APPENDIX C

Crown-Fill Evaluation Model Results

APPENDIX C-1

Industrial Waste Management Evaluation Model (IWEM) Output, U.S. EPA, Version 3.1

Output (Details)

Results - User-Defined Liner (18)

CAS	Constituent Name	Leachate Concentration (mg/L)	DAF	Toxicity Standard	Exposure Duration (y)	Reference Groundwater Concentration (mg/L)	90th Percentile Exposure Level (mg/L)	Below Benchmark?
7782-49-2	Selenium (VI)	0.98	1.60E+12	User Defined	30	0.05	6.02E-13	Yes
7440-28-0	Thallium	0.24	1.70E+13	User Defined	30	0.002	1.44E-14	Yes
7440-62-2	Vanadium	3.65	1.00E+30	User Defined	30	0.086	0.00E+00	Yes
7440-66-6	Zinc	3.725	1.00E+30	User Defined	30	6	0.00E+00	Yes
7440-09-7	Potassium	20.7	1.00E+30	User Defined	30	4	0.00E+00	Yes
7440-26-5	Sodium	1000	1.00E+30	User Defined	30	250	0.00E+00	Yes
7440-36-0	Antimony	0.065	1.00E+30	User Defined	30	0.006	0.00E+00	Yes
22569-72-8	Arsenic (III)	6.05	1.00E+30	User Defined	30	0.01	0.00E+00	Yes
15584-04-0	Arsenic (V)	6.05	1.00E+30	User Defined	30	0.01	0.00E+00	Yes
7440-39-3	Barium	2.7	1.00E+30	User Defined	30	2	0.00E+00	Yes
7440-43-9	Cadmium	0.08	1.00E+30	User Defined	30	0.005	0.00E+00	Yes
16065-83-1	Chromium (III) (Chromic	1.995	1.00E+30	User Defined	30	0.1	0.00E+00	Yes
7440-48-4	Cobalt	1.995	1.00E+30	User Defined	30	0.006	0.00E+00	Yes
7440-50-8	Copper	1.69	1.00E+30	User Defined	30	1.3	0.00E+00	Yes
7439-92-1	Lead	1.57	1.00E+30	User Defined	30	0.015	0.00E+00	Yes
7439-96-5	Manganese	2.795	1.00E+30	User Defined	30	0.43	0.00E+00	Yes
7439-97-6	Mercury	0.04	2.80E+13	User Defined	30	0.002	1.42E-15	Yes
7439-98-7	Molybdenum	1.52	1.60E+14	User Defined	30	0.1	9.39E-15	Yes
7440-02-0	Nickel	2.35	1.00E+30	User Defined	30	0.39	0.00E+00	Yes
10026-03-6	Selenium (IV)	0.98	6.40E+15	User Defined	30	0.05	1.53E-16	Yes
7440-22-4	Silver	0.025	1.00E+30	User Defined	30	0.094	0.00E+00	Yes

<< Previous

Summary Results

Recommendation >>

Output (Details)

Results - User-Defined Liner (18)

CAS	Constituent Name	Leachate Concentration (mg/L)	DAF	Toxicity Standard	Exposure Duration (y)	Reference Groundwater Concentration (mg/L)	90th Percentile Exposure Level (mg/L)	Below Benchmark?
7440-36-0	Antimony	0.065	1.00E+30	User Defined	30	0.006	0.00E+00	Yes
22569-72-8	Arsenic (III)	6.05	1.00E+30	User Defined	30	0.01	0.00E+00	Yes
15584-04-0	Arsenic (V)	6.05	1.00E+30	User Defined	30	0.01	0.00E+00	Yes
7440-39-3	Barium	2.7	1.00E+30	User Defined	30	2	0.00E+00	Yes
7440-43-9	Cadmium	0.08	1.00E+30	User Defined	30	0.005	0.00E+00	Yes
16065-83-1	Chromium (III) (Chromic	1.995	1.00E+30	User Defined	30	0.1	0.00E+00	Yes
7440-48-4	Cobalt	1.995	1.00E+30	User Defined	30	0.006	0.00E+00	Yes
7440-50-8	Copper	1.69	1.00E+30	User Defined	30	1.3	0.00E+00	Yes
7439-92-1	Lead	1.57	1.00E+30	User Defined	30	0.015	0.00E+00	Yes
7439-96-5	Manganese	2.795	1.00E+30	User Defined	30	0.43	0.00E+00	Yes
7439-97-6	Mercury	0.04	1.10E+14	User Defined	30	0.002	3.81E-16	Yes
7439-98-7	Molybdenum	1.52	2.00E+15	User Defined	30	0.1	7.54E-16	Yes
7440-02-0	Nickel	2.35	1.00E+30	User Defined	30	0.39	0.00E+00	Yes
10026-03-6	Selenium (IV)	0.98	4.40E+17	User Defined	30	0.05	2.22E-18	Yes
7440-22-4	Silver	0.025	1.00E+30	User Defined	30	0.094	0.00E+00	Yes
7782-49-2	Selenium (VI)	0.98	1.40E+12	User Defined	30	0.05	7.14E-13	Yes
7440-28-0	Thallium	0.24	4.60E+14	User Defined	30	0.002	5.18E-16	Yes
7440-62-2	Vanadium	3.65	1.00E+30	User Defined	30	0.086	0.00E+00	Yes
7440-66-6	Zinc	3.725	1.00E+30	User Defined	30	6	0.00E+00	Yes
7440-09-7	Potassium	20.7	1.00E+30	User Defined	30	4	0.00E+00	Yes
7440-26-5	Sodium	1000	1.00E+30	User Defined	30	250	0.00E+00	Yes

APPENDIX C-2

Hydrologic Evaluation of Landfill Performance (HELP) Model Output, U.S. EPA, Version 3.07, as performed by Haley & Aldrich, Inc., September 2018

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**                                                                          **
**                                                                          **
**              HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE               **
**                                                                          **
**              HELP Version 3.95 D          (10 August 2012)               **
**                              developed at                                **
**        Institute of Soil Science, University of Hamburg, Germany         **
**                              based on                                    **
**              US HELP MODEL VERSION 3.07  (1 NOVEMBER 1997)               **
**                  DEVELOPED BY ENVIRONMENTAL LABORATORY                   **
**                    USAE WATERWAYS EXPERIMENT STATION                     **
**              FOR USEPA RISK REDUCTION ENGINEERING LABORATORY             **
**                                                                          **
**                                                                          **
******************************************************************************
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 TIME:  12.10     DATE:  19.09.2018


 PRECIPITATION DATA FILE:      \\haleyaldrich.com\share\cle_common\Projects\132766
AES IPL Petersburg Structural Fill BU\HELP\Input\Evansville_Precip.d4
 TEMPERATURE DATA FILE:        \\haleyaldrich.com\share\cle_common\Projects\132766
AES IPL Petersburg Structural Fill BU\HELP\Input\Evansville_Temp.d7
 SOLAR RADIATION DATA FILE:    \\haleyaldrich.com\share\cle_common\Projects\132766
AES IPL Petersburg Structural Fill BU\HELP\Input\Evansville_Solar.d13
 EVAPOTRANSPIRATION DATA F. 1: \\haleyaldrich.com\share\cle_common\Projects\132766
AES IPL Petersburg Structural Fill BU\HELP\Input\Evansville_Evapo.d11
 SOIL AND DESIGN DATA FILE  1: \\haleyaldrich.com\share\cle_common\Projects\132766
AES IPL Petersburg Structural Fill BU\HELP\Input\Soil_Pond A_17'.d10
 OUTPUT DATA FILE:             \\haleyaldrich.com\share\cle_common\Projects\132766
AES IPL Petersburg Structural Fill BU\HELP\Output\Pond a_17'_Summary.out
 DAILY OUTPUT DATA FILE:       \\haleyaldrich.com\share\cle_common\Projects\132766
AES IPL Petersburg Structural Fill BU\HELP\Output\Pond a_17'_Summary.DAY
 MONTHLY OUTPUT DATA FILE:     \\haleyaldrich.com\share\cle_common\Projects\132766
AES IPL Petersburg Structural Fill BU\HELP\Output\Pond a_17'_Summary.MON
 YEARLY OUTPUT DATA FILE:      \\haleyaldrich.com\share\cle_common\Projects\132766
AES IPL Petersburg Structural Fill BU\HELP\Output\Pond a_17'_Summary.YR

 COLUMNS OF DAILY OUTPUT DATA FILE:

      1    DATE (yyyymmdd, years 2101 to 2200 from weather generator)
      2    AIR TEMPERATURE  (* INDICATES FREEZING TEMPERATURES)
      3    FROZEN SOIL STATE (* INDICATES FROZEN SOIL)
      4    PRECIPITATION (INCH)
      5    RUNOFF (INCH)
      6    POTENTIAL EVAPOTRANSPIRATION (INCH)
      7    ACTUAL EVAPOTRANSPIRATION (INCH)
      8    WATER CONTENT OF THE EVAPORATIVE ZONE (INCH)
      9    HEAD  #1: AVERAGE HEAD ON TOP OF LAYER  3 (INCH)
     10    DRAIN #1: LATERAL DRAINAGE FROM LAYER  2 (INCH)
     11    LEAK  #1: PERCOLATION/LEAKAGE THROUGH LAYER  3 (INCH)
     12    LEAK  #2: PERCOLATION/LEAKAGE THROUGH LAYER  4 (INCH)

 COLUMNS OF MONTHLY OUTPUT DATA FILE:

      1    DATE OF ULTIMO (yyyymmdd, years 2101 to 2200 from weather generator)
      2    PRECIPITATION (INCH)
      3    RUNOFF (INCH)
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     4    POTENTIAL EVAPOTRANSPIRATION (INCH)
     5    ACTUAL EVAPOTRANSPIRATION (INCH)
     6    HEAD  #1: AVERAGE HEAD ON TOP OF LAYER  3 (INCH)
     7    DRAIN #1: LATERAL DRAINAGE FROM LAYER  2 (INCH)
     8    LEAK  #1: PERCOLATION/LEAKAGE THROUGH LAYER  3 (INCH)
     9    LEAK  #2: PERCOLATION/LEAKAGE THROUGH LAYER  4 (INCH)

COLUMNS OF YEARLY OUTPUT DATA FILE:

     1    DATE OF ULTIMO (yyyy1231, years 2101 to 2200 from weather generator)
     2    PRECIPITATION (INCH)
     3    RUNOFF (INCH)
     4    POTENTIAL EVAPOTRANSPIRATION (INCH)
     5    ACTUAL EVAPOTRANSPIRATION (INCH)
     6    DRAIN #1: LATERAL DRAINAGE FROM LAYER  2 (INCH)
     7    LEAK  #1: PERCOLATION/LEAKAGE THROUGH LAYER  3 (INCH)
     8    LEAK  #2: PERCOLATION/LEAKAGE THROUGH LAYER  4 (INCH)
     9    CHANGE IN TOTAL WATER STORAGE (INCH)
    10    CHANGE IN SOIL WATER STORAGE (INCH)
    11    CHANGE IN INTERCEPTION WATER STORAGE (INCH)
    12    CHANGE IN SNOW WATER STORAGE (INCH)
    13    ANNUAL WATER BUDGET BALANCE (INCH)

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    TITLE:  Pond A

*******************************************************************************

                          WEATHER DATA SOURCES
-------------------------------------------------------------------------------

        NOTE:  PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING
                 COEFFICIENTS FOR    EVANSVILLE          INDIANA

                 NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

   JAN/JUL      FEB/AUG      MAR/SEP      APR/OCT      MAY/NOV      JUN/DEC
   -------      -------      -------      -------      -------      -------
     2.99         3.02         4.58         4.08         4.37         3.50
     3.98         3.07         2.67         2.48         3.36         3.45

        NOTE:  TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING
                 COEFFICIENTS FOR    EVANSVILLE          INDIANA

              NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

   JAN/JUL      FEB/AUG      MAR/SEP      APR/OCT      MAY/NOV      JUN/DEC
   -------      -------      -------      -------      -------      -------
    30.80        34.90        44.60        56.50        65.60        74.60
    78.10        76.20        69.40        57.30        45.10        35.60

        NOTE:  SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING
                 COEFFICIENTS FOR    EVANSVILLE          INDIANA
                   AND STATION LATITUDE  =  38.03 DEGREES
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                              LAYER DATA   1
------------------------------------------------------------------------------

                           VALID FOR  30 YEARS

     NOTE:  INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER WERE
              COMPUTED AS NEARLY STEADY-STATE VALUES BY THE PROGRAM.


                                 LAYER  1
                                 --------

                 TYPE 1 - VERTICAL PERCOLATION LAYER
                     MATERIAL TEXTURE NUMBER   6
       THICKNESS                    =      36.00   INCHES
       POROSITY                     =       0.4530 VOL/VOL
       FIELD CAPACITY               =       0.1900 VOL/VOL
       WILTING POINT                =       0.0850 VOL/VOL
       INITIAL SOIL WATER CONTENT   =       0.2144 VOL/VOL
       EFFECTIVE SAT. HYD. CONDUCT.=       0.7200E-03 CM/SEC
     NOTE:  SATURATED HYDRAULIC CONDUCTIVITY IS MULTIPLIED BY  4.63
              FOR ROOT CHANNELS IN TOP HALF OF EVAPORATIVE ZONE.


                                 LAYER  2
                                 --------

                 TYPE 2 - LATERAL DRAINAGE LAYER
                     MATERIAL TEXTURE NUMBER  20
       THICKNESS                    =       0.07   INCHES
       POROSITY                     =       0.8500 VOL/VOL
       FIELD CAPACITY               =       0.0100 VOL/VOL
       WILTING POINT                =       0.0050 VOL/VOL
       INITIAL SOIL WATER CONTENT   =       0.0527 VOL/VOL
       EFFECTIVE SAT. HYD. CONDUCT.=        10.00     CM/SEC
       SLOPE                        =       5.00   PERCENT
       DRAINAGE LENGTH              =     200.0    FEET


                                 LAYER  3
                                 --------

                 TYPE 4 - FLEXIBLE MEMBRANE LINER
                     MATERIAL TEXTURE NUMBER  36
       THICKNESS                    =       0.04   INCHES
       EFFECTIVE SAT. HYD. CONDUCT.=       0.4000E-12 CM/SEC
       FML PINHOLE DENSITY          =       4.00   HOLES/ACRE
       FML INSTALLATION DEFECTS     =       4.00   HOLES/ACRE
       FML PLACEMENT QUALITY        =  3 - GOOD


                                 LAYER  4
                                 --------
```

```
              TYPE 1 - VERTICAL PERCOLATION LAYER
                 MATERIAL TEXTURE NUMBER  30
THICKNESS                    =    204.00   INCHES
POROSITY                     =      0.5410 VOL/VOL
FIELD CAPACITY               =      0.1870 VOL/VOL
WILTING POINT                =      0.0470 VOL/VOL
INITIAL SOIL WATER CONTENT   =      0.1870 VOL/VOL
EFFECTIVE SAT. HYD. CONDUCT.=       0.5000E-04 CM/SEC
```

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GENERAL DESIGN AND EVAPORATIVE ZONE DATA 1

VALID FOR 30 YEARS

```
NOTE:  SCS RUNOFF CURVE NUMBER WAS COMPUTED FROM DEFAULT
         SOIL DATA BASE USING SOIL TEXTURE # 6 WITH A
         GOOD STAND OF GRASS, A SURFACE SLOPE OF  2.%
         AND A SLOPE LENGTH OF  200. FEET.

