North_Trend_May-10.asp

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United States Nuclear Regulatory Commission Official Hearing Exhibit			
In the Matter of:	CROW BUTTE RESOURCES, INC. (License Renewal for the In Situ Leach Facility, Crawford, Nebraska)		
ASLBP #:	08-867-02-OLA-BD01		
Docket #:	04008943		
Exhibit #:	BRD-007A-00-BD01	**Identified:**	8/26/2015
Admitted:	9/4/2015	**Withdrawn:**	
Rejected:		**Stricken:**	
Other:			

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#12 December 2007
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328399.37538393 1.0 no_ghbf1
#GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 3 219323.21532894
326636.73976194 1.0 no_ghbf2
#GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 4 219606.20168673
324019.54638495 1.0 no_ghbf3
#GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 5 221825.0 326713.0 1.0
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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 53
no_ghbf3 1 0.0 1.0 1.0e+019 1 1
5 97 46 0.0
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
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 50
no_ghbf4 1 0.0 1.0 1.0e+019 1 1
5 47 93 0.0
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
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
371 40 AUX IFACE AUX CONDFACT AUX CELLGRP
       371          0          0
GMS_HDF5_01 "North_Trend_May-10.h5" "General Head" 1
```

```
                                  North_Trend_May-10.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: "North_Trend_May-10.glo"
                         UNIT    1

 OPENING "North_Trend_May-10.out"
 FILE TYPE:LIST   UNIT    2   STATUS:REPLACE
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "North_Trend_May-10.hed"
 FILE TYPE:DATA(BINARY)   UNIT   30   STATUS:UNKNOWN
 FORMAT:BINARY                 ACCESS:SEQUENTIAL

 OPENING "North_Trend_May-10.ccf"
 FILE TYPE:DATA(BINARY)   UNIT   40   STATUS:UNKNOWN
 FORMAT:BINARY                 ACCESS:SEQUENTIAL

 OPENING "North_Trend_May-10.lmt"
 FILE TYPE:LMT6   UNIT   18   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL
#


# Obs-Sen-Pes Process Input Files



 OPENING "North_Trend_May-10.obs"
 FILE TYPE:OBS   UNIT   50   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "North_Trend_May-10.hob"
 FILE TYPE:HOB   UNIT   51   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "North_Trend_May-10.gbob"
 FILE TYPE:GBOB   UNIT   53   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "North_Trend_May-10.drob"
 FILE TYPE:DROB   UNIT   54   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "North_Trend_May-10.chob"
 FILE TYPE:CHOB   UNIT   55   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "North_Trend_May-10.t_snn"
 FILE TYPE:SEN   UNIT   57   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "North_Trend_May-10.pes"
 FILE TYPE:PES   UNIT   58   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 FILE TYPE:ASP: FILE = North_Trend_May-10.asp
#
```

```
# Global Input Files


 OPENING "North_Trend_May-10.dis"
 FILE TYPE:DIS   UNIT   19   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL
#

# Flow Process Input Files


 OPENING "North_Trend_May-10.ba6"
 FILE TYPE:BAS6   UNIT    3   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "North_Trend_May-10.lpf"
 FILE TYPE:LPF   UNIT    4   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "North_Trend_May-10.oc"
 FILE TYPE:OC   UNIT   15   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "North_Trend_May-10.rch"
 FILE TYPE:RCH   UNIT   16   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "North_Trend_May-10.wel"
 FILE TYPE:WEL   UNIT    9   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

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

 OPENING "North_Trend_May-10.ghb"
 FILE TYPE:GHB   UNIT   11   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "North_Trend_May-10.evt"
 FILE TYPE:EVT   UNIT   12   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "North_Trend_May-10.chd"
 FILE TYPE:CHD   UNIT   13   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING "North_Trend_May-10.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: North_Trend_May-10

 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 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 10 219844.66804226
323714.6211621 1.0 no_drnf0
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 13 220252.07467856
327951.884473 1.0 no_drnf1
 #GMSCOMMENT 318440d0-f225-4a28-8a21-7d9865b1eff6 ARC 7 219577.55469813
327236.58330639 1.0 no_drnf2

 NUMBER OF FLOW-OBSERVATION DRAIN-CELL GROUPS.....:      3
   NUMBER OF CELLS IN DRAIN-CELL GROUPS...........:     63
   NUMBER OF DRAIN-CELL FLOWS.....................:      3

 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 1 221620.32472546
324401.08427563 1.0 no_ghbf0
 #GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 2 219899.98547031
328399.37538393 1.0 no_ghbf1
 #GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 3 219323.21532894
326636.73976194 1.0 no_ghbf2
 #GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 4 219606.20168673
324019.54638495 1.0 no_ghbf3
 #GMSCOMMENT 1f3d23e2-2acf-45ac-a9bb-7eeafc33a6e7 ARC 5 221825.0 326713.0 1.0
no_ghbf4

 NUMBER OF FLOW-OBSERVATION GENERAL-HEAD-CELL GROUPS:      5
   NUMBER OF CELLS IN GENERAL-HEAD-CELL GROUPS......:    373
   NUMBER OF GENERAL-HEAD-CELL FLOWS................:      5

 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

       8261 ELEMENTS IN X ARRAY ARE USED FOR OBSERVATIONS
        870 ELEMENTS IN Z ARRAY ARE USED FOR OBSERVATIONS
        297 ELEMENTS IN IX ARRAY ARE USED FOR OBSERVATIONS

