      19        4       93      46          0.000           6.845           6.000
 57.04                1.000
      20        5       93      46          0.000           6.845           6.000
 57.04                1.000
      21        2       92      46          0.000           6.845           6.000
 57.04                1.000
      22        3       92      46          0.000           6.845           6.000
 57.04                1.000
      23        4       92      46          0.000           6.845           6.000
 57.04                1.000
      24        5       92      46          0.000           6.845           6.000
 57.04                1.000
      25        2       91      46          0.000           6.845           6.000
 57.04                1.000
      26        3       91      46          0.000           6.845           6.000
 57.04                1.000
      27        4       91      46          0.000           6.845           6.000
 57.04                1.000
      28        5       91      46          0.000           6.845           6.000
 57.04                1.000
      29        2       90      46          0.000           6.845           6.000
 57.04                1.000
      30        3       90      46          0.000           6.845           6.000
 57.04                1.000
      31        4       90      46          0.000           6.845           6.000
 57.04                1.000
      32        5       90      46          0.000           6.845           6.000
 57.04                1.000
      33        2       89      46          0.000           6.845           6.000
 57.04                1.000
      34        3       89      46          0.000           6.845           6.000
 57.04                1.000
      35        4       89      46          0.000           6.845           6.000
 57.04                1.000
      36        5       89      46          0.000           6.845           6.000
 57.04                1.000
      37        2       88      46          0.000           6.845           6.000
 57.04                1.000
      38        3       88      46          0.000           6.845           6.000
 57.04                1.000
      39        4       88      46          0.000           6.845           6.000
 57.04                1.000
      40        5       88      46          0.000           6.845           6.000
 57.04                1.000
      41        2       87      46          0.000           7.097           6.000
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59.14              1.000
         42      3      87       46        0.000          7.097         6.000
59.14              1.000
         43      4      87       46        0.000          7.097         6.000
59.14              1.000
         44      5      87       46        0.000          7.097         6.000
59.14              1.000
         45      2      87       47        0.000         0.6294         6.000
5.245              1.000
         46      3      87       47        0.000         0.6294         6.000
5.245              1.000
         47      4      87       47        0.000         0.6294         6.000
5.245              1.000
         48      5      87       47        0.000         0.6294         6.000
5.245              1.000
         49      2      86       47        0.000          5.279         6.000
43.99              1.000
         50      3      86       47        0.000          5.279         6.000
43.99              1.000
         51      4      86       47        0.000          5.279         6.000
43.99              1.000
         52      5      86       47        0.000          5.279         6.000
43.99              1.000
         53      2      86       48        0.000          5.908         6.000
49.24              1.000
         54      3      86       48        0.000          5.908         6.000
49.24              1.000
         55      4      86       48        0.000          5.908         6.000
49.24              1.000
         56      5      86       48        0.000          5.908         6.000
49.24              1.000
         57      2      86       49        0.000          5.908         6.000
49.24              1.000
         58      3      86       49        0.000          5.908         6.000
49.24              1.000
         59      4      86       49        0.000          5.908         6.000
49.24              1.000
         60      5      86       49        0.000          5.908         6.000
49.24              1.000
         61      2      86       50        0.000          5.908         6.000
49.24              1.000
         62      3      86       50        0.000          5.908         6.000
49.24              1.000
         63      4      86       50        0.000          5.908         6.000
49.24              1.000
         64      5      86       50        0.000          5.908         6.000
49.24              1.000
         65      2      86       51        0.000          2.010         6.000
16.75              1.000
         66      3      86       51        0.000          2.010         6.000
16.75              1.000
         67      4      86       51        0.000          2.010         6.000
16.75              1.000
         68      5      86       51        0.000          2.010         6.000
16.75              1.000
         69      2      85       51        0.000          3.898         6.000
32.49              1.000
         70      3      85       51        0.000          3.898         6.000
32.49              1.000
         71      4      85       51        0.000          3.898         6.000
32.49              1.000
         72      5      85       51        0.000          3.898         6.000
32.49              1.000
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      73        2       85       52        0.000          5.908           6.000
49.24                 1.000
      74        3       85       52        0.000          5.908           6.000
49.24                 1.000
      75        4       85       52        0.000          5.908           6.000
49.24                 1.000
      76        5       85       52        0.000          5.908           6.000
49.24                 1.000
      77        2       85       53        0.000          5.908           6.000
49.24                 1.000
      78        3       85       53        0.000          5.908           6.000
49.24                 1.000
      79        4       85       53        0.000          5.908           6.000
49.24                 1.000
      80        5       85       53        0.000          5.908           6.000
49.24                 1.000
      81        2       85       54        0.000          5.908           6.000
49.24                 1.000
      82        3       85       54        0.000          5.908           6.000
49.24                 1.000
      83        4       85       54        0.000          5.908           6.000
49.24                 1.000
      84        5       85       54        0.000          5.908           6.000
49.24                 1.000
      85        2       85       55        0.000          3.390           6.000
28.25                 1.000
      86        3       85       55        0.000          3.390           6.000
28.25                 1.000
      87        4       85       55        0.000          3.390           6.000
28.25                 1.000
      88        5       85       55        0.000          3.390           6.000
28.25                 1.000
      89        2       84       55        0.000          2.518           6.000
20.98                 1.000
      90        3       84       55        0.000          2.518           6.000
20.98                 1.000
      91        4       84       55        0.000          2.518           6.000
20.98                 1.000
      92        5       84       55        0.000          2.518           6.000
20.98                 1.000
      93        2       84       56        0.000          5.908           6.000
49.24                 1.000
      94        3       84       56        0.000          5.908           6.000
49.24                 1.000
      95        4       84       56        0.000          5.908           6.000
49.24                 1.000
      96        5       84       56        0.000          5.908           6.000
49.24                 1.000
      97        2       84       57        0.000          8.203           6.000
68.36                 1.000
      98        3       84       57        0.000          8.203           6.000
68.36                 1.000
      99        4       84       57        0.000          8.203           6.000
68.36                 1.000
     100        5       84       57        0.000          8.203           6.000
68.36                 1.000
     101        2       83       57        0.000         0.8499E-01       6.000
0.7083                 1.000
     102        3       83       57        0.000         0.8499E-01       6.000
0.7083                 1.000
     103        4       83       57        0.000         0.8499E-01       6.000
0.7083                 1.000
     104        5       83       57        0.000         0.8499E-01       6.000
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0.7083              1.000
        105      2      83      58        0.000           7.084           6.000
59.04               1.000
        106      3      83      58        0.000           7.084           6.000
59.04               1.000
        107      4      83      58        0.000           7.084           6.000
59.04               1.000
        108      5      83      58        0.000           7.084           6.000
59.04               1.000
        109      2      82      58        0.000           7.169           6.000
59.74               1.000
        110      3      82      58        0.000           7.169           6.000
59.74               1.000
        111      4      82      58        0.000           7.169           6.000
59.74               1.000
        112      5      82      58        0.000           7.169           6.000
59.74               1.000
        113      2      81      58        0.000           4.741           6.000
39.51               1.000
        114      3      81      58        0.000           4.741           6.000
39.51               1.000
        115      4      81      58        0.000           4.741           6.000
39.51               1.000
        116      5      81      58        0.000           4.741           6.000
39.51               1.000
        117      2      81      59        0.000           2.428           6.000
20.23               1.000
        118      3      81      59        0.000           2.428           6.000
20.23               1.000
        119      4      81      59        0.000           2.428           6.000
20.23               1.000
        120      5      81      59        0.000           2.428           6.000
20.23               1.000
        121      2      80      59        0.000           7.169           6.000
59.74               1.000
        122      3      80      59        0.000           7.169           6.000
59.74               1.000
        123      4      80      59        0.000           7.169           6.000
59.74               1.000
        124      5      80      59        0.000           7.169           6.000
59.74               1.000
        125      2      79      59        0.000           7.169           6.000
59.74               1.000
        126      3      79      59        0.000           7.169           6.000
59.74               1.000
        127      4      79      59        0.000           7.169           6.000
59.74               1.000
        128      5      79      59        0.000           7.169           6.000
59.74               1.000
        129      2      78      59        0.000           2.228           6.000
18.57               1.000
        130      3      78      59        0.000           2.228           6.000
18.57               1.000
        131      4      78      59        0.000           2.228           6.000
18.57               1.000
        132      5      78      59        0.000           2.228           6.000
18.57               1.000
        133      2      78      60        0.000           4.941           6.000
41.18               1.000
        134      3      78      60        0.000           4.941           6.000
41.18               1.000
        135      4      78      60        0.000           4.941           6.000
41.18               1.000
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136	5	78	60	0.000	4.941	6.000
41.18		1.000				
137	2	77	60	0.000	7.169	6.000
59.74		1.000				
138	3	77	60	0.000	7.169	6.000
59.74		1.000				
139	4	77	60	0.000	7.169	6.000
59.74		1.000				
140	5	77	60	0.000	7.169	6.000
59.74		1.000				
141	2	76	60	0.000	6.884	6.000
57.37		1.000				
142	3	76	60	0.000	6.884	6.000
57.37		1.000				
143	4	76	60	0.000	6.884	6.000
57.37		1.000				
144	5	76	60	0.000	6.884	6.000
57.37		1.000				
145	2	76	61	0.000	0.2851	6.000
2.376		1.000				
146	3	76	61	0.000	0.2851	6.000
2.376		1.000				
147	4	76	61	0.000	0.2851	6.000
2.376		1.000				
148	5	76	61	0.000	0.2851	6.000
2.376		1.000				
149	2	75	61	0.000	7.169	6.000
59.74		1.000				
150	3	75	61	0.000	7.169	6.000
59.74		1.000				
151	4	75	61	0.000	7.169	6.000
59.74		1.000				
152	5	75	61	0.000	7.169	6.000
59.74		1.000				
153	2	74	61	0.000	7.169	6.000
59.74		1.000				
154	3	74	61	0.000	7.169	6.000
59.74		1.000				
155	4	74	61	0.000	7.169	6.000
59.74		1.000				
156	5	74	61	0.000	7.169	6.000
59.74		1.000				
157	2	73	61	0.000	4.371	6.000
36.43		1.000				
158	3	73	61	0.000	4.371	6.000
36.43		1.000				
159	4	73	61	0.000	4.371	6.000
36.43		1.000				
160	5	73	61	0.000	4.371	6.000
36.43		1.000				
161	2	73	62	0.000	2.798	6.000
23.32		1.000				
162	3	73	62	0.000	2.798	6.000
23.32		1.000				
163	4	73	62	0.000	2.798	6.000
23.32		1.000				
164	5	73	62	0.000	2.798	6.000
23.32		1.000				
165	2	72	62	0.000	5.122	6.000
42.68		1.000				
166	3	72	62	0.000	5.122	6.000
42.68		1.000				
167	4	72	62	0.000	5.122	6.000

42.68		1.000				
168	5	72	62	0.000	5.122	6.000
42.68		1.000				
169	2	72	63	0.000	5.683	6.000
47.36		1.000				
170	3	72	63	0.000	5.683	6.000
47.36		1.000				
171	4	72	63	0.000	5.683	6.000
47.36		1.000				
172	5	72	63	0.000	5.683	6.000
47.36		1.000				
173	2	72	64	0.000	3.343	6.000
27.86		1.000				
174	3	72	64	0.000	3.343	6.000
27.86		1.000				
175	4	72	64	0.000	3.343	6.000
27.86		1.000				
176	5	72	64	0.000	3.343	6.000
27.86		1.000				
177	2	73	64	0.000	5.089	6.000
42.41		1.000				
178	3	73	64	0.000	5.089	6.000
42.41		1.000				
179	4	73	64	0.000	5.089	6.000
42.41		1.000				
180	5	73	64	0.000	5.089	6.000
42.41		1.000				
181	2	73	65	0.000	2.822	6.000
23.52		1.000				
182	3	73	65	0.000	2.822	6.000
23.52		1.000				
183	4	73	65	0.000	2.822	6.000
23.52		1.000				
184	5	73	65	0.000	2.822	6.000
23.52		1.000				
185	2	74	65	0.000	7.911	6.000
65.92		1.000				
186	3	74	65	0.000	7.911	6.000
65.92		1.000				
187	4	74	65	0.000	7.911	6.000
65.92		1.000				
188	5	74	65	0.000	7.911	6.000
65.92		1.000				
189	2	75	65	0.000	0.5826	6.000
4.855		1.000				
190	3	75	65	0.000	0.5826	6.000
4.855		1.000				
191	4	75	65	0.000	0.5826	6.000
4.855		1.000				
192	5	75	65	0.000	0.5826	6.000
4.855		1.000				
193	2	75	66	0.000	7.328	6.000
61.07		1.000				
194	3	75	66	0.000	7.328	6.000
61.07		1.000				
195	4	75	66	0.000	7.328	6.000
61.07		1.000				
196	5	75	66	0.000	7.328	6.000
61.07		1.000				
197	2	76	66	0.000	3.987	6.000
33.23		1.000				
198	3	76	66	0.000	3.987	6.000
33.23		1.000				

```
     199         4      76        66        0.000           3.987           6.000
33.23                1.000
     200         5      76        66        0.000           3.987           6.000
33.23                1.000
     201         2      76        67        0.000           6.693           6.000
55.78                1.000
     202         3      76        67        0.000           6.693           6.000
55.78                1.000
     203         4      76        67        0.000           6.693           6.000
55.78                1.000
     204         5      76        67        0.000           6.693           6.000
55.78                1.000
     205         2      77        67        0.000          0.8076           6.000
6.730                1.000
     206         3      77        67        0.000          0.8076           6.000
6.730                1.000
     207         4      77        67        0.000          0.8076           6.000
6.730                1.000
     208         5      77        67        0.000          0.8076           6.000
6.730                1.000
     209         2      77        68        0.000           5.703           6.000
47.53                1.000
     210         3      77        68        0.000           5.703           6.000
47.53                1.000
     211         4      77        68        0.000           5.703           6.000
47.53                1.000
     212         5      77        68        0.000           5.703           6.000
47.53                1.000
     213         2      77        69        0.000           5.703           6.000
47.53                1.000
     214         3      77        69        0.000           5.703           6.000
47.53                1.000
     215         4      77        69        0.000           5.703           6.000
47.53                1.000
     216         5      77        69        0.000           5.703           6.000
47.53                1.000
     217         2      77        70        0.000           5.703           6.000
47.53                1.000
     218         3      77        70        0.000           5.703           6.000
47.53                1.000
     219         4      77        70        0.000           5.703           6.000
47.53                1.000
     220         5      77        70        0.000           5.703           6.000
47.53                1.000
     221         2      77        71        0.000           3.491           6.000
29.09                1.000
     222         3      77        71        0.000           3.491           6.000
29.09                1.000
     223         4      77        71        0.000           3.491           6.000
29.09                1.000
     224         5      77        71        0.000           3.491           6.000
29.09                1.000
     225         2      76        71        0.000           2.971           6.000
24.76                1.000
     226         3      76        71        0.000           2.971           6.000
24.76                1.000
     227         4      76        71        0.000           2.971           6.000
24.76                1.000
     228         5      76        71        0.000           2.971           6.000
24.76                1.000
     229         2      76        72        0.000           6.508           6.000
54.24                1.000
     230         3      76        72        0.000           6.508           6.000
```

```
54.24            1.000
     231    4       76     72       0.000          6.508          6.000
54.24            1.000
     232    5       76     72       0.000          6.508          6.000
54.24            1.000
     233    2       76     73       0.000          4.556          6.000
37.97            1.000
     234    3       76     73       0.000          4.556          6.000
37.97            1.000
     235    4       76     73       0.000          4.556          6.000
37.97            1.000
     236    5       76     73       0.000          4.556          6.000
37.97            1.000
     237    2       75     73       0.000          1.952          6.000
16.27            1.000
     238    3       75     73       0.000          1.952          6.000
16.27            1.000
     239    4       75     73       0.000          1.952          6.000
16.27            1.000
     240    5       75     73       0.000          1.952          6.000
16.27            1.000
     241    2       75     74       0.000          6.508          6.000
54.24            1.000
     242    3       75     74       0.000          6.508          6.000
54.24            1.000
     243    4       75     74       0.000          6.508          6.000
54.24            1.000
     244    5       75     74       0.000          6.508          6.000
54.24            1.000
     245    2       75     75       0.000          5.575          6.000
46.46            1.000
     246    3       75     75       0.000          5.575          6.000
46.46            1.000
     247    4       75     75       0.000          5.575          6.000
46.46            1.000
     248    5       75     75       0.000          5.575          6.000
46.46            1.000
     249    2       74     75       0.000         0.9331          6.000
7.776            1.000
     250    3       74     75       0.000         0.9331          6.000
7.776            1.000
     251    4       74     75       0.000         0.9331          6.000
7.776            1.000
     252    5       74     75       0.000         0.9331          6.000
7.776            1.000
     253    2       74     76       0.000          6.508          6.000
54.24            1.000
     254    3       74     76       0.000          6.508          6.000
54.24            1.000
     255    4       74     76       0.000          6.508          6.000
54.24            1.000
     256    5       74     76       0.000          6.508          6.000
54.24            1.000
     257    2       74     77       0.000          6.508          6.000
54.24            1.000
     258    3       74     77       0.000          6.508          6.000
54.24            1.000
     259    4       74     77       0.000          6.508          6.000
54.24            1.000
     260    5       74     77       0.000          6.508          6.000
54.24            1.000
     261    2       74     78       0.000         0.8573E-01     6.000
0.7145            1.000
```