SCS RUNOFF CURVE NUMBER              =    61.65
FRACTION OF AREA ALLOWING RUNOFF     =   100.0    PERCENT
AREA PROJECTED ON HORIZONTAL PLANE   =     1.000  ACRES
EVAPORATIVE ZONE DEPTH               =    18.0    INCHES
INITIAL WATER IN EVAPORATIVE ZONE    =     3.274  INCHES
UPPER LIMIT OF EVAPORATIVE STORAGE   =     8.154  INCHES
FIELD CAPACITY OF EVAPORATIVE ZONE   =     3.420  INCHES
LOWER LIMIT OF EVAPORATIVE STORAGE   =     1.530  INCHES
SOIL EVAPORATION ZONE DEPTH          =    15.099  INCHES
INITIAL SNOW WATER                   =     0.000  INCHES
INITIAL INTERCEPTION WATER           =     0.000  INCHES
INITIAL WATER IN LAYER MATERIALS     =    45.868  INCHES
TOTAL INITIAL WATER                  =    45.868  INCHES
TOTAL SUBSURFACE INFLOW              =     0.00   INCHES/YEAR
```

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EVAPOTRANSPIRATION DATA 1

VALID FOR 30 YEARS

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NOTE:  EVAPOTRANSPIRATION DATA WAS OBTAINED FROM
         EVANSVILLE          INDIANA
    STATION LATITUDE                          =  38.03 DEGREES
    MAXIMUM LEAF AREA INDEX                   =   3.50
    START OF GROWING SEASON (JULIAN DATE)     =     96
    END OF GROWING SEASON (JULIAN DATE)       =    300
    EVAPORATIVE ZONE DEPTH                    =  18.0  INCHES
    AVERAGE ANNUAL WIND SPEED                 =  13.19 MPH
    AVERAGE 1ST QUARTER RELATIVE HUMIDITY     =  70.0  %
    AVERAGE 2ND QUARTER RELATIVE HUMIDITY     =  67.0  %
    AVERAGE 3RD QUARTER RELATIVE HUMIDITY     =  72.0  %
    AVERAGE 4TH QUARTER RELATIVE HUMIDITY     =  54.0  %
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MONTHLY TOTALS (IN INCHES) FOR YEAR 1

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.59	2.76	3.99	2.08	3.18	4.32
	3.52	2.70	3.54	2.22	2.94	4.64
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.002
POTENTIAL EVAPOTRANSPIRATION	1.993	2.351	3.383	5.246	7.219	8.429
	8.114	6.920	5.336	5.423	4.232	2.849
ACTUAL EVAPOTRANSPIRATION	1.179	1.524	2.522	2.511	4.108	4.543
	2.386	3.943	1.704	2.152	1.174	1.898
LATERAL DRAINAGE COLLECTED	0.7641	0.1722	2.0392	0.6898	0.3161	0.1499
FROM LAYER 2	0.0629	0.0000	0.0000	0.1880	0.3436	3.1153
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0014
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0014

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.002	0.000	0.005	0.002	0.001	0.000
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.001	0.143
STD. DEVIATION OF DAILY	0.001	0.000	0.005	0.000	0.000	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.767

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ANNUAL TOTALS FOR YEAR 1

	INCHES	CU. FEET	PERCENT
PRECIPITATION	37.48	136052.422	100.00
RUNOFF	0.002	7.584	0.01
POTENTIAL EVAPOTRANSPIRATION	61.496	223229.297	

ACTUAL EVAPOTRANSPIRATION	29.644	107605.906	79.09
DRAINAGE COLLECTED FROM LAYER 2	7.8411	28463.055	20.92
PERC./LEAKAGE THROUGH LAYER 3	0.001671	6.064	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0128		
PERC./LEAKAGE THROUGH LAYER 4	0.001671	6.064	0.00
CHANGE IN WATER STORAGE	-0.008	-30.201	-0.02
SOIL WATER AT START OF YEAR	48.112	174648.000	
SOIL WATER AT END OF YEAR	48.104	174617.797	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 2

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.29	3.31	6.78	7.00	8.27	2.50
	3.65	0.69	6.88	1.21	1.79	2.01
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.315	1.862	3.345	5.618	6.667	8.045
	8.883	7.832	5.787	5.297	3.673	2.407
ACTUAL EVAPOTRANSPIRATION	1.068	1.486	2.667	4.115	5.893	4.230
	3.650	0.557	1.702	1.771	1.782	1.267
LATERAL DRAINAGE COLLECTED FROM LAYER 2	0.7630	1.1087	4.5217	1.1459	3.7484	1.6390
	0.3137	0.1532	0.0606	2.5637	0.3956	0.1763
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0000	0.0001	0.0002	0.0001	0.0001	0.0001
	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0000	0.0001	0.0002	0.0001	0.0001	0.0001
	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.002	0.003	0.010	0.003	0.009	0.004
TOP OF LAYER 3	0.001	0.000	0.000	0.006	0.001	0.000
STD. DEVIATION OF DAILY	0.001	0.002	0.010	0.002	0.009	0.002
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.006	0.000	0.000

ANNUAL TOTALS FOR YEAR 2

	INCHES	CU. FEET	PERCENT
PRECIPITATION	46.38	168359.391	100.00
RUNOFF	0.000	0.901	0.00
POTENTIAL EVAPOTRANSPIRATION	60.731	220452.875	
ACTUAL EVAPOTRANSPIRATION	30.187	109578.180	65.09
DRAINAGE COLLECTED FROM LAYER 2	16.5897	60220.605	35.77
PERC./LEAKAGE THROUGH LAYER 3	0.000710	2.578	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0032		
PERC./LEAKAGE THROUGH LAYER 4	0.000710	2.578	0.00
CHANGE IN WATER STORAGE	-0.397	-1442.839	-0.86
SOIL WATER AT START OF YEAR	48.104	174617.797	
SOIL WATER AT END OF YEAR	47.707	173174.953	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.028	0.00

MONTHLY TOTALS (IN INCHES) FOR YEAR 3

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	7.60	1.65	2.35	4.17	3.86	8.40
	8.78	2.89	4.23	0.97	2.16	1.48
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.022	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.855	2.307	3.312	5.730	7.457	8.124
	8.549	7.203	4.804	5.280	3.636	2.220
ACTUAL EVAPOTRANSPIRATION	1.357	1.536	2.062	3.084	5.409	7.128
	7.283	2.890	2.249	0.722	0.959	1.094
LATERAL DRAINAGE COLLECTED FROM LAYER 2	3.6332	2.3775	0.8627	0.7458	0.4576	0.2556
	2.1340	0.5266	0.1865	0.0494	0.5374	0.7151
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000
	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000
	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.008	0.006	0.002	0.002	0.001	0.001
	0.005	0.001	0.000	0.000	0.001	0.002
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.010	0.005	0.001	0.001	0.000	0.001
	0.005	0.001	0.000	0.000	0.001	0.001

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ANNUAL TOTALS FOR YEAR 3

	INCHES	CU. FEET	PERCENT
PRECIPITATION	48.54	176200.188	100.00
RUNOFF	0.022	79.175	0.04
POTENTIAL EVAPOTRANSPIRATION	60.478	219534.484	
ACTUAL EVAPOTRANSPIRATION	35.773	129856.594	73.70
DRAINAGE COLLECTED FROM LAYER 2	12.4815	45307.684	25.71
PERC./LEAKAGE THROUGH LAYER 3	0.000550	1.997	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0024		

PERC./LEAKAGE THROUGH LAYER 4	0.000550	1.997	0.00
CHANGE IN WATER STORAGE	0.263	954.719	0.54
SOIL WATER AT START OF YEAR	47.707	173174.953	
SOIL WATER AT END OF YEAR	47.809	173546.547	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.161	583.127	0.33
ANNUAL WATER BUDGET BALANCE	0.0000	0.017	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 4

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	4.24	2.38	3.69	3.16	3.81	2.80
	4.75	1.45	3.73	2.49	0.62	0.94
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.585	2.319	3.057	5.358	8.053	8.159
	8.516	7.402	5.190	5.145	3.755	2.534
ACTUAL EVAPOTRANSPIRATION	0.945	1.465	2.129	3.243	5.103	2.953
	3.601	2.572	2.321	2.148	1.381	0.599
LATERAL DRAINAGE COLLECTED	1.4851	1.6000	1.3200	1.4235	0.4979	0.2082
FROM LAYER 2	0.1255	0.0116	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.003	0.004	0.003	0.003	0.001	0.000
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.002	0.003	0.002	0.002	0.000	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 4

	INCHES	CU. FEET	PERCENT
PRECIPITATION	34.06	123637.836	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	61.073	221695.484	
ACTUAL EVAPOTRANSPIRATION	28.459	103307.508	83.56
DRAINAGE COLLECTED FROM LAYER 2	6.6718	24218.639	19.59
PERC./LEAKAGE THROUGH LAYER 3	0.000308	1.118	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0013		
PERC./LEAKAGE THROUGH LAYER 4	0.000308	1.118	0.00
CHANGE IN WATER STORAGE	-1.071	-3889.499	-3.15
SOIL WATER AT START OF YEAR	47.809	173546.547	
SOIL WATER AT END OF YEAR	46.898	170240.172	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.161	583.127	0.47
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.064	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 5

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.08	5.10	3.07	6.43	0.99	2.99
	4.63	4.08	3.29	3.16	3.00	1.83
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

POTENTIAL EVAPOTRANSPIRATION	1.825	1.795	3.658	4.655	7.251	8.147
	8.763	7.472	5.190	5.130	4.108	2.884
ACTUAL EVAPOTRANSPIRATION	1.069	1.308	2.777	3.303	3.093	2.962
	4.336	2.493	3.979	1.799	2.175	2.040
LATERAL DRAINAGE COLLECTED	0.0000	0.6744	2.6323	0.6683	2.1464	0.3251
FROM LAYER 2	0.1602	0.0684	0.2531	0.1509	0.4511	0.1471
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0001	0.0000	0.0001	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0001	0.0000	0.0001	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.000	0.002	0.006	0.002	0.005	0.001
TOP OF LAYER 3	0.000	0.000	0.001	0.000	0.001	0.000
STD. DEVIATION OF DAILY	0.000	0.004	0.003	0.001	0.004	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 5

	INCHES	CU. FEET	PERCENT
PRECIPITATION	39.65	143929.516	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	60.878	220985.625	
ACTUAL EVAPOTRANSPIRATION	31.335	113744.305	79.03
DRAINAGE COLLECTED FROM LAYER 2	7.6774	27869.029	19.36
PERC./LEAKAGE THROUGH LAYER 3	0.000350	1.270	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0015		
PERC./LEAKAGE THROUGH LAYER 4	0.000350	1.270	0.00
CHANGE IN WATER STORAGE	0.638	2314.917	1.61
SOIL WATER AT START OF YEAR	46.898	170240.172	
SOIL WATER AT END OF YEAR	47.536	172555.094	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	

INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.014	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 6

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.89	2.13	5.13	3.21	5.25	4.82
	4.37	5.66	3.14	1.15	3.61	2.97
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.488	2.344	3.657	5.807	7.835	7.894
	8.270	7.640	5.359	4.693	3.764	2.468
ACTUAL EVAPOTRANSPIRATION	0.905	1.929	2.117	3.749	4.488	6.514
	4.349	5.724	2.356	1.003	1.695	1.594
LATERAL DRAINAGE COLLECTED FROM LAYER 2	0.3544	0.5021	0.7940	1.9112	0.3880	0.3957
	0.2975	0.1465	0.0884	0.0000	0.0000	0.2425
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.001	0.001	0.002	0.005	0.001	0.001
	0.001	0.000	0.000	0.000	0.000	0.001
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.001	0.001	0.001	0.003	0.000	0.001
	0.000	0.000	0.000	0.000	0.000	0.001

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ANNUAL TOTALS FOR YEAR 6

	INCHES	CU. FEET	PERCENT
PRECIPITATION	43.33	157287.938	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	61.218	222219.766	
ACTUAL EVAPOTRANSPIRATION	36.422	132213.266	84.06
DRAINAGE COLLECTED FROM LAYER 2	5.1204	18586.932	11.82
PERC./LEAKAGE THROUGH LAYER 3	0.000250	0.906	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0010		
PERC./LEAKAGE THROUGH LAYER 4	0.000250	0.906	0.00
CHANGE IN WATER STORAGE	1.787	6486.750	4.12
SOIL WATER AT START OF YEAR	47.536	172555.094	
SOIL WATER AT END OF YEAR	49.114	178285.562	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.208	756.269	0.48
ANNUAL WATER BUDGET BALANCE	0.0000	0.085	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 7

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	4.54	0.39	7.34	4.01	2.97	1.93
	2.36	4.56	4.17	2.94	3.19	5.00
RUNOFF	0.000	0.000	0.049	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.758	2.078	3.674	5.268	7.428	8.443
	8.406	7.744	5.448	4.927	3.394	2.768
ACTUAL EVAPOTRANSPIRATION	1.155	1.034	2.162	3.399	4.330	1.930
	2.360	4.560	2.198	1.506	1.797	1.786
LATERAL DRAINAGE COLLECTED	3.7001	1.0914	3.6051	1.6031	0.7067	0.2305
FROM LAYER 2	0.1333	0.0257	0.0000	0.0241	2.1838	1.7768

PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0002	0.0001	0.0039	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0002	0.0001	0.0039	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.008	0.003	0.392	0.004	0.002	0.001
	0.000	0.000	0.000	0.000	0.005	0.004
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.006	0.001	1.734	0.002	0.001	0.000
	0.000	0.000	0.000	0.000	0.004	0.003

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ANNUAL TOTALS FOR YEAR 7

	INCHES	CU. FEET	PERCENT
PRECIPITATION	43.40	157542.016	100.00
RUNOFF	0.049	176.352	0.11
POTENTIAL EVAPOTRANSPIRATION	61.336	222649.312	
ACTUAL EVAPOTRANSPIRATION	28.218	102430.656	65.02
DRAINAGE COLLECTED FROM LAYER 2	15.0805	54742.312	34.75
PERC./LEAKAGE THROUGH LAYER 3	0.004367	15.851	0.01
AVG. HEAD ON TOP OF LAYER 3	0.0349		
PERC./LEAKAGE THROUGH LAYER 4	0.004367	15.851	0.01
CHANGE IN WATER STORAGE	0.049	176.845	0.11
SOIL WATER AT START OF YEAR	49.114	178285.562	
SOIL WATER AT END OF YEAR	48.912	177549.375	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.208	756.269	0.48
SNOW WATER AT END OF YEAR	0.460	1669.315	1.06
ANNUAL WATER BUDGET BALANCE	0.0000	-0.003	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 8

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	4.24	2.26	1.44	7.00	2.92	2.88
	2.83	2.89	0.97	2.26	2.81	2.71
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	2.144	2.587	3.781	5.800	7.221	8.610
	8.513	7.402	5.462	5.343	3.548	2.209
ACTUAL EVAPOTRANSPIRATION	1.268	1.084	1.661	4.170	4.681	3.056
	2.091	2.793	2.284	0.645	1.514	1.227
LATERAL DRAINAGE COLLECTED	4.5055	0.7158	0.3145	0.6232	1.7317	0.2795
FROM LAYER 2	0.1484	0.0507	0.0000	0.0000	0.0698	0.8790
PERCOLATION/LEAKAGE THROUGH	0.0002	0.0000	0.0000	0.0000	0.0001	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0002	0.0000	0.0000	0.0000	0.0001	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.010	0.002	0.001	0.001	0.004	0.001
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.002
STD. DEVIATION OF DAILY	0.009	0.001	0.000	0.003	0.003	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.001

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ANNUAL TOTALS FOR YEAR 8

	INCHES	CU. FEET	PERCENT
PRECIPITATION	35.21	127812.289	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	62.620	227309.375	

ACTUAL EVAPOTRANSPIRATION	26.475	96104.664	75.19
DRAINAGE COLLECTED FROM LAYER 2	9.3179	33824.051	26.46
PERC./LEAKAGE THROUGH LAYER 3	0.000408	1.480	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0018		
PERC./LEAKAGE THROUGH LAYER 4	0.000408	1.480	0.00
CHANGE IN WATER STORAGE	-0.583	-2117.883	-1.66
SOIL WATER AT START OF YEAR	48.912	177549.375	
SOIL WATER AT END OF YEAR	48.788	177100.797	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.460	1669.315	1.31
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.021	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 9

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	5.87	4.11	4.78	3.89	4.45	5.05
	2.24	5.40	5.34	1.55	3.38	5.14
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.738	1.905	3.531	5.696	7.038	8.188
	8.399	7.348	5.731	5.567	3.437	2.271
ACTUAL EVAPOTRANSPIRATION	1.006	1.084	2.417	3.458	6.086	4.890
	2.072	4.616	3.811	1.679	1.751	1.286
LATERAL DRAINAGE COLLECTED	3.4975	4.6320	1.0419	2.3963	0.5840	0.1991
FROM LAYER 2	0.1221	0.0052	0.0000	0.4073	0.5677	3.0146
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0002	0.0000	0.0001	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0002	0.0000	0.0001	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.008	0.012	0.002	0.006	0.001	0.000
TOP OF LAYER 3	0.000	0.000	0.000	0.001	0.001	0.007
STD. DEVIATION OF DAILY	0.010	0.008	0.001	0.003	0.001	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.001	0.000	0.006

ANNUAL TOTALS FOR YEAR 9

	INCHES	CU. FEET	PERCENT
PRECIPITATION	51.20	185856.000	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	60.849	220882.984	
ACTUAL EVAPOTRANSPIRATION	34.154	123978.625	66.71
DRAINAGE COLLECTED FROM LAYER 2	16.4677	59777.770	32.16
PERC./LEAKAGE THROUGH LAYER 3	0.000696	2.526	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0032		
PERC./LEAKAGE THROUGH LAYER 4	0.000696	2.526	0.00
CHANGE IN WATER STORAGE	0.578	2097.029	1.13
SOIL WATER AT START OF YEAR	48.788	177100.797	
SOIL WATER AT END OF YEAR	48.861	177363.672	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.505	1834.157	0.99
ANNUAL WATER BUDGET BALANCE	0.0000	0.048	0.00

MONTHLY TOTALS (IN INCHES) FOR YEAR 10

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.30 5.29	2.10 1.92	6.28 3.87	0.70 2.07	3.84 1.65	2.46 1.99
RUNOFF	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000
POTENTIAL EVAPOTRANSPIRATION	1.919 8.043	2.216 7.536	3.795 5.484	5.578 5.078	7.279 3.310	8.916 2.336
ACTUAL EVAPOTRANSPIRATION	1.216 4.287	1.642 2.923	2.954 2.651	1.516 2.223	4.908 1.667	2.533 1.318
LATERAL DRAINAGE COLLECTED FROM LAYER 2	2.1201 0.0760	0.8450 0.0000	1.8714 0.0000	1.5063 0.0000	0.3555 0.0000	0.1586 0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001 0.0000	0.0000 0.0000	0.0001 0.0000	0.0001 0.0000	0.0000 0.0000	0.0000 0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0001 0.0000	0.0000 0.0000	0.0001 0.0000	0.0001 0.0000	0.0000 0.0000	0.0000 0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.005 0.000	0.002 0.000	0.004 0.000	0.004 0.000	0.001 0.000	0.000 0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.004 0.000	0.001 0.000	0.003 0.000	0.002 0.000	0.000 0.000	0.000 0.000

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ANNUAL TOTALS FOR YEAR 10

	INCHES	CU. FEET	PERCENT
PRECIPITATION	34.47	125126.117	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	61.492	223214.797	
ACTUAL EVAPOTRANSPIRATION	29.839	108315.219	86.56
DRAINAGE COLLECTED FROM LAYER 2	6.9329	25166.336	20.11
PERC./LEAKAGE THROUGH LAYER 3	0.000315	1.143	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0013		

PERC./LEAKAGE THROUGH LAYER 4	0.000315	1.143	0.00
CHANGE IN WATER STORAGE	-2.302	-8356.585	-6.68
SOIL WATER AT START OF YEAR	48.861	177363.672	
SOIL WATER AT END OF YEAR	47.064	170841.234	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.505	1834.157	1.47
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.007	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 11

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	3.70	4.04	7.46	2.20	4.41	6.50
	4.22	0.57	1.55	0.93	1.80	4.98
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.808	1.822	4.023	5.737	7.240	8.070
	8.453	7.560	5.192	4.786	3.937	2.359
ACTUAL EVAPOTRANSPIRATION	1.246	1.212	3.173	2.737	4.508	5.583
	5.793	1.189	1.090	0.952	0.954	1.316
LATERAL DRAINAGE COLLECTED	1.0202	2.9235	2.6759	2.0756	0.3796	0.1635
FROM LAYER 2	0.1195	0.0220	0.0000	0.0000	0.0000	0.0019
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0001	0.0001	0.0001	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0001	0.0001	0.0001	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.002	0.007	0.006	0.005	0.001	0.000
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.003	0.008	0.004	0.005	0.000	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 11

	INCHES	CU. FEET	PERCENT
PRECIPITATION	42.36	153766.844	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	60.987	221383.734	
ACTUAL EVAPOTRANSPIRATION	29.752	108000.125	70.24
DRAINAGE COLLECTED FROM LAYER 2	9.3816	34055.258	22.15
PERC./LEAKAGE THROUGH LAYER 3	0.000404	1.466	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0019		
PERC./LEAKAGE THROUGH LAYER 4	0.000404	1.466	0.00
CHANGE IN WATER STORAGE	3.226	11709.957	7.62
SOIL WATER AT START OF YEAR	47.064	170841.234	
SOIL WATER AT END OF YEAR	48.293	175304.859	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	1.996	7246.348	4.71
ANNUAL WATER BUDGET BALANCE	0.0000	0.038	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 12

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.81	2.51	4.50	2.98	3.06	1.89
	1.91	0.87	2.53	3.85	1.47	3.01
RUNOFF	0.000	1.082	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

POTENTIAL EVAPOTRANSPIRATION	1.333	1.774	3.425	5.692	7.596	8.939
	8.548	7.628	5.311	4.202	4.077	2.696
ACTUAL EVAPOTRANSPIRATION	0.648	0.444	2.367	3.452	4.304	1.887
	1.814	0.969	2.163	1.974	1.708	1.737
LATERAL DRAINAGE COLLECTED	1.5248	0.6171	2.8569	0.8348	0.3425	0.2021
FROM LAYER 2	0.1232	0.0073	0.0000	0.0000	0.2224	0.3903
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.003	0.002	0.007	0.002	0.001	0.000
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.001	0.001
STD. DEVIATION OF DAILY	0.003	0.001	0.006	0.001	0.000	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.001	0.000

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ANNUAL TOTALS FOR YEAR 12

	INCHES	CU. FEET	PERCENT
PRECIPITATION	29.39	106685.695	100.00
RUNOFF	1.082	3928.062	3.68
POTENTIAL EVAPOTRANSPIRATION	61.221	222233.125	
ACTUAL EVAPOTRANSPIRATION	23.469	85191.727	79.85
DRAINAGE COLLECTED FROM LAYER 2	7.1214	25850.650	24.23
PERC./LEAKAGE THROUGH LAYER 3	0.000327	1.187	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0014		
PERC./LEAKAGE THROUGH LAYER 4	0.000327	1.187	0.00
CHANGE IN WATER STORAGE	-2.283	-8285.950	-7.77
SOIL WATER AT START OF YEAR	48.293	175304.859	
SOIL WATER AT END OF YEAR	47.913	173925.375	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	

INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	1.996	7246.348	6.79
SNOW WATER AT END OF YEAR	0.094	339.870	0.32
ANNUAL WATER BUDGET BALANCE	0.0000	0.016	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 13

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.29	4.94	3.45	2.63	2.15	3.34
	2.59	10.40	0.76	0.01	1.30	3.44
RUNOFF	0.000	1.942	0.000	0.000	0.000	0.000
	0.000	0.043	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.759	1.572	4.244	5.734	7.367	8.629
	8.619	7.238	6.005	5.205	3.251	2.811
ACTUAL EVAPOTRANSPIRATION	1.225	0.552	2.287	2.578	3.391	3.157
	1.791	6.204	3.134	0.010	0.412	1.116
LATERAL DRAINAGE COLLECTED FROM LAYER 2	0.2357	0.8591	2.8072	0.5590	0.4199	0.2206
	0.1611	0.0705	2.0667	0.3051	0.1472	0.0949
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.001	0.002	0.006	0.001	0.001	0.001
	0.000	0.000	0.005	0.001	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.000	0.003	0.006	0.001	0.000	0.000
	0.000	0.000	0.004	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 13

	INCHES	CU. FEET	PERCENT
PRECIPITATION	36.30	131769.016	100.00
RUNOFF	1.985	7205.605	5.47
POTENTIAL EVAPOTRANSPIRATION	62.435	226637.984	
ACTUAL EVAPOTRANSPIRATION	25.856	93856.969	71.23
DRAINAGE COLLECTED FROM LAYER 2	7.9471	28847.961	21.89
PERC./LEAKAGE THROUGH LAYER 3	0.000365	1.324	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0015		
PERC./LEAKAGE THROUGH LAYER 4	0.000365	1.324	0.00
CHANGE IN WATER STORAGE	0.512	1857.151	1.41
SOIL WATER AT START OF YEAR	47.913	173925.375	
SOIL WATER AT END OF YEAR	48.519	176122.391	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.094	339.870	0.26
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.019	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 14

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.84	1.46	6.20	4.43	7.10	2.94
	2.54	3.78	2.48	0.60	10.81	0.88
RUNOFF	0.000	0.018	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.072	0.000
POTENTIAL EVAPOTRANSPIRATION	1.379	2.264	3.624	5.730	6.884	8.068
	8.242	7.349	5.491	5.126	3.090	2.756
ACTUAL EVAPOTRANSPIRATION	0.594	0.676	2.122	3.566	6.348	4.053
	2.745	3.492	2.425	0.659	1.101	1.095
LATERAL DRAINAGE COLLECTED	0.5657	0.3165	3.3764	2.0942	0.9247	0.8663
FROM LAYER 2	0.2449	0.1342	0.0274	0.0000	5.9291	1.5213

PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0001	0.0001	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0047	0.0001
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0001	0.0001	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0015	0.0033

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.001	0.001	0.008	0.005	0.002	0.002
TOP OF LAYER 3	0.001	0.000	0.000	0.000	0.494	0.003
STD. DEVIATION OF DAILY	0.001	0.000	0.008	0.003	0.001	0.001
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	1.902	0.002

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ANNUAL TOTALS FOR YEAR 14

	INCHES	CU. FEET	PERCENT
PRECIPITATION	44.06	159937.797	100.00
RUNOFF	0.090	325.303	0.20
POTENTIAL EVAPOTRANSPIRATION	60.002	217805.797	
ACTUAL EVAPOTRANSPIRATION	28.875	104815.180	65.53
DRAINAGE COLLECTED FROM LAYER 2	16.0005	58081.969	36.32
PERC./LEAKAGE THROUGH LAYER 3	0.005173	18.778	0.01
AVG. HEAD ON TOP OF LAYER 3	0.0431		
PERC./LEAKAGE THROUGH LAYER 4	0.005173	18.778	0.01
CHANGE IN WATER STORAGE	-0.910	-3303.424	-2.07
SOIL WATER AT START OF YEAR	48.519	176122.391	
SOIL WATER AT END OF YEAR	47.609	172818.969	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.007	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 15

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.53	2.66	0.47	1.51	4.10	5.07
	6.11	2.46	0.56	2.61	4.57	3.72
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.602	1.638	3.930	5.850	7.579	8.841
	8.992	7.217	6.005	4.982	3.585	2.759
ACTUAL EVAPOTRANSPIRATION	0.907	1.122	1.179	1.991	4.615	3.542
	7.323	2.286	0.734	0.763	0.911	1.087
LATERAL DRAINAGE COLLECTED	0.3888	1.7372	0.8901	0.3040	0.1550	0.0651
FROM LAYER 2	0.2172	0.1818	0.0970	0.0000	1.6914	3.2080
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.001	0.004	0.002	0.001	0.000	0.000
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.004	0.007
STD. DEVIATION OF DAILY	0.001	0.003	0.001	0.000	0.000	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.004	0.008

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ANNUAL TOTALS FOR YEAR 15

	INCHES	CU. FEET	PERCENT
PRECIPITATION	36.37	132023.109	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	62.981	228621.516	

ACTUAL EVAPOTRANSPIRATION	26.460	96050.250	72.75
DRAINAGE COLLECTED FROM LAYER 2	8.9357	32436.609	24.57
PERC./LEAKAGE THROUGH LAYER 3	0.000400	1.452	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0017		
PERC./LEAKAGE THROUGH LAYER 4	0.000400	1.452	0.00
CHANGE IN WATER STORAGE	0.974	3534.785	2.68
SOIL WATER AT START OF YEAR	47.609	172818.969	
SOIL WATER AT END OF YEAR	48.582	176353.750	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.010	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 16

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.53 3.20	2.37 1.09	3.68 1.95	2.53 1.94	6.77 1.09	1.72 4.70
RUNOFF	0.000 0.000	0.248 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000
POTENTIAL EVAPOTRANSPIRATION	1.807 8.276	1.922 7.228	3.945 5.404	6.209 4.984	7.098 3.460	8.704 2.801
ACTUAL EVAPOTRANSPIRATION	1.117 3.243	0.821 1.090	2.570 1.291	2.513 1.384	6.391 1.357	3.341 1.353
LATERAL DRAINAGE COLLECTED FROM LAYER 2	1.7542 0.2104	0.6009 0.1228	1.6768 0.0064	0.6517 0.0000	0.3008 0.0000	0.4718 0.0415
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001 0.0000	0.0000 0.0000	0.0001 0.0000	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0001 0.0000	0.0000 0.0000	0.0001 0.0000	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.004	0.001	0.004	0.002	0.001	0.001
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.002	0.001	0.003	0.001	0.000	0.001
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 16

	INCHES	CU. FEET	PERCENT
PRECIPITATION	33.57	121859.117	100.00
RUNOFF	0.248	898.461	0.74