 COMMON ERROR VARIANCE FOR ALL OBSERVATIONS SET TO:       1.000

     430783   ELEMENTS OF X ARRAY USED OUT OF     430783
     300870   ELEMENTS OF Z ARRAY USED OUT OF     300870
       9089   ELEMENTS OF IX ARRAY USED OUT OF       9089
          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     1.0332       0.10000E-02    20.000         1.0000
 GHB_300        1     0     1.9287       0.10000E-02    1000.0         1.0000
 GHB_400        1     0     779.41       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
```

OBS#	OBSERVATION NAME	LAY	ROW	COL	ROW OFFSET	COL OFFSET	HEAD CHANGE REFERENCE 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: 12
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
1.	86.	46.	1.00
1.	86.	45.	1.00
1.	86.	44.	1.00
1.	86.	43.	1.00
1.	85.	43.	1.00
1.	85.	42.	1.00
1.	85.	41.	1.00
1.	85.	40.	1.00
1.	84.	40.	1.00
1.	84.	39.	1.00
1.	84.	38.	1.00
1.	84.	37.	1.00

GROUP NUMBER: 2 BOUNDARY TYPE: DRN NUMBER OF CELLS IN GROUP: 31
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED DRAIN FLOW GAIN (-)	STATISTIC	STATISTIC TYPE	PLOT SYM.
9	no_drnf1	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	4.	53.	1.00
1.	5.	53.	1.00
1.	5.	52.	1.00
1.	6.	52.	1.00
1.	7.	52.	1.00
1.	7.	51.	1.00
1.	8.	51.	1.00
1.	9.	51.	1.00
1.	9.	50.	1.00
1.	10.	50.	1.00
1.	11.	50.	1.00
1.	11.	49.	1.00
1.	12.	49.	1.00
1.	13.	49.	1.00
1.	13.	48.	1.00

1.	14.	48.	1.00
1.	14.	47.	1.00
1.	15.	47.	1.00
1.	15.	46.	1.00
1.	15.	45.	1.00
1.	16.	45.	1.00
1.	16.	44.	1.00
1.	17.	44.	1.00
1.	17.	43.	1.00
1.	18.	43.	1.00
1.	18.	42.	1.00
1.	18.	43.	1.00
1.	19.	43.	1.00
1.	20.	43.	1.00
1.	21.	43.	1.00
1.	21.	44.	1.00

GROUP NUMBER: 3 BOUNDARY TYPE: DRN NUMBER OF CELLS IN GROUP: 20
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED DRAIN FLOW GAIN (-)	STATISTIC	STATISTIC TYPE	PLOT SYM.
10	no_drnf2	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
1.	21.	44.	1.00
1.	22.	44.	1.00
1.	22.	43.	1.00
1.	22.	42.	1.00
1.	22.	41.	1.00
1.	22.	40.	1.00
1.	23.	40.	1.00
1.	23.	39.	1.00
1.	23.	38.	1.00
1.	23.	37.	1.00
1.	23.	36.	1.00
1.	23.	35.	1.00
1.	23.	34.	1.00
1.	24.	34.	1.00
1.	24.	33.	1.00
1.	24.	32.	1.00
1.	24.	31.	1.00
1.	24.	30.	1.00
1.	24.	29.	1.00
1.	24.	28.	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: 4 BOUNDARY TYPE: GHB NUMBER OF CELLS IN GROUP: 108
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_ghbf0	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
5.	97.	46.	1.00

5.	96.	46.	1.00
5.	95.	46.	1.00
5.	94.	46.	1.00
5.	93.	46.	1.00
5.	92.	46.	1.00
5.	91.	46.	1.00
5.	90.	46.	1.00
5.	89.	46.	1.00
5.	88.	46.	1.00
5.	87.	46.	1.00
5.	87.	47.	1.00
5.	86.	47.	1.00
5.	86.	48.	1.00
5.	86.	49.	1.00
5.	86.	50.	1.00
5.	86.	51.	1.00
5.	85.	51.	1.00
5.	85.	52.	1.00
5.	85.	53.	1.00
5.	85.	54.	1.00
5.	85.	55.	1.00
5.	84.	55.	1.00
5.	84.	56.	1.00
5.	84.	57.	1.00
5.	83.	57.	1.00
5.	83.	58.	1.00
5.	82.	58.	1.00
5.	81.	58.	1.00
5.	81.	59.	1.00
5.	80.	59.	1.00
5.	79.	59.	1.00
5.	78.	59.	1.00
5.	78.	60.	1.00
5.	77.	60.	1.00
5.	76.	60.	1.00
5.	76.	61.	1.00
5.	75.	61.	1.00
5.	74.	61.	1.00
5.	73.	61.	1.00
5.	73.	62.	1.00
5.	72.	62.	1.00
5.	72.	63.	1.00
5.	72.	64.	1.00
5.	73.	64.	1.00
5.	73.	65.	1.00
5.	74.	65.	1.00
5.	75.	65.	1.00
5.	75.	66.	1.00
5.	76.	66.	1.00
5.	76.	67.	1.00
5.	77.	67.	1.00
5.	77.	68.	1.00
5.	77.	69.	1.00
5.	77.	70.	1.00
5.	77.	71.	1.00
5.	76.	71.	1.00
5.	76.	72.	1.00
5.	76.	73.	1.00
5.	75.	73.	1.00
5.	75.	74.	1.00
5.	75.	75.	1.00
5.	74.	75.	1.00
5.	74.	76.	1.00

5.	74.	77.	1.00
5.	74.	78.	1.00
5.	73.	78.	1.00
5.	73.	79.	1.00
5.	73.	80.	1.00
5.	72.	80.	1.00
5.	71.	80.	1.00
5.	70.	80.	1.00
5.	70.	81.	1.00
5.	69.	81.	1.00
5.	68.	81.	1.00
5.	67.	81.	1.00
5.	66.	81.	1.00
5.	65.	81.	1.00
5.	64.	81.	1.00
5.	63.	81.	1.00
5.	62.	81.	1.00
5.	61.	81.	1.00
5.	60.	81.	1.00
5.	59.	81.	1.00
5.	58.	81.	1.00
5.	57.	81.	1.00
5.	56.	81.	1.00
5.	55.	81.	1.00
5.	55.	82.	1.00
5.	54.	82.	1.00
5.	54.	83.	1.00
5.	53.	83.	1.00
5.	53.	84.	1.00
5.	53.	85.	1.00
5.	52.	85.	1.00
5.	52.	86.	1.00
5.	51.	86.	1.00
5.	51.	87.	1.00
5.	51.	88.	1.00
5.	50.	88.	1.00
5.	50.	89.	1.00
5.	49.	89.	1.00
5.	49.	90.	1.00
5.	48.	90.	1.00
5.	48.	91.	1.00
5.	48.	92.	1.00
5.	47.	92.	1.00
5.	47.	93.	1.00

GROUP NUMBER: 5 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.
12	no_ghbf1	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: 6 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.
13	no_ghbf2	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: 7 BOUNDARY TYPE: GHB NUMBER OF CELLS IN GROUP: 53
NUMBER OF FLOW OBSERVATIONS: 1

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

LAYER	ROW	COLUMN	FACTOR
5.	97.	46.	0.00
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: 8 BOUNDARY TYPE: GHB NUMBER OF CELLS IN GROUP: 50
NUMBER OF FLOW OBSERVATIONS: 1

OBS#	OBSERVATION NAME	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	STATISTIC TYPE	PLOT SYM.
15	no_ghbf4	1	0.000	1.000	0.1000E+20	STD. DEV.	1

LAYER	ROW	COLUMN	FACTOR
5.	47.	93.	0.00
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: 9 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.
16	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: 10 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.
17	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: 11 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.
18	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: 12 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.
19	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
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: 13 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.
20	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: 14 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.
21	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: 15 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.
22	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: 16 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.
23	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: 17 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.
24	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: 18 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.
25	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: 19 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.
26	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: 20 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.
27	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: 21 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.
28	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: 22 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.
29	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: 23 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.
30	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: 24 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.
31	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: 25 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.
32	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: 26 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.
33	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: 27 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.
34	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: 28 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.
35	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

   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
hed1            -3.76       51.38     |  hed5              2.18       17.38
hed2            -1.72       10.74     |  hed7              1.95       13.78
hed6            -1.28        5.99     |  no_chdf10       0.135E-13     0.00
hed3           -0.405        0.60     |  no_chdf0        0.135E-13     0.00
hed4           -0.198        0.14     |  no_chdf16       0.111E-13     0.00

STATISTICS FOR ALL RESIDUALS :
AVERAGE WEIGHTED RESIDUAL  :-0.923E-01
# RESIDUALS >= 0. :     25
```

```
# RESIDUALS < 0.  :      10
NUMBER OF RUNS  :    6  IN   35 OBSERVATIONS

INTERPRETING THE CALCULATED RUNS STATISTIC VALUE OF     -3.72
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 =    0.524

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

The critical value for correlation at the 5% significance level is 0.943

IF the reported CORRELATION is GREATER than the 5% critical value, ACCEPT
the hypothesis that the weighted residuals are INDEPENDENT AND NORMALLY
DISTRIBUTED at the 5% significance level.  The probability that this
conclusion is wrong is less than 5%.

IF the reported correlation IS LESS THAN the 5% critical value REJECT the
hypothesis that the weighted residuals are INDEPENDENT AND NORMALLY
DISTRIBUTED at the 5% significance level.

The analysis can also be done using the 10% significance level.
The associated critical value is 0.952
--------------------------------------------------------------------------
```

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

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

North_Trend_May-10 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     63 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
        504 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    371 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
       2968 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

      47239  ELEMENTS OF RX ARRAY USED OUT OF      47239
          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
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   0           0           0           0
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   0           0           0           0
   2           0           0           0           0           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
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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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0               0               0               0
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0               0               0               0
3                 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
5                 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
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
7            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
8            0           0           0           0           0           0
0           0           0           0
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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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     1            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
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   1         1           1           1
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   1         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
  13          0           0           0           0           0           0
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   0         0           0           0
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   0         0           0           0
  14          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
```

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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
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0            0            0            0
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0            0            0            0
```

```
18      0       0       0       0       0       0
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 0      0       0       0
19      0       0       0       0       0       0
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        1       1       1       1       1       1
 1      1       1       1
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 0      0       0       0
20      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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 1      1       1       1
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 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
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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
          22 0           0           0           0           0           0
           0           0           0           0
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          23 0           0           0           0           0           0
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           0           0           0           0
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           0           0           0           0
          24 0           0           0           0           0           0
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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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   1        1        1        1
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   1        1        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
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   1        1        1        1
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   1        1        1        1
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   1        1        1        0
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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
  27         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
   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
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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
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   0            0             0             0
  31         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
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 0          0          0          0
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 0          0          0          0
34            0          0          0          0          0          0
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 0          0          0          0
35            0          0          0          0          0          0
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40       0         0         0         0         0         0
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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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62          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
     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
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 0           0           0           0
72           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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 0           0           0           0
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 0           0           0           0
74           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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 1           1           1           1
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 1           1           1           1
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 1           1           1           1
             1           0           0           0           1           1
 1           1           1           1
```

```
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75        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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 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
76        0         0         0         0         0         0
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77        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
          1         0         0         0         0         0
 0        0         0         0
          0         0         0         0         0         0
```

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0 0 0 0
78 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
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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
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0 0 0 0 0 0
0 0 0 0
0 0 0 0 0 0
0 0 0 0
79 0 0 0 0 0 0
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 1
1 1 1 1
1 1 1 1 1 1
1 1 1 1
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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
0 0 0 0 0 0
0 0 0 0
80 0 0 0 0 0 0
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0 0 0 0 0 0
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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
```

```
81          0          0          0          0          0          0
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 0          0          0          0
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 0          0          0          0
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
84          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
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 0           0           0           0
85             0           0           0           0           0           0
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 0           0           0           0
86             0           0           0           0           0           0
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 0           0           0           0
87             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
88           0            0            0            0            0            0
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89           0            0            0            0            0            0
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 0          0            0            0
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 0          0            0            0
90           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
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     0           0           0           0
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     0           0           0           0
    91            0           0           0           0           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
    92            0           0           0           0           0           0
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    93            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
    94           0           0           0           0           0           0
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                 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
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0       0       0       0
98       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
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0       0       0       0
99       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
```

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   0           0           0           0
 100            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
               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
                0           0           0           0           0           0
```

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0            0            0            0
```

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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
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1           1            1            1
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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
```

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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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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
```

```
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 0          0           0           0
12          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
13          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
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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           0           0
    0           0           0           0
   17            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
    1           1           1           1
```

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