262	3	74	78	0.000	0.8573E-01	6.000	0.7145	1.000
263	4	74	78	0.000	0.8573E-01	6.000	0.7145	1.000
264	5	74	78	0.000	0.8573E-01	6.000	0.7145	1.000
265	2	73	78	0.000	6.423	6.000	53.52	1.000
266	3	73	78	0.000	6.423	6.000	53.52	1.000
267	4	73	78	0.000	6.423	6.000	53.52	1.000
268	5	73	78	0.000	6.423	6.000	53.52	1.000
269	2	73	79	0.000	6.508	6.000	54.24	1.000
270	3	73	79	0.000	6.508	6.000	54.24	1.000
271	4	73	79	0.000	6.508	6.000	54.24	1.000
272	5	73	79	0.000	6.508	6.000	54.24	1.000
273	2	73	80	0.000	1.105	6.000	9.205	1.000
274	3	73	80	0.000	1.105	6.000	9.205	1.000
275	4	73	80	0.000	1.105	6.000	9.205	1.000
276	5	73	80	0.000	1.105	6.000	9.205	1.000
277	2	72	80	0.000	9.135	6.000	76.13	1.000
278	3	72	80	0.000	9.135	6.000	76.13	1.000
279	4	72	80	0.000	9.135	6.000	76.13	1.000
280	5	72	80	0.000	9.135	6.000	76.13	1.000
281	2	71	80	0.000	6.851	6.000	57.09	1.000
282	3	71	80	0.000	6.851	6.000	57.09	1.000
283	4	71	80	0.000	6.851	6.000	57.09	1.000
284	5	71	80	0.000	6.851	6.000	57.09	1.000
285	2	70	80	0.000	3.989	6.000	33.24	1.000
286	3	70	80	0.000	3.989	6.000	33.24	1.000
287	4	70	80	0.000	3.989	6.000	33.24	1.000
288	5	70	80	0.000	3.989	6.000	33.24	1.000
289	2	70	81	0.000	2.862	6.000	23.85	1.000
290	3	70	81	0.000	2.862	6.000	23.85	1.000
291	4	70	81	0.000	2.862	6.000	23.85	1.000
292	5	70	81	0.000	2.862	6.000	23.85	1.000
293	2	69	81	0.000	6.851	6.000		

57.09		1.000				
294	3	69	81	0.000	6.851	6.000
57.09		1.000				
295	4	69	81	0.000	6.851	6.000
57.09		1.000				
296	5	69	81	0.000	6.851	6.000
57.09		1.000				
297	2	68	81	0.000	6.851	6.000
57.09		1.000				
298	3	68	81	0.000	6.851	6.000
57.09		1.000				
299	4	68	81	0.000	6.851	6.000
57.09		1.000				
300	5	68	81	0.000	6.851	6.000
57.09		1.000				
301	2	67	81	0.000	6.851	6.000
57.09		1.000				
302	3	67	81	0.000	6.851	6.000
57.09		1.000				
303	4	67	81	0.000	6.851	6.000
57.09		1.000				
304	5	67	81	0.000	6.851	6.000
57.09		1.000				
305	2	66	81	0.000	6.851	6.000
57.09		1.000				
306	3	66	81	0.000	6.851	6.000
57.09		1.000				
307	4	66	81	0.000	6.851	6.000
57.09		1.000				
308	5	66	81	0.000	6.851	6.000
57.09		1.000				
309	2	65	81	0.000	6.851	6.000
57.09		1.000				
310	3	65	81	0.000	6.851	6.000
57.09		1.000				
311	4	65	81	0.000	6.851	6.000
57.09		1.000				
312	5	65	81	0.000	6.851	6.000
57.09		1.000				
313	2	64	81	0.000	6.851	6.000
57.09		1.000				
314	3	64	81	0.000	6.851	6.000
57.09		1.000				
315	4	64	81	0.000	6.851	6.000
57.09		1.000				
316	5	64	81	0.000	6.851	6.000
57.09		1.000				
317	2	63	81	0.000	6.851	6.000
57.09		1.000				
318	3	63	81	0.000	6.851	6.000
57.09		1.000				
319	4	63	81	0.000	6.851	6.000
57.09		1.000				
320	5	63	81	0.000	6.851	6.000
57.09		1.000				
321	2	62	81	0.000	6.851	6.000
57.09		1.000				
322	3	62	81	0.000	6.851	6.000
57.09		1.000				
323	4	62	81	0.000	6.851	6.000
57.09		1.000				
324	5	62	81	0.000	6.851	6.000
57.09		1.000				

```
     325        2     61      81        0.000           6.851           6.000
57.09                1.000
     326        3     61      81        0.000           6.851           6.000
57.09                1.000
     327        4     61      81        0.000           6.851           6.000
57.09                1.000
     328        5     61      81        0.000           6.851           6.000
57.09                1.000
     329        2     60      81        0.000           6.851           6.000
57.09                1.000
     330        3     60      81        0.000           6.851           6.000
57.09                1.000
     331        4     60      81        0.000           6.851           6.000
57.09                1.000
     332        5     60      81        0.000           6.851           6.000
57.09                1.000
     333        2     59      81        0.000           6.851           6.000
57.09                1.000
     334        3     59      81        0.000           6.851           6.000
57.09                1.000
     335        4     59      81        0.000           6.851           6.000
57.09                1.000
     336        5     59      81        0.000           6.851           6.000
57.09                1.000
     337        2     58      81        0.000           6.851           6.000
57.09                1.000
     338        3     58      81        0.000           6.851           6.000
57.09                1.000
     339        4     58      81        0.000           6.851           6.000
57.09                1.000
     340        5     58      81        0.000           6.851           6.000
57.09                1.000
     341        2     57      81        0.000           6.851           6.000
57.09                1.000
     342        3     57      81        0.000           6.851           6.000
57.09                1.000
     343        4     57      81        0.000           6.851           6.000
57.09                1.000
     344        5     57      81        0.000           6.851           6.000
57.09                1.000
     345        2     56      81        0.000           6.851           6.000
57.09                1.000
     346        3     56      81        0.000           6.851           6.000
57.09                1.000
     347        4     56      81        0.000           6.851           6.000
57.09                1.000
     348        5     56      81        0.000           6.851           6.000
57.09                1.000
     349        2     55      81        0.000           3.955           6.000
32.96                1.000
     350        3     55      81        0.000           3.955           6.000
32.96                1.000
     351        4     55      81        0.000           3.955           6.000
32.96                1.000
     352        5     55      81        0.000           3.955           6.000
32.96                1.000
     353        2     55      82        0.000           4.581           6.000
38.17                1.000
     354        3     55      82        0.000           4.581           6.000
38.17                1.000
     355        4     55      82        0.000           4.581           6.000
38.17                1.000
     356        5     55      82        0.000           4.581           6.000
```

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38.17              1.000
        357      2      54      82         0.000           2.960           6.000
24.67              1.000
        358      3      54      82         0.000           2.960           6.000
24.67              1.000
        359      4      54      82         0.000           2.960           6.000
24.67              1.000
        360      5      54      82         0.000           2.960           6.000
24.67              1.000
        361      2      54      83         0.000           7.448           6.000
62.07              1.000
        362      3      54      83         0.000           7.448           6.000
62.07              1.000
        363      4      54      83         0.000           7.448           6.000
62.07              1.000
        364      5      54      83         0.000           7.448           6.000
62.07              1.000
        365      2      53      83         0.000          0.9254E-01       6.000
0.7712              1.000
        366      3      53      83         0.000          0.9254E-01       6.000
0.7712              1.000
        367      4      53      83         0.000          0.9254E-01       6.000
0.7712              1.000
        368      5      53      83         0.000          0.9254E-01       6.000
0.7712              1.000
        369      2      53      84         0.000           7.541           6.000
62.84              1.000
        370      3      53      84         0.000           7.541           6.000
62.84              1.000
        371      4      53      84         0.000           7.541           6.000
62.84              1.000
        372      5      53      84         0.000           7.541           6.000
62.84              1.000
        373      2      53      85         0.000           2.775           6.000
23.12              1.000
        374      3      53      85         0.000           2.775           6.000
23.12              1.000
        375      4      53      85         0.000           2.775           6.000
23.12              1.000
        376      5      53      85         0.000           2.775           6.000
23.12              1.000
        377      2      52      85         0.000           4.766           6.000
39.72              1.000
        378      3      52      85         0.000           4.766           6.000
39.72              1.000
        379      4      52      85         0.000           4.766           6.000
39.72              1.000
        380      5      52      85         0.000           4.766           6.000
39.72              1.000
        381      2      52      86         0.000           5.642           6.000
47.02              1.000
        382      3      52      86         0.000           5.642           6.000
47.02              1.000
        383      4      52      86         0.000           5.642           6.000
47.02              1.000
        384      5      52      86         0.000           5.642           6.000
47.02              1.000
        385      2      51      86         0.000           1.899           6.000
15.82              1.000
        386      3      51      86         0.000           1.899           6.000
15.82              1.000
        387      4      51      86         0.000           1.899           6.000
15.82              1.000
```

388	5	51	86	0.000	1.899	6.000
15.82		1.000				
389	2	51	87	0.000	7.541	6.000
62.84		1.000				
390	3	51	87	0.000	7.541	6.000
62.84		1.000				
391	4	51	87	0.000	7.541	6.000
62.84		1.000				
392	5	51	87	0.000	7.541	6.000
62.84		1.000				
393	2	51	88	0.000	0.9687	6.000
8.072		1.000				
394	3	51	88	0.000	0.9687	6.000
8.072		1.000				
395	4	51	88	0.000	0.9687	6.000
8.072		1.000				
396	5	51	88	0.000	0.9687	6.000
8.072		1.000				
397	2	50	88	0.000	6.572	6.000
54.77		1.000				
398	3	50	88	0.000	6.572	6.000
54.77		1.000				
399	4	50	88	0.000	6.572	6.000
54.77		1.000				
400	5	50	88	0.000	6.572	6.000
54.77		1.000				
401	2	50	89	0.000	3.836	6.000
31.97		1.000				
402	3	50	89	0.000	3.836	6.000
31.97		1.000				
403	4	50	89	0.000	3.836	6.000
31.97		1.000				
404	5	50	89	0.000	3.836	6.000
31.97		1.000				
405	2	49	89	0.000	3.705	6.000
30.87		1.000				
406	3	49	89	0.000	3.705	6.000
30.87		1.000				
407	4	49	89	0.000	3.705	6.000
30.87		1.000				
408	5	49	89	0.000	3.705	6.000
30.87		1.000				
409	2	49	90	0.000	6.703	6.000
55.86		1.000				
410	3	49	90	0.000	6.703	6.000
55.86		1.000				
411	4	49	90	0.000	6.703	6.000
55.86		1.000				
412	5	49	90	0.000	6.703	6.000
55.86		1.000				
413	2	48	90	0.000	0.8374	6.000
6.978		1.000				
414	3	48	90	0.000	0.8374	6.000
6.978		1.000				
415	4	48	90	0.000	0.8374	6.000
6.978		1.000				
416	5	48	90	0.000	0.8374	6.000
6.978		1.000				
417	2	48	91	0.000	7.541	6.000
62.84		1.000				
418	3	48	91	0.000	7.541	6.000
62.84		1.000				
419	4	48	91	0.000	7.541	6.000

```
62.84           1.000
    420       5    48     91      0.000          7.541          6.000
62.84           1.000
    421       2    48     92      0.000          2.030          6.000
16.92           1.000
    422       3    48     92      0.000          2.030          6.000
16.92           1.000
    423       4    48     92      0.000          2.030          6.000
16.92           1.000
    424       5    48     92      0.000          2.030          6.000
16.92           1.000
    425       2    47     92      0.000          5.511          6.000
45.92           1.000
    426       3    47     92      0.000          5.511          6.000
45.92           1.000
    427       4    47     92      0.000          5.511          6.000
45.92           1.000
    428       5    47     92      0.000          5.511          6.000
45.92           1.000
    429       2    47     93      0.000         0.1374          6.000
1.145           1.000
    430       3    47     93      0.000         0.1374          6.000
1.145           1.000
    431       4    47     93      0.000         0.1374          6.000
1.145           1.000
    432       5    47     93      0.000         0.1374          6.000
1.145           1.000