POTENTIAL EVAPOTRANSPIRATION	61.838	224470.609	
ACTUAL EVAPOTRANSPIRATION	26.471	96090.758	78.85
DRAINAGE COLLECTED FROM LAYER 2	5.8372	21189.184	17.39
PERC./LEAKAGE THROUGH LAYER 3	0.000277	1.004	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0011		
PERC./LEAKAGE THROUGH LAYER 4	0.000277	1.004	0.00
CHANGE IN WATER STORAGE	1.014	3679.684	3.02
SOIL WATER AT START OF YEAR	48.582	176353.750	
SOIL WATER AT END OF YEAR	49.596	180033.438	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.026	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 17

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.82	5.84	3.11	3.54	2.90	3.84
	3.44	5.89	1.14	1.55	2.36	10.07
RUNOFF	0.000	1.921	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.737	1.986	4.341	5.494	7.607	8.159
	8.512	7.379	5.625	5.748	3.124	2.620
ACTUAL EVAPOTRANSPIRATION	0.719	1.247	2.660	3.359	3.962	3.469
	3.783	3.306	3.267	1.262	1.337	1.436
LATERAL DRAINAGE COLLECTED	2.0876	0.8509	1.5835	0.7302	0.6586	0.2393
FROM LAYER 2	0.1362	0.0308	0.3146	0.1986	0.1153	2.8589
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0043
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.005	0.002	0.004	0.002	0.002	0.001
TOP OF LAYER 3	0.000	0.000	0.001	0.000	0.000	0.435
STD. DEVIATION OF DAILY	0.004	0.002	0.002	0.001	0.000	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	1.785

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ANNUAL TOTALS FOR YEAR 17

	INCHES	CU. FEET	PERCENT
PRECIPITATION	44.50	161535.016	100.00
RUNOFF	1.921	6973.330	4.32
POTENTIAL EVAPOTRANSPIRATION	62.331	226260.750	
ACTUAL EVAPOTRANSPIRATION	29.806	108197.250	66.98
DRAINAGE COLLECTED FROM LAYER 2	9.8045	35590.277	22.03
PERC./LEAKAGE THROUGH LAYER 3	0.004589	16.660	0.01
AVG. HEAD ON TOP OF LAYER 3	0.0376		

PERC./LEAKAGE THROUGH LAYER 4	0.000389	1.412	0.00
CHANGE IN WATER STORAGE	2.968	10772.686	6.67
SOIL WATER AT START OF YEAR	49.596	180033.438	
SOIL WATER AT END OF YEAR	50.446	183119.078	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	2.118	7687.051	4.76
ANNUAL WATER BUDGET BALANCE	0.0000	0.055	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 18

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.89	4.45	6.46	5.26	6.05	4.44
	2.51	3.99	1.82	1.77	3.07	3.90
RUNOFF	0.000	0.383	3.255	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.895	1.274	3.739	4.860	7.174	8.282
	8.283	7.697	5.951	5.423	4.052	2.472
ACTUAL EVAPOTRANSPIRATION	1.012	0.617	1.959	3.306	5.608	6.156
	2.645	2.098	2.514	1.402	1.604	1.389
LATERAL DRAINAGE COLLECTED	4.3280	1.0051	4.2403	2.6688	0.5454	0.2511
FROM LAYER 2	0.1399	0.0371	0.3735	0.1946	0.1132	1.2442
PERCOLATION/LEAKAGE THROUGH	0.0002	0.0000	0.0029	0.0001	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001
PERCOLATION/LEAKAGE THROUGH	0.0044	0.0000	0.0029	0.0001	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.010	0.003	0.293	0.006	0.001	0.001
TOP OF LAYER 3	0.000	0.000	0.001	0.000	0.000	0.003
STD. DEVIATION OF DAILY	0.011	0.001	1.496	0.007	0.000	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.003

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ANNUAL TOTALS FOR YEAR 18

	INCHES	CU. FEET	PERCENT
PRECIPITATION	45.61	165564.297	100.00
RUNOFF	3.638	13206.707	7.98
POTENTIAL EVAPOTRANSPIRATION	61.102	221798.453	
ACTUAL EVAPOTRANSPIRATION	30.311	110028.938	66.46
DRAINAGE COLLECTED FROM LAYER 2	15.1412	54962.684	33.20
PERC./LEAKAGE THROUGH LAYER 3	0.003393	12.315	0.01
AVG. HEAD ON TOP OF LAYER 3	0.0265		
PERC./LEAKAGE THROUGH LAYER 4	0.007593	27.562	0.02
CHANGE IN WATER STORAGE	-3.488	-12661.645	-7.65
SOIL WATER AT START OF YEAR	50.446	183119.078	
SOIL WATER AT END OF YEAR	49.076	178144.484	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	2.118	7687.051	4.64
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.042	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 19

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.62	2.98	2.97	3.59	3.32	1.75
	3.69	4.83	4.57	4.05	6.50	7.35
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

POTENTIAL EVAPOTRANSPIRATION	1.772	1.917	3.640	5.729	6.817	7.998
	8.022	7.470	5.558	4.678	3.404	2.485
ACTUAL EVAPOTRANSPIRATION	1.170	1.370	2.271	3.509	4.010	1.724
	3.442	4.761	2.020	2.074	2.082	1.765
LATERAL DRAINAGE COLLECTED	1.3195	0.4023	2.4005	0.4559	0.7962	0.2970
FROM LAYER 2	0.1531	0.0580	0.0006	2.0775	3.2941	4.1605
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0001	0.0001	0.0002
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0001	0.0001	0.0002

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.003	0.001	0.005	0.001	0.002	0.001
TOP OF LAYER 3	0.000	0.000	0.000	0.005	0.008	0.009
STD. DEVIATION OF DAILY	0.002	0.000	0.003	0.001	0.001	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.005	0.010	0.008

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ANNUAL TOTALS FOR YEAR 19

	INCHES	CU. FEET	PERCENT
PRECIPITATION	47.22	171408.641	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	59.490	215949.547	
ACTUAL EVAPOTRANSPIRATION	30.198	109618.414	63.95
DRAINAGE COLLECTED FROM LAYER 2	15.4152	55957.152	32.65
PERC./LEAKAGE THROUGH LAYER 3	0.000661	2.398	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0030		
PERC./LEAKAGE THROUGH LAYER 4	0.000661	2.398	0.00
CHANGE IN WATER STORAGE	1.606	5830.648	3.40
SOIL WATER AT START OF YEAR	49.076	178144.484	
SOIL WATER AT END OF YEAR	49.782	180708.438	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	

INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.900	3266.682	1.91
ANNUAL WATER BUDGET BALANCE	0.0000	0.024	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 20

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.96	3.50	6.82	4.09	2.13	3.34
	8.30	5.15	2.87	1.05	2.72	4.98
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.671	2.106	2.989	5.834	7.456	8.690
	8.353	7.847	6.093	5.611	3.144	3.056
ACTUAL EVAPOTRANSPIRATION	1.031	1.419	2.117	2.717	3.328	3.340
	7.319	4.232	3.614	0.444	1.302	1.534
LATERAL DRAINAGE COLLECTED	2.8713	2.8278	4.2693	3.3566	0.5721	0.2004
FROM LAYER 2	0.2665	0.4321	0.2831	0.1717	0.0841	1.4990
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0001	0.0002	0.0001	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0001	0.0002	0.0001	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.007	0.007	0.010	0.008	0.001	0.000
TOP OF LAYER 3	0.001	0.001	0.001	0.000	0.000	0.003
STD. DEVIATION OF DAILY	0.003	0.006	0.007	0.007	0.001	0.000
HEAD ON TOP OF LAYER 3	0.001	0.001	0.000	0.000	0.000	0.005

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ANNUAL TOTALS FOR YEAR 20

	INCHES	CU. FEET	PERCENT
PRECIPITATION	47.91	173913.312	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	62.849	228143.359	
ACTUAL EVAPOTRANSPIRATION	32.398	117605.938	67.62
DRAINAGE COLLECTED FROM LAYER 2	16.8340	61107.301	35.14
PERC./LEAKAGE THROUGH LAYER 3	0.000716	2.599	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0033		
PERC./LEAKAGE THROUGH LAYER 4	0.000716	2.599	0.00
CHANGE IN WATER STORAGE	-1.323	-4802.539	-2.76
SOIL WATER AT START OF YEAR	49.782	180708.438	
SOIL WATER AT END OF YEAR	49.359	179172.578	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.900	3266.682	1.88
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.007	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 21

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.82	1.41	3.10	4.86	3.14	4.44
	7.02	2.44	1.89	2.97	2.29	2.70
RUNOFF	0.000	0.119	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.946	2.038	4.027	5.052	7.390	8.304
	8.459	7.524	5.854	5.606	3.753	2.593
ACTUAL EVAPOTRANSPIRATION	0.981	0.627	2.094	2.879	4.620	4.088
	6.817	3.476	2.050	0.971	1.334	1.328
LATERAL DRAINAGE COLLECTED	1.9808	0.7229	0.7565	1.2213	1.1794	0.3057
FROM LAYER 2	0.1554	0.0614	0.0000	0.0000	0.0664	1.0511

PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0000	0.0000	0.0001	0.0001	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0001	0.0000	0.0000	0.0001	0.0001	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.005	0.002	0.002	0.003	0.003	0.001
	0.000	0.000	0.000	0.000	0.000	0.002
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.002	0.001	0.002	0.002	0.001	0.000
	0.000	0.000	0.000	0.000	0.000	0.001

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ANNUAL TOTALS FOR YEAR 21

	INCHES	CU. FEET	PERCENT
PRECIPITATION	38.08	138230.375	100.00
RUNOFF	0.119	431.895	0.31
POTENTIAL EVAPOTRANSPIRATION	62.548	227047.828	
ACTUAL EVAPOTRANSPIRATION	31.266	113496.242	82.11
DRAINAGE COLLECTED FROM LAYER 2	7.5010	27228.484	19.70
PERC./LEAKAGE THROUGH LAYER 3	0.000352	1.279	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0015		
PERC./LEAKAGE THROUGH LAYER 4	0.000352	1.279	0.00
CHANGE IN WATER STORAGE	-0.806	-2927.482	-2.12
SOIL WATER AT START OF YEAR	49.359	179172.578	
SOIL WATER AT END OF YEAR	48.552	176245.109	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.042	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 22

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.73	3.31	4.65	6.05	4.99	2.36
	3.71	1.81	2.88	0.69	2.64	3.71
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.832	1.910	3.701	5.308	6.939	8.152
	7.706	7.791	5.729	5.348	3.570	2.336
ACTUAL EVAPOTRANSPIRATION	1.056	1.153	2.608	3.374	5.935	3.131
	3.765	1.786	1.816	1.412	1.609	1.476
LATERAL DRAINAGE COLLECTED	0.6569	0.9512	2.8455	3.6541	0.5615	0.1954
FROM LAYER 2	0.1207	0.0024	0.0000	0.0000	0.0000	0.0104
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0001	0.0001	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0001	0.0001	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.001	0.002	0.006	0.009	0.001	0.000
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.001	0.004	0.004	0.007	0.001	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 22

	INCHES	CU. FEET	PERCENT
PRECIPITATION	38.53	139863.906	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	60.320	218962.141	

ACTUAL EVAPOTRANSPIRATION	29.122	105712.625	75.58
DRAINAGE COLLECTED FROM LAYER 2	8.9981	32662.945	23.35
PERC./LEAKAGE THROUGH LAYER 3	0.000390	1.417	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0018		
PERC./LEAKAGE THROUGH LAYER 4	0.000390	1.417	0.00
CHANGE IN WATER STORAGE	0.410	1486.915	1.06
SOIL WATER AT START OF YEAR	48.552	176245.109	
SOIL WATER AT END OF YEAR	48.209	174998.641	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.753	2733.372	1.95
ANNUAL WATER BUDGET BALANCE	0.0000	0.010	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 23

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.41	3.53	7.34	6.83	4.08	4.65
	3.06	0.76	4.47	2.26	2.65	1.95
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.718	2.455	3.802	4.756	7.663	8.169
	7.631	7.466	5.742	5.305	3.784	2.955
ACTUAL EVAPOTRANSPIRATION	1.120	1.737	2.735	3.465	4.841	3.700
	4.006	0.764	2.553	1.984	1.843	1.863
LATERAL DRAINAGE COLLECTED FROM LAYER 2	0.7281	3.0277	3.8003	3.0826	2.7105	0.3303
	0.1615	0.0702	0.0000	0.1730	0.3439	0.4291
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0000	0.0001	0.0002	0.0001	0.0001	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0000	0.0001	0.0002	0.0001	0.0001	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.002	0.008	0.009	0.007	0.006	0.001
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.001	0.001
STD. DEVIATION OF DAILY	0.002	0.005	0.007	0.004	0.006	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.001	0.001

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ANNUAL TOTALS FOR YEAR 23

	INCHES	CU. FEET	PERCENT
PRECIPITATION	43.99	159683.672	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	61.445	223047.109	
ACTUAL EVAPOTRANSPIRATION	30.612	111120.648	69.59
DRAINAGE COLLECTED FROM LAYER 2	14.8571	53931.441	33.77
PERC./LEAKAGE THROUGH LAYER 3	0.000636	2.308	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0029		
PERC./LEAKAGE THROUGH LAYER 4	0.000636	2.308	0.00
CHANGE IN WATER STORAGE	-1.480	-5370.654	-3.36
SOIL WATER AT START OF YEAR	48.209	174998.641	
SOIL WATER AT END OF YEAR	47.482	172361.375	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.753	2733.372	1.71
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.076	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 24

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.90	2.10	7.80	3.45	5.13	3.03
	5.26	2.86	1.52	1.09	0.79	6.94
RUNOFF	0.000	0.480	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.104
POTENTIAL EVAPOTRANSPIRATION	1.459	1.987	3.615	4.930	7.263	9.415
	8.548	7.487	5.805	4.786	3.329	2.583
ACTUAL EVAPOTRANSPIRATION	1.019	0.450	3.042	2.760	5.095	4.230
	3.743	4.564	0.942	0.684	0.720	0.941
LATERAL DRAINAGE COLLECTED FROM LAYER 2	0.4037	0.9190	4.1189	2.4237	0.9118	0.2623
	0.1586	0.0661	0.0000	0.0000	0.0000	2.2291
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0000	0.0000	0.0002	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0032
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0000	0.0000	0.0002	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0006

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.001	0.002	0.009	0.006	0.002	0.001
	0.000	0.000	0.000	0.000	0.000	0.327
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.000	0.002	0.006	0.004	0.001	0.000
	0.000	0.000	0.000	0.000	0.000	1.546

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ANNUAL TOTALS FOR YEAR 24

	INCHES	CU. FEET	PERCENT
PRECIPITATION	42.87	155618.094	100.00
RUNOFF	0.584	2119.226	1.36
POTENTIAL EVAPOTRANSPIRATION	61.207	222181.953	
ACTUAL EVAPOTRANSPIRATION	28.189	102326.102	65.75
DRAINAGE COLLECTED FROM LAYER 2	11.4933	41720.613	26.81
PERC./LEAKAGE THROUGH LAYER 3	0.003613	13.117	0.01
AVG. HEAD ON TOP OF LAYER 3	0.0291		

PERC./LEAKAGE THROUGH LAYER 4	0.000992	3.602	0.00
CHANGE IN WATER STORAGE	2.603	9448.546	6.07
SOIL WATER AT START OF YEAR	47.482	172361.375	
SOIL WATER AT END OF YEAR	50.085	181809.922	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.000	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 25

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	6.14	1.55	4.16	3.29	3.40	4.28
	1.68	6.63	1.74	3.31	3.96	1.81
RUNOFF	0.000	0.116	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.726	1.899	3.522	5.560	6.801	8.485
	8.671	7.675	5.487	4.516	3.634	2.273
ACTUAL EVAPOTRANSPIRATION	0.840	0.832	2.377	3.012	4.665	2.497
	3.463	5.635	2.402	1.293	1.529	1.453
LATERAL DRAINAGE COLLECTED	4.4138	2.5187	1.5429	1.5730	0.9623	0.2501
FROM LAYER 2	0.1396	0.0371	0.1666	0.1201	1.3469	0.9251
PERCOLATION/LEAKAGE THROUGH	0.0002	0.0001	0.0001	0.0001	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0028	0.0001	0.0001	0.0001	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.010	0.006	0.004	0.004	0.002	0.001
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.003	0.002
STD. DEVIATION OF DAILY	0.007	0.005	0.002	0.002	0.001	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.003	0.001

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ANNUAL TOTALS FOR YEAR 25

	INCHES	CU. FEET	PERCENT
PRECIPITATION	41.95	152278.562	100.00
RUNOFF	0.116	420.000	0.28
POTENTIAL EVAPOTRANSPIRATION	60.247	218696.422	
ACTUAL EVAPOTRANSPIRATION	29.999	108896.844	71.51
DRAINAGE COLLECTED FROM LAYER 2	13.9961	50805.859	33.36
PERC./LEAKAGE THROUGH LAYER 3	0.000615	2.233	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0027		
PERC./LEAKAGE THROUGH LAYER 4	0.003236	11.747	0.01
CHANGE IN WATER STORAGE	-2.164	-7855.962	-5.16
SOIL WATER AT START OF YEAR	50.085	181809.922	
SOIL WATER AT END OF YEAR	47.921	173953.953	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.069	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 26

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.68	2.80	2.36	3.67	3.21	1.78
	4.32	1.67	1.31	1.30	2.84	4.36
RUNOFF	0.044	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

POTENTIAL EVAPOTRANSPIRATION	1.479	2.424	3.836	5.835	7.459	8.902
	8.122	7.502	5.676	5.233	3.820	2.720
ACTUAL EVAPOTRANSPIRATION	0.783	1.335	1.934	2.759	4.271	1.797
	4.320	1.398	0.982	1.622	1.052	1.505
LATERAL DRAINAGE COLLECTED	0.3187	0.5948	2.4710	0.4014	0.8452	0.3071
FROM LAYER 2	0.1557	0.0619	0.0000	0.0000	0.0000	0.1484
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.001	0.002	0.006	0.001	0.002	0.001
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.001	0.001	0.004	0.001	0.001	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.001

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ANNUAL TOTALS FOR YEAR 26

	INCHES	CU. FEET	PERCENT
PRECIPITATION	31.30	113619.031	100.00
RUNOFF	0.044	161.287	0.14
POTENTIAL EVAPOTRANSPIRATION	63.008	228718.938	
ACTUAL EVAPOTRANSPIRATION	23.757	86238.164	75.90
DRAINAGE COLLECTED FROM LAYER 2	5.3042	19254.412	16.95
PERC./LEAKAGE THROUGH LAYER 3	0.000248	0.902	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0010		
PERC./LEAKAGE THROUGH LAYER 4	0.000248	0.902	0.00
CHANGE IN WATER STORAGE	2.194	7964.221	7.01
SOIL WATER AT START OF YEAR	47.921	173953.953	
SOIL WATER AT END OF YEAR	50.115	181918.172	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	

INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.043	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 27

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.89	3.82	5.91	2.96	6.38	3.62
	6.20	0.94	1.82	1.76	1.85	6.84
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	2.201	1.678	3.300	6.022	7.157	8.650
	8.196	7.728	5.537	5.002	3.633	3.461
ACTUAL EVAPOTRANSPIRATION	1.440	1.004	2.386	3.418	6.261	4.191
	5.828	0.886	0.921	0.991	1.660	2.163
LATERAL DRAINAGE COLLECTED FROM LAYER 2	3.4288	1.9389	3.1064	1.5638	0.8296	0.4866
	0.2815	0.2354	0.1277	0.0255	0.0218	2.3879
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.008	0.005	0.007	0.004	0.002	0.001
	0.001	0.001	0.000	0.000	0.000	0.005
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.004	0.003	0.007	0.003	0.002	0.000
	0.001	0.000	0.000	0.000	0.000	0.009

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ANNUAL TOTALS FOR YEAR 27

	INCHES	CU. FEET	PERCENT
PRECIPITATION	44.99	163313.641	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	62.565	227112.562	
ACTUAL EVAPOTRANSPIRATION	31.148	113068.102	69.23
DRAINAGE COLLECTED FROM LAYER 2	14.4338	52394.660	32.08
PERC./LEAKAGE THROUGH LAYER 3	0.000620	2.249	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0028		
PERC./LEAKAGE THROUGH LAYER 4	0.000620	2.249	0.00
CHANGE IN WATER STORAGE	-0.593	-2151.324	-1.32
SOIL WATER AT START OF YEAR	50.115	181918.172	
SOIL WATER AT END OF YEAR	49.523	179766.859	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.059	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 28

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	3.03	1.64	4.80	4.07	4.95	1.48
	1.80	4.30	0.52	0.55	4.68	2.57
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.663	2.292	2.684	5.013	6.441	8.419
	8.567	7.077	5.712	4.679	3.231	2.291
ACTUAL EVAPOTRANSPIRATION	1.117	1.587	1.755	3.525	5.882	2.091
	1.756	1.983	2.712	0.218	1.572	1.506
LATERAL DRAINAGE COLLECTED	1.7547	1.6477	2.1001	1.4142	0.8167	0.2682
FROM LAYER 2	0.1451	0.0456	0.0776	0.0913	0.0034	0.7093

PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.004	0.004	0.005	0.003	0.002	0.001
	0.000	0.000	0.000	0.000	0.000	0.002
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.002	0.002	0.008	0.003	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.001

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ANNUAL TOTALS FOR YEAR 28

	INCHES	CU. FEET	PERCENT
PRECIPITATION	34.39	124835.695	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	58.067	210784.641	
ACTUAL EVAPOTRANSPIRATION	25.705	93309.414	74.75
DRAINAGE COLLECTED FROM LAYER 2	9.0737	32937.547	26.38
PERC./LEAKAGE THROUGH LAYER 3	0.000411	1.493	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0018		
PERC./LEAKAGE THROUGH LAYER 4	0.000411	1.493	0.00
CHANGE IN WATER STORAGE	-0.389	-1412.748	-1.13
SOIL WATER AT START OF YEAR	49.523	179766.859	
SOIL WATER AT END OF YEAR	49.133	178354.109	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.007	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 29

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.83	1.68	9.37	3.58	6.09	1.28
	4.86	1.31	0.80	1.56	0.00	3.17
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.616	2.080	3.952	5.084	7.438	8.875
	8.204	7.591	6.042	5.125	3.038	2.496
ACTUAL EVAPOTRANSPIRATION	1.036	1.462	3.028	2.809	6.046	2.362
	4.860	1.310	0.699	0.450	0.529	1.069
LATERAL DRAINAGE COLLECTED	1.3790	0.8457	5.4804	1.2886	1.0453	0.5272
FROM LAYER 2	0.1964	0.1141	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0000	0.0002	0.0001	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0000	0.0002	0.0001	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.003	0.002	0.013	0.003	0.002	0.001
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.002	0.001	0.010	0.002	0.001	0.001
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 29

	INCHES	CU. FEET	PERCENT
PRECIPITATION	35.53	128973.883	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	61.541	223394.188	

ACTUAL EVAPOTRANSPIRATION	25.661	93150.492	72.22
DRAINAGE COLLECTED FROM LAYER 2	10.8768	39482.609	30.61
PERC./LEAKAGE THROUGH LAYER 3	0.000469	1.702	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0021		
PERC./LEAKAGE THROUGH LAYER 4	0.000469	1.702	0.00
CHANGE IN WATER STORAGE	-1.009	-3660.949	-2.84
SOIL WATER AT START OF YEAR	49.133	178354.109	
SOIL WATER AT END OF YEAR	48.125	174693.156	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.031	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 30

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.92	3.18	6.14	4.06	4.69	3.04
	0.99	2.72	0.96	1.56	0.77	3.93
RUNOFF	0.846	1.463	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.674	1.919	3.892	5.958	7.302	8.069
	8.196	7.144	5.612	5.213	3.362	2.949
ACTUAL EVAPOTRANSPIRATION	0.684	0.204	2.234	2.557	4.841	2.745
	2.015	2.540	1.140	0.730	1.017	1.595
LATERAL DRAINAGE COLLECTED FROM LAYER 2	0.3985	1.1355	3.5279	3.5426	1.0731	0.3136
	0.1574	0.0643	0.0000	0.0000	0.0000	0.0045
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0000	0.0001	0.0001	0.0001	0.0001	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0000	0.0001	0.0001	0.0001	0.0001	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.001	0.003	0.008	0.008	0.002	0.001
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.001	0.001	0.007	0.007	0.001	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 30

	INCHES	CU. FEET	PERCENT
PRECIPITATION	34.96	126904.789	100.00
RUNOFF	2.309	8383.106	6.61
POTENTIAL EVAPOTRANSPIRATION	61.292	222489.484	
ACTUAL EVAPOTRANSPIRATION	22.302	80954.602	63.79
DRAINAGE COLLECTED FROM LAYER 2	10.2174	37089.270	29.23
PERC./LEAKAGE THROUGH LAYER 3	0.000441	1.602	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0020		
PERC./LEAKAGE THROUGH LAYER 4	0.000441	1.602	0.00
CHANGE IN WATER STORAGE	0.131	476.266	0.38
SOIL WATER AT START OF YEAR	48.125	174693.156	
SOIL WATER AT END OF YEAR	48.256	175169.422	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.045	0.00

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FINAL WATER STORAGE AT END OF YEAR 30

LAYER	(INCHES)	(VOL/VOL)
1	7.8633	0.2184
2	0.0007	0.0100
3	0.0000	0.0000
4	38.1480	0.1870
TOTAL WATER IN LAYERS	46.012	
SNOW WATER	0.000	
INTERCEPTION WATER	0.000	
TOTAL FINAL WATER	46.012	

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PEAK DAILY VALUES FOR YEARS 1 THROUGH 30

	(INCHES)	(CU. FT.)
PRECIPITATION	4.14	15028.199
RUNOFF	1.713	6219.9707
DRAINAGE COLLECTED FROM LAYER 2	0.99997	3629.88501
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.003213	11.66429
AVERAGE HEAD ON TOP OF LAYER 3	10.225	
MAXIMUM HEAD ON TOP OF LAYER 3	15.965	
LOCATION OF MAXIMUM HEAD IN LAYER 2 (DISTANCE FROM DRAIN)	43.5 FEET	
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.001330	4.82750
SNOW WATER	2.80	10155.2227
MAXIMUM VEG. SOIL WATER (VOL/VOL)	0.3182	
MINIMUM VEG. SOIL WATER (VOL/VOL)	0.0850	

*** Maximum heads are computed using McEnroe's equations. ***

Reference: Maximum Saturated Depth over Landfill Liner
by Bruce M. McEnroe, University of Kansas
ASCE Journal of Environmental Engineering
Vol. 119, No. 2, March 1993, pp. 262-270.

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        AVERAGE MONTHLY VALUES IN INCHES FOR YEARS    1 THROUGH   30
-------------------------------------------------------------------------------

                        JAN/JUL  FEB/AUG  MAR/SEP  APR/OCT  MAY/NOV  JUN/DEC
                        -------  -------  -------  -------  -------  -------
PRECIPITATION
-------------
  TOTALS                 2.73     2.87     4.85     3.91     4.25     3.43
                         3.99     3.22     2.58     1.85     2.78     3.79

  STD. DEVIATIONS        1.64     1.24     2.10     1.57     1.63     1.58
                         1.90     2.21     1.58     1.00     2.03     2.07

RUNOFF
------
  TOTALS                 0.030    0.259    0.110    0.000    0.000    0.000
                         0.001    0.001    0.000    0.000    0.002    0.004

  STD. DEVIATIONS        0.154    0.564    0.594    0.000    0.000    0.000
                         0.004    0.008    0.000    0.000    0.013    0.019

POTENTIAL EVAPOTRANSPIRATION
----------------------------
  TOTALS                 1.723    2.024    3.647    5.505    7.271    8.426
                         8.369    7.470    5.587    5.115    3.571    2.614

  STD. DEVIATIONS        0.214    0.294    0.359    0.401    0.344    0.367
                         0.302    0.232    0.298    0.351    0.319    0.289

ACTUAL EVAPOTRANSPIRATION
-------------------------
  TOTALS                 1.030    1.132    2.345    3.095    4.901    3.594
                         3.896    2.901    2.124    1.231    1.384    1.428

  STD. DEVIATIONS        0.206    0.433    0.439    0.576    0.924    1.397
                         1.707    1.601    0.898    0.625    0.432    0.341

LATERAL DRAINAGE COLLECTED FROM LAYER  2
----------------------------------------
  TOTALS                 1.7461   1.3387   2.5176   1.5537   0.8988   0.3355
                         0.2339   0.0948   0.1377   0.2247   0.5976   1.0994

  STD. DEVIATIONS        1.4084   1.0161   1.3126   0.9806   0.7729   0.2872
                         0.3640   0.1200   0.3802   0.5829   1.2602   1.2102

PERCOLATION/LEAKAGE THROUGH LAYER  3
-------------------------------------
  TOTALS                 0.0001   0.0001   0.0003   0.0001   0.0000   0.0000
                         0.0000   0.0000   0.0000   0.0000   0.0002   0.0003

  STD. DEVIATIONS        0.0001   0.0000   0.0008   0.0000   0.0000   0.0000
                         0.0000   0.0000   0.0000   0.0000   0.0009   0.0010

PERCOLATION/LEAKAGE THROUGH LAYER  4
-------------------------------------
  TOTALS                 0.0003   0.0001   0.0003   0.0001   0.0000   0.0000
                         0.0000   0.0000   0.0000   0.0000   0.0001   0.0002
```