```
 0          0          0          0
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 0          0          0          0
              0          0          0          0          0          0
 0          0          0          0
21            0          0          0          0          0          0
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              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
 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
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              1          1          1          1          1          1
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              0          0          0          0          0          0
 0          0          0          0
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 0          0          0          0
23            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          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
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                 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
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 0         0          0          0
25               0          0          0          0          0          0
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                 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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 0         0          0          0
26               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
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
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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
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
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1 1 1 1
0 0 0 0 0 0
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
1 1 1 1 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
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
```

```
            0          0          0          0          0          0
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31          0          0          0          0          0          0
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 0          0          0          0
32          0          0          0          0          0          0
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 0          0          0          0
33          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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    35           0          0          0          0          0          0
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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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  0          0          0          0
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  0          0          0          0
 41            0          0          0          0          0          0
  0          0          0          0
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  1          1          1          0
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  0          0          0          0
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43         0          0          0          0          0          0
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 0         0          0          0
44         0          0          0          0          0          0
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45         0          0          0          0          0          0
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47           0          0          0          0          0          0
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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          0          0
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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
          0          0          0          0          0          0
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53 0 0 0 0 0 0
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55 0 0 0 0 0 0
0 0 0 0
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0 0 1 1
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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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    60           0          0          0          0          0          0
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62            0           0           0           0           0           0
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63            0           0           0           0           0           0
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64            0           0           0           0           0           0
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71 0 0 0 0 0 0
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0    0    0    0
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0    0    0    0
72   0    0    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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75           0          0          0          0          0          0
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76           0          0          0          0          0          0
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77           0          0          0          0          0          0
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90              0         0         0         0         0         0
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93           0          0          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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     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
```

```
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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
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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
    17             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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21            0           0           0           0           0           0
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23            0           0           0           0           0           0
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              1           1           1           1           1           1
 1           1           1           1
```

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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
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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    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
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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
      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
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
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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
29    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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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
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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 0          0          0          0
35           0          0          0          0          0          0
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 0          0          0          0
36           0          0          0          0          0          0
 0          0          0          0
```

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37 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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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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 0         0           0           0
51         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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56          0          0          0          0          0          0
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 0         0          0          0
58          0          0          0          0          0          0
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59 0 0 0 0 0 0
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61 0 0 0 0 0 0
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62           0           0           0           0           0           0
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63           0           0           0           0           0           0
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67 0 0 0 0 0 0
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0 0 0 0
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73 0 0 0 0 0 0
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1 1 1 1
0 0 0 0 0 0
0 0 0 0
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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
77               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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     83           0           0           0           0           0           0
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      0           0           0           0
                  0           0           0           0           0           1
```

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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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     0           0            0            0
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    87           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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98           0           0           0           0           0           0
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 0           0           0           0
99           0           0           0           0           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
4           0          0          0          0          0          0
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1          1          1          1
```

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7            0           0           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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0 0 0 0
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0 0 0 0
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9 0 0 0 0 0 0
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                 0         0         0         0         0         0
```

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```

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21           0          0          0          0          0          0
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22           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
```

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64            0           0           0           0           0           0
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67 0 0 0 0 0 0
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82           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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89            0           0           0           0           0           0
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93         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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97           0          0          0          0          0          0
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98           0          0          0          0          0          0
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99          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
```

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                 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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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

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```

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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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```

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32           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          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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  1         1          1          1
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47            0           0           0           0           0           0
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 1           1           1           1
```

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0	0	0	0			
49	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			
51	0	0	0	0	0	0

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52           0          0          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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 0          0          0          0
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55            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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59 0 0 0 0 0 0
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61            0           0           0           0           0           0
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63            0           0           0           0           0           0
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    65           0          0          0          0          0          0
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```

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70            0           0           0           0           0           0
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73            0           0           0           0           0           0
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87        0          0          0          0          0          0
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0         0          0          0
88        0          0          0          0          0          0
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```

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91           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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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

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                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           0           0
0           0           0           0
5            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
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1           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
0           0           0           0
6            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
             1           1           1           1           1           1
1           1           1           1
             1           1           1           1           1           1
```

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1              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
7               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
8               0              0              0              0              0              0
0              0              0              0
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1              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
0              0              0              0
9               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
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1              1              1              1
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1              0              0              0
                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
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 0           0           0           0
10            0           0           0           0           0           0
 0           0           0           0
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 0           0           0           0
11            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
12            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
```

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 0            0            0            0
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 0            0            0            0
13             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
14             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
 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
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 0            0            0            0
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 0            0            0            0
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 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
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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
          0        0        0        0        0        0
 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
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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
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 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
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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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 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
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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
     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
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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
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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
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     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
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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
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     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
```

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            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
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            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
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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         1         1
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 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
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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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 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
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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
            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
```

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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        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
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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        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
```

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

```
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       0            0            0            0
      32             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
35          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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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
            0           0           0           0           0           0
0           0           0           0
38          0           0           0           0           0           0
```

```
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0 0 0 0
0 0 0 0 0 0
0 0 0 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
1 1 1 1
1 1 1 1 1 1
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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
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0 0 0 1
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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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41 0 0 0 0 0 0
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0          0          0          0
44         0          0          0          0          0          0
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0           0           0           0
60           0           0           0           0           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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1    1    1    1
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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
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0    0    0    0
65   0    0    0    0    0    0
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0    0    0    0
66   0    0    0    0    0    0
0    0    0    0
     0    0    0    0    0    0
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73           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
0 0 0 0 0 0
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76 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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79        0        0        0        0        0        0
 0       0        0        0
          0        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        0
          0        0        0        0        0        0
 0       0        0        0
          0        0        0        0        0        0
 0       0        0        0
          0        0        0        0        0        0
 0       0        0        0
          0        0        0        0        0        0
 0       0        0        0
80        0        0        0        0        0        0
 0       0        0        0
          0        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        0
          0        0        0        0        0        0
 0       0        0        0
          0        0        0        0        0        0
 0       0        0        0
          0        0        0        0        0        0
 0       0        0        0
          0        0        0        0        0        0
 0       0        0        0
81        0        0        0        0        0        0
 0       0        0        0
          0        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        0
          0        0        0        0        0        0
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          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
82        0        0        0        0        0        0
 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
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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          0          0
              0          0          0          0          0          0
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              0          0          0          0          0          0
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              0          0          0          0          0          0
 0          0          0          0
83            0          0          0          0          0          0
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              0          0          0          0          0          0
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              0          0          0          0          0          0
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              0          0          0          0          0          1
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              1          1          1          1          1          1
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              1          1          1          1          1          1
 1          1          0          0
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 0          0          0          0
84            0          0          0          0          0          0
 0          0          0          0
              0          0          0          0          0          0
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              0          0          0          0          0          0
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              0          0          0          0          0          1
 1          1          1          1
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              1          1          1          1          1          1
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85            0          0          0          0          0          0
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                0          0          0          0          0          1
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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          0          0
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     0         0          0          0
    87          0          0          0          0          0          0
     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          0          0
     0         0          0          0
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     0         0          0          0
    88          0          0          0          0          0          0
     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
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            0        0        0        0        0        0
   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
  92        0        0        0        0        0        0
   0        0        0        0
            0        0        0        0        0        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
   0        0        0        0
            0        0        0        0        0        0
   0        0        0        0
            0        0        0        0        0        0
   0        0        0        0
            0        0        0        0        0        0
   0        0        0        0
            0        0        0        0        0        0
   0        0        0        0
            0        0        0        0        0        0
   0        0        0        0
  93        0        0        0        0        0        0
   0        0        0        0
            0        0        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
   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        0        0
   0        0        0        0
            0        0        0        0        0        0
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            0        0        0        0        0        0
   0        0        0        0
  94        0        0        0        0        0        0
   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
            0        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
```

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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
95             0            0            0            0            0            0
 0            0            0            0
               0            0            0            0            0            0
 0            0            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
 0            0            0            0
               0            0            0            0            0            0
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               0            0            0            0            0            0
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               0            0            0            0            0            0
 0            0            0            0
96             0            0            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            0            0
 0            0            0            0
               0            0            0            1            1            1
 0            0            0            0
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               0            0            0            0            0            0
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               0            0            0            0            0            0
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               0            0            0            0            0            0
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               0            0            0            0            0            0
 0            0            0            0
97             0            0            0            0            0            0
 0            0            0            0
               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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                 0          0          0          0          0          0
  0         0          0          0
 98              0          0          0          0          0          0
  0         0          0          0
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 99              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
100              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
```