    432 DRAINS

 BOUND. NO. LAYER   ROW   COL     STAGE      CONDUCTANCE        IFACE
CONDFACT        CELLGRP

------------------------------------------------------------------------------------
----------------------------
      1       5    18     74      3700.          3.986          6.000
0.6643           1.000
      2       5    18     73      3700.          284.7          6.000
47.45           1.000
      3       5    18     72      3700.          284.7          6.000
47.45           1.000
      4       5    18     71      3700.          284.7          6.000
47.45           1.000
      5       5    18     70      3700.          284.7          6.000
47.45           1.000
      6       5    18     69      3700.          284.7          6.000
47.45           1.000
      7       5    18     68      3700.          284.7          6.000
47.45           1.000
      8       5    18     67      3700.          150.4          6.000
25.07           1.000
      9       5    17     67      3700.          134.3          6.000
22.38           1.000
     10       5    17     66      3700.          284.7          6.000
47.45           1.000
     11       5    17     65      3701.          284.7          6.000
47.45           1.000
     12       5    17     64      3701.          284.7          6.000
47.45           1.000
     13       5    17     63      3701.          284.7          6.000
47.45           1.000
     14       5    17     62      3701.          284.7          6.000
47.45           1.000
```

15	5	17	61	3701.	284.7	6.000
47.45		1.000				
16	5	17	60	3701.	284.7	6.000
47.45		1.000				
17	5	17	59	3701.	284.7	6.000
47.45		1.000				
18	5	17	58	3701.	284.7	6.000
47.45		1.000				
19	5	17	57	3701.	284.7	6.000
47.45		1.000				
20	5	17	56	3701.	231.7	6.000
38.62		1.000				
21	5	16	56	3701.	342.6	6.000
57.10		1.000				
22	5	15	56	3701.	342.6	6.000
57.10		1.000				
23	5	14	56	3701.	342.6	6.000
57.10		1.000				
24	5	13	56	3701.	223.0	6.000
37.17		1.000				
25	5	13	57	3701.	119.6	6.000
19.93		1.000				
26	5	12	57	3702.	342.6	6.000
57.10		1.000				
27	5	11	57	3702.	342.6	6.000
57.10		1.000				
28	5	10	57	3702.	342.6	6.000
57.10		1.000				
29	5	9	57	3702.	342.6	6.000
57.10		1.000				
30	5	8	57	3702.	342.6	6.000
57.10		1.000				
31	5	7	57	3702.	342.6	6.000
57.10		1.000				
32	5	6	57	3702.	342.6	6.000
57.10		1.000				
33	5	5	57	3702.	342.6	6.000
57.10		1.000				
34	5	4	57	3702.	342.6	6.000
57.10		1.000				
35	5	3	57	3702.	236.3	6.000
39.39		1.000				
36	5	3	56	3702.	284.4	6.000
47.40		1.000				
37	5	3	55	3702.	284.4	6.000
47.40		1.000				
38	5	3	54	3702.	284.4	6.000
47.40		1.000				
39	5	3	53	3702.	284.4	6.000
47.40		1.000				
40	5	3	52	3703.	284.4	6.000
47.40		1.000				
41	5	3	51	3703.	284.4	6.000
47.40		1.000				
42	5	3	50	3703.	284.4	6.000
47.40		1.000				
43	5	3	49	3703.	284.4	6.000
47.40		1.000				
44	5	3	48	3703.	284.4	6.000
47.40		1.000				
45	5	3	47	3703.	284.4	6.000
47.40		1.000				
46	5	3	46	3703.	284.4	6.000

47.40		1.000				
47	5	3	45	3703.	284.4	6.000
47.40		1.000				
48	5	3	44	3703.	284.4	6.000
47.40		1.000				
49	5	3	43	3703.	284.4	6.000
47.40		1.000				
50	5	3	42	3703.	284.4	6.000
47.40		1.000				
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47.40		1.000				
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47.40		1.000				
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47.40		1.000				
54	5	3	38	3703.	284.4	6.000
47.40		1.000				
55	5	3	37	3704.	284.4	6.000
47.40		1.000				
56	5	3	36	3704.	284.4	6.000
47.40		1.000				
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47.40		1.000				
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43.03		1.000				
59	5	2	34	3704.	26.26	6.000
4.377		1.000				
60	5	2	33	3704.	284.4	6.000
47.40		1.000				
61	5	2	32	3704.	284.4	6.000
47.40		1.000				
62	5	2	31	3704.	284.4	6.000
47.40		1.000				
63	5	2	30	3704.	284.4	6.000
47.40		1.000				
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47.40		1.000				
65	5	2	28	3704.	284.4	6.000
47.40		1.000				
66	5	2	27	3704.	284.4	6.000
47.40		1.000				
67	5	2	26	3704.	284.4	6.000
47.40		1.000				
68	5	2	25	3704.	284.4	6.000
47.40		1.000				
69	5	2	24	3704.	284.4	6.000
47.40		1.000				
70	5	2	23	3704.	284.4	6.000
47.40		1.000				
71	5	2	22	3704.	284.4	6.000
47.40		1.000				
72	5	2	21	3705.	284.4	6.000
47.40		1.000				
73	5	2	20	3705.	284.4	6.000
47.40		1.000				
74	5	2	19	3705.	284.4	6.000
47.40		1.000				
75	5	2	18	3705.	284.4	6.000
47.40		1.000				
76	5	2	17	3705.	284.4	6.000
47.40		1.000				
77	5	2	16	3705.	284.4	6.000
47.40		1.000				

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47.40                1.000
      79        5       2       14          3705.          49.38            6.000
8.229                1.000
      80        5      66       28          3711.         0.1294E+05        6.000
12.94                2.000
      81        5      65       28          3711.         0.5709E+05        6.000
57.09                2.000
      82        5      64       28          3711.         0.5709E+05        6.000
57.09                2.000
      83        5      63       28          3711.         0.5709E+05        6.000
57.09                2.000
      84        5      62       28          3711.         0.5709E+05        6.000
57.09                2.000
      85        5      61       28          3711.         0.5086E+05        6.000
50.86                2.000
      86        5      61       29          3711.          6221.            6.000
6.221                2.000
      87        5      60       29          3710.         0.5709E+05        6.000
57.09                2.000
      88        5      59       29          3710.         0.5709E+05        6.000
57.09                2.000
      89        5      58       29          3710.         0.5709E+05        6.000
57.09                2.000
      90        5      57       29          3710.         0.5709E+05        6.000
57.09                2.000
      91        5      56       29          3710.         0.5709E+05        6.000
57.09                2.000
      92        5      55       29          3710.         0.5709E+05        6.000
57.09                2.000
      93        5      54       29          3710.         0.5709E+05        6.000
57.09                2.000
      94        5      53       29          3710.         0.5709E+05        6.000
57.09                2.000
      95        5      52       29          3710.         0.5709E+05        6.000
57.09                2.000
      96        5      51       29          3710.         0.5709E+05        6.000
57.09                2.000
      97        5      50       29          3710.         0.5709E+05        6.000
57.09                2.000
      98        5      49       29          3709.         0.5709E+05        6.000
57.09                2.000
      99        5      48       29          3709.         0.5709E+05        6.000
57.09                2.000
     100        5      47       29          3709.         0.5709E+05        6.000
57.09                2.000
     101        5      46       29          3709.         0.5709E+05        6.000
57.09                2.000
     102        5      45       29          3709.         0.4582E+05        6.000
45.82                2.000
     103        5      45       30          3709.         0.1127E+05        6.000
11.27                2.000
     104        5      44       30          3709.         0.5709E+05        6.000
57.09                2.000
     105        5      43       30          3709.         0.5709E+05        6.000
57.09                2.000
     106        5      42       30          3709.         0.5709E+05        6.000
57.09                2.000
     107        5      41       30          3709.         0.5709E+05        6.000
57.09                2.000
     108        5      40       30          3709.         0.5709E+05        6.000
57.09                2.000
     109        5      39       30          3709.         0.5709E+05        6.000
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57.09          2.000
   110      5     38     30      3709.        0.5709E+05      6.000
57.09          2.000
   111      5     37     30      3708.        0.5709E+05      6.000
57.09          2.000
   112      5     36     30      3708.        0.5709E+05      6.000
57.09          2.000
   113      5     35     30      3708.        0.5709E+05      6.000
57.09          2.000
   114      5     34     30      3708.        0.5709E+05      6.000
57.09          2.000
   115      5     33     30      3708.        0.5709E+05      6.000
57.09          2.000
   116      5     32     30      3708.        0.5709E+05      6.000
57.09          2.000
   117      5     31     30      3708.        0.5869E+05      6.000
58.69          2.000
   118      5     30     30      3708.        0.6275E+05      6.000
62.75          2.000
   119      5     29     30      3708.        0.1850E+05      6.000
18.50          2.000
   120      5     29     29      3708.        0.4425E+05      6.000
44.25          2.000
   121      5     28     29      3708.        0.6275E+05      6.000
62.75          2.000
   122      5     27     29      3708.         6315.          6.000
6.315          2.000
   123      5     27     28      3707.        0.5644E+05      6.000
56.44          2.000
   124      5     26     28      3707.        0.5688E+05      6.000
56.88          2.000
   125      5     26     27      3707.         5875.          6.000
5.875          2.000
   126      5     25     27      3707.        0.6275E+05      6.000
62.75          2.000
   127      5     24     27      3707.        0.4469E+05      6.000
44.69          2.000
   128      5     24     26      3707.        0.1807E+05      6.000
18.07          2.000
   129      5     23     26      3707.        0.6275E+05      6.000
62.75          2.000
   130      5     22     26      3707.        0.3250E+05      6.000
32.50          2.000
   131      5     22     25      3707.        0.3026E+05      6.000
30.26          2.000
   132      5     21     25      3707.        0.6275E+05      6.000
62.75          2.000
   133      5     20     25      3707.        0.2031E+05      6.000
20.31          2.000
   134      5     20     24      3707.        0.4245E+05      6.000
42.45          2.000
   135      5     19     24      3707.        0.6275E+05      6.000
62.75          2.000
   136      5     18     24      3707.         8116.          6.000
8.116          2.000
   137      5     18     23      3707.        0.5464E+05      6.000
54.64          2.000
   138      5     17     23      3707.        0.5868E+05      6.000
58.68          2.000
   139      5     17     22      3706.         4074.          6.000
4.074          2.000
   140      5     16     22      3706.        0.6275E+05      6.000
62.75          2.000
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141	5	15	22	3706.	0.4649E+05	6.000
46.49		2.000				
142	5	15	21	3706.	0.1626E+05	6.000
16.26		2.000				
143	5	14	21	3706.	0.6275E+05	6.000
62.75		2.000				
144	5	13	21	3706.	0.3430E+05	6.000
34.30		2.000				
145	5	13	20	3706.	0.2845E+05	6.000
28.45		2.000				
146	5	12	20	3706.	0.6275E+05	6.000
62.75		2.000				
147	5	11	20	3706.	0.2211E+05	6.000
22.11		2.000				
148	5	11	19	3706.	0.4064E+05	6.000
40.64		2.000				
149	5	10	19	3706.	0.6275E+05	6.000
62.75		2.000				
150	5	9	19	3706.	9917.	6.000
9.917		2.000				
151	5	9	18	3706.	0.5283E+05	6.000
52.83		2.000				
152	5	8	18	3706.	0.6048E+05	6.000
60.48		2.000				
153	5	8	17	3706.	2273.	6.000
2.273		2.000				
154	5	7	17	3706.	0.6275E+05	6.000
62.75		2.000				
155	5	6	17	3705.	0.4829E+05	6.000
48.29		2.000				
156	5	6	16	3705.	0.1446E+05	6.000
14.46		2.000				
157	5	5	16	3705.	0.6275E+05	6.000
62.75		2.000				
158	5	4	16	3705.	0.3610E+05	6.000
36.10		2.000				
159	5	4	15	3705.	0.2665E+05	6.000
26.65		2.000				
160	5	3	15	3705.	0.6275E+05	6.000
62.75		2.000				
161	5	2	15	3705.	0.2391E+05	6.000
23.91		2.000				
162	5	2	14	3705.	0.1967E+05	6.000
19.67		2.000				
163	5	97	46	3704.	0.3208E+05	6.000
32.08		3.000				
164	5	97	45	3704.	0.3684E+05	6.000
36.84		3.000				
165	5	96	45	3704.	0.3662E+05	6.000
36.62		3.000				
166	5	96	44	3704.	0.3795E+05	6.000
37.95		3.000				
167	5	95	44	3704.	0.3551E+05	6.000
35.51		3.000				
168	5	95	43	3705.	0.3906E+05	6.000
39.06		3.000				
169	5	94	43	3705.	0.3440E+05	6.000
34.40		3.000				
170	5	94	42	3705.	0.4017E+05	6.000
40.17		3.000				
171	5	93	42	3705.	0.3329E+05	6.000
33.29		3.000				
172	5	93	41	3705.	0.4129E+05	6.000

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41.29              3.000
         173     5     92     41     3705.     0.3217E+05     6.000
32.17              3.000
         174     5     92     40     3705.     0.4240E+05     6.000
42.40              3.000
         175     5     91     40     3705.     0.3106E+05     6.000
31.06              3.000
         176     5     91     39     3705.     0.4351E+05     6.000
43.51              3.000
         177     5     90     39     3706.     0.2995E+05     6.000
29.95              3.000
         178     5     90     38     3706.     0.4462E+05     6.000
44.62              3.000
         179     5     89     38     3706.     0.2884E+05     6.000
28.84              3.000
         180     5     89     37     3706.     0.4574E+05     6.000
45.74              3.000
         181     5     88     37     3706.     0.2772E+05     6.000
27.72              3.000
         182     5     88     36     3706.     0.4685E+05     6.000
46.85              3.000
         183     5     87     36     3706.     0.5774E+05     6.000
57.74              3.000
         184     5     86     36     3706.     0.5705E+05     6.000
57.05              3.000
         185     5     85     36     3707.     0.5705E+05     6.000
57.05              3.000
         186     5     84     36     3707.     0.5705E+05     6.000
57.05              3.000
         187     5     83     36     3707.     0.5705E+05     6.000
57.05              3.000
         188     5     82     36     3707.     0.5705E+05     6.000
57.05              3.000
         189     5     81     36     3707.     0.5705E+05     6.000
57.05              3.000
         190     5     80     36     3707.     0.5705E+05     6.000
57.05              3.000
         191     5     79     36     3708.     0.5705E+05     6.000
57.05              3.000
         192     5     78     36     3708.     0.5705E+05     6.000
57.05              3.000
         193     5     77     36     3708.     0.5705E+05     6.000
57.05              3.000
         194     5     76     36     3708.     0.5705E+05     6.000
57.05              3.000
         195     5     75     36     3708.     0.5705E+05     6.000
57.05              3.000
         196     5     74     36     3708.     0.5705E+05     6.000
57.05              3.000
         197     5     73     36     3709.     0.5705E+05     6.000
57.05              3.000
         198     5     72     36     3709.     0.2976E+05     6.000
29.76              3.000
         199     5     72     37     3709.     0.2728E+05     6.000
27.28              3.000
         200     5     71     37     3709.     0.5705E+05     6.000
57.05              3.000
         201     5     70     37     3709.     0.5705E+05     6.000
57.05              3.000
         202     5     69     37     3709.     0.5705E+05     6.000
57.05              3.000
         203     5     68     37     3709.     0.5705E+05     6.000
57.05              3.000
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      204         5      67      37         3710.          0.5705E+05        6.000
  57.05                 3.000
      205         5      66      37         3710.          0.2703E+05        6.000
  27.03                 3.000
      206         5      66      36         3710.          0.4748E+05        6.000
  47.48                 3.000
      207         5      66      35         3710.          0.4748E+05        6.000
  47.48                 3.000
      208         5      66      34         3710.          0.4748E+05        6.000
  47.48                 3.000
      209         5      66      33         3710.          0.4748E+05        6.000
  47.48                 3.000
      210         5      66      32         3710.          0.4748E+05        6.000
  47.48                 3.000
      211         5      66      31         3711.          0.4748E+05        6.000
  47.48                 3.000
      212         5      66      30         3711.          0.4748E+05        6.000
  47.48                 3.000
      213         5      66      29         3711.          0.4748E+05        6.000
  47.48                 3.000
      214         5      66      28         3711.          0.1527E+05        6.000
  15.27                 3.000
      215         5      47      93         3705.          0.1811E-01        6.000
  1.811                 4.000
      216         5      47      92         3705.          0.2785            6.000
  27.85                 4.000
      217         5      46      92         3705.          0.6485            6.000
  64.85                 4.000
      218         5      45      92         3705.          0.6669E-01        6.000
  6.669                 4.000
      219         5      45      91         3705.          0.5818            6.000
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      220         5      44      91         3705.          0.4118            6.000
  41.18                 4.000
      221         5      44      90         3704.          0.2366            6.000
  23.66                 4.000
      222         5      43      90         3704.          0.6485            6.000
  64.85                 4.000
      223         5      42      90         3704.          0.1085            6.000
  10.85                 4.000
      224         5      42      89         3704.          0.5400            6.000
  54.00                 4.000
      225         5      41      89         3704.          0.4536            6.000
  45.36                 4.000
      226         5      41      88         3704.          0.1948            6.000
  19.48                 4.000
      227         5      40      88         3704.          0.6485            6.000
  64.85                 4.000
      228         5      39      88         3704.          0.1503            6.000
  15.03                 4.000
      229         5      39      87         3704.          0.4982            6.000
  49.82                 4.000
      230         5      38      87         3703.          0.4954            6.000
  49.54                 4.000
      231         5      38      86         3703.          0.1530            6.000
  15.30                 4.000
      232         5      37      86         3703.          0.6485            6.000
  64.85                 4.000
      233         5      36      86         3703.          0.1921            6.000
  19.21                 4.000
      234         5      36      85         3703.          0.4564            6.000
  45.64                 4.000
      235         5      35      85         3703.          0.5372            6.000
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53.72            4.000
    236       5    35     84        3703.          0.1112           6.000
11.12            4.000
    237       5    34     84        3703.          0.6485           6.000
64.85            4.000
    238       5    33     84        3703.          0.2339           6.000
23.39            4.000
    239       5    33     83        3703.          0.4146           6.000
41.46            4.000
    240       5    32     83        3702.          0.5790           6.000
57.90            4.000
    241       5    32     82        3702.          0.6944E-01       6.000
6.944            4.000
    242       5    31     82        3702.          0.6485           6.000
64.85            4.000
    243       5    30     82        3702.          0.2757           6.000
27.57            4.000
    244       5    30     81        3702.          0.3728           6.000
37.28            4.000
    245       5    29     81        3702.          0.6208           6.000
62.08            4.000
    246       5    29     80        3702.          0.2763E-01       6.000
2.763            4.000
    247       5    28     80        3702.          0.6485           6.000
64.85            4.000
    248       5    27     80        3702.          0.3175           6.000
31.75            4.000
    249       5    27     79        3702.          0.3310           6.000
33.10            4.000
    250       5    26     79        3701.          0.6485           6.000
64.85            4.000
    251       5    25     79        3701.          0.1417E-01       6.000
1.417            4.000
    252       5    25     78        3701.          0.6343           6.000
63.43            4.000
    253       5    24     78        3701.          0.3593           6.000
35.93            4.000
    254       5    24     77        3701.          0.2892           6.000
28.92            4.000
    255       5    23     77        3701.          0.6485           6.000
64.85            4.000
    256       5    22     77        3701.          0.5597E-01       6.000
5.597            4.000
    257       5    22     76        3701.          0.5925           6.000
59.25            4.000
    258       5    21     76        3701.          0.4011           6.000
40.11            4.000
    259       5    21     75        3700.          0.2474           6.000
24.74            4.000
    260       5    20     75        3700.          0.6485           6.000
64.85            4.000
    261       5    19     75        3700.          0.9778E-01       6.000
9.778            4.000
    262       5    19     74        3700.          0.5507           6.000
55.07            4.000
    263       5    18     74        3700.          0.4290           6.000
42.90            4.000

    263 GHB CELLS

 CHD NO.   LAYER   ROW   COL    START HEAD        END HEAD
 ------------------------------------------------------------------
      1       1     47    93        690.6           690.6
```