STD. DEVIATIONS	0.0009	0.0000	0.0008	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0003	0.0006

AVERAGES OF MONTHLY AVERAGED DAILY HEADS (INCHES)

DAILY AVERAGE HEAD ON TOP OF LAYER 3

AVERAGES	0.0040	0.0034	0.0280	0.0037	0.0021	0.0008
	0.0005	0.0002	0.0003	0.0005	0.0174	0.0321
STD. DEVIATIONS	0.0032	0.0026	0.0865	0.0023	0.0018	0.0007
	0.0008	0.0003	0.0009	0.0013	0.0900	0.0994

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AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 30

	INCHES		CU. FEET	PERCENT
PRECIPITATION	40.25	(5.680)	146119.6	100.00
RUNOFF	0.407	(0.8876)	1477.23	1.011
POTENTIAL EVAPOTRANSPIRATION	61.322	(1.0974)	222597.12	
ACTUAL EVAPOTRANSPIRATION	29.062	(3.3234)	105495.46	72.198
LATERAL DRAINAGE COLLECTED FROM LAYER 2	10.77836	(3.78808)	39125.438	26.77631
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.00112	(0.00146)	4.081	0.00279
AVERAGE HEAD ON TOP OF LAYER 3	0.008	(0.012)		
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.00112	(0.00171)	4.081	0.00279
CHANGE IN WATER STORAGE	0.005	(1.6162)	17.38	0.012

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**              HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE               **
**                                                                          **
**              HELP Version 3.95 D          (10 August 2012)               **
**                              developed at                                **
**        Institute of Soil Science, University of Hamburg, Germany         **
**                                 based on                                 **
**              US HELP MODEL VERSION 3.07  (1 NOVEMBER 1997)               **
**                  DEVELOPED BY ENVIRONMENTAL LABORATORY                   **
**                    USAE WATERWAYS EXPERIMENT STATION                     **
**             FOR USEPA RISK REDUCTION ENGINEERING LABORATORY              **
**                                                                          **
**                                                                          **
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 TIME:  11.43     DATE:  19.09.2018


 PRECIPITATION DATA FILE:      \\haleyaldrich.com\share\cle_common\Projects\132766
AES IPL Petersburg Structural Fill BU\HELP\Input\Evansville_Precip.d4
 TEMPERATURE DATA FILE:        \\haleyaldrich.com\share\cle_common\Projects\132766
AES IPL Petersburg Structural Fill BU\HELP\Input\Evansville_Temp.d7
 SOLAR RADIATION DATA FILE:    \\haleyaldrich.com\share\cle_common\Projects\132766
AES IPL Petersburg Structural Fill BU\HELP\Input\Evansville_Solar.d13
 EVAPOTRANSPIRATION DATA F. 1: \\haleyaldrich.com\share\cle_common\Projects\132766
AES IPL Petersburg Structural Fill BU\HELP\Input\Evansville_Evapo.d11
 SOIL AND DESIGN DATA FILE  1: \\haleyaldrich.com\share\cle_common\Projects\132766
AES IPL Petersburg Structural Fill BU\HELP\Input\Soil_Pond B_12'.d10
 OUTPUT DATA FILE:             \\haleyaldrich.com\share\cle_common\Projects\132766
AES IPL Petersburg Structural Fill BU\HELP\Output\Pond B_12'_Summary.out
 DAILY OUTPUT DATA FILE:       \\haleyaldrich.com\share\cle_common\Projects\132766
AES IPL Petersburg Structural Fill BU\HELP\Output\Pond B_12'_Summary.DAY
 MONTHLY OUTPUT DATA FILE:     \\haleyaldrich.com\share\cle_common\Projects\132766
AES IPL Petersburg Structural Fill BU\HELP\Output\Pond B_12'_Summary.MON
 YEARLY OUTPUT DATA FILE:      \\haleyaldrich.com\share\cle_common\Projects\132766
AES IPL Petersburg Structural Fill BU\HELP\Output\Pond B_12'_Summary.YR

 COLUMNS OF DAILY OUTPUT DATA FILE:

      1    DATE (yyyymmdd, years 2101 to 2200 from weather generator)
      2    AIR TEMPERATURE  (* INDICATES FREEZING TEMPERATURES)
      3    FROZEN SOIL STATE (* INDICATES FROZEN SOIL)
      4    PRECIPITATION (INCH)
      5    RUNOFF (INCH)
      6    POTENTIAL EVAPOTRANSPIRATION (INCH)
      7    ACTUAL EVAPOTRANSPIRATION (INCH)
      8    WATER CONTENT OF THE EVAPORATIVE ZONE (INCH)
      9    HEAD  #1: AVERAGE HEAD ON TOP OF LAYER  3 (INCH)
     10    DRAIN #1: LATERAL DRAINAGE FROM LAYER  2 (INCH)
     11    LEAK  #1: PERCOLATION/LEAKAGE THROUGH LAYER  3 (INCH)
     12    LEAK  #2: PERCOLATION/LEAKAGE THROUGH LAYER  4 (INCH)

 COLUMNS OF MONTHLY OUTPUT DATA FILE:

      1    DATE OF ULTIMO (yyyymmdd, years 2101 to 2200 from weather generator)
      2    PRECIPITATION (INCH)
      3    RUNOFF (INCH)
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     4    POTENTIAL EVAPOTRANSPIRATION (INCH)
     5    ACTUAL EVAPOTRANSPIRATION (INCH)
     6    HEAD  #1: AVERAGE HEAD ON TOP OF LAYER  3 (INCH)
     7    DRAIN #1: LATERAL DRAINAGE FROM LAYER  2 (INCH)
     8    LEAK  #1: PERCOLATION/LEAKAGE THROUGH LAYER  3 (INCH)
     9    LEAK  #2: PERCOLATION/LEAKAGE THROUGH LAYER  4 (INCH)

COLUMNS OF YEARLY OUTPUT DATA FILE:

     1    DATE OF ULTIMO (yyyy1231, years 2101 to 2200 from weather generator)
     2    PRECIPITATION (INCH)
     3    RUNOFF (INCH)
     4    POTENTIAL EVAPOTRANSPIRATION (INCH)
     5    ACTUAL EVAPOTRANSPIRATION (INCH)
     6    DRAIN #1: LATERAL DRAINAGE FROM LAYER  2 (INCH)
     7    LEAK  #1: PERCOLATION/LEAKAGE THROUGH LAYER  3 (INCH)
     8    LEAK  #2: PERCOLATION/LEAKAGE THROUGH LAYER  4 (INCH)
     9    CHANGE IN TOTAL WATER STORAGE (INCH)
    10    CHANGE IN SOIL WATER STORAGE (INCH)
    11    CHANGE IN INTERCEPTION WATER STORAGE (INCH)
    12    CHANGE IN SNOW WATER STORAGE (INCH)
    13    ANNUAL WATER BUDGET BALANCE (INCH)

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     TITLE:  Pond B

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                          WEATHER DATA SOURCES
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        NOTE:  PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING
                 COEFFICIENTS FOR    EVANSVILLE          INDIANA

                 NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

     JAN/JUL     FEB/AUG     MAR/SEP     APR/OCT     MAY/NOV     JUN/DEC
     -------     -------     -------     -------     -------     -------
       2.99        3.02        4.58        4.08        4.37        3.50
       3.98        3.07        2.67        2.48        3.36        3.45

        NOTE:  TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING
                 COEFFICIENTS FOR    EVANSVILLE          INDIANA

             NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

     JAN/JUL     FEB/AUG     MAR/SEP     APR/OCT     MAY/NOV     JUN/DEC
     -------     -------     -------     -------     -------     -------
      30.80       34.90       44.60       56.50       65.60       74.60
      78.10       76.20       69.40       57.30       45.10       35.60

        NOTE:  SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING
                 COEFFICIENTS FOR    EVANSVILLE          INDIANA
                   AND STATION LATITUDE  =  38.03 DEGREES
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                              LAYER DATA   1
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                           VALID FOR  30 YEARS

    NOTE:  INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER WERE
             COMPUTED AS NEARLY STEADY-STATE VALUES BY THE PROGRAM.


                                 LAYER  1
                                 --------

                 TYPE 1 - VERTICAL PERCOLATION LAYER
                     MATERIAL TEXTURE NUMBER   6
      THICKNESS                    =      36.00   INCHES
      POROSITY                     =       0.4530 VOL/VOL
      FIELD CAPACITY               =       0.1900 VOL/VOL
      WILTING POINT                =       0.0850 VOL/VOL
      INITIAL SOIL WATER CONTENT   =       0.2144 VOL/VOL
      EFFECTIVE SAT. HYD. CONDUCT.=        0.7200E-03 CM/SEC
    NOTE:  SATURATED HYDRAULIC CONDUCTIVITY IS MULTIPLIED BY  4.63
             FOR ROOT CHANNELS IN TOP HALF OF EVAPORATIVE ZONE.


                                 LAYER  2
                                 --------

                TYPE 2 - LATERAL DRAINAGE LAYER
                    MATERIAL TEXTURE NUMBER  20
      THICKNESS                    =       0.07   INCHES
      POROSITY                     =       0.8500 VOL/VOL
      FIELD CAPACITY               =       0.0100 VOL/VOL
      WILTING POINT                =       0.0050 VOL/VOL
      INITIAL SOIL WATER CONTENT   =       0.0527 VOL/VOL
      EFFECTIVE SAT. HYD. CONDUCT.=         10.00     CM/SEC
      SLOPE                        =       5.00   PERCENT
      DRAINAGE LENGTH              =     200.0    FEET


                                 LAYER  3
                                 --------

                TYPE 4 - FLEXIBLE MEMBRANE LINER
                    MATERIAL TEXTURE NUMBER  36
      THICKNESS                    =       0.04   INCHES
      EFFECTIVE SAT. HYD. CONDUCT.=        0.4000E-12 CM/SEC
      FML PINHOLE DENSITY          =       4.00   HOLES/ACRE
      FML INSTALLATION DEFECTS     =       4.00   HOLES/ACRE
      FML PLACEMENT QUALITY        =  3 - GOOD


                                 LAYER  4
                                 --------
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              TYPE 1 - VERTICAL PERCOLATION LAYER
                  MATERIAL TEXTURE NUMBER  30
  THICKNESS                    =    144.00   INCHES
  POROSITY                     =      0.5410 VOL/VOL
  FIELD CAPACITY               =      0.1870 VOL/VOL
  WILTING POINT                =      0.0470 VOL/VOL
  INITIAL SOIL WATER CONTENT   =      0.1870 VOL/VOL
  EFFECTIVE SAT. HYD. CONDUCT.=       0.5000E-04 CM/SEC


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              GENERAL DESIGN AND EVAPORATIVE ZONE DATA   1
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                          VALID FOR  30 YEARS


        NOTE:  SCS RUNOFF CURVE NUMBER WAS COMPUTED FROM DEFAULT
                 SOIL DATA BASE USING SOIL TEXTURE # 6 WITH A
                 GOOD STAND OF GRASS, A SURFACE SLOPE OF  2.%
                 AND A SLOPE LENGTH OF  200. FEET.

       SCS RUNOFF CURVE NUMBER              =     61.65
       FRACTION OF AREA ALLOWING RUNOFF     =    100.0    PERCENT
       AREA PROJECTED ON HORIZONTAL PLANE   =      1.000  ACRES
       EVAPORATIVE ZONE DEPTH               =     18.0    INCHES
       INITIAL WATER IN EVAPORATIVE ZONE    =      3.274  INCHES
       UPPER LIMIT OF EVAPORATIVE STORAGE   =      8.154  INCHES
       FIELD CAPACITY OF EVAPORATIVE ZONE   =      3.420  INCHES
       LOWER LIMIT OF EVAPORATIVE STORAGE   =      1.530  INCHES
       SOIL EVAPORATION ZONE DEPTH          =     15.099  INCHES
       INITIAL SNOW WATER                   =      0.000  INCHES
       INITIAL INTERCEPTION WATER           =      0.000  INCHES
       INITIAL WATER IN LAYER MATERIALS     =     34.648  INCHES
       TOTAL INITIAL WATER                  =     34.648  INCHES
       TOTAL SUBSURFACE INFLOW              =      0.00   INCHES/YEAR


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                       EVAPOTRANSPIRATION DATA   1
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                          VALID FOR  30 YEARS


        NOTE:  EVAPOTRANSPIRATION DATA WAS OBTAINED FROM
                 EVANSVILLE          INDIANA
           STATION LATITUDE                          =  38.03 DEGREES
           MAXIMUM LEAF AREA INDEX                   =   3.50
           START OF GROWING SEASON (JULIAN DATE)     =     96
           END OF GROWING SEASON (JULIAN DATE)       =    300
           EVAPORATIVE ZONE DEPTH                    =  18.0  INCHES
           AVERAGE ANNUAL WIND SPEED                 =  13.19 MPH
           AVERAGE 1ST QUARTER RELATIVE HUMIDITY     =  70.0  %
           AVERAGE 2ND QUARTER RELATIVE HUMIDITY     =  67.0  %
           AVERAGE 3RD QUARTER RELATIVE HUMIDITY     =  72.0  %
           AVERAGE 4TH QUARTER RELATIVE HUMIDITY     =  54.0  %
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MONTHLY TOTALS (IN INCHES) FOR YEAR 1

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.59	2.76	3.99	2.08	3.18	4.32
	3.52	2.70	3.54	2.22	2.94	4.64
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.002
POTENTIAL EVAPOTRANSPIRATION	1.993	2.351	3.383	5.246	7.219	8.429
	8.114	6.920	5.336	5.423	4.232	2.849
ACTUAL EVAPOTRANSPIRATION	1.179	1.524	2.522	2.511	4.108	4.543
	2.386	3.943	1.704	2.152	1.174	1.898
LATERAL DRAINAGE COLLECTED	0.7641	0.1722	2.0392	0.6898	0.3161	0.1499
FROM LAYER 2	0.0629	0.0000	0.0000	0.1880	0.3436	3.1153
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0014
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0014

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.002	0.000	0.005	0.002	0.001	0.000
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.001	0.143
STD. DEVIATION OF DAILY	0.001	0.000	0.005	0.000	0.000	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.767

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ANNUAL TOTALS FOR YEAR 1

	INCHES	CU. FEET	PERCENT
PRECIPITATION	37.48	136052.422	100.00
RUNOFF	0.002	7.584	0.01
POTENTIAL EVAPOTRANSPIRATION	61.496	223229.297	

ACTUAL EVAPOTRANSPIRATION	29.644	107605.906	79.09
DRAINAGE COLLECTED FROM LAYER 2	7.8411	28463.055	20.92
PERC./LEAKAGE THROUGH LAYER 3	0.001671	6.064	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0128		
PERC./LEAKAGE THROUGH LAYER 4	0.001671	6.064	0.00
CHANGE IN WATER STORAGE	-0.008	-30.215	-0.02
SOIL WATER AT START OF YEAR	36.892	133919.406	
SOIL WATER AT END OF YEAR	36.884	133889.203	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.012	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 2