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
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	1	21	44	3653.	0.5130E+05	6.000	51.30	1.000
2	1	22	44	3655.	0.5664E+05	6.000	56.64	1.000
3	1	22	43	3656.	0.4807E+05	6.000	48.07	1.000
4	1	22	42	3657.	0.4807E+05	6.000	48.07	1.000
5	1	22	41	3658.	0.4807E+05	6.000	48.07	1.000
6	1	22	40	3659.	960.3	6.000	0.9603	1.000
7	1	23	40	3660.	0.4711E+05	6.000	47.11	1.000
8	1	23	39	3661.	0.4807E+05	6.000	48.07	1.000
9	1	23	38	3662.	0.4807E+05	6.000	48.07	1.000
10	1	23	37	3663.	0.4807E+05	6.000	48.07	1.000
11	1	23	36	3664.	0.4807E+05	6.000	48.07	1.000
12	1	23	35	3665.	0.4807E+05	6.000	48.07	1.000
13	1	23	34	3667.	0.4407E+05	6.000	44.07	1.000
14	1	24	34	3667.	3999.	6.000	3.999	1.000
15	1	24	33	3668.	0.4807E+05	6.000	48.07	1.000
16	1	24	32	3669.	0.4807E+05	6.000		

```
48.07             1.000
          17        1     24     31        3670.          0.4807E+05        6.000
48.07             1.000
          18        1     24     30        3671.          0.4807E+05        6.000
48.07             1.000
          19        1     24     29        3673.          0.4807E+05        6.000
48.07             1.000
          20        1     24     28        3674.          0.4807E+05        6.000
48.07             1.000
          21        1     86     46        3704.          0.3720E+05        6.000
37.20             2.000
          22        1     86     45        3704.          0.5033E+05        6.000
50.33             2.000
          23        1     86     44        3704.          0.5033E+05        6.000
50.33             2.000
          24        1     86     43        3704.          0.3054E+05        6.000
30.54             2.000
          25        1     85     43        3704.          0.1979E+05        6.000
19.79             2.000
          26        1     85     42        3704.          0.5033E+05        6.000
50.33             2.000
          27        1     85     41        3705.          0.5033E+05        6.000
50.33             2.000
          28        1     85     40        3705.          0.4796E+05        6.000
47.96             2.000
          29        1     84     40        3705.           2372.            6.000
2.372             2.000
          30        1     84     39        3705.          0.5033E+05        6.000
50.33             2.000
          31        1     84     38        3705.          0.5033E+05        6.000
50.33             2.000
          32        1     84     37        3705.          0.5033E+05        6.000
50.33             2.000
          33        1      4     53        3625.          0.6183E+05        6.000
61.83             3.000
          34        1      5     53        3627.          0.5138E+05        6.000
51.38             3.000
          35        1      5     52        3627.          0.1046E+05        6.000
10.46             3.000
          36        1      6     52        3628.          0.6183E+05        6.000
61.83             3.000
          37        1      7     52        3630.          0.5000E+05        6.000
50.00             3.000
          38        1      7     51        3630.          0.1183E+05        6.000
11.83             3.000
          39        1      8     51        3631.          0.6183E+05        6.000
61.83             3.000
          40        1      9     51        3633.          0.4863E+05        6.000
48.63             3.000
          41        1      9     50        3633.          0.1320E+05        6.000
13.20             3.000
          42        1     10     50        3634.          0.6183E+05        6.000
61.83             3.000
          43        1     11     50        3636.          0.4726E+05        6.000
47.26             3.000
          44        1     11     49        3636.          0.1457E+05        6.000
14.57             3.000
          45        1     12     49        3637.          0.6183E+05        6.000
61.83             3.000
          46        1     13     49        3639.          0.4027E+05        6.000
40.27             3.000
          47        1     13     48        3639.          0.3152E+05        6.000
31.52             3.000
```

```
        48         1       14        48         3640.           0.3300E+05         6.000
33.00                   3.000
        49         1       14        47         3641.           0.5093E+05         6.000
50.93                   3.000
        50         1       15        47         3642.           0.1360E+05         6.000
13.60                   3.000
        51         1       15        46         3643.           0.6453E+05         6.000
64.53                   3.000
        52         1       15        45         3644.            5810.             6.000
5.810                   3.000
        53         1       16        45         3645.           0.5872E+05         6.000
58.72                   3.000
        54         1       16        44         3646.           0.2522E+05         6.000
25.22                   3.000
        55         1       17        44         3646.           0.3931E+05         6.000
39.31                   3.000
        56         1       17        43         3647.           0.4462E+05         6.000
44.62                   3.000
        57         1       18        43         3648.           0.1990E+05         6.000
19.90                   3.000
        58         1       18        42         3649.           0.2773E+05         6.000
27.73                   3.000
        59         1       18        43         3649.           0.2064E+05         6.000
20.64                   3.000
        60         1       19        43         3650.           0.6027E+05         6.000
60.27                   3.000
        61         1       20        43         3652.           0.6027E+05         6.000
60.27                   3.000
        62         1       21        43         3653.            4694.             6.000
4.694                   3.000
        63         1       21        44         3653.            4275.             6.000
4.275                   3.000

      63 DRAINS

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

------------------------------------------------------------------------------------------
-----------------------------
         1         5       97        46         3704.            316.3             6.000
52.72                   1.000
         2         5       96        46         3704.            342.3             6.000
57.04                   1.000
         3         5       95        46         3704.            342.3             6.000
57.04                   1.000
         4         5       94        46         3704.            342.3             6.000
57.04                   1.000
         5         5       93        46         3704.            342.3             6.000
57.04                   1.000
         6         5       92        46         3704.            342.3             6.000
57.04                   1.000
         7         5       91        46         3704.            342.3             6.000
57.04                   1.000
         8         5       90        46         3704.            342.3             6.000
57.04                   1.000
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57.04                   1.000
        10         5       88        46         3704.            342.3             6.000
57.04                   1.000
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59.14                   1.000
        12         5       87        47         3704.            31.47             6.000
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16.75            1.000
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32.49            1.000
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49.24            1.000
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28.25            1.000
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20.98            1.000
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68.36            1.000
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0.7083            1.000
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59.04            1.000
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59.74            1.000
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39.51            1.000
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20.23            1.000
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47.36            1.000
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23.52                 1.000
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33.23                 1.000
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55.78                 1.000
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6.730                 1.000
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47.53                 1.000
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47.53                 1.000
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29.09                 1.000
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24.76                 1.000
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54.24                 1.000
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37.97                 1.000
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54.24                 1.000
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46.46                 1.000
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7.776                 1.000
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76.13                 1.000
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57.09             1.000
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57.09             1.000
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57.09             1.000
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57.09             1.000
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57.09             1.000
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57.09             1.000
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57.09             1.000
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57.09             1.000
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23.12             1.000
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39.72             1.000
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62.84             1.000
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31.97             1.000
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30.87             1.000
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55.86             1.000
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6.978             1.000
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62.84             1.000
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16.92             1.000
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131	5	14	56	3701.	342.6	6.000	57.10	2.000
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133	5	13	57	3701.	119.6	6.000	19.93	2.000
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137	5	9	57	3702.	342.6	6.000	57.10	2.000
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57.10		2.000				
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47.40		2.000				
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47.40		2.000				
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47.40		2.000				
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43.03		2.000				
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4.377		2.000				
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169	5	2	32	3704.	284.4	6.000
47.40		2.000				

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47.40              2.000
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47.40              2.000
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47.40              2.000
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47.40              2.000
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47.40              2.000
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47.40              2.000
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47.40              2.000
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47.40              2.000