2	1	47	92	1110.	1110.
3	1	48	92	1783.	1783.
4	1	48	91	1784.	1784.
5	1	48	90	1785.	1785.
6	1	49	90	1785.	1785.
7	1	49	89	1786.	1786.
8	1	50	89	1786.	1786.
9	1	50	88	1787.	1787.
10	1	51	88	1787.	1787.
11	1	51	87	1788.	1788.
12	1	51	86	1789.	1789.
13	1	52	86	1789.	1789.
14	1	52	85	1790.	1790.
15	1	53	85	1790.	1790.
16	1	53	84	1791.	1791.
17	1	53	83	1792.	1792.
18	1	54	83	1792.	1792.
19	1	54	82	1793.	1793.
20	1	55	82	1793.	1793.
21	1	55	81	1794.	1794.
22	1	56	81	1795.	1795.
23	1	57	81	1796.	1796.
24	1	58	81	1796.	1796.
25	1	59	81	1797.	1797.
26	1	60	81	1798.	1798.
27	1	61	81	1799.	1799.
28	1	62	81	1800.	1800.
29	1	63	81	1801.	1801.
30	1	64	81	1802.	1802.
31	1	65	81	1803.	1803.
32	1	66	81	1804.	1804.
33	1	67	81	1805.	1805.
34	1	68	81	1806.	1806.
35	1	69	81	1807.	1807.
36	1	70	81	1807.	1807.
37	1	70	80	1808.	1808.
38	1	71	80	1808.	1808.
39	1	72	80	1809.	1809.
40	1	73	80	1810.	1810.
41	1	73	79	1811.	1811.
42	1	73	78	1811.	1811.
43	1	74	78	1812.	1812.
44	1	74	77	1812.	1812.
45	1	74	76	1813.	1813.
46	1	74	75	1814.	1814.
47	1	75	75	1814.	1814.
48	1	75	74	1815.	1815.
49	1	75	73	1816.	1816.
50	1	76	73	1816.	1816.
51	1	76	72	1817.	1817.
52	1	76	71	1817.	1817.
53	1	77	71	1818.	1818.
54	1	77	70	1818.	1818.
55	1	77	69	1819.	1819.
56	1	77	68	1820.	1820.
57	1	77	67	1820.	1820.
58	1	76	67	1821.	1821.
59	1	76	66	1822.	1822.
60	1	75	66	1822.	1822.
61	1	75	65	1823.	1823.
62	1	74	65	1823.	1823.
63	1	73	65	1824.	1824.
64	1	73	64	1825.	1825.

65	1	72	64	1825.	1825.
66	1	72	63	1826.	1826.
67	1	72	62	1827.	1827.
68	1	73	62	1827.	1827.
69	1	73	61	1828.	1828.
70	1	74	61	1828.	1828.
71	1	75	61	1829.	1829.
72	1	76	61	1830.	1830.
73	1	76	60	1830.	1830.
74	1	77	60	1831.	1831.
75	1	78	60	1832.	1832.
76	1	78	59	1832.	1832.
77	1	79	59	1833.	1833.
78	1	80	59	1834.	1834.
79	1	81	59	1835.	1835.
80	1	81	58	1835.	1835.
81	1	82	58	1836.	1836.
82	1	83	58	1837.	1837.
83	1	83	57	1837.	1837.
84	1	84	57	1838.	1838.
85	1	84	56	1839.	1839.
86	1	84	55	1839.	1839.
87	1	85	55	1840.	1840.
88	1	85	54	1840.	1840.
89	1	85	53	1841.	1841.
90	1	85	52	1842.	1842.
91	1	85	51	1843.	1843.
92	1	86	51	1843.	1843.
93	1	86	50	1844.	1844.
94	1	86	49	1844.	1844.
95	1	86	48	1845.	1845.
96	1	86	47	1846.	1846.
97	1	87	47	1846.	1846.
98	1	87	46	151.7	151.7
99	1	2	14	541.2	541.2
100	1	2	15	1220.	1220.
101	1	2	16	1834.	1834.
102	1	2	17	1833.	1833.
103	1	2	18	1833.	1833.
104	1	2	19	1832.	1832.
105	1	2	20	1832.	1832.
106	1	2	21	1831.	1831.
107	1	2	22	1831.	1831.
108	1	2	23	1830.	1830.
109	1	2	24	1830.	1830.
110	1	2	25	1829.	1829.
111	1	2	26	1828.	1828.
112	1	2	27	1828.	1828.
113	1	2	28	1827.	1827.
114	1	2	29	1827.	1827.
115	1	2	30	1826.	1826.
116	1	2	31	1826.	1826.
117	1	2	32	1825.	1825.
118	1	2	33	1825.	1825.
119	1	2	34	1824.	1824.
120	1	3	34	1824.	1824.
121	1	3	35	1823.	1823.
122	1	3	36	1823.	1823.
123	1	3	37	1822.	1822.
124	1	3	38	1822.	1822.
125	1	3	39	1821.	1821.
126	1	3	40	1821.	1821.
127	1	3	41	1820.	1820.

128	1	3	42	1819.	1819.
129	1	3	43	1819.	1819.
130	1	3	44	1818.	1818.
131	1	3	45	1818.	1818.
132	1	3	46	1817.	1817.
133	1	3	47	1817.	1817.
134	1	3	48	1816.	1816.
135	1	3	49	1816.	1816.
136	1	3	50	1815.	1815.
137	1	3	51	1814.	1814.
138	1	3	52	1814.	1814.
139	1	3	53	1813.	1813.
140	1	3	54	122.0	122.0
141	1	2	14	1294.	1294.
142	1	2	15	615.3	615.3
143	1	3	15	1835.	1835.
144	1	4	15	1836.	1836.
145	1	4	16	1836.	1836.
146	1	5	16	1836.	1836.
147	1	6	16	1836.	1836.
148	1	6	17	1837.	1837.
149	1	7	17	1837.	1837.
150	1	8	17	1837.	1837.
151	1	8	18	1837.	1837.
152	1	9	18	1838.	1838.
153	1	9	19	1838.	1838.
154	1	10	19	1838.	1838.
155	1	11	19	1838.	1838.
156	1	11	20	1838.	1838.
157	1	12	20	1839.	1839.
158	1	13	20	1839.	1839.
159	1	13	21	1839.	1839.
160	1	14	21	1839.	1839.
161	1	15	21	1840.	1840.
162	1	15	22	1840.	1840.
163	1	16	22	1840.	1840.
164	1	17	22	1840.	1840.
165	1	17	23	1840.	1840.
166	1	18	23	1841.	1841.
167	1	18	24	1841.	1841.
168	1	19	24	1841.	1841.
169	1	20	24	1841.	1841.
170	1	20	25	1842.	1842.
171	1	21	25	1842.	1842.
172	1	22	25	1842.	1842.
173	1	22	26	1842.	1842.
174	1	23	26	1842.	1842.
175	1	24	26	1843.	1843.
176	1	24	27	1771.	1771.
177	1	87	36	93.94	93.94
178	1	88	36	1847.	1847.
179	1	88	37	1847.	1847.
180	1	89	37	1846.	1846.
181	1	89	38	1846.	1846.
182	1	90	38	1846.	1846.
183	1	90	39	1845.	1845.
184	1	91	39	1845.	1845.
185	1	91	40	1845.	1845.
186	1	92	40	1844.	1844.
187	1	92	41	1844.	1844.
188	1	93	41	1843.	1843.
189	1	93	42	1843.	1843.
190	1	94	42	1843.	1843.

191	1	94	43	1842.	1842.
192	1	95	43	1842.	1842.
193	1	95	44	1842.	1842.
194	1	96	44	1841.	1841.
195	1	96	45	1841.	1841.
196	1	97	45	1841.	1841.
197	1	97	46	696.2	696.2
198	1	18	74	1782.	1782.
199	1	19	74	1809.	1809.
200	1	19	75	1809.	1809.
201	1	20	75	1808.	1808.
202	1	21	75	1807.	1807.
203	1	21	76	1807.	1807.
204	1	22	76	1806.	1806.
205	1	22	77	1806.	1806.
206	1	23	77	1805.	1805.
207	1	24	77	1804.	1804.
208	1	24	78	1804.	1804.
209	1	25	78	1803.	1803.
210	1	25	79	1803.	1803.
211	1	26	79	1802.	1802.
212	1	27	79	1802.	1802.
213	1	27	80	1801.	1801.
214	1	28	80	1800.	1800.
215	1	29	80	1800.	1800.
216	1	29	81	1799.	1799.
217	1	30	81	1799.	1799.
218	1	30	82	1798.	1798.
219	1	31	82	1798.	1798.
220	1	32	82	1797.	1797.
221	1	32	83	1797.	1797.
222	1	33	83	1796.	1796.
223	1	33	84	1795.	1795.
224	1	34	84	1795.	1795.
225	1	35	84	1794.	1794.
226	1	35	85	1794.	1794.
227	1	36	85	1793.	1793.
228	1	36	86	1793.	1793.
229	1	37	86	1792.	1792.
230	1	38	86	1791.	1791.
231	1	38	87	1791.	1791.
232	1	39	87	1790.	1790.
233	1	39	88	1790.	1790.
234	1	40	88	1789.	1789.
235	1	41	88	1788.	1788.
236	1	41	89	1788.	1788.
237	1	42	89	1787.	1787.
238	1	42	90	1787.	1787.
239	1	43	90	1786.	1786.
240	1	44	90	1786.	1786.
241	1	44	91	1785.	1785.
242	1	45	91	1784.	1784.
243	1	45	92	1784.	1784.
244	1	46	92	1783.	1783.
245	1	47	92	672.9	672.9
246	1	47	93	1092.	1092.
247	1	66	28	995.9	995.9
248	1	66	29	1840.	1840.
249	1	66	30	1840.	1840.
250	1	66	31	1841.	1841.
251	1	66	32	1841.	1841.
252	1	66	33	1841.	1841.
253	1	66	34	1841.	1841.