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.29	3.31	6.78	7.00	8.27	2.50
	3.65	0.69	6.88	1.21	1.79	2.01
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.315	1.862	3.345	5.618	6.667	8.045
	8.883	7.832	5.787	5.297	3.673	2.407
ACTUAL EVAPOTRANSPIRATION	1.068	1.486	2.667	4.115	5.893	4.230
	3.650	0.557	1.702	1.771	1.782	1.267
LATERAL DRAINAGE COLLECTED FROM LAYER 2	0.7630	1.1087	4.5217	1.1459	3.7484	1.6390
	0.3137	0.1532	0.0606	2.5637	0.3956	0.1763
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0000	0.0001	0.0002	0.0001	0.0001	0.0001
	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0000	0.0001	0.0002	0.0001	0.0001	0.0001
	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.002	0.003	0.010	0.003	0.009	0.004
TOP OF LAYER 3	0.001	0.000	0.000	0.006	0.001	0.000
STD. DEVIATION OF DAILY	0.001	0.002	0.010	0.002	0.009	0.002
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.006	0.000	0.000

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ANNUAL TOTALS FOR YEAR 2

	INCHES	CU. FEET	PERCENT
PRECIPITATION	46.38	168359.391	100.00
RUNOFF	0.000	0.901	0.00
POTENTIAL EVAPOTRANSPIRATION	60.731	220452.875	
ACTUAL EVAPOTRANSPIRATION	30.187	109578.180	65.09
DRAINAGE COLLECTED FROM LAYER 2	16.5897	60220.605	35.77
PERC./LEAKAGE THROUGH LAYER 3	0.000710	2.578	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0032		
PERC./LEAKAGE THROUGH LAYER 4	0.000710	2.578	0.00
CHANGE IN WATER STORAGE	-0.397	-1442.825	-0.86
SOIL WATER AT START OF YEAR	36.884	133889.203	
SOIL WATER AT END OF YEAR	36.487	132446.359	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.042	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 3

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	7.60	1.65	2.35	4.17	3.86	8.40
	8.78	2.89	4.23	0.97	2.16	1.48
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.022	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.855	2.307	3.312	5.730	7.457	8.124
	8.549	7.203	4.804	5.280	3.636	2.220
ACTUAL EVAPOTRANSPIRATION	1.357	1.536	2.062	3.084	5.409	7.128
	7.283	2.890	2.249	0.722	0.959	1.094
LATERAL DRAINAGE COLLECTED FROM LAYER 2	3.6332	2.3775	0.8627	0.7458	0.4576	0.2556
	2.1340	0.5266	0.1865	0.0494	0.5374	0.7151
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000
	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000
	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.008	0.006	0.002	0.002	0.001	0.001
	0.005	0.001	0.000	0.000	0.001	0.002
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.010	0.005	0.001	0.001	0.000	0.001
	0.005	0.001	0.000	0.000	0.001	0.001

ANNUAL TOTALS FOR YEAR 3

	INCHES	CU. FEET	PERCENT
PRECIPITATION	48.54	176200.188	100.00
RUNOFF	0.022	79.175	0.04
POTENTIAL EVAPOTRANSPIRATION	60.478	219534.484	
ACTUAL EVAPOTRANSPIRATION	35.773	129856.594	73.70
DRAINAGE COLLECTED FROM LAYER 2	12.4815	45307.684	25.71
PERC./LEAKAGE THROUGH LAYER 3	0.000550	1.997	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0024		

PERC./LEAKAGE THROUGH LAYER 4	0.000550	1.997	0.00
CHANGE IN WATER STORAGE	0.263	954.719	0.54
SOIL WATER AT START OF YEAR	36.487	132446.359	
SOIL WATER AT END OF YEAR	36.589	132817.953	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.161	583.127	0.33
ANNUAL WATER BUDGET BALANCE	0.0000	0.017	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 4

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	4.24	2.38	3.69	3.16	3.81	2.80
	4.75	1.45	3.73	2.49	0.62	0.94
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.585	2.319	3.057	5.358	8.053	8.159
	8.516	7.402	5.190	5.145	3.755	2.534
ACTUAL EVAPOTRANSPIRATION	0.945	1.465	2.129	3.243	5.103	2.953
	3.601	2.572	2.321	2.148	1.381	0.599
LATERAL DRAINAGE COLLECTED	1.4851	1.6000	1.3200	1.4235	0.4979	0.2082
FROM LAYER 2	0.1255	0.0116	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.003	0.004	0.003	0.003	0.001	0.000
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.002	0.003	0.002	0.002	0.000	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 4

	INCHES	CU. FEET	PERCENT
PRECIPITATION	34.06	123637.836	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	61.073	221695.484	
ACTUAL EVAPOTRANSPIRATION	28.459	103307.508	83.56
DRAINAGE COLLECTED FROM LAYER 2	6.6718	24218.639	19.59
PERC./LEAKAGE THROUGH LAYER 3	0.000308	1.118	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0013		
PERC./LEAKAGE THROUGH LAYER 4	0.000308	1.118	0.00
CHANGE IN WATER STORAGE	-1.071	-3889.513	-3.15
SOIL WATER AT START OF YEAR	36.589	132817.953	
SOIL WATER AT END OF YEAR	35.678	129511.570	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.161	583.127	0.47
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.078	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 5

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.08	5.10	3.07	6.43	0.99	2.99
	4.63	4.08	3.29	3.16	3.00	1.83
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

POTENTIAL EVAPOTRANSPIRATION	1.825	1.795	3.658	4.655	7.251	8.147
	8.763	7.472	5.190	5.130	4.108	2.884
ACTUAL EVAPOTRANSPIRATION	1.069	1.308	2.777	3.303	3.093	2.962
	4.336	2.493	3.979	1.799	2.175	2.040
LATERAL DRAINAGE COLLECTED FROM LAYER 2	0.0000	0.6744	2.6323	0.6683	2.1464	0.3251
	0.1602	0.0684	0.2531	0.1509	0.4511	0.1471
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0000	0.0000	0.0001	0.0000	0.0001	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0000	0.0000	0.0001	0.0000	0.0001	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.000	0.002	0.006	0.002	0.005	0.001
	0.000	0.000	0.001	0.000	0.001	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.000	0.004	0.003	0.001	0.004	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 5

	INCHES	CU. FEET	PERCENT
PRECIPITATION	39.65	143929.516	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	60.878	220985.625	
ACTUAL EVAPOTRANSPIRATION	31.335	113744.305	79.03
DRAINAGE COLLECTED FROM LAYER 2	7.6774	27869.029	19.36
PERC./LEAKAGE THROUGH LAYER 3	0.000350	1.270	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0015		
PERC./LEAKAGE THROUGH LAYER 4	0.000350	1.270	0.00
CHANGE IN WATER STORAGE	0.638	2314.917	1.61
SOIL WATER AT START OF YEAR	35.678	129511.570	
SOIL WATER AT END OF YEAR	36.316	131826.484	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	

INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.014	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 6

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.89	2.13	5.13	3.21	5.25	4.82
	4.37	5.66	3.14	1.15	3.61	2.97
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.488	2.344	3.657	5.807	7.835	7.894
	8.270	7.640	5.359	4.693	3.764	2.468
ACTUAL EVAPOTRANSPIRATION	0.905	1.929	2.117	3.749	4.488	6.514
	4.349	5.724	2.356	1.003	1.695	1.594
LATERAL DRAINAGE COLLECTED	0.3544	0.5021	0.7940	1.9112	0.3880	0.3957
FROM LAYER 2	0.2975	0.1465	0.0884	0.0000	0.0000	0.2425
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.001	0.001	0.002	0.005	0.001	0.001
TOP OF LAYER 3	0.001	0.000	0.000	0.000	0.000	0.001
STD. DEVIATION OF DAILY	0.001	0.001	0.001	0.003	0.000	0.001
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.001

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ANNUAL TOTALS FOR YEAR 6

	INCHES	CU. FEET	PERCENT
PRECIPITATION	43.33	157287.938	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	61.218	222219.766	
ACTUAL EVAPOTRANSPIRATION	36.422	132213.266	84.06
DRAINAGE COLLECTED FROM LAYER 2	5.1204	18586.932	11.82
PERC./LEAKAGE THROUGH LAYER 3	0.000250	0.906	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0010		
PERC./LEAKAGE THROUGH LAYER 4	0.000250	0.906	0.00
CHANGE IN WATER STORAGE	1.787	6486.764	4.12
SOIL WATER AT START OF YEAR	36.316	131826.484	
SOIL WATER AT END OF YEAR	37.894	137556.984	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.208	756.269	0.48
ANNUAL WATER BUDGET BALANCE	0.0000	0.071	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 7

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	4.54	0.39	7.34	4.01	2.97	1.93
	2.36	4.56	4.17	2.94	3.19	5.00
RUNOFF	0.000	0.000	0.049	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.758	2.078	3.674	5.268	7.428	8.443
	8.406	7.744	5.448	4.927	3.394	2.768
ACTUAL EVAPOTRANSPIRATION	1.155	1.034	2.162	3.399	4.330	1.930
	2.360	4.560	2.198	1.506	1.797	1.786
LATERAL DRAINAGE COLLECTED	3.7001	1.0914	3.6051	1.6031	0.7067	0.2305
FROM LAYER 2	0.1333	0.0257	0.0000	0.0241	2.1838	1.7768

PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0002	0.0001	0.0039	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0002	0.0001	0.0039	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.008	0.003	0.392	0.004	0.002	0.001
	0.000	0.000	0.000	0.000	0.005	0.004
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.006	0.001	1.734	0.002	0.001	0.000
	0.000	0.000	0.000	0.000	0.004	0.003

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ANNUAL TOTALS FOR YEAR 7

	INCHES	CU. FEET	PERCENT
PRECIPITATION	43.40	157542.016	100.00
RUNOFF	0.049	176.352	0.11
POTENTIAL EVAPOTRANSPIRATION	61.336	222649.312	
ACTUAL EVAPOTRANSPIRATION	28.218	102430.656	65.02
DRAINAGE COLLECTED FROM LAYER 2	15.0805	54742.312	34.75
PERC./LEAKAGE THROUGH LAYER 3	0.004367	15.851	0.01
AVG. HEAD ON TOP OF LAYER 3	0.0349		
PERC./LEAKAGE THROUGH LAYER 4	0.004367	15.851	0.01
CHANGE IN WATER STORAGE	0.049	176.831	0.11
SOIL WATER AT START OF YEAR	37.894	137556.984	
SOIL WATER AT END OF YEAR	37.692	136820.766	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.208	756.269	0.48
SNOW WATER AT END OF YEAR	0.460	1669.315	1.06
ANNUAL WATER BUDGET BALANCE	0.0000	0.010	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 8

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	4.24	2.26	1.44	7.00	2.92	2.88
	2.83	2.89	0.97	2.26	2.81	2.71
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	2.144	2.587	3.781	5.800	7.221	8.610
	8.513	7.402	5.462	5.343	3.548	2.209
ACTUAL EVAPOTRANSPIRATION	1.268	1.084	1.661	4.170	4.681	3.056
	2.091	2.793	2.284	0.645	1.514	1.227
LATERAL DRAINAGE COLLECTED	4.5055	0.7158	0.3145	0.6232	1.7317	0.2795
FROM LAYER 2	0.1484	0.0507	0.0000	0.0000	0.0698	0.8790
PERCOLATION/LEAKAGE THROUGH	0.0002	0.0000	0.0000	0.0000	0.0001	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0002	0.0000	0.0000	0.0000	0.0001	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.010	0.002	0.001	0.001	0.004	0.001
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.002
STD. DEVIATION OF DAILY	0.009	0.001	0.000	0.003	0.003	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.001

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ANNUAL TOTALS FOR YEAR 8

	INCHES	CU. FEET	PERCENT
PRECIPITATION	35.21	127812.289	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	62.620	227309.375	

ACTUAL EVAPOTRANSPIRATION	26.475	96104.664	75.19
DRAINAGE COLLECTED FROM LAYER 2	9.3179	33824.051	26.46
PERC./LEAKAGE THROUGH LAYER 3	0.000408	1.480	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0018		
PERC./LEAKAGE THROUGH LAYER 4	0.000408	1.480	0.00
CHANGE IN WATER STORAGE	-0.583	-2117.883	-1.66
SOIL WATER AT START OF YEAR	37.692	136820.766	
SOIL WATER AT END OF YEAR	37.568	136372.188	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.460	1669.315	1.31
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.021	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 9

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	5.87	4.11	4.78	3.89	4.45	5.05
	2.24	5.40	5.34	1.55	3.38	5.14
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.738	1.905	3.531	5.696	7.038	8.188
	8.399	7.348	5.731	5.567	3.437	2.271
ACTUAL EVAPOTRANSPIRATION	1.006	1.084	2.417	3.458	6.086	4.890
	2.072	4.616	3.811	1.679	1.751	1.286
LATERAL DRAINAGE COLLECTED FROM LAYER 2	3.4975	4.6320	1.0419	2.3963	0.5840	0.1991
	0.1221	0.0052	0.0000	0.4073	0.5677	3.0146
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0002	0.0000	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0001	0.0002	0.0000	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.008	0.012	0.002	0.006	0.001	0.000
TOP OF LAYER 3	0.000	0.000	0.000	0.001	0.001	0.007
STD. DEVIATION OF DAILY	0.010	0.008	0.001	0.003	0.001	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.001	0.000	0.006

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ANNUAL TOTALS FOR YEAR 9

	INCHES	CU. FEET	PERCENT
PRECIPITATION	51.20	185856.000	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	60.849	220882.984	
ACTUAL EVAPOTRANSPIRATION	34.154	123978.625	66.71
DRAINAGE COLLECTED FROM LAYER 2	16.4677	59777.770	32.16
PERC./LEAKAGE THROUGH LAYER 3	0.000696	2.526	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0032		
PERC./LEAKAGE THROUGH LAYER 4	0.000696	2.526	0.00
CHANGE IN WATER STORAGE	0.578	2097.029	1.13
SOIL WATER AT START OF YEAR	37.568	136372.188	
SOIL WATER AT END OF YEAR	37.641	136635.062	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.505	1834.157	0.99
ANNUAL WATER BUDGET BALANCE	0.0000	0.048	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 10

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.30	2.10	6.28	0.70	3.84	2.46
	5.29	1.92	3.87	2.07	1.65	1.99
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.919	2.216	3.795	5.578	7.279	8.916
	8.043	7.536	5.484	5.078	3.310	2.336
ACTUAL EVAPOTRANSPIRATION	1.216	1.642	2.954	1.516	4.908	2.533
	4.287	2.923	2.651	2.223	1.667	1.318
LATERAL DRAINAGE COLLECTED FROM LAYER 2	2.1201	0.8450	1.8714	1.5063	0.3555	0.1586
	0.0760	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0000	0.0001	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0001	0.0000	0.0001	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.005	0.002	0.004	0.004	0.001	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.004	0.001	0.003	0.002	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 10

	INCHES	CU. FEET	PERCENT
PRECIPITATION	34.47	125126.117	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	61.492	223214.797	
ACTUAL EVAPOTRANSPIRATION	29.839	108315.219	86.56
DRAINAGE COLLECTED FROM LAYER 2	6.9329	25166.336	20.11
PERC./LEAKAGE THROUGH LAYER 3	0.000315	1.143	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0013		

PERC./LEAKAGE THROUGH LAYER 4	0.000315	1.143	0.00
CHANGE IN WATER STORAGE	-2.302	-8356.585	-6.68
SOIL WATER AT START OF YEAR	37.641	136635.062	
SOIL WATER AT END OF YEAR	35.844	130112.633	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.505	1834.157	1.47
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.007	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 11

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	3.70	4.04	7.46	2.20	4.41	6.50
	4.22	0.57	1.55	0.93	1.80	4.98
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.808	1.822	4.023	5.737	7.240	8.070
	8.453	7.560	5.192	4.786	3.937	2.359
ACTUAL EVAPOTRANSPIRATION	1.246	1.212	3.173	2.737	4.508	5.583
	5.793	1.189	1.090	0.952	0.954	1.316
LATERAL DRAINAGE COLLECTED	1.0202	2.9235	2.6759	2.0756	0.3796	0.1635
FROM LAYER 2	0.1195	0.0220	0.0000	0.0000	0.0000	0.0019
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0001	0.0001	0.0001	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0001	0.0001	0.0001	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.002	0.007	0.006	0.005	0.001	0.000
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.003	0.008	0.004	0.005	0.000	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 11

	INCHES	CU. FEET	PERCENT
PRECIPITATION	42.36	153766.844	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	60.987	221383.734	
ACTUAL EVAPOTRANSPIRATION	29.752	108000.125	70.24
DRAINAGE COLLECTED FROM LAYER 2	9.3816	34055.258	22.15
PERC./LEAKAGE THROUGH LAYER 3	0.000404	1.466	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0019		
PERC./LEAKAGE THROUGH LAYER 4	0.000404	1.466	0.00
CHANGE IN WATER STORAGE	3.226	11709.957	7.62
SOIL WATER AT START OF YEAR	35.844	130112.633	
SOIL WATER AT END OF YEAR	37.073	134576.234	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	1.996	7246.348	4.71
ANNUAL WATER BUDGET BALANCE	0.0000	0.038	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 12

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.81	2.51	4.50	2.98	3.06	1.89
	1.91	0.87	2.53	3.85	1.47	3.01
RUNOFF	0.000	1.082	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

POTENTIAL EVAPOTRANSPIRATION	1.333	1.774	3.425	5.692	7.596	8.939
	8.548	7.628	5.311	4.202	4.077	2.696
ACTUAL EVAPOTRANSPIRATION	0.648	0.444	2.367	3.452	4.304	1.887
	1.814	0.969	2.163	1.974	1.708	1.737
LATERAL DRAINAGE COLLECTED	1.5248	0.6171	2.8569	0.8348	0.3425	0.2021
FROM LAYER 2	0.1232	0.0073	0.0000	0.0000	0.2224	0.3903
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.003	0.002	0.007	0.002	0.001	0.000
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.001	0.001
STD. DEVIATION OF DAILY	0.003	0.001	0.006	0.001	0.000	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.001	0.000

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ANNUAL TOTALS FOR YEAR 12

	INCHES	CU. FEET	PERCENT
PRECIPITATION	29.39	106685.695	100.00
RUNOFF	1.082	3928.062	3.68
POTENTIAL EVAPOTRANSPIRATION	61.221	222233.125	
ACTUAL EVAPOTRANSPIRATION	23.469	85191.727	79.85
DRAINAGE COLLECTED FROM LAYER 2	7.1214	25850.650	24.23
PERC./LEAKAGE THROUGH LAYER 3	0.000327	1.187	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0014		
PERC./LEAKAGE THROUGH LAYER 4	0.000327	1.187	0.00
CHANGE IN WATER STORAGE	-2.283	-8285.950	-7.77
SOIL WATER AT START OF YEAR	37.073	134576.234	
SOIL WATER AT END OF YEAR	36.693	133196.766	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	

INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	1.996	7246.348	6.79
SNOW WATER AT END OF YEAR	0.094	339.870	0.32
ANNUAL WATER BUDGET BALANCE	0.0000	0.016	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 13

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.29	4.94	3.45	2.63	2.15	3.34
	2.59	10.40	0.76	0.01	1.30	3.44
RUNOFF	0.000	1.942	0.000	0.000	0.000	0.000
	0.000	0.043	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.759	1.572	4.244	5.734	7.367	8.629
	8.619	7.238	6.005	5.205	3.251	2.811
ACTUAL EVAPOTRANSPIRATION	1.225	0.552	2.287	2.578	3.391	3.157
	1.791	6.204	3.134	0.010	0.412	1.116
LATERAL DRAINAGE COLLECTED FROM LAYER 2	0.2357	0.8591	2.8072	0.5590	0.4199	0.2206
	0.1611	0.0705	2.0667	0.3051	0.1472	0.0949
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.001	0.002	0.006	0.001	0.001	0.001
	0.000	0.000	0.005	0.001	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.000	0.003	0.006	0.001	0.000	0.000
	0.000	0.000	0.004	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 13

	INCHES	CU. FEET	PERCENT
PRECIPITATION	36.30	131769.016	100.00
RUNOFF	1.985	7205.605	5.47
POTENTIAL EVAPOTRANSPIRATION	62.435	226637.984	
ACTUAL EVAPOTRANSPIRATION	25.856	93856.969	71.23
DRAINAGE COLLECTED FROM LAYER 2	7.9471	28847.961	21.89
PERC./LEAKAGE THROUGH LAYER 3	0.000365	1.324	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0015		
PERC./LEAKAGE THROUGH LAYER 4	0.000365	1.324	0.00
CHANGE IN WATER STORAGE	0.512	1857.151	1.41
SOIL WATER AT START OF YEAR	36.693	133196.766	
SOIL WATER AT END OF YEAR	37.299	135393.797	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.094	339.870	0.26
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.019	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 14

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.84	1.46	6.20	4.43	7.10	2.94
	2.54	3.78	2.48	0.60	10.81	0.88
RUNOFF	0.000	0.018	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.072	0.000
POTENTIAL EVAPOTRANSPIRATION	1.379	2.264	3.624	5.730	6.884	8.068
	8.242	7.349	5.491	5.126	3.090	2.756
ACTUAL EVAPOTRANSPIRATION	0.594	0.676	2.122	3.566	6.348	4.053
	2.745	3.492	2.425	0.659	1.101	1.095
LATERAL DRAINAGE COLLECTED	0.5657	0.3165	3.3764	2.0942	0.9247	0.8663
FROM LAYER 2	0.2449	0.1342	0.0274	0.0000	5.9291	1.5213

PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0000	0.0000	0.0001	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0047	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0000	0.0000	0.0001	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0015	0.0033

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.001	0.001	0.008	0.005	0.002	0.002
	0.001	0.000	0.000	0.000	0.494	0.003
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.001	0.000	0.008	0.003	0.001	0.001
	0.000	0.000	0.000	0.000	1.902	0.002

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ANNUAL TOTALS FOR YEAR 14

	INCHES	CU. FEET	PERCENT
PRECIPITATION	44.06	159937.797	100.00
RUNOFF	0.090	325.303	0.20
POTENTIAL EVAPOTRANSPIRATION	60.002	217805.797	
ACTUAL EVAPOTRANSPIRATION	28.875	104815.180	65.53
DRAINAGE COLLECTED FROM LAYER 2	16.0005	58081.969	36.32
PERC./LEAKAGE THROUGH LAYER 3	0.005173	18.778	0.01
AVG. HEAD ON TOP OF LAYER 3	0.0431		
PERC./LEAKAGE THROUGH LAYER 4	0.005173	18.778	0.01
CHANGE IN WATER STORAGE	-0.910	-3303.424	-2.07
SOIL WATER AT START OF YEAR	37.299	135393.797	
SOIL WATER AT END OF YEAR	36.389	132090.359	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.007	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 15