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47.40              2.000
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47.40              2.000
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47.40              2.000
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47.40              2.000
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47.40              2.000
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47.40              2.000
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8.229              2.000
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57.09              3.000
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57.09              3.000
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57.09              3.000
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57.09              3.000
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57.09              3.000
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57.09              3.000
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57.09              3.000
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57.09              3.000
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57.09              3.000
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57.09              3.000
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57.09              3.000
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57.09              3.000
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57.09              3.000
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45.82              3.000
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57.09              3.000
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57.09              3.000
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57.09              3.000
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57.09              3.000
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57.09              3.000
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57.09              3.000
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57.09              3.000
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57.09              3.000
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57.09              3.000
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57.09              3.000
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57.09              3.000
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57.09              3.000
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57.09              3.000
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58.69              3.000
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62.75              3.000
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18.50              3.000
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44.25              3.000
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62.75              3.000
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6.315              3.000
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56.44              3.000
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56.88              3.000
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234	5	25	27	3707.	121.0	6.000	62.75	3.000
235	5	24	27	3707.	86.19	6.000	44.69	3.000
236	5	24	26	3707.	34.84	6.000	18.07	3.000
237	5	23	26	3707.	121.0	6.000	62.75	3.000
238	5	22	26	3707.	62.67	6.000	32.50	3.000
239	5	22	25	3707.	58.35	6.000	30.26	3.000
240	5	21	25	3707.	121.0	6.000	62.75	3.000
241	5	20	25	3707.	39.16	6.000	20.31	3.000
242	5	20	24	3707.	81.86	6.000	42.45	3.000
243	5	19	24	3707.	121.0	6.000	62.75	3.000
244	5	18	24	3707.	15.65	6.000	8.116	3.000
245	5	18	23	3707.	105.4	6.000	54.64	3.000
246	5	17	23	3707.	113.2	6.000	58.68	3.000
247	5	17	22	3706.	7.857	6.000	4.074	3.000
248	5	16	22	3706.	121.0	6.000	62.75	3.000
249	5	15	22	3706.	89.66	6.000	46.49	3.000
250	5	15	21	3706.	31.37	6.000	16.26	3.000
251	5	14	21	3706.	121.0	6.000	62.75	3.000
252	5	13	21	3706.	66.15	6.000	34.30	3.000
253	5	13	20	3706.	54.88	6.000	28.45	3.000
254	5	12	20	3706.	121.0	6.000	62.75	3.000
255	5	11	20	3706.	42.64	6.000	22.11	3.000
256	5	11	19	3706.	78.39	6.000	40.64	3.000
257	5	10	19	3706.	121.0	6.000	62.75	3.000
258	5	9	19	3706.	19.13	6.000	9.917	3.000
259	5	9	18	3706.	101.9	6.000	52.83	3.000
260	5	8	18	3706.	116.6	6.000	60.48	3.000
261	5	8	17	3706.	4.383	6.000	2.273	3.000
262	5	7	17	3706.	121.0	6.000	62.75	3.000
263	5	6	17	3705.	93.13	6.000	48.29	3.000
264	5	6	16	3705.	27.89	6.000		

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62.75          3.000
    266    5      4     16      3705.        69.62         6.000
36.10          3.000
    267    5      4     15      3705.        51.40         6.000
26.65          3.000
    268    5      3     15      3705.        121.0         6.000
62.75          3.000
    269    5      2     15      3705.        46.11         6.000
23.91          3.000
    270    5      2     14      3705.        37.94         6.000
19.67          3.000
    271    5     97     46      3704.      0.2501E+05      6.000
32.08          4.000
    272    5     97     45      3704.      0.2871E+05      6.000
36.84          4.000
    273    5     96     45      3704.      0.2854E+05      6.000
36.62          4.000
    274    5     96     44      3704.      0.2958E+05      6.000
37.95          4.000
    275    5     95     44      3704.      0.2768E+05      6.000
35.51          4.000
    276    5     95     43      3705.      0.3044E+05      6.000
39.06          4.000
    277    5     94     43      3705.      0.2681E+05      6.000
34.40          4.000
    278    5     94     42      3705.      0.3131E+05      6.000
40.17          4.000
    279    5     93     42      3705.      0.2594E+05      6.000
33.29          4.000
    280    5     93     41      3705.      0.3218E+05      6.000
41.29          4.000
    281    5     92     41      3705.      0.2508E+05      6.000
32.17          4.000
    282    5     92     40      3705.      0.3305E+05      6.000
42.40          4.000
    283    5     91     40      3705.      0.2421E+05      6.000
31.06          4.000
    284    5     91     39      3705.      0.3391E+05      6.000
43.51          4.000
    285    5     90     39      3706.      0.2334E+05      6.000
29.95          4.000
    286    5     90     38      3706.      0.3478E+05      6.000
44.62          4.000
    287    5     89     38      3706.      0.2247E+05      6.000
28.84          4.000
    288    5     89     37      3706.      0.3565E+05      6.000
45.74          4.000
    289    5     88     37      3706.      0.2161E+05      6.000
27.72          4.000
    290    5     88     36      3706.      0.3651E+05      6.000
46.85          4.000
    291    5     87     36      3706.      0.4500E+05      6.000
57.74          4.000
    292    5     86     36      3706.      0.4446E+05      6.000
57.05          4.000
    293    5     85     36      3707.      0.4446E+05      6.000
57.05          4.000
    294    5     84     36      3707.      0.4446E+05      6.000
57.05          4.000
    295    5     83     36      3707.      0.4446E+05      6.000
57.05          4.000
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     296         5       82      36        3707.          0.4446E+05        6.000
57.05                 4.000
     297         5       81      36        3707.          0.4446E+05        6.000
57.05                 4.000
     298         5       80      36        3707.          0.4446E+05        6.000
57.05                 4.000
     299         5       79      36        3708.          0.4446E+05        6.000
57.05                 4.000
     300         5       78      36        3708.          0.4446E+05        6.000
57.05                 4.000
     301         5       77      36        3708.          0.4446E+05        6.000
57.05                 4.000
     302         5       76      36        3708.          0.4446E+05        6.000
57.05                 4.000
     303         5       75      36        3708.          0.4446E+05        6.000
57.05                 4.000
     304         5       74      36        3708.          0.4446E+05        6.000
57.05                 4.000
     305         5       73      36        3709.          0.4446E+05        6.000
57.05                 4.000
     306         5       72      36        3709.          0.2320E+05        6.000
29.76                 4.000
     307         5       72      37        3709.          0.2126E+05        6.000
27.28                 4.000
     308         5       71      37        3709.          0.4446E+05        6.000
57.05                 4.000
     309         5       70      37        3709.          0.4446E+05        6.000
57.05                 4.000
     310         5       69      37        3709.          0.4446E+05        6.000
57.05                 4.000
     311         5       68      37        3709.          0.4446E+05        6.000
57.05                 4.000
     312         5       67      37        3710.          0.4446E+05        6.000
57.05                 4.000
     313         5       66      37        3710.          0.2107E+05        6.000
27.03                 4.000
     314         5       66      36        3710.          0.3701E+05        6.000
47.48                 4.000
     315         5       66      35        3710.          0.3701E+05        6.000
47.48                 4.000
     316         5       66      34        3710.          0.3701E+05        6.000
47.48                 4.000
     317         5       66      33        3710.          0.3701E+05        6.000
47.48                 4.000
     318         5       66      32        3710.          0.3701E+05        6.000
47.48                 4.000
     319         5       66      31        3711.          0.3701E+05        6.000
47.48                 4.000
     320         5       66      30        3711.          0.3701E+05        6.000
47.48                 4.000
     321         5       66      29        3711.          0.3701E+05        6.000
47.48                 4.000
     322         5       66      28        3711.          0.1190E+05        6.000
15.27                 4.000
     323         5       47      93        3705.          0.1811E-01        6.000
1.811                 5.000
     324         5       47      92        3705.          0.2785            6.000
27.85                 5.000
     325         5       46      92        3705.          0.6485            6.000
64.85                 5.000
     326         5       45      92        3705.          0.6669E-01        6.000
6.669                 5.000
     327         5       45      91        3705.          0.5818            6.000
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58.18             5.000
    328     5       44     91      3705.       0.4118        6.000
41.18             5.000
    329     5       44     90      3704.       0.2366        6.000
23.66             5.000
    330     5       43     90      3704.       0.6485        6.000
64.85             5.000
    331     5       42     90      3704.       0.1085        6.000
10.85             5.000
    332     5       42     89      3704.       0.5400        6.000
54.00             5.000
    333     5       41     89      3704.       0.4536        6.000
45.36             5.000
    334     5       41     88      3704.       0.1948        6.000
19.48             5.000
    335     5       40     88      3704.       0.6485        6.000
64.85             5.000
    336     5       39     88      3704.       0.1503        6.000
15.03             5.000
    337     5       39     87      3704.       0.4982        6.000
49.82             5.000
    338     5       38     87      3703.       0.4954        6.000
49.54             5.000
    339     5       38     86      3703.       0.1530        6.000
15.30             5.000
    340     5       37     86      3703.       0.6485        6.000
64.85             5.000
    341     5       36     86      3703.       0.1921        6.000
19.21             5.000
    342     5       36     85      3703.       0.4564        6.000
45.64             5.000
    343     5       35     85      3703.       0.5372        6.000