254	1	66	35	1842.	1842.
255	1	66	36	1842.	1842.
256	1	66	37	1842.	1842.
257	1	67	37	1842.	1842.
258	1	68	37	1843.	1843.
259	1	69	37	1843.	1843.
260	1	70	37	1843.	1843.
261	1	71	37	1843.	1843.
262	1	72	37	1844.	1844.
263	1	72	36	1844.	1844.
264	1	73	36	1844.	1844.
265	1	74	36	1844.	1844.
266	1	75	36	1845.	1845.
267	1	76	36	1845.	1845.
268	1	77	36	1845.	1845.
269	1	78	36	1845.	1845.
270	1	79	36	1846.	1846.
271	1	80	36	1846.	1846.
272	1	81	36	1846.	1846.
273	1	82	36	1847.	1847.
274	1	83	36	1735.	1735.
275	1	24	27	72.26	72.26
276	1	25	27	1843.	1843.
277	1	26	27	1843.	1843.
278	1	26	28	1843.	1843.
279	1	27	28	1843.	1843.
280	1	27	29	1843.	1843.
281	1	28	29	1843.	1843.
282	1	29	29	1843.	1843.
283	1	29	30	1843.	1843.
284	1	30	30	1843.	1843.
285	1	31	30	1842.	1842.
286	1	32	30	1842.	1842.
287	1	33	30	1842.	1842.
288	1	34	30	1842.	1842.
289	1	35	30	1842.	1842.
290	1	36	30	1842.	1842.
291	1	37	30	1842.	1842.
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293	1	39	30	1842.	1842.
294	1	40	30	1842.	1842.
295	1	41	30	1842.	1842.
296	1	42	30	1842.	1842.
297	1	43	30	1842.	1842.
298	1	44	30	1842.	1842.
299	1	45	30	1842.	1842.
300	1	45	29	1841.	1841.
301	1	46	29	1841.	1841.
302	1	47	29	1841.	1841.
303	1	48	29	1841.	1841.
304	1	49	29	1841.	1841.
305	1	50	29	1841.	1841.
306	1	51	29	1841.	1841.
307	1	52	29	1841.	1841.
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310	1	55	29	1841.	1841.
311	1	56	29	1841.	1841.
312	1	57	29	1841.	1841.
313	1	58	29	1841.	1841.
314	1	59	29	1840.	1840.
315	1	60	29	1840.	1840.
316	1	61	29	1840.	1840.

317	1	61	28	1840.	1840.
318	1	62	28	1840.	1840.
319	1	63	28	1840.	1840.
320	1	64	28	1840.	1840.
321	1	65	28	1840.	1840.
322	1	66	28	844.1	844.1
323	1	3	54	1691.	1691.
324	1	3	55	1813.	1813.
325	1	3	56	1813.	1813.
326	1	3	57	1813.	1813.
327	1	4	57	1813.	1813.
328	1	5	57	1813.	1813.
329	1	6	57	1812.	1812.
330	1	7	57	1812.	1812.
331	1	8	57	1812.	1812.
332	1	9	57	1812.	1812.
333	1	10	57	1812.	1812.
334	1	11	57	1812.	1812.
335	1	12	57	1812.	1812.
336	1	13	57	1812.	1812.
337	1	13	56	1812.	1812.
338	1	14	56	1812.	1812.
339	1	15	56	1812.	1812.
340	1	16	56	1811.	1811.
341	1	17	56	1811.	1811.
342	1	17	57	1811.	1811.
343	1	17	58	1811.	1811.
344	1	17	59	1811.	1811.
345	1	17	60	1811.	1811.
346	1	17	61	1811.	1811.
347	1	17	62	1811.	1811.
348	1	17	63	1811.	1811.
349	1	17	64	1811.	1811.
350	1	17	65	1811.	1811.
351	1	17	66	1811.	1811.
352	1	17	67	1811.	1811.
353	1	18	67	1810.	1810.
354	1	18	68	1810.	1810.
355	1	18	69	1810.	1810.
356	1	18	70	1810.	1810.
357	1	18	71	1810.	1810.
358	1	18	72	1810.	1810.
359	1	18	73	1810.	1810.
360	1	18	74	27.60	27.60
361	1	83	36	112.0	112.0
362	1	84	36	1847.	1847.
363	1	85	36	1847.	1847.
364	1	86	36	1847.	1847.
365	1	87	36	1754.	1754.
366	1	87	46	1695.	1695.
367	1	88	46	1846.	1846.
368	1	89	46	1845.	1845.
369	1	90	46	1844.	1844.
370	1	91	46	1844.	1844.
371	1	92	46	1843.	1843.
372	1	93	46	1843.	1843.
373	1	94	46	1842.	1842.
374	1	95	46	1841.	1841.
375	1	96	46	1841.	1841.
376	1	97	46	1144.	1144.
377	1	47	93	701.2	701.2
378	1	47	92	1127.	1127.
379	1	48	92	1810.	1810.

380	1	48	91	1810.	1810.
381	1	48	90	1810.	1810.
382	1	49	90	1810.	1810.
383	1	49	89	1810.	1810.
384	1	50	89	1810.	1810.
385	1	50	88	1810.	1810.
386	1	51	88	1810.	1810.
387	1	51	87	1810.	1810.
388	1	51	86	1810.	1810.
389	1	52	86	1810.	1810.
390	1	52	85	1810.	1810.
391	1	53	85	1810.	1810.
392	1	53	84	1810.	1810.
393	1	53	83	1810.	1810.
394	1	54	83	1810.	1810.
395	1	54	82	1810.	1810.
396	1	55	82	1810.	1810.
397	1	55	81	1810.	1810.
398	1	56	81	1810.	1810.
399	1	57	81	1810.	1810.
400	1	58	81	1810.	1810.
401	1	59	81	1810.	1810.
402	1	60	81	1810.	1810.
403	1	61	81	1810.	1810.
404	1	62	81	1810.	1810.
405	1	63	81	1810.	1810.
406	1	64	81	1810.	1810.
407	1	65	81	1810.	1810.
408	1	66	81	1810.	1810.
409	1	67	81	1810.	1810.
410	1	68	81	1810.	1810.
411	1	69	81	1810.	1810.
412	1	70	81	1810.	1810.
413	1	70	80	1810.	1810.
414	1	71	80	1810.	1810.
415	1	72	80	1810.	1810.
416	1	73	80	1810.	1810.
417	1	73	79	1810.	1810.
418	1	73	78	1810.	1810.
419	1	74	78	1810.	1810.
420	1	74	77	1810.	1810.
421	1	74	76	1810.	1810.
422	1	74	75	1810.	1810.
423	1	75	75	1810.	1810.
424	1	75	74	1810.	1810.
425	1	75	73	1810.	1810.
426	1	76	73	1810.	1810.
427	1	76	72	1810.	1810.
428	1	76	71	1810.	1810.
429	1	77	71	1810.	1810.
430	1	77	70	1810.	1810.
431	1	77	69	1810.	1810.
432	1	77	68	1810.	1810.
433	1	77	67	1810.	1810.
434	1	76	67	1810.	1810.
435	1	76	66	1810.	1810.
436	1	75	66	1810.	1810.
437	1	75	65	1810.	1810.
438	1	74	65	1810.	1810.
439	1	73	65	1810.	1810.
440	1	73	64	1810.	1810.
441	1	72	64	1810.	1810.
442	1	72	63	1810.	1810.

443	1	72	62	1810.	1810.
444	1	73	62	1810.	1810.
445	1	73	61	1810.	1810.
446	1	74	61	1810.	1810.
447	1	75	61	1810.	1810.
448	1	76	61	1810.	1810.
449	1	76	60	1810.	1810.
450	1	77	60	1810.	1810.
451	1	78	60	1810.	1810.
452	1	78	59	1810.	1810.
453	1	79	59	1810.	1810.
454	1	80	59	1810.	1810.
455	1	81	59	1810.	1810.
456	1	81	58	1810.	1810.
457	1	82	58	1810.	1810.
458	1	83	58	1810.	1810.
459	1	83	57	1810.	1810.
460	1	84	57	1810.	1810.
461	1	84	56	1810.	1810.
462	1	84	55	1810.	1810.
463	1	85	55	1810.	1810.
464	1	85	54	1810.	1810.
465	1	85	53	1810.	1810.
466	1	85	52	1810.	1810.
467	1	85	51	1810.	1810.
468	1	86	51	1810.	1810.
469	1	86	50	1810.	1810.
470	1	86	49	1810.	1810.
471	1	86	48	1810.	1810.
472	1	86	47	1810.	1810.
473	1	87	47	1810.	1810.
474	1	87	46	148.7	148.7
475	1	2	14	533.9	533.9
476	1	2	15	1203.	1203.
477	1	2	16	1810.	1810.
478	1	2	17	1810.	1810.
479	1	2	18	1810.	1810.
480	1	2	19	1810.	1810.
481	1	2	20	1810.	1810.
482	1	2	21	1810.	1810.
483	1	2	22	1810.	1810.
484	1	2	23	1810.	1810.
485	1	2	24	1810.	1810.
486	1	2	25	1810.	1810.
487	1	2	26	1810.	1810.
488	1	2	27	1810.	1810.
489	1	2	28	1810.	1810.
490	1	2	29	1810.	1810.
491	1	2	30	1810.	1810.
492	1	2	31	1810.	1810.
493	1	2	32	1810.	1810.
494	1	2	33	1810.	1810.
495	1	2	34	1810.	1810.
496	1	3	34	1810.	1810.
497	1	3	35	1810.	1810.
498	1	3	36	1810.	1810.
499	1	3	37	1810.	1810.
500	1	3	38	1810.	1810.
501	1	3	39	1810.	1810.
502	1	3	40	1810.	1810.
503	1	3	41	1810.	1810.
504	1	3	42	1810.	1810.
505	1	3	43	1810.	1810.

506	1	3	44	1810.	1810.
507	1	3	45	1810.	1810.
508	1	3	46	1810.	1810.
509	1	3	47	1810.	1810.
510	1	3	48	1810.	1810.
511	1	3	49	1810.	1810.
512	1	3	50	1810.	1810.
513	1	3	51	1810.	1810.
514	1	3	52	1810.	1810.
515	1	3	53	1810.	1810.
516	1	3	54	121.8	121.8
517	1	2	14	1276.	1276.
518	1	2	15	606.8	606.8
519	1	3	15	1810.	1810.
520	1	4	15	1810.	1810.
521	1	4	16	1810.	1810.
522	1	5	16	1810.	1810.
523	1	6	16	1810.	1810.
524	1	6	17	1810.	1810.
525	1	7	17	1810.	1810.
526	1	8	17	1810.	1810.
527	1	8	18	1810.	1810.
528	1	9	18	1810.	1810.
529	1	9	19	1810.	1810.
530	1	10	19	1810.	1810.
531	1	11	19	1810.	1810.
532	1	11	20	1810.	1810.
533	1	12	20	1810.	1810.
534	1	13	20	1810.	1810.
535	1	13	21	1810.	1810.
536	1	14	21	1810.	1810.
537	1	15	21	1810.	1810.
538	1	15	22	1810.	1810.
539	1	16	22	1810.	1810.
540	1	17	22	1810.	1810.
541	1	17	23	1810.	1810.
542	1	18	23	1810.	1810.
543	1	18	24	1810.	1810.
544	1	19	24	1810.	1810.
545	1	20	24	1810.	1810.
546	1	20	25	1810.	1810.
547	1	21	25	1810.	1810.
548	1	22	25	1810.	1810.
549	1	22	26	1810.	1810.
550	1	23	26	1810.	1810.
551	1	24	26	1810.	1810.
552	1	24	27	1739.	1739.
553	1	87	36	92.03	92.03
554	1	88	36	1810.	1810.
555	1	88	37	1810.	1810.
556	1	89	37	1810.	1810.
557	1	89	38	1810.	1810.
558	1	90	38	1810.	1810.
559	1	90	39	1810.	1810.
560	1	91	39	1810.	1810.
561	1	91	40	1810.	1810.
562	1	92	40	1810.	1810.
563	1	92	41	1810.	1810.
564	1	93	41	1810.	1810.
565	1	93	42	1810.	1810.
566	1	94	42	1810.	1810.
567	1	94	43	1810.	1810.
568	1	95	43	1810.	1810.

569	1	95	44	1810.	1810.
570	1	96	44	1810.	1810.
571	1	96	45	1810.	1810.
572	1	97	45	1810.	1810.
573	1	97	46	684.8	684.8
574	1	18	74	1782.	1782.
575	1	19	74	1810.	1810.
576	1	19	75	1810.	1810.
577	1	20	75	1810.	1810.
578	1	21	75	1810.	1810.
579	1	21	76	1810.	1810.
580	1	22	76	1810.	1810.
581	1	22	77	1810.	1810.
582	1	23	77	1810.	1810.
583	1	24	77	1810.	1810.
584	1	24	78	1810.	1810.
585	1	25	78	1810.	1810.
586	1	25	79	1810.	1810.
587	1	26	79	1810.	1810.
588	1	27	79	1810.	1810.
589	1	27	80	1810.	1810.
590	1	28	80	1810.	1810.
591	1	29	80	1810.	1810.
592	1	29	81	1810.	1810.
593	1	30	81	1810.	1810.
594	1	30	82	1810.	1810.
595	1	31	82	1810.	1810.
596	1	32	82	1810.	1810.
597	1	32	83	1810.	1810.
598	1	33	83	1810.	1810.
599	1	33	84	1810.	1810.
600	1	34	84	1810.	1810.
601	1	35	84	1810.	1810.
602	1	35	85	1810.	1810.
603	1	36	85	1810.	1810.
604	1	36	86	1810.	1810.
605	1	37	86	1810.	1810.
606	1	38	86	1810.	1810.
607	1	38	87	1810.	1810.
608	1	39	87	1810.	1810.
609	1	39	88	1810.	1810.
610	1	40	88	1810.	1810.
611	1	41	88	1810.	1810.
612	1	41	89	1810.	1810.
613	1	42	89	1810.	1810.
614	1	42	90	1810.	1810.
615	1	43	90	1810.	1810.
616	1	44	90	1810.	1810.
617	1	44	91	1810.	1810.
618	1	45	91	1810.	1810.
619	1	45	92	1810.	1810.
620	1	46	92	1810.	1810.
621	1	47	92	683.2	683.2
622	1	47	93	1109.	1109.
623	1	66	28	979.7	979.7
624	1	66	29	1810.	1810.
625	1	66	30	1810.	1810.
626	1	66	31	1810.	1810.
627	1	66	32	1810.	1810.
628	1	66	33	1810.	1810.
629	1	66	34	1810.	1810.
630	1	66	35	1810.	1810.
631	1	66	36	1810.	1810.