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.53	2.66	0.47	1.51	4.10	5.07
	6.11	2.46	0.56	2.61	4.57	3.72
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.602	1.638	3.930	5.850	7.579	8.841
	8.992	7.217	6.005	4.982	3.585	2.759
ACTUAL EVAPOTRANSPIRATION	0.907	1.122	1.179	1.991	4.615	3.542
	7.323	2.286	0.734	0.763	0.911	1.087
LATERAL DRAINAGE COLLECTED	0.3888	1.7372	0.8901	0.3040	0.1550	0.0651
FROM LAYER 2	0.2172	0.1818	0.0970	0.0000	1.6914	3.2080
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.001	0.004	0.002	0.001	0.000	0.000
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.004	0.007
STD. DEVIATION OF DAILY	0.001	0.003	0.001	0.000	0.000	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.004	0.008

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ANNUAL TOTALS FOR YEAR 15

	INCHES	CU. FEET	PERCENT
PRECIPITATION	36.37	132023.109	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	62.981	228621.516	

ACTUAL EVAPOTRANSPIRATION	26.460	96050.250	72.75
DRAINAGE COLLECTED FROM LAYER 2	8.9357	32436.609	24.57
PERC./LEAKAGE THROUGH LAYER 3	0.000400	1.452	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0017		
PERC./LEAKAGE THROUGH LAYER 4	0.000400	1.452	0.00
CHANGE IN WATER STORAGE	0.974	3534.785	2.68
SOIL WATER AT START OF YEAR	36.389	132090.359	
SOIL WATER AT END OF YEAR	37.362	135625.156	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.010	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 16

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.53 3.20	2.37 1.09	3.68 1.95	2.53 1.94	6.77 1.09	1.72 4.70
RUNOFF	0.000 0.000	0.248 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000
POTENTIAL EVAPOTRANSPIRATION	1.807 8.276	1.922 7.228	3.945 5.404	6.209 4.984	7.098 3.460	8.704 2.801
ACTUAL EVAPOTRANSPIRATION	1.117 3.243	0.821 1.090	2.570 1.291	2.513 1.384	6.391 1.357	3.341 1.353
LATERAL DRAINAGE COLLECTED FROM LAYER 2	1.7542 0.2104	0.6009 0.1228	1.6768 0.0064	0.6517 0.0000	0.3008 0.0000	0.4718 0.0415
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001 0.0000	0.0000 0.0000	0.0001 0.0000	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0001 0.0000	0.0000 0.0000	0.0001 0.0000	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.004	0.001	0.004	0.002	0.001	0.001
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.002	0.001	0.003	0.001	0.000	0.001
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 16

	INCHES	CU. FEET	PERCENT
PRECIPITATION	33.57	121859.117	100.00
RUNOFF	0.248	898.461	0.74
POTENTIAL EVAPOTRANSPIRATION	61.838	224470.609	
ACTUAL EVAPOTRANSPIRATION	26.471	96090.758	78.85
DRAINAGE COLLECTED FROM LAYER 2	5.8372	21189.184	17.39
PERC./LEAKAGE THROUGH LAYER 3	0.000277	1.004	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0011		
PERC./LEAKAGE THROUGH LAYER 4	0.000277	1.004	0.00
CHANGE IN WATER STORAGE	1.014	3679.684	3.02
SOIL WATER AT START OF YEAR	37.362	135625.156	
SOIL WATER AT END OF YEAR	38.376	139304.828	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.026	0.00

MONTHLY TOTALS (IN INCHES) FOR YEAR 17

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.82	5.84	3.11	3.54	2.90	3.84
	3.44	5.89	1.14	1.55	2.36	10.07
RUNOFF	0.000	1.921	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.737	1.986	4.341	5.494	7.607	8.159
	8.512	7.379	5.625	5.748	3.124	2.620
ACTUAL EVAPOTRANSPIRATION	0.719	1.247	2.660	3.359	3.962	3.469
	3.783	3.306	3.267	1.262	1.337	1.436
LATERAL DRAINAGE COLLECTED FROM LAYER 2	2.0876	0.8509	1.5835	0.7302	0.6586	0.2393
	0.1362	0.0308	0.3146	0.1986	0.1153	2.8589
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0043
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.005	0.002	0.004	0.002	0.002	0.001
	0.000	0.000	0.001	0.000	0.000	0.435
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.004	0.002	0.002	0.001	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	1.785

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ANNUAL TOTALS FOR YEAR 17

	INCHES	CU. FEET	PERCENT
PRECIPITATION	44.50	161535.016	100.00
RUNOFF	1.921	6973.330	4.32
POTENTIAL EVAPOTRANSPIRATION	62.331	226260.750	
ACTUAL EVAPOTRANSPIRATION	29.806	108197.250	66.98
DRAINAGE COLLECTED FROM LAYER 2	9.8045	35590.277	22.03
PERC./LEAKAGE THROUGH LAYER 3	0.004589	16.660	0.01
AVG. HEAD ON TOP OF LAYER 3	0.0376		

PERC./LEAKAGE THROUGH LAYER 4	0.000390	1.414	0.00
CHANGE IN WATER STORAGE	2.968	10772.686	6.67
SOIL WATER AT START OF YEAR	38.376	139304.828	
SOIL WATER AT END OF YEAR	39.226	142390.469	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	2.118	7687.051	4.76
ANNUAL WATER BUDGET BALANCE	0.0000	0.055	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 18

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.89	4.45	6.46	5.26	6.05	4.44
	2.51	3.99	1.82	1.77	3.07	3.90
RUNOFF	0.000	0.383	3.255	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.895	1.274	3.739	4.860	7.174	8.282
	8.283	7.697	5.951	5.423	4.052	2.472
ACTUAL EVAPOTRANSPIRATION	1.012	0.617	1.959	3.306	5.608	6.156
	2.645	2.098	2.514	1.402	1.604	1.389
LATERAL DRAINAGE COLLECTED	4.3280	1.0051	4.2403	2.6688	0.5454	0.2511
FROM LAYER 2	0.1399	0.0371	0.3735	0.1946	0.1132	1.2442
PERCOLATION/LEAKAGE THROUGH	0.0002	0.0000	0.0029	0.0001	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001
PERCOLATION/LEAKAGE THROUGH	0.0044	0.0000	0.0029	0.0001	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.010	0.003	0.293	0.006	0.001	0.001
TOP OF LAYER 3	0.000	0.000	0.001	0.000	0.000	0.003
STD. DEVIATION OF DAILY	0.011	0.001	1.496	0.007	0.000	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.003

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ANNUAL TOTALS FOR YEAR 18

	INCHES	CU. FEET	PERCENT
PRECIPITATION	45.61	165564.297	100.00
RUNOFF	3.638	13206.707	7.98
POTENTIAL EVAPOTRANSPIRATION	61.102	221798.453	
ACTUAL EVAPOTRANSPIRATION	30.311	110028.938	66.46
DRAINAGE COLLECTED FROM LAYER 2	15.1412	54962.684	33.20
PERC./LEAKAGE THROUGH LAYER 3	0.003393	12.315	0.01
AVG. HEAD ON TOP OF LAYER 3	0.0265		
PERC./LEAKAGE THROUGH LAYER 4	0.007592	27.561	0.02
CHANGE IN WATER STORAGE	-3.488	-12661.630	-7.65
SOIL WATER AT START OF YEAR	39.226	142390.469	
SOIL WATER AT END OF YEAR	37.856	137415.891	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	2.118	7687.051	4.64
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.031	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 19

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.62	2.98	2.97	3.59	3.32	1.75
	3.69	4.83	4.57	4.05	6.50	7.35
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

POTENTIAL EVAPOTRANSPIRATION	1.772	1.917	3.640	5.729	6.817	7.998
	8.022	7.470	5.558	4.678	3.404	2.485
ACTUAL EVAPOTRANSPIRATION	1.170	1.370	2.271	3.509	4.010	1.724
	3.442	4.761	2.020	2.074	2.082	1.765
LATERAL DRAINAGE COLLECTED	1.3195	0.4023	2.4005	0.4559	0.7962	0.2970
FROM LAYER 2	0.1531	0.0580	0.0006	2.0775	3.2941	4.1605
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0001	0.0001	0.0002
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0001	0.0001	0.0002

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.003	0.001	0.005	0.001	0.002	0.001
TOP OF LAYER 3	0.000	0.000	0.000	0.005	0.008	0.009
STD. DEVIATION OF DAILY	0.002	0.000	0.003	0.001	0.001	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.005	0.010	0.008

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ANNUAL TOTALS FOR YEAR 19

	INCHES	CU. FEET	PERCENT
PRECIPITATION	47.22	171408.641	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	59.490	215949.547	
ACTUAL EVAPOTRANSPIRATION	30.198	109618.414	63.95
DRAINAGE COLLECTED FROM LAYER 2	15.4152	55957.152	32.65
PERC./LEAKAGE THROUGH LAYER 3	0.000661	2.398	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0030		
PERC./LEAKAGE THROUGH LAYER 4	0.000661	2.398	0.00
CHANGE IN WATER STORAGE	1.606	5830.648	3.40
SOIL WATER AT START OF YEAR	37.856	137415.891	
SOIL WATER AT END OF YEAR	38.562	139979.859	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	

INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.900	3266.682	1.91
ANNUAL WATER BUDGET BALANCE	0.0000	0.024	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 20

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.96 8.30	3.50 5.15	6.82 2.87	4.09 1.05	2.13 2.72	3.34 4.98
RUNOFF	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000
POTENTIAL EVAPOTRANSPIRATION	1.671 8.353	2.106 7.847	2.989 6.093	5.834 5.611	7.456 3.144	8.690 3.056
ACTUAL EVAPOTRANSPIRATION	1.031 7.319	1.419 4.232	2.117 3.614	2.717 0.444	3.328 1.302	3.340 1.534
LATERAL DRAINAGE COLLECTED FROM LAYER 2	2.8713 0.2665	2.8278 0.4321	4.2693 0.2831	3.3566 0.1717	0.5721 0.0841	0.2004 1.4990
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001 0.0000	0.0001 0.0000	0.0002 0.0000	0.0001 0.0000	0.0000 0.0000	0.0000 0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0001 0.0000	0.0001 0.0000	0.0002 0.0000	0.0001 0.0000	0.0000 0.0000	0.0000 0.0001

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.007 0.001	0.007 0.001	0.010 0.001	0.008 0.000	0.001 0.000	0.000 0.003
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.003 0.001	0.006 0.001	0.007 0.000	0.007 0.000	0.001 0.000	0.000 0.005

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ANNUAL TOTALS FOR YEAR 20

	INCHES	CU. FEET	PERCENT
PRECIPITATION	47.91	173913.312	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	62.849	228143.359	
ACTUAL EVAPOTRANSPIRATION	32.398	117605.938	67.62
DRAINAGE COLLECTED FROM LAYER 2	16.8340	61107.301	35.14
PERC./LEAKAGE THROUGH LAYER 3	0.000716	2.599	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0033		
PERC./LEAKAGE THROUGH LAYER 4	0.000716	2.599	0.00
CHANGE IN WATER STORAGE	-1.323	-4802.539	-2.76
SOIL WATER AT START OF YEAR	38.562	139979.859	
SOIL WATER AT END OF YEAR	38.139	138444.000	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.900	3266.682	1.88
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.007	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 21

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.82	1.41	3.10	4.86	3.14	4.44
	7.02	2.44	1.89	2.97	2.29	2.70
RUNOFF	0.000	0.119	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.946	2.038	4.027	5.052	7.390	8.304
	8.459	7.524	5.854	5.606	3.753	2.593
ACTUAL EVAPOTRANSPIRATION	0.981	0.627	2.094	2.879	4.620	4.088
	6.817	3.476	2.050	0.971	1.334	1.328
LATERAL DRAINAGE COLLECTED	1.9808	0.7229	0.7565	1.2213	1.1794	0.3057
FROM LAYER 2	0.1554	0.0614	0.0000	0.0000	0.0664	1.0511

PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0000	0.0000	0.0001	0.0001	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0001	0.0000	0.0000	0.0001	0.0001	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.005	0.002	0.002	0.003	0.003	0.001
	0.000	0.000	0.000	0.000	0.000	0.002
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.002	0.001	0.002	0.002	0.001	0.000
	0.000	0.000	0.000	0.000	0.000	0.001

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ANNUAL TOTALS FOR YEAR 21

	INCHES	CU. FEET	PERCENT
PRECIPITATION	38.08	138230.375	100.00
RUNOFF	0.119	431.895	0.31
POTENTIAL EVAPOTRANSPIRATION	62.548	227047.828	
ACTUAL EVAPOTRANSPIRATION	31.266	113496.242	82.11
DRAINAGE COLLECTED FROM LAYER 2	7.5010	27228.484	19.70
PERC./LEAKAGE THROUGH LAYER 3	0.000352	1.279	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0015		
PERC./LEAKAGE THROUGH LAYER 4	0.000352	1.279	0.00
CHANGE IN WATER STORAGE	-0.806	-2927.496	-2.12
SOIL WATER AT START OF YEAR	38.139	138444.000	
SOIL WATER AT END OF YEAR	37.332	135516.516	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.028	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 22

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.73	3.31	4.65	6.05	4.99	2.36
	3.71	1.81	2.88	0.69	2.64	3.71
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.832	1.910	3.701	5.308	6.939	8.152
	7.706	7.791	5.729	5.348	3.570	2.336
ACTUAL EVAPOTRANSPIRATION	1.056	1.153	2.608	3.374	5.935	3.131
	3.765	1.786	1.816	1.412	1.609	1.476
LATERAL DRAINAGE COLLECTED	0.6569	0.9512	2.8455	3.6541	0.5615	0.1954
FROM LAYER 2	0.1207	0.0024	0.0000	0.0000	0.0000	0.0104
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0001	0.0001	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0001	0.0001	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.001	0.002	0.006	0.009	0.001	0.000
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.001	0.004	0.004	0.007	0.001	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 22

	INCHES	CU. FEET	PERCENT
PRECIPITATION	38.53	139863.906	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	60.320	218962.141	

ACTUAL EVAPOTRANSPIRATION	29.122	105712.625	75.58
DRAINAGE COLLECTED FROM LAYER 2	8.9981	32662.945	23.35
PERC./LEAKAGE THROUGH LAYER 3	0.000390	1.417	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0018		
PERC./LEAKAGE THROUGH LAYER 4	0.000390	1.417	0.00
CHANGE IN WATER STORAGE	0.410	1486.915	1.06
SOIL WATER AT START OF YEAR	37.332	135516.516	
SOIL WATER AT END OF YEAR	36.989	134270.047	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.753	2733.372	1.95
ANNUAL WATER BUDGET BALANCE	0.0000	0.010	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 23

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.41 3.06	3.53 0.76	7.34 4.47	6.83 2.26	4.08 2.65	4.65 1.95
RUNOFF	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000
POTENTIAL EVAPOTRANSPIRATION	1.718 7.631	2.455 7.466	3.802 5.742	4.756 5.305	7.663 3.784	8.169 2.955
ACTUAL EVAPOTRANSPIRATION	1.120 4.006	1.737 0.764	2.735 2.553	3.465 1.984	4.841 1.843	3.700 1.863
LATERAL DRAINAGE COLLECTED FROM LAYER 2	0.7281 0.1615	3.0277 0.0702	3.8003 0.0000	3.0826 0.1730	2.7105 0.3439	0.3303 0.4291
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0000 0.0000	0.0001 0.0000	0.0002 0.0000	0.0001 0.0000	0.0001 0.0000	0.0000 0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0000 0.0000	0.0001 0.0000	0.0002 0.0000	0.0001 0.0000	0.0001 0.0000	0.0000 0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.002	0.008	0.009	0.007	0.006	0.001
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.001	0.001
STD. DEVIATION OF DAILY	0.002	0.005	0.007	0.004	0.006	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.001	0.001

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ANNUAL TOTALS FOR YEAR 23

	INCHES	CU. FEET	PERCENT
PRECIPITATION	43.99	159683.672	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	61.445	223047.109	
ACTUAL EVAPOTRANSPIRATION	30.612	111120.648	69.59
DRAINAGE COLLECTED FROM LAYER 2	14.8571	53931.441	33.77
PERC./LEAKAGE THROUGH LAYER 3	0.000636	2.308	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0029		
PERC./LEAKAGE THROUGH LAYER 4	0.000636	2.308	0.00
CHANGE IN WATER STORAGE	-1.480	-5370.654	-3.36
SOIL WATER AT START OF YEAR	36.989	134270.047	
SOIL WATER AT END OF YEAR	36.262	131632.766	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.753	2733.372	1.71
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.076	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 24

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.90	2.10	7.80	3.45	5.13	3.03
	5.26	2.86	1.52	1.09	0.79	6.94
RUNOFF	0.000	0.480	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.104
POTENTIAL EVAPOTRANSPIRATION	1.459	1.987	3.615	4.930	7.263	9.415
	8.548	7.487	5.805	4.786	3.329	2.583
ACTUAL EVAPOTRANSPIRATION	1.019	0.450	3.042	2.760	5.095	4.230
	3.743	4.564	0.942	0.684	0.720	0.941
LATERAL DRAINAGE COLLECTED FROM LAYER 2	0.4037	0.9190	4.1189	2.4237	0.9118	0.2623
	0.1586	0.0661	0.0000	0.0000	0.0000	2.2291
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0000	0.0000	0.0002	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0032
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0000	0.0000	0.0002	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0006

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.001	0.002	0.009	0.006	0.002	0.001
	0.000	0.000	0.000	0.000	0.000	0.327
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.000	0.002	0.006	0.004	0.001	0.000
	0.000	0.000	0.000	0.000	0.000	1.546

ANNUAL TOTALS FOR YEAR 24

	INCHES	CU. FEET	PERCENT
PRECIPITATION	42.87	155618.094	100.00
RUNOFF	0.584	2119.226	1.36
POTENTIAL EVAPOTRANSPIRATION	61.207	222181.953	
ACTUAL EVAPOTRANSPIRATION	28.189	102326.102	65.75
DRAINAGE COLLECTED FROM LAYER 2	11.4933	41720.613	26.81
PERC./LEAKAGE THROUGH LAYER 3	0.003613	13.117	0.01
AVG. HEAD ON TOP OF LAYER 3	0.0291		

PERC./LEAKAGE THROUGH LAYER 4	0.000993	3.604	0.00
CHANGE IN WATER STORAGE	2.603	9448.546	6.07
SOIL WATER AT START OF YEAR	36.262	131632.766	
SOIL WATER AT END OF YEAR	38.865	141081.312	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.000	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 25

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	6.14	1.55	4.16	3.29	3.40	4.28
	1.68	6.63	1.74	3.31	3.96	1.81
RUNOFF	0.000	0.116	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.726	1.899	3.522	5.560	6.801	8.485
	8.671	7.675	5.487	4.516	3.634	2.273
ACTUAL EVAPOTRANSPIRATION	0.840	0.832	2.377	3.012	4.665	2.497
	3.463	5.635	2.402	1.293	1.529	1.453
LATERAL DRAINAGE COLLECTED	4.4138	2.5187	1.5429	1.5730	0.9623	0.2501
FROM LAYER 2	0.1396	0.0371	0.1666	0.1201	1.3469	0.9251
PERCOLATION/LEAKAGE THROUGH	0.0002	0.0001	0.0001	0.0001	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0028	0.0001	0.0001	0.0001	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.010	0.006	0.004	0.004	0.002	0.001
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.003	0.002
STD. DEVIATION OF DAILY	0.007	0.005	0.002	0.002	0.001	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.003	0.001

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ANNUAL TOTALS FOR YEAR 25

	INCHES	CU. FEET	PERCENT
PRECIPITATION	41.95	152278.562	100.00
RUNOFF	0.116	420.000	0.28
POTENTIAL EVAPOTRANSPIRATION	60.247	218696.422	
ACTUAL EVAPOTRANSPIRATION	29.999	108896.844	71.51
DRAINAGE COLLECTED FROM LAYER 2	13.9961	50805.859	33.36
PERC./LEAKAGE THROUGH LAYER 3	0.000615	2.233	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0027		
PERC./LEAKAGE THROUGH LAYER 4	0.003236	11.746	0.01
CHANGE IN WATER STORAGE	-2.164	-7855.962	-5.16
SOIL WATER AT START OF YEAR	38.865	141081.312	
SOIL WATER AT END OF YEAR	36.701	133225.359	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.069	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 26

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.68	2.80	2.36	3.67	3.21	1.78
	4.32	1.67	1.31	1.30	2.84	4.36
RUNOFF	0.044	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

POTENTIAL EVAPOTRANSPIRATION	1.479	2.424	3.836	5.835	7.459	8.902
	8.122	7.502	5.676	5.233	3.820	2.720
ACTUAL EVAPOTRANSPIRATION	0.783	1.335	1.934	2.759	4.271	1.797
	4.320	1.398	0.982	1.622	1.052	1.505
LATERAL DRAINAGE COLLECTED	0.3187	0.5948	2.4710	0.4014	0.8452	0.3071
FROM LAYER 2	0.1557	0.0619	0.0000	0.0000	0.0000	0.1484
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.001	0.002	0.006	0.001	0.002	0.001
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.001	0.001	0.004	0.001	0.001	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.001

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ANNUAL TOTALS FOR YEAR 26

	INCHES	CU. FEET	PERCENT
PRECIPITATION	31.30	113619.031	100.00
RUNOFF	0.044	161.287	0.14
POTENTIAL EVAPOTRANSPIRATION	63.008	228718.938	
ACTUAL EVAPOTRANSPIRATION	23.757	86238.164	75.90
DRAINAGE COLLECTED FROM LAYER 2	5.3042	19254.412	16.95
PERC./LEAKAGE THROUGH LAYER 3	0.000248	0.902	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0010		
PERC./LEAKAGE THROUGH LAYER 4	0.000248	0.902	0.00
CHANGE IN WATER STORAGE	2.194	7964.221	7.01
SOIL WATER AT START OF YEAR	36.701	133225.359	
SOIL WATER AT END OF YEAR	38.895	141189.578	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	

INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.043	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 27