53.72             5.000
    344     5       35     84      3703.       0.1112        6.000
11.12             5.000
    345     5       34     84      3703.       0.6485        6.000
64.85             5.000
    346     5       33     84      3703.       0.2339        6.000
23.39             5.000
    347     5       33     83      3703.       0.4146        6.000
41.46             5.000
    348     5       32     83      3702.       0.5790        6.000
57.90             5.000
    349     5       32     82      3702.       0.6944E-01    6.000
6.944             5.000
    350     5       31     82      3702.       0.6485        6.000
64.85             5.000
    351     5       30     82      3702.       0.2757        6.000
27.57             5.000
    352     5       30     81      3702.       0.3728        6.000
37.28             5.000
    353     5       29     81      3702.       0.6208        6.000
62.08             5.000
    354     5       29     80      3702.       0.2763E-01    6.000
2.763             5.000
    355     5       28     80      3702.       0.6485        6.000
64.85             5.000
    356     5       27     80      3702.       0.3175        6.000
31.75             5.000
    357     5       27     79      3702.       0.3310        6.000
33.10             5.000
    358     5       26     79      3701.       0.6485        6.000
64.85             5.000
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     359        5     25     79       3701.          0.1417E-01        6.000
1.417               5.000
     360        5     25     78       3701.          0.6343            6.000
63.43               5.000
     361        5     24     78       3701.          0.3593            6.000
35.93               5.000
     362        5     24     77       3701.          0.2892            6.000
28.92               5.000
     363        5     23     77       3701.          0.6485            6.000
64.85               5.000
     364        5     22     77       3701.          0.5597E-01        6.000
5.597               5.000
     365        5     22     76       3701.          0.5925            6.000
59.25               5.000
     366        5     21     76       3701.          0.4011            6.000
40.11               5.000
     367        5     21     75       3700.          0.2474            6.000
24.74               5.000
     368        5     20     75       3700.          0.6485            6.000
64.85               5.000
     369        5     19     75       3700.          0.9778E-01        6.000
9.778               5.000
     370        5     19     74       3700.          0.5507            6.000
55.07               5.000
     371        5     18     74       3700.          0.4290            6.000
42.90               5.000

     371 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.
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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.
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167	1	18	24	1841.	1841.
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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.
292	1	38	30	1842.	1842.
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.
308	1	53	29	1841.	1841.
309	1	54	29	1841.	1841.
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.
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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.
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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.
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501	1	3	39	1810.	1810.
502	1	3	40	1810.	1810.
503	1	3	41	1810.	1810.
504	1	3	42	1810.	1810.
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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.
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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.

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   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: North_Trend_May-10.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 =       1617.1234          CONSTANT HEAD =       1617.1234
              WELLS =          0.0000                  WELLS =          0.0000
             DRAINS =          0.0000                 DRAINS =          0.0000
                 ET =          0.0000                     ET =          0.0000
    HEAD DEP BOUNDS =       3329.2053        HEAD DEP BOUNDS =       3329.2053
           RECHARGE =     964420.4375               RECHARGE =     964420.4375

           TOTAL IN =     969366.7500               TOTAL IN =     969366.7500

         OUT:                                     OUT:
         ----                                     ----
            STORAGE =          0.0000                STORAGE =          0.0000
      CONSTANT HEAD =     948874.9375          CONSTANT HEAD =     948874.9375
              WELLS =       3100.0000                  WELLS =       3100.0000
             DRAINS =      17143.0996                 DRAINS =      17143.0996
                 ET =          1.0073                     ET =          1.0073
    HEAD DEP BOUNDS =        209.9066        HEAD DEP BOUNDS =        209.9066
           RECHARGE =          0.0000               RECHARGE =          0.0000

          TOTAL OUT =     969328.9375              TOTAL OUT =     969328.9375

           IN - OUT =         37.8125               IN - OUT =         37.8125

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
      1      86     46
      1      86     45
      1      86     44
      1      86     43
      1      85     43
      1      85     42
      1      85     41
      1      85     40
      1      84     40
```

```
      1      84      39
      1      84      38
      1      84      37
     12 OF THE       12 REACHES OR CELLS USED TO SIMULATE THE GAIN OR LOSS ARE
                        AFFECTED.

OBS#       9, ID no_drnf1    , TIME STEP     1
   LAYER    ROW  COLUMN
      1       4      53
      1       5      53
      1       5      52
      1       7      52
      1       9      51
      1      11      50
      1      13      49
      1      18      43
      1      19      43
      1      20      43
      1      21      43
      1      21      44
     12 OF THE       31 REACHES OR CELLS USED TO SIMULATE THE GAIN OR LOSS ARE
                        AFFECTED.

OBS#      10, ID no_drnf2    , TIME STEP     1
   LAYER    ROW  COLUMN
      1      21      44
      1      22      44
      1      22      43
      1      22      42
      1      22      41
      1      22      40
      1      23      40
      1      23      39
      1      23      38
      1      23      37
      1      23      36
      1      23      35
      1      23      34
      1      24      34
      1      24      33
      1      24      32
      1      24      31
      1      24      30
      1      24      29
      1      24      28
     20 OF THE       20 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  0.370E+04  -5.75       0.653       -3.76
     2 hed2            0.370E+04  0.370E+04  -2.63       0.653       -1.72
     3 hed3            0.370E+04  0.370E+04 -0.619       0.653      -0.405
     4 hed4            0.370E+04  0.370E+04 -0.304       0.653      -0.198
     5 hed5            0.371E+04  0.370E+04   3.34       0.653        2.18
     6 hed6            0.370E+04  0.370E+04  -1.96       0.653       -1.28
     7 hed7            0.360E+04  0.360E+04   2.98       0.653        1.95

* 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  :  2.18     OBS#      5
MINIMUM WEIGHTED RESIDUAL  : -3.76     OBS#      1
AVERAGE WEIGHTED RESIDUAL  :-0.461
# RESIDUALS >= 0. :       2
# RESIDUALS < 0.  :       5
NUMBER OF RUNS  :    4  IN    7 OBSERVATIONS

SUM OF SQUARED WEIGHTED RESIDUALS (HEADS ONLY)   27.463

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       0.00       1.00      0.100E-18  0.100E-18
    9 no_drnf1         1.00     -0.171E+05  0.171E+05  0.100E-18  0.171E-14
   10 no_drnf2         1.00       0.00       1.00      0.100E-18  0.100E-18

STATISTICS FOR DRAIN FLOW RESIDUALS :
MAXIMUM WEIGHTED RESIDUAL  : 0.171E-14 OBS#      9
MINIMUM WEIGHTED RESIDUAL  : 0.100E-18 OBS#      8
AVERAGE WEIGHTED RESIDUAL  : 0.572E-15
# RESIDUALS >= 0. :       3
# RESIDUALS < 0.  :       0
NUMBER OF RUNS:      1  IN      3 OBSERVATIONS

SUM OF SQUARED WEIGHTED RESIDUALS (DRAIN FLOWS ONLY)  0.29392E-29

DATA FOR FLOWS REPRESENTED USING THE GENERAL-HEAD BOUNDARY PACKAGE

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

    11 no_ghbf0         1.00       600.       -599.       0.100E-18 -0.599E-16
    12 no_ghbf1         1.00       175.       -174.       0.100E-18 -0.174E-16
    13 no_ghbf2         1.00       0.160E+04 -0.160E+04  0.100E-18 -0.160E-15
    14 no_ghbf3         1.00       692.       -691.       0.100E-18 -0.691E-16
    15 no_ghbf4         1.00       53.1       -52.1       0.100E-18 -0.521E-17

STATISTICS FOR GENERAL-HEAD BOUNDARY FLOW RESIDUALS :
MAXIMUM WEIGHTED RESIDUAL  :-0.521E-17 OBS#     15
MINIMUM WEIGHTED RESIDUAL  :-0.160E-15 OBS#     13
AVERAGE WEIGHTED RESIDUAL  :-0.623E-16
# RESIDUALS >= 0. :       0
# RESIDUALS < 0.  :       5
NUMBER OF RUNS:      1  IN      5 OBSERVATIONS

SUM OF SQUARED WEIGHTED RESIDUALS
  (GENERAL-HEAD BOUNDARY FLOWS ONLY)  0.34226E-31

DATA FOR FLOW OBSERVATIONS AT BOUNDARIES REPRESENTED AS CONSTANT-HEAD

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

   16 no_chdf0         1.00     -0.135E+06  0.135E+06  0.100E-18  0.135E-13
   17 no_chdf1         1.00     -0.169E+04  0.169E+04  0.100E-18  0.169E-15
   18 no_chdf2         1.00     -0.263E+04  0.263E+04  0.100E-18  0.263E-15
   19 no_chdf3         1.00     -0.437E+05  0.437E+05  0.100E-18  0.437E-14
   20 no_chdf4         1.00     -0.121E+05  0.121E+05  0.100E-18  0.121E-14
```

```
   21 no_chdf5          1.00      -0.321E+04  0.321E+04  0.100E-18  0.321E-15
   22 no_chdf6          1.00      -0.111E+06  0.111E+06  0.100E-18  0.111E-13
   23 no_chdf7          1.00      -0.350E+05  0.350E+05  0.100E-18  0.350E-14
   24 no_chdf8          1.00      -0.675E+05  0.675E+05  0.100E-18  0.675E-14
   25 no_chdf9          1.00      -0.631E+05  0.631E+05  0.100E-18  0.631E-14
   26 no_chdf10         1.00      -0.135E+06  0.135E+06  0.100E-18  0.135E-13
   27 no_chdf11         1.00      -0.165E+04  0.165E+04  0.100E-18  0.165E-15
   28 no_chdf12         1.00      -0.258E+04  0.258E+04  0.100E-18  0.258E-15
   29 no_chdf13         1.00      -0.433E+05  0.433E+05  0.100E-18  0.433E-14
   30 no_chdf14         1.00      -0.119E+05  0.119E+05  0.100E-18  0.119E-14
   31 no_chdf15         1.00      -0.315E+04  0.315E+04  0.100E-18  0.315E-15
   32 no_chdf16         1.00      -0.111E+06  0.111E+06  0.100E-18  0.111E-13
   33 no_chdf17         1.00      -0.343E+05  0.343E+05  0.100E-18  0.343E-14
   34 no_chdf18         1.00      -0.663E+05  0.663E+05  0.100E-18  0.663E-14
   35 no_chdf19         1.00      -0.631E+05  0.631E+05  0.100E-18  0.631E-14

STATISTICS FOR CONSTANT-HEAD BOUNDARY FLOW RESIDUALS :
MAXIMUM WEIGHTED RESIDUAL  : 0.135E-13 OBS#     26
MINIMUM WEIGHTED RESIDUAL  : 0.165E-15 OBS#     27
AVERAGE WEIGHTED RESIDUAL  : 0.474E-14
# RESIDUALS >= 0. :      20
# RESIDUALS < 0.  :       0
NUMBER OF RUNS  :    1  IN   20 OBSERVATIONS

SUM OF SQUARED WEIGHTED RESIDUALS
  (CONSTANT-HEAD BOUNDARY FLOWS ONLY)  0.84525E-27

SUM OF SQUARED WEIGHTED RESIDUALS (ALL DEPENDENT VARIABLES)   27.463

STATISTICS FOR ALL RESIDUALS :
AVERAGE WEIGHTED RESIDUAL  :-0.923E-01
# RESIDUALS >= 0. :      25
# RESIDUALS < 0.  :      10
NUMBER OF RUNS  :    6  IN   35 OBSERVATIONS

INTERPRETING THE CALCULATED RUNS STATISTIC VALUE OF     -3.72
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:        35
    -3.76      -1.72      -1.28     -0.405     -0.198     -0.160E-15 -0.691E-16
   -0.599E-16 -0.174E-16 -0.521E-17  0.100E-18  0.100E-18  0.165E-15  0.169E-15
    0.258E-15  0.263E-15  0.315E-15  0.321E-15  0.119E-14  0.121E-14  0.171E-14
    0.343E-14  0.350E-14  0.433E-14  0.437E-14  0.631E-14  0.631E-14  0.663E-14
    0.675E-14  0.111E-13  0.111E-13  0.135E-13  0.135E-13   1.95       2.18

CORRELATION BETWEEN ORDERED WEIGHTED RESIDUALS AND NORMAL ORDER STATISTICS
FOR OBSERVATIONS =    0.524

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