632	1	66	37	1810.	1810.
633	1	67	37	1810.	1810.
634	1	68	37	1810.	1810.
635	1	69	37	1810.	1810.
636	1	70	37	1810.	1810.
637	1	71	37	1810.	1810.
638	1	72	37	1810.	1810.
639	1	72	36	1810.	1810.
640	1	73	36	1810.	1810.
641	1	74	36	1810.	1810.
642	1	75	36	1810.	1810.
643	1	76	36	1810.	1810.
644	1	77	36	1810.	1810.
645	1	78	36	1810.	1810.
646	1	79	36	1810.	1810.
647	1	80	36	1810.	1810.
648	1	81	36	1810.	1810.
649	1	82	36	1810.	1810.
650	1	83	36	1700.	1700.
651	1	24	27	70.96	70.96
652	1	25	27	1810.	1810.
653	1	26	27	1810.	1810.
654	1	26	28	1810.	1810.
655	1	27	28	1810.	1810.
656	1	27	29	1810.	1810.
657	1	28	29	1810.	1810.
658	1	29	29	1810.	1810.
659	1	29	30	1810.	1810.
660	1	30	30	1810.	1810.
661	1	31	30	1810.	1810.
662	1	32	30	1810.	1810.
663	1	33	30	1810.	1810.
664	1	34	30	1810.	1810.
665	1	35	30	1810.	1810.
666	1	36	30	1810.	1810.
667	1	37	30	1810.	1810.
668	1	38	30	1810.	1810.
669	1	39	30	1810.	1810.
670	1	40	30	1810.	1810.
671	1	41	30	1810.	1810.
672	1	42	30	1810.	1810.
673	1	43	30	1810.	1810.
674	1	44	30	1810.	1810.
675	1	45	30	1810.	1810.
676	1	45	29	1810.	1810.
677	1	46	29	1810.	1810.
678	1	47	29	1810.	1810.
679	1	48	29	1810.	1810.
680	1	49	29	1810.	1810.
681	1	50	29	1810.	1810.
682	1	51	29	1810.	1810.
683	1	52	29	1810.	1810.
684	1	53	29	1810.	1810.
685	1	54	29	1810.	1810.
686	1	55	29	1810.	1810.
687	1	56	29	1810.	1810.
688	1	57	29	1810.	1810.
689	1	58	29	1810.	1810.
690	1	59	29	1810.	1810.
691	1	60	29	1810.	1810.
692	1	61	29	1810.	1810.
693	1	61	28	1810.	1810.
694	1	62	28	1810.	1810.

695	1	63	28	1810.	1810.
696	1	64	28	1810.	1810.
697	1	65	28	1810.	1810.
698	1	66	28	830.3	830.3
699	1	3	54	1688.	1688.
700	1	3	55	1810.	1810.
701	1	3	56	1810.	1810.
702	1	3	57	1810.	1810.
703	1	4	57	1810.	1810.
704	1	5	57	1810.	1810.
705	1	6	57	1810.	1810.
706	1	7	57	1810.	1810.
707	1	8	57	1810.	1810.
708	1	9	57	1810.	1810.
709	1	10	57	1810.	1810.
710	1	11	57	1810.	1810.
711	1	12	57	1810.	1810.
712	1	13	57	1810.	1810.
713	1	13	56	1810.	1810.
714	1	14	56	1810.	1810.
715	1	15	56	1810.	1810.
716	1	16	56	1810.	1810.
717	1	17	56	1810.	1810.
718	1	17	57	1810.	1810.
719	1	17	58	1810.	1810.
720	1	17	59	1810.	1810.
721	1	17	60	1810.	1810.
722	1	17	61	1810.	1810.
723	1	17	62	1810.	1810.
724	1	17	63	1810.	1810.
725	1	17	64	1810.	1810.
726	1	17	65	1810.	1810.
727	1	17	66	1810.	1810.
728	1	17	67	1810.	1810.
729	1	18	67	1810.	1810.
730	1	18	68	1810.	1810.
731	1	18	69	1810.	1810.
732	1	18	70	1810.	1810.
733	1	18	71	1810.	1810.
734	1	18	72	1810.	1810.
735	1	18	73	1810.	1810.
736	1	18	74	27.60	27.60
737	1	83	36	109.7	109.7
738	1	84	36	1810.	1810.
739	1	85	36	1810.	1810.
740	1	86	36	1810.	1810.
741	1	87	36	1718.	1718.
742	1	87	46	1661.	1661.
743	1	88	46	1810.	1810.
744	1	89	46	1810.	1810.
745	1	90	46	1810.	1810.
746	1	91	46	1810.	1810.
747	1	92	46	1810.	1810.
748	1	93	46	1810.	1810.
749	1	94	46	1810.	1810.
750	1	95	46	1810.	1810.
751	1	96	46	1810.	1810.
752	1	97	46	1125.	1125.

752 TIME-VARIANT SPECIFIED-HEAD CELLS

SOLVING FOR HEAD

```
 OUTPUT CONTROL FOR STRESS PERIOD    1   TIME STEP   1
    PRINT BUDGET
    SAVE HEAD FOR ALL LAYERS
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT  40 AT TIME STEP  1, STRESS PERIOD   1
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT  40 AT TIME STEP  1, STRESS PERIOD   1
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT  40 AT TIME STEP  1, STRESS PERIOD   1
 UBDSV1 SAVING "FLOW LOWER FACE " ON UNIT  40 AT TIME STEP  1, STRESS PERIOD   1
 UBDSV4 SAVING "           WELLS" ON UNIT  40 AT TIME STEP  1, STRESS PERIOD   1
 UBDSV4 SAVING "          DRAINS" ON UNIT  40 AT TIME STEP  1, STRESS PERIOD   1
 UBDSV3 SAVING "              ET" ON UNIT  40 AT TIME STEP  1, STRESS PERIOD   1
 UBDSV4 SAVING " HEAD DEP BOUNDS" ON UNIT  40 AT TIME STEP  1, STRESS PERIOD   1
 UBDSV3 SAVING "        RECHARGE" ON UNIT  40 AT TIME STEP  1, STRESS PERIOD   1


 ***Link-MT3DMS Package***
 OPENING LINK-MT3DMS OUTPUT FILE: DRAIN_MEDK.hff


 ON UNIT NUMBER:   333
 FILE TYPE: UNFORMATTED
 HEADER OPTION: STANDARD
 ***Link-MT3DMS Package***


 SAVING SATURATED THICKNESS AND FLOW TERMS ON UNIT  333 FOR MT3DMS
 BY THE LINK-MT3DMS PACKAGE V6.3 AT TIME STEP    1, STRESS PERIOD    1


 HEAD WILL BE SAVED ON UNIT   30 AT END OF TIME STEP   1, STRESS PERIOD    1
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP  1 IN STRESS PERIOD   1
  ------------------------------------------------------------------------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP      L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =           0.0000
       CONSTANT HEAD =        1588.9982         CONSTANT HEAD =        1588.9982
               WELLS =           0.0000                 WELLS =           0.0000
              DRAINS =           0.0000                DRAINS =           0.0000
                  ET =           0.0000                    ET =           0.0000
     HEAD DEP BOUNDS =     1033758.3750       HEAD DEP BOUNDS =     1033758.3750
            RECHARGE =      964420.4375              RECHARGE =      964420.4375

            TOTAL IN =     1999767.7500              TOTAL IN =     1999767.7500

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =           0.0000
       CONSTANT HEAD =      966000.7500         CONSTANT HEAD =      966000.7500
               WELLS =        3100.0000                 WELLS =        3100.0000
              DRAINS =     1030587.9375                DRAINS =     1030587.9375
                  ET =           1.0073                    ET =           1.0073
     HEAD DEP BOUNDS =          74.8907       HEAD DEP BOUNDS =          74.8907
            RECHARGE =           0.0000              RECHARGE =           0.0000

           TOTAL OUT =     1999764.6250             TOTAL OUT =     1999764.6250

            IN - OUT =           3.1250              IN - OUT =           3.1250
```

```
 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =           0.00




         TIME SUMMARY AT END OF TIME STEP   1 IN STRESS PERIOD    1
                   SECONDS     MINUTES      HOURS       DAYS        YEARS
                   -----------------------------------------------------------
   TIME STEP LENGTH  86400.      1440.0      24.000      1.0000     2.73785E-03
 STRESS PERIOD TIME  86400.      1440.0      24.000      1.0000     2.73785E-03
         TOTAL TIME  86400.      1440.0      24.000      1.0000     2.73785E-03
1

 HEADS AT DRAIN CELLS ARE BELOW THE BOTTOM OF THE DRAIN AT THE CELLS LISTED
 BELOW.  THESE CONDITIONS DIMINISH THE IMPACT OF THE OBSERVATION ON ESTIMATES
 OF ALL PARAMETERS.  (SEE TEXT FOR MORE INFORMATION).

 OBS#      8, ID no_drnf0    , TIME STEP     1
    LAYER   ROW  COLUMN
      3     86     49
      3     86     50
      3     86     51
      3     85     53
      3     85     54
      3     85     55
      6 OF THE    432 REACHES OR CELLS USED TO SIMULATE THE GAIN OR LOSS ARE
                      AFFECTED.

 DATA AT HEAD LOCATIONS

        OBSERVATION     OBSER-     SIMUL.                             WEIGHTED
   OBS#     NAME        VATION     EQUIV.     RESIDUAL  WEIGHT**.5   RESIDUAL
                          *          *

      1 hed1           0.369E+04  0.344E+04   245.       0.653        160.
      2 hed2           0.370E+04  0.369E+04   10.7       0.653        6.98
      3 hed3           0.370E+04  0.352E+04   173.       0.653        113.
      4 hed4           0.370E+04  0.322E+04   480.       0.653        313.
      5 hed5           0.371E+04  0.362E+04   90.6       0.653        59.2
      6 hed6           0.370E+04  0.334E+04   362.       0.653        236.
      7 hed7           0.360E+04  0.339E+04   210.       0.653        137.

 * THE OBSERVATION (AND CORRESPONDING SIMULATED EQUIVALENT) IS HEAD OR TEMPORAL
   CHANGE IN HEAD, AS SPECIFIED IN THE "HOB" INPUT FILE.  NEGATIVE TEMPORAL
   CHANGES INDICATE DRAWDOWN.

 STATISTICS FOR HEAD RESIDUALS :
 MAXIMUM WEIGHTED RESIDUAL  :  313.     OBS#      4
 MINIMUM WEIGHTED RESIDUAL  :  6.98     OBS#      2
 AVERAGE WEIGHTED RESIDUAL  :  147.
 # RESIDUALS >= 0. :       7
 # RESIDUALS < 0.  :       0
 NUMBER OF RUNS  :    1  IN     7 OBSERVATIONS

 SUM OF SQUARED WEIGHTED RESIDUALS (HEADS ONLY)  0.21469E+06

 DATA FOR FLOWS REPRESENTED USING THE DRAIN PACKAGE

       OBSERVATION      MEAS.      CALC.                              WEIGHTED
  OBS#     NAME         FLOW       FLOW      RESIDUAL  WEIGHT**.5   RESIDUAL
```

```
    8 no_drnf0         1.00     -0.103E+07  0.103E+07  0.100E-18  0.103E-12

 STATISTICS FOR DRAIN FLOW RESIDUALS :
 MAXIMUM WEIGHTED RESIDUAL  : 0.103E-12 OBS#      8
 MINIMUM WEIGHTED RESIDUAL  : 0.103E-12 OBS#      8
 AVERAGE WEIGHTED RESIDUAL  : 0.103E-12
 # RESIDUALS >= 0. :       1
 # RESIDUALS < 0.  :       0
 NUMBER OF RUNS:      1  IN      1 OBSERVATIONS

 SUM OF SQUARED WEIGHTED RESIDUALS (DRAIN FLOWS ONLY)  0.10621E-25

 DATA FOR FLOWS REPRESENTED USING THE GENERAL-HEAD BOUNDARY PACKAGE

       OBSERVATION      MEAS.      CALC.                            WEIGHTED
  OBS#    NAME          FLOW       FLOW      RESIDUAL  WEIGHT**.5   RESIDUAL

     9 no_ghbf0         1.00       0.936E+05 -0.936E+05  0.100E-18 -0.936E-14
    10 no_ghbf1         1.00       0.173E+06 -0.173E+06  0.100E-18 -0.173E-13
    11 no_ghbf2         1.00       0.760E+06 -0.760E+06  0.100E-18 -0.760E-13
    12 no_ghbf3         1.00       0.764E+04 -0.764E+04  0.100E-18 -0.764E-15

 STATISTICS FOR GENERAL-HEAD BOUNDARY FLOW RESIDUALS :
 MAXIMUM WEIGHTED RESIDUAL  :-0.764E-15 OBS#     12
 MINIMUM WEIGHTED RESIDUAL  :-0.760E-13 OBS#     11
 AVERAGE WEIGHTED RESIDUAL  :-0.258E-13
 # RESIDUALS >= 0. :       0
 # RESIDUALS < 0.  :       4
 NUMBER OF RUNS:      1  IN      4 OBSERVATIONS

 SUM OF SQUARED WEIGHTED RESIDUALS
   (GENERAL-HEAD BOUNDARY FLOWS ONLY)  0.61610E-26

 DATA FOR FLOW OBSERVATIONS AT BOUNDARIES REPRESENTED AS CONSTANT-HEAD

       OBSERVATION      MEAS.      CALC.                            WEIGHTED
  OBS#    NAME          FLOW       FLOW      RESIDUAL  WEIGHT**.5   RESIDUAL

    13 no_chdf0         1.00     -0.133E+06  0.133E+06  0.100E-18  0.133E-13
    14 no_chdf1         1.00     -0.171E+04  0.171E+04  0.100E-18  0.171E-15
    15 no_chdf2         1.00     -0.268E+04  0.268E+04  0.100E-18  0.268E-15
    16 no_chdf3         1.00     -0.458E+05  0.458E+05  0.100E-18  0.458E-14
    17 no_chdf4         1.00     -0.133E+05  0.133E+05  0.100E-18  0.133E-14
    18 no_chdf5         1.00     -0.323E+04  0.323E+04  0.100E-18  0.323E-15
    19 no_chdf6         1.00     -0.111E+06  0.111E+06  0.100E-18  0.111E-13
    20 no_chdf7         1.00     -0.355E+05  0.355E+05  0.100E-18  0.355E-14
    21 no_chdf8         1.00     -0.692E+05  0.692E+05  0.100E-18  0.692E-14
    22 no_chdf9         1.00     -0.667E+05  0.667E+05  0.100E-18  0.667E-14
    23 no_chdf10        1.00     -0.134E+06  0.134E+06  0.100E-18  0.134E-13
    24 no_chdf11        1.00     -0.168E+04  0.168E+04  0.100E-18  0.168E-15
    25 no_chdf12        1.00     -0.262E+04  0.263E+04  0.100E-18  0.263E-15
    26 no_chdf13        1.00     -0.454E+05  0.454E+05  0.100E-18  0.454E-14
    27 no_chdf14        1.00     -0.131E+05  0.131E+05  0.100E-18  0.131E-14
    28 no_chdf15        1.00     -0.317E+04  0.317E+04  0.100E-18  0.317E-15
    29 no_chdf16        1.00     -0.112E+06  0.112E+06  0.100E-18  0.112E-13
    30 no_chdf17        1.00     -0.349E+05  0.349E+05  0.100E-18  0.349E-14
    31 no_chdf18        1.00     -0.680E+05  0.680E+05  0.100E-18  0.680E-14
    32 no_chdf19        1.00     -0.667E+05  0.667E+05  0.100E-18  0.667E-14

 STATISTICS FOR CONSTANT-HEAD BOUNDARY FLOW RESIDUALS :
 MAXIMUM WEIGHTED RESIDUAL  : 0.134E-13 OBS#     23
 MINIMUM WEIGHTED RESIDUAL  : 0.168E-15 OBS#     24
 AVERAGE WEIGHTED RESIDUAL  : 0.482E-14
```

```
# RESIDUALS >= 0. :      20
# RESIDUALS < 0.  :       0
NUMBER OF RUNS  :    1  IN   20 OBSERVATIONS

SUM OF SQUARED WEIGHTED RESIDUALS
  (CONSTANT-HEAD BOUNDARY FLOWS ONLY)  0.86012E-27

SUM OF SQUARED WEIGHTED RESIDUALS (ALL DEPENDENT VARIABLES)  0.21469E+06

STATISTICS FOR ALL RESIDUALS :
AVERAGE WEIGHTED RESIDUAL  : 0.321E+02
# RESIDUALS >= 0. :      28
# RESIDUALS < 0.  :       4
NUMBER OF RUNS  :    3  IN   32 OBSERVATIONS

INTERPRETING THE CALCULATED RUNS STATISTIC VALUE OF     -3.87
NOTE: THE FOLLOWING APPLIES ONLY IF
       # RESIDUALS >= 0 . IS GREATER THAN 10 AND
       # RESIDUALS < 0.   IS GREATER THAN 10
THE NEGATIVE VALUE MAY INDICATE TOO FEW RUNS:
   IF THE VALUE IS LESS THAN -1.28, THERE IS LESS THAN A 10 PERCENT
      CHANCE THE VALUES ARE RANDOM,
   IF THE VALUE IS LESS THAN -1.645, THERE IS LESS THAN A 5 PERCENT
      CHANCE THE VALUES ARE RANDOM,
   IF THE VALUE IS LESS THAN -1.96, THERE IS LESS THAN A 2.5 PERCENT
      CHANCE THE VALUES ARE RANDOM.


ORDERED DEPENDENT-VARIABLE WEIGHTED RESIDUALS
NUMBER OF RESIDUALS INCLUDED:        32
   -0.760E-13 -0.173E-13 -0.936E-14 -0.764E-15  0.168E-15  0.171E-15  0.263E-15
    0.268E-15  0.317E-15  0.323E-15  0.131E-14  0.133E-14  0.349E-14  0.355E-14
    0.454E-14  0.458E-14  0.667E-14  0.667E-14  0.680E-14  0.692E-14  0.111E-13
    0.112E-13  0.133E-13  0.134E-13  0.103E-12   6.98       59.2       113.
     137.       160.       236.       313.

CORRELATION BETWEEN ORDERED WEIGHTED RESIDUALS AND NORMAL ORDER STATISTICS
FOR OBSERVATIONS =    0.487

---------------------------------------------------------------------------
COMMENTS ON THE INTERPRETATION OF THE CORRELATION BETWEEN
WEIGHTED RESIDUALS AND NORMAL ORDER STATISTICS:

Generally, IF the reported CORRELATION is LESS than the critical value,
at the selected significance level (usually 5 or 10%), the hypothesis
that the weighted residuals are INDEPENDENT AND NORMALLY DISTRIBUTED
would be REJECTED.  HOWEVER, in this case, conditions are outside of
the range of published critical values as discussed below.

The sum of the number of observations and prior information items is    32
which is less than 35, the minimum value for which critical values are
published.  Therefore, the critical values for the 5 and 10% significance
levels are less than 0.943 and 0.952, respectively.

CORRELATIONS GREATER than these critical values indicate that, probably, the
weighted residuals ARE INDEPENDENT AND NORMALLY DISTRIBUTED.

Correlations LESS than these critical values MAY BE ACCEPTABLE, and
rejection of the hypothesis is not necessarily warranted.

The Kolmogorov-Smirnov test can be used to further evaluate the residuals.
---------------------------------------------------------------------------
```

```
25 50 1
 0.1 0.1 1.0 0 0 2 1.0
```

```
500 2.0 0.01 0.0
0 0 0 0 0 0.0 0.001 1.5 1
2 1 0
0.8 0.0 1
0 0 0
```