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.89	3.82	5.91	2.96	6.38	3.62
	6.20	0.94	1.82	1.76	1.85	6.84
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	2.201	1.678	3.300	6.022	7.157	8.650
	8.196	7.728	5.537	5.002	3.633	3.461
ACTUAL EVAPOTRANSPIRATION	1.440	1.004	2.386	3.418	6.261	4.191
	5.828	0.886	0.921	0.991	1.660	2.163
LATERAL DRAINAGE COLLECTED	3.4288	1.9389	3.1064	1.5638	0.8296	0.4866
FROM LAYER 2	0.2815	0.2354	0.1277	0.0255	0.0218	2.3879
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.008	0.005	0.007	0.004	0.002	0.001
TOP OF LAYER 3	0.001	0.001	0.000	0.000	0.000	0.005
STD. DEVIATION OF DAILY	0.004	0.003	0.007	0.003	0.002	0.000
HEAD ON TOP OF LAYER 3	0.001	0.000	0.000	0.000	0.000	0.009

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ANNUAL TOTALS FOR YEAR 27

	INCHES	CU. FEET	PERCENT
PRECIPITATION	44.99	163313.641	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	62.565	227112.562	
ACTUAL EVAPOTRANSPIRATION	31.148	113068.102	69.23
DRAINAGE COLLECTED FROM LAYER 2	14.4338	52394.660	32.08
PERC./LEAKAGE THROUGH LAYER 3	0.000620	2.249	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0028		
PERC./LEAKAGE THROUGH LAYER 4	0.000620	2.249	0.00
CHANGE IN WATER STORAGE	-0.593	-2151.311	-1.32
SOIL WATER AT START OF YEAR	38.895	141189.578	
SOIL WATER AT END OF YEAR	38.303	139038.266	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.073	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 28

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	3.03	1.64	4.80	4.07	4.95	1.48
	1.80	4.30	0.52	0.55	4.68	2.57
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.663	2.292	2.684	5.013	6.441	8.419
	8.567	7.077	5.712	4.679	3.231	2.291
ACTUAL EVAPOTRANSPIRATION	1.117	1.587	1.755	3.525	5.882	2.091
	1.756	1.983	2.712	0.218	1.572	1.506
LATERAL DRAINAGE COLLECTED	1.7547	1.6477	2.1001	1.4142	0.8167	0.2682
FROM LAYER 2	0.1451	0.0456	0.0776	0.0913	0.0034	0.7093

PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.004	0.004	0.005	0.003	0.002	0.001
	0.000	0.000	0.000	0.000	0.000	0.002
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.002	0.002	0.008	0.003	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.001

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ANNUAL TOTALS FOR YEAR 28

	INCHES	CU. FEET	PERCENT
PRECIPITATION	34.39	124835.695	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	58.067	210784.641	
ACTUAL EVAPOTRANSPIRATION	25.705	93309.414	74.75
DRAINAGE COLLECTED FROM LAYER 2	9.0737	32937.547	26.38
PERC./LEAKAGE THROUGH LAYER 3	0.000411	1.493	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0018		
PERC./LEAKAGE THROUGH LAYER 4	0.000411	1.493	0.00
CHANGE IN WATER STORAGE	-0.389	-1412.748	-1.13
SOIL WATER AT START OF YEAR	38.303	139038.266	
SOIL WATER AT END OF YEAR	37.913	137625.516	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.007	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 29

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.83	1.68	9.37	3.58	6.09	1.28
	4.86	1.31	0.80	1.56	0.00	3.17
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.616	2.080	3.952	5.084	7.438	8.875
	8.204	7.591	6.042	5.125	3.038	2.496
ACTUAL EVAPOTRANSPIRATION	1.036	1.462	3.028	2.809	6.046	2.362
	4.860	1.310	0.699	0.450	0.529	1.069
LATERAL DRAINAGE COLLECTED	1.3790	0.8457	5.4804	1.2886	1.0453	0.5272
FROM LAYER 2	0.1964	0.1141	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0000	0.0002	0.0001	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0000	0.0002	0.0001	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.003	0.002	0.013	0.003	0.002	0.001
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.002	0.001	0.010	0.002	0.001	0.001
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 29

	INCHES	CU. FEET	PERCENT
PRECIPITATION	35.53	128973.883	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	61.541	223394.188	

ACTUAL EVAPOTRANSPIRATION	25.661	93150.492	72.22
DRAINAGE COLLECTED FROM LAYER 2	10.8768	39482.609	30.61
PERC./LEAKAGE THROUGH LAYER 3	0.000469	1.702	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0021		
PERC./LEAKAGE THROUGH LAYER 4	0.000469	1.702	0.00
CHANGE IN WATER STORAGE	-1.009	-3660.949	-2.84
SOIL WATER AT START OF YEAR	37.913	137625.516	
SOIL WATER AT END OF YEAR	36.905	133964.562	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.031	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 30

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.92	3.18	6.14	4.06	4.69	3.04
	0.99	2.72	0.96	1.56	0.77	3.93
RUNOFF	0.846	1.463	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.674	1.919	3.892	5.958	7.302	8.069
	8.196	7.144	5.612	5.213	3.362	2.949
ACTUAL EVAPOTRANSPIRATION	0.684	0.204	2.234	2.557	4.841	2.745
	2.015	2.540	1.140	0.730	1.017	1.595
LATERAL DRAINAGE COLLECTED FROM LAYER 2	0.3985	1.1355	3.5279	3.5426	1.0731	0.3136
	0.1574	0.0643	0.0000	0.0000	0.0000	0.0045
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0000	0.0001	0.0001	0.0001	0.0001	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0000	0.0001	0.0001	0.0001	0.0001	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.001	0.003	0.008	0.008	0.002	0.001
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.001	0.001	0.007	0.007	0.001	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 30

	INCHES	CU. FEET	PERCENT
PRECIPITATION	34.96	126904.789	100.00
RUNOFF	2.309	8383.106	6.61
POTENTIAL EVAPOTRANSPIRATION	61.292	222489.484	
ACTUAL EVAPOTRANSPIRATION	22.302	80954.602	63.79
DRAINAGE COLLECTED FROM LAYER 2	10.2174	37089.270	29.23
PERC./LEAKAGE THROUGH LAYER 3	0.000441	1.602	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0020		
PERC./LEAKAGE THROUGH LAYER 4	0.000441	1.602	0.00
CHANGE IN WATER STORAGE	0.131	476.252	0.38
SOIL WATER AT START OF YEAR	36.905	133964.562	
SOIL WATER AT END OF YEAR	37.036	134440.812	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.031	0.00

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FINAL WATER STORAGE AT END OF YEAR 30

LAYER	(INCHES)	(VOL/VOL)
1	7.8633	0.2184
2	0.0007	0.0100
3	0.0000	0.0000
4	26.9280	0.1870
TOTAL WATER IN LAYERS	34.792	
SNOW WATER	0.000	
INTERCEPTION WATER	0.000	
TOTAL FINAL WATER	34.792	

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PEAK DAILY VALUES FOR YEARS 1 THROUGH 30

	(INCHES)	(CU. FT.)
PRECIPITATION	4.14	15028.199
RUNOFF	1.713	6219.9707
DRAINAGE COLLECTED FROM LAYER 2	0.99997	3629.88501
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.003213	11.66429
AVERAGE HEAD ON TOP OF LAYER 3	10.225	
MAXIMUM HEAD ON TOP OF LAYER 3	15.965	
LOCATION OF MAXIMUM HEAD IN LAYER 2 (DISTANCE FROM DRAIN)	43.5 FEET	
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.001330	4.82748
SNOW WATER	2.80	10155.2227
MAXIMUM VEG. SOIL WATER (VOL/VOL)	0.3182	
MINIMUM VEG. SOIL WATER (VOL/VOL)	0.0850	

*** Maximum heads are computed using McEnroe's equations. ***

Reference: Maximum Saturated Depth over Landfill Liner
by Bruce M. McEnroe, University of Kansas
ASCE Journal of Environmental Engineering
Vol. 119, No. 2, March 1993, pp. 262-270.

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        AVERAGE MONTHLY VALUES IN INCHES FOR YEARS    1 THROUGH   30
-------------------------------------------------------------------------------

                        JAN/JUL  FEB/AUG  MAR/SEP  APR/OCT  MAY/NOV  JUN/DEC
                        -------  -------  -------  -------  -------  -------
PRECIPITATION
-------------
  TOTALS                 2.73     2.87     4.85     3.91     4.25     3.43
                         3.99     3.22     2.58     1.85     2.78     3.79

  STD. DEVIATIONS        1.64     1.24     2.10     1.57     1.63     1.58
                         1.90     2.21     1.58     1.00     2.03     2.07

RUNOFF
------
  TOTALS                 0.030    0.259    0.110    0.000    0.000    0.000
                         0.001    0.001    0.000    0.000    0.002    0.004

  STD. DEVIATIONS        0.154    0.564    0.594    0.000    0.000    0.000
                         0.004    0.008    0.000    0.000    0.013    0.019

POTENTIAL EVAPOTRANSPIRATION
----------------------------
  TOTALS                 1.723    2.024    3.647    5.505    7.271    8.426
                         8.369    7.470    5.587    5.115    3.571    2.614

  STD. DEVIATIONS        0.214    0.294    0.359    0.401    0.344    0.367
                         0.302    0.232    0.298    0.351    0.319    0.289

ACTUAL EVAPOTRANSPIRATION
-------------------------
  TOTALS                 1.030    1.132    2.345    3.095    4.901    3.594
                         3.896    2.901    2.124    1.231    1.384    1.428

  STD. DEVIATIONS        0.206    0.433    0.439    0.576    0.924    1.397
                         1.707    1.601    0.898    0.625    0.432    0.341

LATERAL DRAINAGE COLLECTED FROM LAYER  2
-----------------------------------------
  TOTALS                 1.7461   1.3387   2.5176   1.5537   0.8988   0.3355
                         0.2339   0.0948   0.1377   0.2247   0.5976   1.0994

  STD. DEVIATIONS        1.4084   1.0161   1.3126   0.9806   0.7729   0.2872
                         0.3640   0.1200   0.3802   0.5829   1.2602   1.2102

PERCOLATION/LEAKAGE THROUGH LAYER  3
--------------------------------------
  TOTALS                 0.0001   0.0001   0.0003   0.0001   0.0000   0.0000
                         0.0000   0.0000   0.0000   0.0000   0.0002   0.0003

  STD. DEVIATIONS        0.0001   0.0000   0.0008   0.0000   0.0000   0.0000
                         0.0000   0.0000   0.0000   0.0000   0.0009   0.0010

PERCOLATION/LEAKAGE THROUGH LAYER  4
--------------------------------------
  TOTALS                 0.0003   0.0001   0.0003   0.0001   0.0000   0.0000
                         0.0000   0.0000   0.0000   0.0000   0.0001   0.0002
```

STD. DEVIATIONS	0.0009	0.0000	0.0008	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0003	0.0006

AVERAGES OF MONTHLY AVERAGED DAILY HEADS (INCHES)

DAILY AVERAGE HEAD ON TOP OF LAYER 3

AVERAGES	0.0040	0.0034	0.0280	0.0037	0.0021	0.0008
	0.0005	0.0002	0.0003	0.0005	0.0174	0.0321
STD. DEVIATIONS	0.0032	0.0026	0.0865	0.0023	0.0018	0.0007
	0.0008	0.0003	0.0009	0.0013	0.0900	0.0994

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AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 30

	INCHES		CU. FEET	PERCENT
PRECIPITATION	40.25	(5.680)	146119.6	100.00
RUNOFF	0.407	(0.8876)	1477.23	1.011
POTENTIAL EVAPOTRANSPIRATION	61.322	(1.0974)	222597.12	
ACTUAL EVAPOTRANSPIRATION	29.062	(3.3234)	105495.46	72.198
LATERAL DRAINAGE COLLECTED FROM LAYER 2	10.77836	(3.78808)	39125.438	26.77631
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.00112	(0.00146)	4.081	0.00279
AVERAGE HEAD ON TOP OF LAYER 3	0.008	(0.012)		
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.00112	(0.00171)	4.081	0.00279
CHANGE IN WATER STORAGE	0.005	(1.6162)	17.38	0.012

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**                                                                          **
**                                                                          **
**              HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE               **
**                                                                          **
**              HELP Version 3.95 D          (10 August 2012)               **
**                              developed at                                **
**        Institute of Soil Science, University of Hamburg, Germany         **
**                                 based on                                 **
**              US HELP MODEL VERSION 3.07  (1 NOVEMBER 1997)               **
**                   DEVELOPED BY ENVIRONMENTAL LABORATORY                  **
**                     USAE WATERWAYS EXPERIMENT STATION                    **
**              FOR USEPA RISK REDUCTION ENGINEERING LABORATORY             **
**                                                                          **
**                                                                          **
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 TIME:  11.43     DATE:  19.09.2018


 PRECIPITATION DATA FILE:      \\haleyaldrich.com\share\cle_common\Projects\132766
AES IPL Petersburg Structural Fill BU\HELP\Input\Evansville_Precip.d4
 TEMPERATURE DATA FILE:        \\haleyaldrich.com\share\cle_common\Projects\132766
AES IPL Petersburg Structural Fill BU\HELP\Input\Evansville_Temp.d7
 SOLAR RADIATION DATA FILE:    \\haleyaldrich.com\share\cle_common\Projects\132766
AES IPL Petersburg Structural Fill BU\HELP\Input\Evansville_Solar.d13
 EVAPOTRANSPIRATION DATA F. 1: \\haleyaldrich.com\share\cle_common\Projects\132766
AES IPL Petersburg Structural Fill BU\HELP\Input\Evansville_Evapo.d11
 SOIL AND DESIGN DATA FILE  1: \\haleyaldrich.com\share\cle_common\Projects\132766
AES IPL Petersburg Structural Fill BU\HELP\Input\Soil_Pond C_12'.d10
 OUTPUT DATA FILE:             \\haleyaldrich.com\share\cle_common\Projects\132766
AES IPL Petersburg Structural Fill BU\HELP\Output\Pond C_12'_Summary.out
 DAILY OUTPUT DATA FILE:       \\haleyaldrich.com\share\cle_common\Projects\132766
AES IPL Petersburg Structural Fill BU\HELP\Output\Pond C_12'_Summary.DAY
 MONTHLY OUTPUT DATA FILE:     \\haleyaldrich.com\share\cle_common\Projects\132766
AES IPL Petersburg Structural Fill BU\HELP\Output\Pond C_12'_Summary.MON
 YEARLY OUTPUT DATA FILE:      \\haleyaldrich.com\share\cle_common\Projects\132766
AES IPL Petersburg Structural Fill BU\HELP\Output\Pond C_12'_Summary.YR

 COLUMNS OF DAILY OUTPUT DATA FILE:

      1    DATE (yyyymmdd, years 2101 to 2200 from weather generator)
      2    AIR TEMPERATURE  (* INDICATES FREEZING TEMPERATURES)
      3    FROZEN SOIL STATE (* INDICATES FROZEN SOIL)
      4    PRECIPITATION (INCH)
      5    RUNOFF (INCH)
      6    POTENTIAL EVAPOTRANSPIRATION (INCH)
      7    ACTUAL EVAPOTRANSPIRATION (INCH)
      8    WATER CONTENT OF THE EVAPORATIVE ZONE (INCH)
      9    HEAD  #1: AVERAGE HEAD ON TOP OF LAYER  3 (INCH)
     10    DRAIN #1: LATERAL DRAINAGE FROM LAYER  2 (INCH)
     11    LEAK  #1: PERCOLATION/LEAKAGE THROUGH LAYER  3 (INCH)
     12    LEAK  #2: PERCOLATION/LEAKAGE THROUGH LAYER  4 (INCH)

 COLUMNS OF MONTHLY OUTPUT DATA FILE:

      1    DATE OF ULTIMO (yyyymmdd, years 2101 to 2200 from weather generator)
      2    PRECIPITATION (INCH)
      3    RUNOFF (INCH)
```

```
     4    POTENTIAL EVAPOTRANSPIRATION (INCH)
     5    ACTUAL EVAPOTRANSPIRATION (INCH)
     6    HEAD  #1: AVERAGE HEAD ON TOP OF LAYER  3 (INCH)
     7    DRAIN #1: LATERAL DRAINAGE FROM LAYER  2 (INCH)
     8    LEAK  #1: PERCOLATION/LEAKAGE THROUGH LAYER  3 (INCH)
     9    LEAK  #2: PERCOLATION/LEAKAGE THROUGH LAYER  4 (INCH)

COLUMNS OF YEARLY OUTPUT DATA FILE:

     1    DATE OF ULTIMO (yyyy1231, years 2101 to 2200 from weather generator)
     2    PRECIPITATION (INCH)
     3    RUNOFF (INCH)
     4    POTENTIAL EVAPOTRANSPIRATION (INCH)
     5    ACTUAL EVAPOTRANSPIRATION (INCH)
     6    DRAIN #1: LATERAL DRAINAGE FROM LAYER  2 (INCH)
     7    LEAK  #1: PERCOLATION/LEAKAGE THROUGH LAYER  3 (INCH)
     8    LEAK  #2: PERCOLATION/LEAKAGE THROUGH LAYER  4 (INCH)
     9    CHANGE IN TOTAL WATER STORAGE (INCH)
    10    CHANGE IN SOIL WATER STORAGE (INCH)
    11    CHANGE IN INTERCEPTION WATER STORAGE (INCH)
    12    CHANGE IN SNOW WATER STORAGE (INCH)
    13    ANNUAL WATER BUDGET BALANCE (INCH)

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     TITLE:  Pond C

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                          WEATHER DATA SOURCES
-------------------------------------------------------------------------------

        NOTE:  PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING
                 COEFFICIENTS FOR    EVANSVILLE          INDIANA

                 NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

     JAN/JUL     FEB/AUG     MAR/SEP     APR/OCT     MAY/NOV     JUN/DEC
     -------     -------     -------     -------     -------     -------
       2.99        3.02        4.58        4.08        4.37        3.50
       3.98        3.07        2.67        2.48        3.36        3.45

        NOTE:  TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING
                 COEFFICIENTS FOR    EVANSVILLE          INDIANA

             NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

     JAN/JUL     FEB/AUG     MAR/SEP     APR/OCT     MAY/NOV     JUN/DEC
     -------     -------     -------     -------     -------     -------
      30.80       34.90       44.60       56.50       65.60       74.60
      78.10       76.20       69.40       57.30       45.10       35.60

        NOTE:  SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING
                 COEFFICIENTS FOR    EVANSVILLE          INDIANA
                   AND STATION LATITUDE  =  38.03 DEGREES
```

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                              LAYER DATA   1
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                           VALID FOR  30 YEARS

     NOTE:  INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER WERE
              COMPUTED AS NEARLY STEADY-STATE VALUES BY THE PROGRAM.


                                 LAYER  1
                                 --------

                 TYPE 1 - VERTICAL PERCOLATION LAYER
                     MATERIAL TEXTURE NUMBER   6
       THICKNESS                    =      36.00   INCHES
       POROSITY                     =       0.4530 VOL/VOL
       FIELD CAPACITY               =       0.1900 VOL/VOL
       WILTING POINT                =       0.0850 VOL/VOL
       INITIAL SOIL WATER CONTENT   =       0.2144 VOL/VOL
       EFFECTIVE SAT. HYD. CONDUCT.=       0.7200E-03 CM/SEC
     NOTE:  SATURATED HYDRAULIC CONDUCTIVITY IS MULTIPLIED BY  4.63
              FOR ROOT CHANNELS IN TOP HALF OF EVAPORATIVE ZONE.


                                 LAYER  2
                                 --------

                TYPE 2 - LATERAL DRAINAGE LAYER
                  MATERIAL TEXTURE NUMBER  20
       THICKNESS                    =       0.07   INCHES
       POROSITY                     =       0.8500 VOL/VOL
       FIELD CAPACITY               =       0.0100 VOL/VOL
       WILTING POINT                =       0.0050 VOL/VOL
       INITIAL SOIL WATER CONTENT   =       0.0527 VOL/VOL
       EFFECTIVE SAT. HYD. CONDUCT.=        10.00     CM/SEC
       SLOPE                        =       5.00   PERCENT
       DRAINAGE LENGTH              =     200.0    FEET


                                 LAYER  3
                                 --------

                TYPE 4 - FLEXIBLE MEMBRANE LINER
                  MATERIAL TEXTURE NUMBER  36
       THICKNESS                    =       0.04   INCHES
       EFFECTIVE SAT. HYD. CONDUCT.=       0.4000E-12 CM/SEC
       FML PINHOLE DENSITY          =       4.00   HOLES/ACRE
       FML INSTALLATION DEFECTS     =       4.00   HOLES/ACRE
       FML PLACEMENT QUALITY        =  3 - GOOD


                                 LAYER  4
                                 --------
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              TYPE 1 - VERTICAL PERCOLATION LAYER
                 MATERIAL TEXTURE NUMBER  30
THICKNESS                    =    144.00   INCHES
POROSITY                     =      0.5410 VOL/VOL
FIELD CAPACITY               =      0.1870 VOL/VOL
WILTING POINT                =      0.0470 VOL/VOL
INITIAL SOIL WATER CONTENT   =      0.1870 VOL/VOL
EFFECTIVE SAT. HYD. CONDUCT.=       0.5000E-04 CM/SEC


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          GENERAL DESIGN AND EVAPORATIVE ZONE DATA   1
------------------------------------------------------------------------------

                      VALID FOR  30 YEARS

NOTE:  SCS RUNOFF CURVE NUMBER WAS COMPUTED FROM DEFAULT
         SOIL DATA BASE USING SOIL TEXTURE # 6 WITH A
         GOOD STAND OF GRASS, A SURFACE SLOPE OF  2.%
         AND A SLOPE LENGTH OF  200. FEET.