```
The critical value for correlation at the 5% significance level is 0.943

IF the reported CORRELATION is GREATER than the 5% critical value, ACCEPT
the hypothesis that the weighted residuals are INDEPENDENT AND NORMALLY
DISTRIBUTED at the 5% significance level.  The probability that this
conclusion is wrong is less than 5%.

IF the reported correlation IS LESS THAN the 5% critical value REJECT the
hypothesis that the weighted residuals are INDEPENDENT AND NORMALLY
DISTRIBUTED at the 5% significance level.

The analysis can also be done using the 10% significance level.
The associated critical value is 0.952
---------------------------------------------------------------------------
```

```
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 north_trend_may-10

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                            :    35
   Number of prior estimates                         :     0
```

Model command line(s):-

start /w /min North_Trend_May-10_bat1.bat

Jacobian command line:-

na

Model interface files:-

```
   Templates:
      North_Trend_May-10.tpl_1
   for model input files:
      North_Trend_May-10.snn_1

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

   Instruction files:
      North_Trend_May-10.ins
   for reading model output files:
      North_Trend_May-10._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 outside_pts	relative	1.0000E-02	none	switch	2.000	

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_drnf1	1.00000	1.0000E-19	drain
no_drnf2	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_ghbf4	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)                = 37.099
  Contribution to phi from observation group "head"         = 37.099
  Contribution to phi from observation group "drain"        = 2.93924E-30
  Contribution to phi from observation group "ghb"          = 2.97631E-32
  Contribution to phi from observation group "const_head"   = 8.45250E-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                          :  37.099
   Contribution to phi from observation group "head"        :  37.099
   Contribution to phi from observation group "drain"       : 2.93924E-30
   Contribution to phi from observation group "ghb"         : 2.97631E-32
   Contribution to phi from observation group "const_head"  : 8.45250E-28

       Lambda =   10.000     ----->
          Phi =   33.992      (  0.916 of starting phi)

       Lambda =   5.0000     ----->
          Phi =   33.262      (  0.897 of starting phi)

   No more lambdas: relative phi reduction between lambdas less than 0.0300
   Lowest phi this iteration:   33.262

      Current parameter values                 Previous parameter values
      hk_800           1.34326                 hk_800            1.40000
      ghb_300         0.174360                 ghb_300          0.100000
      ghb_400         0.158756                 ghb_400          0.100000
   Maximum   factor change:  1.744     ["ghb_300"]
   Maximum relative change: 0.7436     ["ghb_300"]


OPTIMISATION ITERATION NO.        :    2
   Model calls so far             :    6
```

```
   Starting phi for this iteration                          :   33.262
   Contribution to phi from observation group "head"        :   33.262
   Contribution to phi from observation group "drain"       :  2.93916E-30
   Contribution to phi from observation group "ghb"         :  3.22052E-32
   Contribution to phi from observation group "const_head"  :  8.45249E-28

       Lambda =   2.5000     ----->
          Phi =   61.663      (  1.854 times starting phi)

       Lambda =   1.2500     ----->
          Phi =   61.866      (  1.860 times starting phi)

       Lambda =   5.0000     ----->
          Phi =   61.084      (  1.836 times starting phi)

   No more lambdas: relative phi reduction between lambdas less than 0.0300
   Lowest phi this iteration:   61.084
   Relative phi reduction between optimisation iterations less than 0.1000
   Switch to central derivatives calculation
   (restart from best parameters so far - these achieved at iteration    1)

      Current parameter values
      hk_800           1.34326
      ghb_300          0.174360
      ghb_400          0.158756


OPTIMISATION ITERATION NO.        :    3
   Model calls so far             :   12
   Starting phi for this iteration                          :   33.262
   Contribution to phi from observation group "head"        :   33.262
   Contribution to phi from observation group "drain"       :  2.93916E-30
   Contribution to phi from observation group "ghb"         :  3.22052E-32
   Contribution to phi from observation group "const_head"  :  8.45249E-28

       Lambda =   2.5000     ----->
          Phi =   54.437      (  1.637 times starting phi)

       Lambda =   1.2500     ----->
          Phi =   55.955      (  1.682 times starting phi)

       Lambda =   5.0000     ----->
          Phi =   53.014      (  1.594 times starting phi)

   No more lambdas: relative phi reduction between lambdas less than 0.0300
   Lowest phi this iteration:   53.014

      Current parameter values                  Previous parameter values
      hk_800          0.813766                  hk_800           1.34326
      ghb_300         0.406325                  ghb_300         0.174360
      ghb_400         0.504439                  ghb_400         0.158756
   Maximum   factor change:  3.177     ["ghb_400"]
   Maximum relative change:  2.177     ["ghb_400"]


OPTIMISATION ITERATION NO.        :    4
   Model calls so far             :   21
   Starting phi for this iteration                          :   53.014
   Contribution to phi from observation group "head"        :   53.014
   Contribution to phi from observation group "drain"       :  2.93923E-30
   Contribution to phi from observation group "ghb"         :  3.12452E-32
   Contribution to phi from observation group "const_head"  :  8.45249E-28
```

```
      Lambda =   5.0000     ----->
         Phi =   29.137      (  0.550 of starting phi)

      Lambda =   2.5000     ----->
         Phi =   29.114      (  0.549 of starting phi)

   No more lambdas: relative phi reduction between lambdas less than 0.0300
   Lowest phi this iteration:   29.114

      Current parameter values                 Previous parameter values
      hk_800           0.998146                hk_800           0.813766
      ghb_300          0.720877                ghb_300          0.406325
      ghb_400           1.26678                ghb_400          0.504439
   Maximum   factor change:  2.511     ["ghb_400"]
   Maximum relative change:  1.511     ["ghb_400"]


OPTIMISATION ITERATION NO.        :    5
   Model calls so far             :   29
   Starting phi for this iteration                          :   29.114
   Contribution to phi from observation group "head"        :   29.114
   Contribution to phi from observation group "drain"       :  2.93922E-30
   Contribution to phi from observation group "ghb"         :  3.30027E-32
   Contribution to phi from observation group "const_head"  :  8.45250E-28

      Lambda =   1.2500     ----->
         Phi =   28.023      (  0.963 of starting phi)

      Lambda =  0.62500     ----->
         Phi =   28.432      (  0.977 of starting phi)

      Lambda =   2.5000     ----->
         Phi =   27.646      (  0.950 of starting phi)

   No more lambdas: relative phi reduction between lambdas less than 0.0300
   Lowest phi this iteration:   27.646

      Current parameter values                 Previous parameter values
      hk_800            1.02894                hk_800           0.998146
      ghb_300           1.54379                ghb_300          0.720877
      ghb_400           6.23524                ghb_400           1.26678
   Maximum   factor change:  4.922     ["ghb_400"]
   Maximum relative change:  3.922     ["ghb_400"]


OPTIMISATION ITERATION NO.        :    6
   Model calls so far             :   38
   Starting phi for this iteration                          :   27.646
   Contribution to phi from observation group "head"        :   27.646
   Contribution to phi from observation group "drain"       :  2.93923E-30
   Contribution to phi from observation group "ghb"         :  3.38636E-32
   Contribution to phi from observation group "const_head"  :  8.45249E-28

      Lambda =   2.5000     ----->
         Phi =   27.569      (  0.997 of starting phi)

      Lambda =   1.2500     ----->
         Phi =   27.587      (  0.998 of starting phi)

      Lambda =   5.0000     ----->
         Phi =   27.536      (  0.996 of starting phi)

   No more lambdas: relative phi reduction between lambdas less than 0.0300
```

```
   Lowest phi this iteration:   27.536

      Current parameter values                 Previous parameter values
      hk_800           1.03080                 hk_800             1.02894
      ghb_300          1.36875                 ghb_300            1.54379
      ghb_400          31.1762                 ghb_400            6.23524
   Maximum   factor change:  5.000     ["ghb_400"]
   Maximum relative change:  4.000     ["ghb_400"]