PEST RUN RECORD: CASE drain_medk

PEST run mode:-

Parameter estimation mode

Case dimensions:-

Number of parameters	:	3
Number of adjustable parameters	:	3
Number of parameter groups	:	1
Number of observations	:	32
Number of prior estimates	:	0

Model command line(s):-

start /w /min DRAIN_MEDK_bat1.bat

Jacobian command line:-

na

Model interface files:-

Templates:
DRAIN_MEDK.tpl_1
for model input files:
DRAIN_MEDK.snn_1

(Parameter values written using single precision protocol.)
(Decimal point always included.)

Instruction files:
DRAIN_MEDK.ins
for reading model output files:
DRAIN_MEDK._os

PEST-to-model message file:-

na

Derivatives calculation:-

Param group	Increment type	Increment	Increment low bound	Forward or central	Multiplier (central)	Method (central)
general	relative	1.0000E-02	none	switch	2.000	outside_pts

Parameter definitions:-

Name	Trans-formation	Change limit	Initial value	Lower bound	Upper bound
hk_800	none	factor	1.40000	1.000000E-03	20.0000
ghb_300	none	factor	0.100000	1.000000E-03	1000.00

```
ghb_400       none            factor     0.100000       1.000000E-03    1000.00

Name          Group            Scale         Offset        Model command number
hk_800        general        1.00000        0.00000             1
ghb_300       general        1.00000        0.00000             1
ghb_400       general        1.00000        0.00000             1


Prior information:-

   No prior information supplied


Observations:-

Observation name        Observation       Weight       Group
 hed1                    3689.73         0.6533       head
 hed2                    3698.05         0.6533       head
 hed3                    3696.72         0.6533       head
 hed4                    3700.85         0.6533       head
 hed5                    3706.41         0.6533       head
 hed6                    3702.56         0.6533       head
 hed7                    3604.85         0.6533       head
 no_drnf0                1.00000         1.0000E-19   drain
 no_ghbf0                1.00000         1.0000E-19   ghb
 no_ghbf1                1.00000         1.0000E-19   ghb
 no_ghbf2                1.00000         1.0000E-19   ghb
 no_ghbf3                1.00000         1.0000E-19   ghb
 no_chdf0                1.00000         1.0000E-19   const_head
 no_chdf1                1.00000         1.0000E-19   const_head
 no_chdf2                1.00000         1.0000E-19   const_head
 no_chdf3                1.00000         1.0000E-19   const_head
 no_chdf4                1.00000         1.0000E-19   const_head
 no_chdf5                1.00000         1.0000E-19   const_head
 no_chdf6                1.00000         1.0000E-19   const_head
 no_chdf7                1.00000         1.0000E-19   const_head
 no_chdf8                1.00000         1.0000E-19   const_head
 no_chdf9                1.00000         1.0000E-19   const_head
 no_chdf10               1.00000         1.0000E-19   const_head
 no_chdf11               1.00000         1.0000E-19   const_head
 no_chdf12               1.00000         1.0000E-19   const_head
 no_chdf13               1.00000         1.0000E-19   const_head
 no_chdf14               1.00000         1.0000E-19   const_head
 no_chdf15               1.00000         1.0000E-19   const_head
 no_chdf16               1.00000         1.0000E-19   const_head
 no_chdf17               1.00000         1.0000E-19   const_head
 no_chdf18               1.00000         1.0000E-19   const_head
 no_chdf19               1.00000         1.0000E-19   const_head


Control settings:-

   Initial lambda                                                 :  10.000
   Lambda adjustment factor                                       :  2.0000
   Sufficient new/old phi ratio per optimisation iteration        : 0.30000
   Limiting relative phi reduction between lambdas                : 3.00000E-02
   Maximum trial lambdas per iteration                            :  10

   Maximum  factor  parameter change (factor-limited changes)     :  5.0000
   Maximum relative parameter change (relative-limited changes) :   na
   Fraction of initial parameter values used in computing
   change limit for near-zero parameters                          : 1.00000E-03
   Allow bending of parameter upgrade vector                      : no
```

```
   Allow parameters to stick to their bounds                        : no

   Relative phi reduction below which to begin use of
   central derivatives                                              : 0.10000
   Iteration at which to first consider derivatives switch          :   1

   Relative phi reduction indicating convergence                    : 0.50000E-02
   Number of phi values required within this range                  :   3
   Maximum number of consecutive failures to lower phi              :   3
   Minimal relative parameter change indicating convergence         : 0.50000E-02
   Number of consecutive iterations with minimal param change       :   3
   Maximum number of optimisation iterations                        :  20

   Attempt automatic user intervention                              : no


                             OPTIMISATION RECORD


INITIAL CONDITIONS:
  Sum of squared weighted residuals (ie phi)                    =  5.96432E+06
  Contribution to phi from observation group "head"             =  5.96432E+06
  Contribution to phi from observation group "drain"            =  1.10606E-27
  Contribution to phi from observation group "ghb"              =  5.19598E-28
  Contribution to phi from observation group "const_head"       =  8.60117E-28

      Current parameter values
      hk_800           1.40000
      ghb_300          0.100000
      ghb_400          0.100000


OPTIMISATION ITERATION NO.        :    1
   Model calls so far             :    1
   Starting phi for this iteration                              :  5.96432E+06
   Contribution to phi from observation group "head"            :  5.96432E+06
   Contribution to phi from observation group "drain"           :  1.10606E-27
   Contribution to phi from observation group "ghb"             :  5.19598E-28
   Contribution to phi from observation group "const_head"      :  8.60117E-28

       Lambda =   10.000     ----->
          Phi =  4.64131E+06  (  0.778 of starting phi)

       Lambda =   5.0000     ----->
          Phi =  4.65244E+06  (  0.780 of starting phi)

       Lambda =   20.000     ----->
          Phi =  4.60993E+06  (  0.773 of starting phi)

   No more lambdas: relative phi reduction between lambdas less than 0.0300
   Lowest phi this iteration:  4.60993E+06

      Current parameter values                 Previous parameter values
      hk_800           1.48415                 hk_800           1.40000
      ghb_300          0.129349                ghb_300          0.100000
      ghb_400          0.500000                ghb_400          0.100000
   Maximum   factor change:  5.000     ["ghb_400"]
   Maximum relative change:  4.000     ["ghb_400"]


OPTIMISATION ITERATION NO.        :    2
   Model calls so far             :    7
```

```
    Starting phi for this iteration                               :  4.60993E+06
    Contribution to phi from observation group "head"             :  4.60993E+06
    Contribution to phi from observation group "drain"            :  1.78597E-27
    Contribution to phi from observation group "ghb"              :  1.06831E-27
    Contribution to phi from observation group "const_head"       :  8.60117E-28

        Lambda =   20.000     ----->
           Phi =  3.55099E+06  (  0.770 of starting phi)

        Lambda =   10.000     ----->
           Phi =  3.39595E+06  (  0.737 of starting phi)

        Lambda =   5.0000     ----->
           Phi =  3.14379E+06  (  0.682 of starting phi)

        Lambda =   2.5000     ----->
           Phi =  2.79143E+06  (  0.606 of starting phi)

        Lambda =   1.2500     ----->
           Phi =  2.39360E+06  (  0.519 of starting phi)

        Lambda =  0.62500     ----->
           Phi =  2.04644E+06  (  0.444 of starting phi)

        Lambda =  0.31250     ----->
           Phi =  1.81854E+06  (  0.394 of starting phi)

        Lambda =  0.15625     ----->
           Phi =  1.71610E+06  (  0.372 of starting phi)

        Lambda =  7.81250E-02 ----->
           Phi =  1.70503E+06  (  0.370 of starting phi)

    No more lambdas: relative phi reduction between lambdas less than 0.0300
    Lowest phi this iteration:  1.70503E+06

       Current parameter values                 Previous parameter values
       hk_800            5.18216                hk_800             1.48415
       ghb_300          0.646745                ghb_300           0.129349
       ghb_400           1.43227                ghb_400           0.500000
    Maximum   factor change:  5.000     ["ghb_300"]
    Maximum relative change:  4.000     ["ghb_300"]


 OPTIMISATION ITERATION NO.        :    3
    Model calls so far             :   19
    Starting phi for this iteration                               :  1.70503E+06
    Contribution to phi from observation group "head"             :  1.70503E+06
    Contribution to phi from observation group "drain"            :  5.37000E-27
    Contribution to phi from observation group "ghb"              :  3.04137E-27
    Contribution to phi from observation group "const_head"       :  8.60117E-28

        Lambda =  3.90625E-02 ----->
           Phi =  5.47796E+05  (  0.321 of starting phi)

        Lambda =  1.95313E-02 ----->
           Phi =  9.30803E+05  (  0.546 of starting phi)

        Lambda =  7.81250E-02 ----->
           Phi =  4.55218E+05  (  0.267 of starting phi)

    No more lambdas: phi is less than 0.3000 of starting phi
    Lowest phi this iteration:  4.55218E+05
```

```
      Current parameter values                  Previous parameter values
      hk_800            15.4941                 hk_800             5.18216
      ghb_300           2.84874                 ghb_300           0.646745
      ghb_400           1.96181                 ghb_400            1.43227
   Maximum   factor change:  4.405     ["ghb_300"]
   Maximum relative change:  3.405     ["ghb_300"]


OPTIMISATION ITERATION NO.        :    4
   Model calls so far             :   25
   Starting phi for this iteration                          :  4.55218E+05
   Contribution to phi from observation group "head"        :  4.55218E+05
   Contribution to phi from observation group "drain"       :  9.14219E-27
   Contribution to phi from observation group "ghb"         :  4.57530E-27
   Contribution to phi from observation group "const_head"  :  8.60117E-28

       Lambda =  7.81250E-02 ----->
          Phi =  2.74616E+05  (  0.603 of starting phi)

       Lambda =  3.90625E-02 ----->
          Phi =  2.78779E+05  (  0.612 of starting phi)

       Lambda =  0.15625     ----->
          Phi =  2.68722E+05  (  0.590 of starting phi)

   No more lambdas: relative phi reduction between lambdas less than 0.0300
   Lowest phi this iteration:  2.68722E+05

      Current parameter values                  Previous parameter values
      hk_800            20.0000                 hk_800             15.4941
      ghb_300           6.40365                 ghb_300            2.84874
      ghb_400           4.33429                 ghb_400            1.96181
   Maximum   factor change:  2.248     ["ghb_300"]
   Maximum relative change:  1.248     ["ghb_300"]


OPTIMISATION ITERATION NO.        :    5
   Model calls so far             :   31
   Starting phi for this iteration                          :  2.68722E+05
   Contribution to phi from observation group "head"        :  2.68722E+05
   Contribution to phi from observation group "drain"       :  1.02299E-26
   Contribution to phi from observation group "ghb"         :  5.35271E-27
   Contribution to phi from observation group "const_head"  :  8.60117E-28
       parameter "hk_800" frozen: gradient and update vectors out of bounds

       Lambda =  0.15625     ----->
          Phi =  2.33054E+05  (  0.867 of starting phi)

       Lambda =  7.81250E-02 ----->
          Phi =  2.33924E+05  (  0.871 of starting phi)

       Lambda =  0.31250     ----->
          Phi =  2.32109E+05  (  0.864 of starting phi)

   No more lambdas: relative phi reduction between lambdas less than 0.0300
   Lowest phi this iteration:  2.32109E+05

      Current parameter values                  Previous parameter values
      hk_800            20.0000                 hk_800             20.0000
      ghb_300           5.12387                 ghb_300            6.40365
      ghb_400           21.6715                 ghb_400            4.33429
   Maximum   factor change:  5.000     ["ghb_400"]
```

```
   Maximum relative change:  4.000     ["ghb_400"]


OPTIMISATION ITERATION NO.        :    6
   Model calls so far             :   37
   Starting phi for this iteration                          :  2.32109E+05
   Contribution to phi from observation group "head"        :  2.32109E+05
   Contribution to phi from observation group "drain"       :  1.05149E-26
   Contribution to phi from observation group "ghb"         :  6.11097E-27
   Contribution to phi from observation group "const_head"  :  8.60117E-28
   All frozen parameters freed.
       parameter "hk_800" frozen: gradient and update vectors out of bounds

       Lambda =  0.31250     ----->
          Phi =  2.19711E+05  (  0.947 of starting phi)

       Lambda =  0.15625     ----->
          Phi =  2.21358E+05  (  0.954 of starting phi)

       Lambda =  0.62500     ----->
          Phi =  2.18675E+05  (  0.942 of starting phi)

   No more lambdas: relative phi reduction between lambdas less than 0.0300
   Lowest phi this iteration:  2.18675E+05
   Relative phi reduction between optimisation iterations less than 0.1000
   Switch to central derivatives calculation

      Current parameter values                 Previous parameter values
      hk_800            20.0000                hk_800            20.0000
      ghb_300           22.0626                ghb_300           5.12387
      ghb_400           108.357                ghb_400           21.6715
   Maximum   factor change:  5.000     ["ghb_400"]
   Maximum relative change:  4.000     ["ghb_400"]


OPTIMISATION ITERATION NO.        :    7
   Model calls so far             :   43
   Starting phi for this iteration                          :  2.18675E+05
   Contribution to phi from observation group "head"        :  2.18675E+05
   Contribution to phi from observation group "drain"       :  1.05970E-26
   Contribution to phi from observation group "ghb"         :  6.16253E-27
   Contribution to phi from observation group "const_head"  :  8.60117E-28
   All frozen parameters freed.
       parameter "hk_800" frozen: gradient and update vectors out of bounds

       Lambda =  0.62500     ----->
          Phi =  2.15394E+05  (  0.985 of starting phi)

       Lambda =  0.31250     ----->
          Phi =  2.15725E+05  (  0.987 of starting phi)

       Lambda =   1.2500     ----->
          Phi =  2.15510E+05  (  0.986 of starting phi)

   No more lambdas: phi rising
   Lowest phi this iteration:  2.15394E+05

      Current parameter values                 Previous parameter values
      hk_800            20.0000                hk_800            20.0000
      ghb_300           82.5548                ghb_300           22.0626
      ghb_400           541.787                ghb_400           108.357
   Maximum   factor change:  5.000     ["ghb_400"]
   Maximum relative change:  4.000     ["ghb_400"]
```

```
OPTIMISATION ITERATION NO.        :    8
   Model calls so far             :   52
   Starting phi for this iteration                          :  2.15394E+05
   Contribution to phi from observation group "head"        :  2.15394E+05
   Contribution to phi from observation group "drain"       :  1.06177E-26
   Contribution to phi from observation group "ghb"         :  6.17348E-27
   Contribution to phi from observation group "const_head"  :  8.60117E-28
   All frozen parameters freed.
       parameter "hk_800" frozen: gradient and update vectors out of bounds

       Lambda =  0.62500     ----->
          Phi =  2.14791E+05  (  0.997 of starting phi)

       Lambda =  0.31250     ----->
          Phi =  2.14898E+05  (  0.998 of starting phi)

       Lambda =   1.2500     ----->
          Phi =  2.14750E+05  (  0.997 of starting phi)

   No more lambdas: relative phi reduction between lambdas less than 0.0300
   Lowest phi this iteration:  2.14750E+05

      Current parameter values                 Previous parameter values
      hk_800           20.0000                 hk_800            20.0000
      ghb_300          412.774                 ghb_300           82.5548
      ghb_400          1000.00                 ghb_400           541.787
   Maximum   factor change:  5.000     ["ghb_300"]
   Maximum relative change:  4.000     ["ghb_300"]


OPTIMISATION ITERATION NO.        :    9
   Model calls so far             :   61
   Starting phi for this iteration                          :  2.14750E+05
   Contribution to phi from observation group "head"        :  2.14750E+05
   Contribution to phi from observation group "drain"       :  1.06209E-26
   Contribution to phi from observation group "ghb"         :  6.16519E-27
   Contribution to phi from observation group "const_head"  :  8.60117E-28
   All frozen parameters freed.
       parameter "hk_800" frozen: gradient and update vectors out of bounds
       parameter "ghb_400" frozen: gradient and update vectors out of bounds

       Lambda =   1.2500     ----->
          Phi =  2.14685E+05  (  1.000 of starting phi)

       Lambda =  0.62500     ----->
          Phi =  2.14685E+05  (  1.000 of starting phi)

   No more lambdas: relative phi reduction between lambdas less than 0.0300
   Lowest phi this iteration:  2.14685E+05

      Current parameter values                 Previous parameter values
      hk_800           20.0000                 hk_800            20.0000
      ghb_300          1000.00                 ghb_300           412.774
      ghb_400          1000.00                 ghb_400           1000.00
   Maximum   factor change:  2.423     ["ghb_300"]
   Maximum relative change:  1.423     ["ghb_300"]

   Optimisation complete: the  3 lowest phi's are within a relative distance
                       of eachother of 5.000E-03
   Total model calls:   69
```