OPTIMISATION ITERATION NO.        :    7
   Model calls so far             :   47
   Starting phi for this iteration                          :   27.536
   Contribution to phi from observation group "head"        :   27.536
   Contribution to phi from observation group "drain"       :  2.93923E-30
   Contribution to phi from observation group "ghb"         :  3.36302E-32
   Contribution to phi from observation group "const_head"  :  8.45249E-28

       Lambda =   5.0000     ----->
          Phi =   27.501      (  0.999 of starting phi)

       Lambda =   2.5000     ----->
          Phi =   27.509      (  0.999 of starting phi)

       Lambda =   10.000     ----->
          Phi =   27.484      (  0.998 of starting phi)

   No more lambdas: relative phi reduction between lambdas less than 0.0300
   Lowest phi this iteration:   27.484

      Current parameter values                 Previous parameter values
      hk_800           1.03735                 hk_800             1.03080
      ghb_300          1.22257                 ghb_300            1.36875
      ghb_400          155.881                 ghb_400            31.1762
   Maximum   factor change:  5.000     ["ghb_400"]
   Maximum relative change:  4.000     ["ghb_400"]


OPTIMISATION ITERATION NO.        :    8
   Model calls so far             :   56
   Starting phi for this iteration                          :   27.484
   Contribution to phi from observation group "head"        :   27.484
   Contribution to phi from observation group "drain"       :  2.93921E-30
   Contribution to phi from observation group "ghb"         :  3.34970E-32
   Contribution to phi from observation group "const_head"  :  8.45249E-28

       Lambda =   10.000     ----->
          Phi =   27.466      (  0.999 of starting phi)

       Lambda =   5.0000     ----->
          Phi =   27.467      (  0.999 of starting phi)

       Lambda =   20.000     ----->
          Phi =   27.470      (  0.999 of starting phi)

   No more lambdas: phi rising
   Lowest phi this iteration:   27.466

      Current parameter values                 Previous parameter values
      hk_800           1.03321                 hk_800             1.03735
      ghb_300          1.92869                 ghb_300            1.22257
      ghb_400          779.405                 ghb_400            155.881
   Maximum   factor change:  5.000     ["ghb_400"]
```

Maximum relative change: 4.000   ["ghb_400"]

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

Total model calls: 65

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	1.03321	0.801084	1.26534
ghb_300	1.92869	-9.32684	13.1842
ghb_400	779.405	-5.673894E+19	5.673894E+19

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 north_trend_may-10.sen for parameter sensitivities.

Observations ----->

Observation	Measured value	Calculated value	Residual	Weight	Group
hed1	3689.73	3695.48	-5.75000	0.6533	head
hed2	3698.05	3700.68	-2.62900	0.6533	head
hed3	3696.72	3697.34	-0.620000	0.6533	head
hed4	3700.85	3701.15	-0.304000	0.6533	head
hed5	3706.41	3703.07	3.34400	0.6533	head
hed6	3702.56	3704.52	-1.96300	0.6533	head
hed7	3604.85	3601.87	2.97700	0.6533	head
no_drnf0	1.00000	0.00000	1.00000	1.0000E-19	drain
no_drnf1	1.00000	-17143.3	17144.3	1.0000E-19	drain
no_drnf2	1.00000	0.00000	1.00000	1.0000E-19	drain
no_ghbf0	1.00000	599.640	-598.640	1.0000E-19	ghb
no_ghbf1	1.00000	175.408	-174.408	1.0000E-19	ghb
no_ghbf2	1.00000	1598.75	-1597.75	1.0000E-19	ghb
no_ghbf3	1.00000	653.598	-652.598	1.0000E-19	ghb
no_ghbf4	1.00000	53.0642	-52.0642	1.0000E-19	ghb

```
no_chdf0               1.00000       -134878.        134879.       1.0000E-19
const_head
no_chdf1               1.00000       -1686.56        1687.56       1.0000E-19
const_head
no_chdf2               1.00000       -2630.72        2631.72       1.0000E-19
const_head
no_chdf3               1.00000       -43652.9        43653.9       1.0000E-19
const_head
no_chdf4               1.00000       -12126.8        12127.8       1.0000E-19
const_head
no_chdf5               1.00000       -3208.16        3209.16       1.0000E-19
const_head
no_chdf6               1.00000       -110580.        110581.       1.0000E-19
const_head
no_chdf7               1.00000       -34960.6        34961.6       1.0000E-19
const_head
no_chdf8               1.00000       -67483.7        67484.7       1.0000E-19
const_head
no_chdf9               1.00000       -63118.8        63119.8       1.0000E-19
const_head
no_chdf10              1.00000       -135094.        135095.       1.0000E-19
const_head
no_chdf11              1.00000       -1652.60        1653.60       1.0000E-19
const_head
no_chdf12              1.00000       -2580.86        2581.86       1.0000E-19
const_head
no_chdf13              1.00000       -43337.1        43338.1       1.0000E-19
const_head
no_chdf14              1.00000       -11925.0        11926.0       1.0000E-19
const_head
no_chdf15              1.00000       -3147.62        3148.62       1.0000E-19
const_head
no_chdf16              1.00000       -111462.        111463.       1.0000E-19
const_head
no_chdf17              1.00000       -34330.1        34331.1       1.0000E-19
const_head
no_chdf18              1.00000       -66329.0        66330.0       1.0000E-19
const_head
no_chdf19              1.00000       -63073.2        63074.2       1.0000E-19
const_head

See file north_trend_may-10.res for more details of residuals in graph-ready format.

See file north_trend_may-10.seo for composite observation sensitivities.


Objective function ----->

  Sum of squared weighted residuals (ie phi)                =   27.47
  Contribution to phi from observation group "head"         =   27.47
  Contribution to phi from observation group "drain"        =  2.9393E-30
  Contribution to phi from observation group "ghb"          =  3.3702E-32
  Contribution to phi from observation group "const_head"   =  8.4525E-28


Correlation Coefficient ----->

  Correlation coefficient                                   =   1.000


Analysis of residuals ----->

  All residuals:-
```

```
    Number of residuals with non-zero weight                         =    35
    Mean value of non-zero weighted residuals                        = -9.2305E-02
    Maximum weighted residual [observation "hed5"]                   =   2.185
    Minimum weighted residual [observation "hed1"]                   =  -3.757
    Standard variance of weighted residuals                          =  0.8583
    Standard error of weighted residuals                             =  0.9265

    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                        = -0.4615
    Maximum weighted residual [observation "hed5"]                   =   2.185
    Minimum weighted residual [observation "hed1"]                   =  -3.757
    "Variance" of weighted residuals                                 =   3.924
    "Standard error" of weighted residuals                           =   1.981

    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                         =     3
    Mean value of non-zero weighted residuals                        =  5.7154E-16
    Maximum weighted residual [observation "no_drnf1"]               =  1.7144E-15
    Minimum weighted residual [observation "no_drnf0"]               =  1.0000E-19
    "Variance" of weighted residuals                                 =  9.7975E-31
    "Standard error" of weighted residuals                           =  9.8982E-16

    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                         =     5
    Mean value of non-zero weighted residuals                        = -6.1509E-17
    Maximum weighted residual [observation "no_ghbf4"]               = -5.2064E-18
    Minimum weighted residual [observation "no_ghbf2"]               = -1.5977E-16
    "Variance" of weighted residuals                                 =  6.7404E-33
    "Standard error" of weighted residuals                           =  8.2100E-17

    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                        =  4.7364E-15
    Maximum weighted residual [observation "no_chdf10"]              =  1.3509E-14
    Minimum weighted residual [observation "no_chdf11"]              =  1.6536E-16
    "Variance" of weighted residuals                                 =  4.2262E-29
    "Standard error" of weighted residuals                           =  6.5010E-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	1.2976E-02	-0.5118	33.58
ghb_300	-0.5118	30.51	-1746.
ghb_400	33.58	-1746.	7.7525E+38

Parameter correlation coefficient matrix ----->

	hk_800	ghb_300	ghb_400
hk_800	1.000	-0.8135	1.0589E-17
ghb_300	-0.8135	1.000	-1.1353E-17
ghb_400	1.0589E-17	-1.1353E-17	1.000

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

	Vector_1	Vector_2	Vector_3
hk_800	0.9999	1.6777E-02	4.3321E-38
ghb_300	1.6777E-02	-0.9999	-2.2521E-36
ghb_400	-5.5312E-39	-2.2525E-36	1.000

Eigenvalues ----->

4.3881E-03	30.52	7.7525E+38

```
3 0 0 3
0 0 0 0
HK_800 1 0 1.4 0.001 20.0 1.0
GHB_300 1 0 0.1 0.001 1000.0 1.0
GHB_400 1 0 0.1 0.001 1000.0 1.0
```

```
#GMS_HDF5_01
1 40 AUX IFACE AUX QFACT AUX CELLGRP
         1         0         0
GMS_HDF5_01 "North_Trend_May-10.h5" "Well" 1
```