The model has been run one final time using best parameters.
Thus all model input files contain best parameter values, and model
output files contain model results based on these parameters.

OPTIMISATION RESULTS

Parameters ----->

Parameter	Estimated value	95% percent confidence limits lower limit	upper limit
hk_800	20.0000	-2.82854	42.8285
ghb_300	1000.00	-616755.	618755.
ghb_400	1000.00	-1.154597E+06	1.156597E+06

Note: confidence limits provide only an indication of parameter uncertainty.
They rely on a linearity assumption which may not extend as far in
parameter space as the confidence limits themselves - see PEST manual.

See file drain_medk.sen for parameter sensitivities.

Observations ----->

Observation	Measured value	Calculated value	Residual	Weight	Group
hed1	3689.73	3444.85	244.883	0.6533	head
hed2	3698.05	3687.37	10.6820	0.6533	head
hed3	3696.72	3524.02	172.702	0.6533	head
hed4	3700.85	3221.15	479.701	0.6533	head
hed5	3706.41	3615.78	90.6290	0.6533	head
hed6	3702.56	3341.05	361.513	0.6533	head
hed7	3604.85	3394.97	209.885	0.6533	head
no_drnf0	1.00000	-1.030587E+06	1.030588E+06	1.0000E-19	drain
no_ghbf0	1.00000	93562.5	-93561.5	1.0000E-19	ghb
no_ghbf1	1.00000	172528.	-172527.	1.0000E-19	ghb
no_ghbf2	1.00000	759951.	-759950.	1.0000E-19	ghb
no_ghbf3	1.00000	7642.56	-7641.56	1.0000E-19	ghb
no_chdf0	1.00000	-133333.	133334.	1.0000E-19	const_head
no_chdf1	1.00000	-1711.65	1712.65	1.0000E-19	const_head
no_chdf2	1.00000	-2675.52	2676.52	1.0000E-19	const_head
no_chdf3	1.00000	-45760.0	45761.0	1.0000E-19	const_head
no_chdf4	1.00000	-13279.1	13280.1	1.0000E-19	const_head
no_chdf5	1.00000	-3228.53	3229.53	1.0000E-19	const_head

```
no_chdf6                1.00000       -111499.        111500.       1.0000E-19
const_head
no_chdf7                1.00000       -35540.3        35541.3       1.0000E-19
const_head
no_chdf8                1.00000       -69171.0        69172.0       1.0000E-19
const_head
no_chdf9                1.00000       -66744.1        66745.1       1.0000E-19
const_head
no_chdf10               1.00000       -133540.        133541.       1.0000E-19
const_head
no_chdf11               1.00000       -1677.19        1678.19       1.0000E-19
const_head
no_chdf12               1.00000       -2624.79        2625.79       1.0000E-19
const_head
no_chdf13               1.00000       -45433.3        45434.3       1.0000E-19
const_head
no_chdf14               1.00000       -13057.9        13058.9       1.0000E-19
const_head
no_chdf15               1.00000       -3167.61        3168.61       1.0000E-19
const_head
no_chdf16               1.00000       -112387.        112388.       1.0000E-19
const_head
no_chdf17               1.00000       -34899.4        34900.4       1.0000E-19
const_head
no_chdf18               1.00000       -67986.9        67987.9       1.0000E-19
const_head
no_chdf19               1.00000       -66695.3        66696.3       1.0000E-19
const_head

See file drain_medk.res for more details of residuals in graph-ready format.

See file drain_medk.seo for composite observation sensitivities.


Objective function ----->

  Sum of squared weighted residuals (ie phi)                 =  2.1469E+05
  Contribution to phi from observation group "head"          =  2.1469E+05
  Contribution to phi from observation group "drain"         =  1.0621E-26
  Contribution to phi from observation group "ghb"           =  6.1610E-27
  Contribution to phi from observation group "const_head"    =  8.6012E-28


Correlation Coefficient ----->

  Correlation coefficient                                    =  0.9989


Analysis of residuals ----->

  All residuals:-
     Number of residuals with non-zero weight                        =    32
     Mean value of non-zero weighted residuals                       =   32.05
     Maximum weighted residual [observation "hed4"]                  =   313.4
     Minimum weighted residual [observation "no_ghbf2"]              = -7.5995E-14
     Standard variance of weighted residuals                         =   7403.
     Standard error of weighted residuals                            =   86.04

     Note: the above variance was obtained by dividing the objective
     function by the number of system degrees of freedom (ie. number of
     observations with non-zero weight plus number of prior information
     articles with non-zero weight minus the number of adjustable parameters.)
     If the degrees of freedom is negative the divisor becomes
```

```
    the number of observations with non-zero weight plus the number of
    prior information items with non-zero weight.

 Residuals for observation group "head":-
    Number of residuals with non-zero weight                          =     7
    Mean value of non-zero weighted residuals                         =   146.5
    Maximum weighted residual [observation "hed4"]                    =   313.4
    Minimum weighted residual [observation "hed2"]                    =   6.979
    "Variance" of weighted residuals                                  =  3.0669E+04
    "Standard error" of weighted residuals                            =   175.1

    Note: the above "variance" was obtained by dividing the sum of squared
    residuals by the number of items with non-zero weight.

 Residuals for observation group "drain":-
    Number of residuals with non-zero weight                          =     1
    Mean value of non-zero weighted residuals                         =  1.0306E-13
    Maximum weighted residual [observation "no_drnf0"]                =  1.0306E-13
    Minimum weighted residual [observation "no_drnf0"]                =  1.0306E-13
    "Variance" of weighted residuals                                  =  1.0621E-26
    "Standard error" of weighted residuals                            =  1.0306E-13

    Note: the above "variance" was obtained by dividing the sum of squared
    residuals by the number of items with non-zero weight.

 Residuals for observation group "ghb":-
    Number of residuals with non-zero weight                          =     4
    Mean value of non-zero weighted residuals                         = -2.5842E-14
    Maximum weighted residual [observation "no_ghbf3"]                = -7.6416E-16
    Minimum weighted residual [observation "no_ghbf2"]                = -7.5995E-14
    "Variance" of weighted residuals                                  =  1.5403E-27
    "Standard error" of weighted residuals                            =  3.9246E-14

    Note: the above "variance" was obtained by dividing the sum of squared
    residuals by the number of items with non-zero weight.

 Residuals for observation group "const_head":-
    Number of residuals with non-zero weight                          =    20
    Mean value of non-zero weighted residuals                         =  4.8222E-15
    Maximum weighted residual [observation "no_chdf10"]               =  1.3354E-14
    Minimum weighted residual [observation "no_chdf11"]               =  1.6782E-16
    "Variance" of weighted residuals                                  =  4.3006E-29
    "Standard error" of weighted residuals                            =  6.5579E-15

    Note: the above "variance" was obtained by dividing the sum of squared
    residuals by the number of items with non-zero weight.


Parameter covariance matrix ----->

                hk_800       ghb_300      ghb_400
hk_800           124.6       1.1030E+06  -5.5072E+06
ghb_300         1.1030E+06   9.1253E+10  -1.0613E+11
ghb_400        -5.5072E+06  -1.0613E+11   3.1932E+11


Parameter correlation coefficient matrix ----->

                hk_800       ghb_300      ghb_400
hk_800           1.000       0.3271      -0.8730
ghb_300         0.3271        1.000      -0.6217
ghb_400        -0.8730      -0.6217        1.000
```

Normalized eigenvectors of parameter covariance matrix ----->

	Vector_1	Vector_2	Vector_3
hk_800	1.000	1.9984E-05	-1.5312E-05
ghb_300	1.2992E-05	-0.9306	-0.3660
ghb_400	2.1565E-05	-0.3660	0.9306

Eigenvalues ----->

20.18	4.9510E+10	3.6106E+11

```
#GMS_HDF5_01
1 40 AUX IFACE AUX QFACT AUX CELLGRP
         1         0         0
GMS_HDF5_01 "DRAIN_MEDK.h5" "Well" 1
```