SCS RUNOFF CURVE NUMBER              =     61.65
FRACTION OF AREA ALLOWING RUNOFF     =    100.0    PERCENT
AREA PROJECTED ON HORIZONTAL PLANE   =      1.000  ACRES
EVAPORATIVE ZONE DEPTH               =     18.0    INCHES
INITIAL WATER IN EVAPORATIVE ZONE    =      3.274  INCHES
UPPER LIMIT OF EVAPORATIVE STORAGE   =      8.154  INCHES
FIELD CAPACITY OF EVAPORATIVE ZONE   =      3.420  INCHES
LOWER LIMIT OF EVAPORATIVE STORAGE   =      1.530  INCHES
SOIL EVAPORATION ZONE DEPTH          =     15.099  INCHES
INITIAL SNOW WATER                   =      0.000  INCHES
INITIAL INTERCEPTION WATER           =      0.000  INCHES
INITIAL WATER IN LAYER MATERIALS     =     34.648  INCHES
TOTAL INITIAL WATER                  =     34.648  INCHES
TOTAL SUBSURFACE INFLOW              =      0.00   INCHES/YEAR


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                EVAPOTRANSPIRATION DATA   1
------------------------------------------------------------------------------

                      VALID FOR  30 YEARS

NOTE:  EVAPOTRANSPIRATION DATA WAS OBTAINED FROM
         EVANSVILLE          INDIANA
    STATION LATITUDE                          =  38.03 DEGREES
    MAXIMUM LEAF AREA INDEX                   =   3.50
    START OF GROWING SEASON (JULIAN DATE)     =     96
    END OF GROWING SEASON (JULIAN DATE)       =    300
    EVAPORATIVE ZONE DEPTH                    =  18.0  INCHES
    AVERAGE ANNUAL WIND SPEED                 =  13.19 MPH
    AVERAGE 1ST QUARTER RELATIVE HUMIDITY     =  70.0  %
    AVERAGE 2ND QUARTER RELATIVE HUMIDITY     =  67.0  %
    AVERAGE 3RD QUARTER RELATIVE HUMIDITY     =  72.0  %
    AVERAGE 4TH QUARTER RELATIVE HUMIDITY     =  54.0  %
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MONTHLY TOTALS (IN INCHES) FOR YEAR 1

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.59	2.76	3.99	2.08	3.18	4.32
	3.52	2.70	3.54	2.22	2.94	4.64
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.002
POTENTIAL EVAPOTRANSPIRATION	1.993	2.351	3.383	5.246	7.219	8.429
	8.114	6.920	5.336	5.423	4.232	2.849
ACTUAL EVAPOTRANSPIRATION	1.179	1.524	2.522	2.511	4.108	4.543
	2.386	3.943	1.704	2.152	1.174	1.898
LATERAL DRAINAGE COLLECTED	0.7641	0.1722	2.0392	0.6898	0.3161	0.1499
FROM LAYER 2	0.0629	0.0000	0.0000	0.1880	0.3436	3.1153
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0014
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0014

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.002	0.000	0.005	0.002	0.001	0.000
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.001	0.143
STD. DEVIATION OF DAILY	0.001	0.000	0.005	0.000	0.000	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.767

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ANNUAL TOTALS FOR YEAR 1

	INCHES	CU. FEET	PERCENT
PRECIPITATION	37.48	136052.422	100.00
RUNOFF	0.002	7.584	0.01
POTENTIAL EVAPOTRANSPIRATION	61.496	223229.297	

ACTUAL EVAPOTRANSPIRATION	29.644	107605.906	79.09
DRAINAGE COLLECTED FROM LAYER 2	7.8411	28463.055	20.92
PERC./LEAKAGE THROUGH LAYER 3	0.001671	6.064	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0128		
PERC./LEAKAGE THROUGH LAYER 4	0.001671	6.064	0.00
CHANGE IN WATER STORAGE	-0.008	-30.215	-0.02
SOIL WATER AT START OF YEAR	36.892	133919.406	
SOIL WATER AT END OF YEAR	36.884	133889.203	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.012	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 2

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.29	3.31	6.78	7.00	8.27	2.50
	3.65	0.69	6.88	1.21	1.79	2.01
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.315	1.862	3.345	5.618	6.667	8.045
	8.883	7.832	5.787	5.297	3.673	2.407
ACTUAL EVAPOTRANSPIRATION	1.068	1.486	2.667	4.115	5.893	4.230
	3.650	0.557	1.702	1.771	1.782	1.267
LATERAL DRAINAGE COLLECTED FROM LAYER 2	0.7630	1.1087	4.5217	1.1459	3.7484	1.6390
	0.3137	0.1532	0.0606	2.5637	0.3956	0.1763
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0000	0.0001	0.0002	0.0001	0.0001	0.0001
	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0000	0.0001	0.0002	0.0001	0.0001	0.0001
	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.002	0.003	0.010	0.003	0.009	0.004
TOP OF LAYER 3	0.001	0.000	0.000	0.006	0.001	0.000
STD. DEVIATION OF DAILY	0.001	0.002	0.010	0.002	0.009	0.002
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.006	0.000	0.000

ANNUAL TOTALS FOR YEAR 2

	INCHES	CU. FEET	PERCENT
PRECIPITATION	46.38	168359.391	100.00
RUNOFF	0.000	0.901	0.00
POTENTIAL EVAPOTRANSPIRATION	60.731	220452.875	
ACTUAL EVAPOTRANSPIRATION	30.187	109578.180	65.09
DRAINAGE COLLECTED FROM LAYER 2	16.5897	60220.605	35.77
PERC./LEAKAGE THROUGH LAYER 3	0.000710	2.578	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0032		
PERC./LEAKAGE THROUGH LAYER 4	0.000710	2.578	0.00
CHANGE IN WATER STORAGE	-0.397	-1442.825	-0.86
SOIL WATER AT START OF YEAR	36.884	133889.203	
SOIL WATER AT END OF YEAR	36.487	132446.359	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.042	0.00

MONTHLY TOTALS (IN INCHES) FOR YEAR 3

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	7.60	1.65	2.35	4.17	3.86	8.40
	8.78	2.89	4.23	0.97	2.16	1.48
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.022	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.855	2.307	3.312	5.730	7.457	8.124
	8.549	7.203	4.804	5.280	3.636	2.220
ACTUAL EVAPOTRANSPIRATION	1.357	1.536	2.062	3.084	5.409	7.128
	7.283	2.890	2.249	0.722	0.959	1.094
LATERAL DRAINAGE COLLECTED FROM LAYER 2	3.6332	2.3775	0.8627	0.7458	0.4576	0.2556
	2.1340	0.5266	0.1865	0.0494	0.5374	0.7151
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000
	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000
	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.008	0.006	0.002	0.002	0.001	0.001
	0.005	0.001	0.000	0.000	0.001	0.002
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.010	0.005	0.001	0.001	0.000	0.001
	0.005	0.001	0.000	0.000	0.001	0.001

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ANNUAL TOTALS FOR YEAR 3

	INCHES	CU. FEET	PERCENT
PRECIPITATION	48.54	176200.188	100.00
RUNOFF	0.022	79.175	0.04
POTENTIAL EVAPOTRANSPIRATION	60.478	219534.484	
ACTUAL EVAPOTRANSPIRATION	35.773	129856.594	73.70
DRAINAGE COLLECTED FROM LAYER 2	12.4815	45307.684	25.71
PERC./LEAKAGE THROUGH LAYER 3	0.000550	1.997	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0024		

PERC./LEAKAGE THROUGH LAYER 4	0.000550	1.997	0.00
CHANGE IN WATER STORAGE	0.263	954.719	0.54
SOIL WATER AT START OF YEAR	36.487	132446.359	
SOIL WATER AT END OF YEAR	36.589	132817.953	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.161	583.127	0.33
ANNUAL WATER BUDGET BALANCE	0.0000	0.017	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 4

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	4.24	2.38	3.69	3.16	3.81	2.80
	4.75	1.45	3.73	2.49	0.62	0.94
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.585	2.319	3.057	5.358	8.053	8.159
	8.516	7.402	5.190	5.145	3.755	2.534
ACTUAL EVAPOTRANSPIRATION	0.945	1.465	2.129	3.243	5.103	2.953
	3.601	2.572	2.321	2.148	1.381	0.599
LATERAL DRAINAGE COLLECTED	1.4851	1.6000	1.3200	1.4235	0.4979	0.2082
FROM LAYER 2	0.1255	0.0116	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.003	0.004	0.003	0.003	0.001	0.000
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.002	0.003	0.002	0.002	0.000	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 4

	INCHES	CU. FEET	PERCENT
PRECIPITATION	34.06	123637.836	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	61.073	221695.484	
ACTUAL EVAPOTRANSPIRATION	28.459	103307.508	83.56
DRAINAGE COLLECTED FROM LAYER 2	6.6718	24218.639	19.59
PERC./LEAKAGE THROUGH LAYER 3	0.000308	1.118	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0013		
PERC./LEAKAGE THROUGH LAYER 4	0.000308	1.118	0.00
CHANGE IN WATER STORAGE	-1.071	-3889.513	-3.15
SOIL WATER AT START OF YEAR	36.589	132817.953	
SOIL WATER AT END OF YEAR	35.678	129511.570	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.161	583.127	0.47
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.078	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 5

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.08	5.10	3.07	6.43	0.99	2.99
	4.63	4.08	3.29	3.16	3.00	1.83
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

POTENTIAL EVAPOTRANSPIRATION	1.825	1.795	3.658	4.655	7.251	8.147
	8.763	7.472	5.190	5.130	4.108	2.884
ACTUAL EVAPOTRANSPIRATION	1.069	1.308	2.777	3.303	3.093	2.962
	4.336	2.493	3.979	1.799	2.175	2.040
LATERAL DRAINAGE COLLECTED	0.0000	0.6744	2.6323	0.6683	2.1464	0.3251
FROM LAYER 2	0.1602	0.0684	0.2531	0.1509	0.4511	0.1471
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0001	0.0000	0.0001	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0001	0.0000	0.0001	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.000	0.002	0.006	0.002	0.005	0.001
TOP OF LAYER 3	0.000	0.000	0.001	0.000	0.001	0.000
STD. DEVIATION OF DAILY	0.000	0.004	0.003	0.001	0.004	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 5

	INCHES	CU. FEET	PERCENT
PRECIPITATION	39.65	143929.516	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	60.878	220985.625	
ACTUAL EVAPOTRANSPIRATION	31.335	113744.305	79.03
DRAINAGE COLLECTED FROM LAYER 2	7.6774	27869.029	19.36
PERC./LEAKAGE THROUGH LAYER 3	0.000350	1.270	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0015		
PERC./LEAKAGE THROUGH LAYER 4	0.000350	1.270	0.00
CHANGE IN WATER STORAGE	0.638	2314.917	1.61
SOIL WATER AT START OF YEAR	35.678	129511.570	
SOIL WATER AT END OF YEAR	36.316	131826.484	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	

INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.014	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 6

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.89	2.13	5.13	3.21	5.25	4.82
	4.37	5.66	3.14	1.15	3.61	2.97
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.488	2.344	3.657	5.807	7.835	7.894
	8.270	7.640	5.359	4.693	3.764	2.468
ACTUAL EVAPOTRANSPIRATION	0.905	1.929	2.117	3.749	4.488	6.514
	4.349	5.724	2.356	1.003	1.695	1.594
LATERAL DRAINAGE COLLECTED FROM LAYER 2	0.3544	0.5021	0.7940	1.9112	0.3880	0.3957
	0.2975	0.1465	0.0884	0.0000	0.0000	0.2425
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.001	0.001	0.002	0.005	0.001	0.001
	0.001	0.000	0.000	0.000	0.000	0.001
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.001	0.001	0.001	0.003	0.000	0.001
	0.000	0.000	0.000	0.000	0.000	0.001

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ANNUAL TOTALS FOR YEAR 6

	INCHES	CU. FEET	PERCENT
PRECIPITATION	43.33	157287.938	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	61.218	222219.766	
ACTUAL EVAPOTRANSPIRATION	36.422	132213.266	84.06
DRAINAGE COLLECTED FROM LAYER 2	5.1204	18586.932	11.82
PERC./LEAKAGE THROUGH LAYER 3	0.000250	0.906	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0010		
PERC./LEAKAGE THROUGH LAYER 4	0.000250	0.906	0.00
CHANGE IN WATER STORAGE	1.787	6486.764	4.12
SOIL WATER AT START OF YEAR	36.316	131826.484	
SOIL WATER AT END OF YEAR	37.894	137556.984	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.208	756.269	0.48
ANNUAL WATER BUDGET BALANCE	0.0000	0.071	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 7

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	4.54	0.39	7.34	4.01	2.97	1.93
	2.36	4.56	4.17	2.94	3.19	5.00
RUNOFF	0.000	0.000	0.049	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.758	2.078	3.674	5.268	7.428	8.443
	8.406	7.744	5.448	4.927	3.394	2.768
ACTUAL EVAPOTRANSPIRATION	1.155	1.034	2.162	3.399	4.330	1.930
	2.360	4.560	2.198	1.506	1.797	1.786
LATERAL DRAINAGE COLLECTED	3.7001	1.0914	3.6051	1.6031	0.7067	0.2305
FROM LAYER 2	0.1333	0.0257	0.0000	0.0241	2.1838	1.7768

PERCOLATION/LEAKAGE THROUGH	0.0002	0.0001	0.0039	0.0001	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH	0.0002	0.0001	0.0039	0.0001	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.008	0.003	0.392	0.004	0.002	0.001
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.005	0.004
STD. DEVIATION OF DAILY	0.006	0.001	1.734	0.002	0.001	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.004	0.003

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ANNUAL TOTALS FOR YEAR 7

	INCHES	CU. FEET	PERCENT
PRECIPITATION	43.40	157542.016	100.00
RUNOFF	0.049	176.352	0.11
POTENTIAL EVAPOTRANSPIRATION	61.336	222649.312	
ACTUAL EVAPOTRANSPIRATION	28.218	102430.656	65.02
DRAINAGE COLLECTED FROM LAYER 2	15.0805	54742.312	34.75
PERC./LEAKAGE THROUGH LAYER 3	0.004367	15.851	0.01
AVG. HEAD ON TOP OF LAYER 3	0.0349		
PERC./LEAKAGE THROUGH LAYER 4	0.004367	15.851	0.01
CHANGE IN WATER STORAGE	0.049	176.831	0.11
SOIL WATER AT START OF YEAR	37.894	137556.984	
SOIL WATER AT END OF YEAR	37.692	136820.766	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.208	756.269	0.48
SNOW WATER AT END OF YEAR	0.460	1669.315	1.06
ANNUAL WATER BUDGET BALANCE	0.0000	0.010	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 8

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	4.24	2.26	1.44	7.00	2.92	2.88
	2.83	2.89	0.97	2.26	2.81	2.71
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	2.144	2.587	3.781	5.800	7.221	8.610
	8.513	7.402	5.462	5.343	3.548	2.209
ACTUAL EVAPOTRANSPIRATION	1.268	1.084	1.661	4.170	4.681	3.056
	2.091	2.793	2.284	0.645	1.514	1.227
LATERAL DRAINAGE COLLECTED	4.5055	0.7158	0.3145	0.6232	1.7317	0.2795
FROM LAYER 2	0.1484	0.0507	0.0000	0.0000	0.0698	0.8790
PERCOLATION/LEAKAGE THROUGH	0.0002	0.0000	0.0000	0.0000	0.0001	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0002	0.0000	0.0000	0.0000	0.0001	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.010	0.002	0.001	0.001	0.004	0.001
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.002
STD. DEVIATION OF DAILY	0.009	0.001	0.000	0.003	0.003	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.001

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ANNUAL TOTALS FOR YEAR 8

	INCHES	CU. FEET	PERCENT
PRECIPITATION	35.21	127812.289	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	62.620	227309.375	

ACTUAL EVAPOTRANSPIRATION	26.475	96104.664	75.19
DRAINAGE COLLECTED FROM LAYER 2	9.3179	33824.051	26.46
PERC./LEAKAGE THROUGH LAYER 3	0.000408	1.480	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0018		
PERC./LEAKAGE THROUGH LAYER 4	0.000408	1.480	0.00
CHANGE IN WATER STORAGE	-0.583	-2117.883	-1.66
SOIL WATER AT START OF YEAR	37.692	136820.766	
SOIL WATER AT END OF YEAR	37.568	136372.188	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.460	1669.315	1.31
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.021	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 9

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	5.87	4.11	4.78	3.89	4.45	5.05
	2.24	5.40	5.34	1.55	3.38	5.14
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.738	1.905	3.531	5.696	7.038	8.188
	8.399	7.348	5.731	5.567	3.437	2.271
ACTUAL EVAPOTRANSPIRATION	1.006	1.084	2.417	3.458	6.086	4.890
	2.072	4.616	3.811	1.679	1.751	1.286
LATERAL DRAINAGE COLLECTED	3.4975	4.6320	1.0419	2.3963	0.5840	0.1991
FROM LAYER 2	0.1221	0.0052	0.0000	0.4073	0.5677	3.0146
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0002	0.0000	0.0001	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0002	0.0000	0.0001	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.008	0.012	0.002	0.006	0.001	0.000
TOP OF LAYER 3	0.000	0.000	0.000	0.001	0.001	0.007
STD. DEVIATION OF DAILY	0.010	0.008	0.001	0.003	0.001	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.001	0.000	0.006

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ANNUAL TOTALS FOR YEAR 9

	INCHES	CU. FEET	PERCENT
PRECIPITATION	51.20	185856.000	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	60.849	220882.984	
ACTUAL EVAPOTRANSPIRATION	34.154	123978.625	66.71
DRAINAGE COLLECTED FROM LAYER 2	16.4677	59777.770	32.16
PERC./LEAKAGE THROUGH LAYER 3	0.000696	2.526	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0032		
PERC./LEAKAGE THROUGH LAYER 4	0.000696	2.526	0.00
CHANGE IN WATER STORAGE	0.578	2097.029	1.13
SOIL WATER AT START OF YEAR	37.568	136372.188	
SOIL WATER AT END OF YEAR	37.641	136635.062	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.505	1834.157	0.99
ANNUAL WATER BUDGET BALANCE	0.0000	0.048	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 10

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.30	2.10	6.28	0.70	3.84	2.46
	5.29	1.92	3.87	2.07	1.65	1.99
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.919	2.216	3.795	5.578	7.279	8.916
	8.043	7.536	5.484	5.078	3.310	2.336
ACTUAL EVAPOTRANSPIRATION	1.216	1.642	2.954	1.516	4.908	2.533
	4.287	2.923	2.651	2.223	1.667	1.318
LATERAL DRAINAGE COLLECTED FROM LAYER 2	2.1201	0.8450	1.8714	1.5063	0.3555	0.1586
	0.0760	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0000	0.0001	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0001	0.0000	0.0001	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.005	0.002	0.004	0.004	0.001	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.004	0.001	0.003	0.002	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 10

	INCHES	CU. FEET	PERCENT
PRECIPITATION	34.47	125126.117	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	61.492	223214.797	
ACTUAL EVAPOTRANSPIRATION	29.839	108315.219	86.56
DRAINAGE COLLECTED FROM LAYER 2	6.9329	25166.336	20.11
PERC./LEAKAGE THROUGH LAYER 3	0.000315	1.143	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0013		

PERC./LEAKAGE THROUGH LAYER 4	0.000315	1.143	0.00
CHANGE IN WATER STORAGE	-2.302	-8356.585	-6.68
SOIL WATER AT START OF YEAR	37.641	136635.062	
SOIL WATER AT END OF YEAR	35.844	130112.633	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.505	1834.157	1.47
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.007	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 11

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	3.70	4.04	7.46	2.20	4.41	6.50
	4.22	0.57	1.55	0.93	1.80	4.98
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.808	1.822	4.023	5.737	7.240	8.070
	8.453	7.560	5.192	4.786	3.937	2.359
ACTUAL EVAPOTRANSPIRATION	1.246	1.212	3.173	2.737	4.508	5.583
	5.793	1.189	1.090	0.952	0.954	1.316
LATERAL DRAINAGE COLLECTED	1.0202	2.9235	2.6759	2.0756	0.3796	0.1635
FROM LAYER 2	0.1195	0.0220	0.0000	0.0000	0.0000	0.0019
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0001	0.0001	0.0001	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0001	0.0001	0.0001	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.002	0.007	0.006	0.005	0.001	0.000
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.003	0.008	0.004	0.005	0.000	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 11

	INCHES	CU. FEET	PERCENT
PRECIPITATION	42.36	153766.844	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	60.987	221383.734	
ACTUAL EVAPOTRANSPIRATION	29.752	108000.125	70.24
DRAINAGE COLLECTED FROM LAYER 2	9.3816	34055.258	22.15
PERC./LEAKAGE THROUGH LAYER 3	0.000404	1.466	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0019		
PERC./LEAKAGE THROUGH LAYER 4	0.000404	1.466	0.00
CHANGE IN WATER STORAGE	3.226	11709.957	7.62
SOIL WATER AT START OF YEAR	35.844	130112.633	
SOIL WATER AT END OF YEAR	37.073	134576.234	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	1.996	7246.348	4.71
ANNUAL WATER BUDGET BALANCE	0.0000	0.038	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 12

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.81	2.51	4.50	2.98	3.06	1.89
	1.91	0.87	2.53	3.85	1.47	3.01
RUNOFF	0.000	1.082	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

POTENTIAL EVAPOTRANSPIRATION	1.333	1.774	3.425	5.692	7.596	8.939
	8.548	7.628	5.311	4.202	4.077	2.696
ACTUAL EVAPOTRANSPIRATION	0.648	0.444	2.367	3.452	4.304	1.887
	1.814	0.969	2.163	1.974	1.708	1.737
LATERAL DRAINAGE COLLECTED FROM LAYER 2	1.5248	0.6171	2.8569	0.8348	0.3425	0.2021
	0.1232	0.0073	0.0000	0.0000	0.2224	0.3903
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.003	0.002	0.007	0.002	0.001	0.000
	0.000	0.000	0.000	0.000	0.001	0.001
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.003	0.001	0.006	0.001	0.000	0.000
	0.000	0.000	0.000	0.000	0.001	0.000

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ANNUAL TOTALS FOR YEAR 12

	INCHES	CU. FEET	PERCENT
PRECIPITATION	29.39	106685.695	100.00
RUNOFF	1.082	3928.062	3.68
POTENTIAL EVAPOTRANSPIRATION	61.221	222233.125	
ACTUAL EVAPOTRANSPIRATION	23.469	85191.727	79.85
DRAINAGE COLLECTED FROM LAYER 2	7.1214	25850.650	24.23
PERC./LEAKAGE THROUGH LAYER 3	0.000327	1.187	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0014		
PERC./LEAKAGE THROUGH LAYER 4	0.000327	1.187	0.00
CHANGE IN WATER STORAGE	-2.283	-8285.950	-7.77
SOIL WATER AT START OF YEAR	37.073	134576.234	
SOIL WATER AT END OF YEAR	36.693	133196.766	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	

INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	1.996	7246.348	6.79
SNOW WATER AT END OF YEAR	0.094	339.870	0.32
ANNUAL WATER BUDGET BALANCE	0.0000	0.016	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 13

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.29	4.94	3.45	2.63	2.15	3.34
	2.59	10.40	0.76	0.01	1.30	3.44
RUNOFF	0.000	1.942	0.000	0.000	0.000	0.000
	0.000	0.043	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.759	1.572	4.244	5.734	7.367	8.629
	8.619	7.238	6.005	5.205	3.251	2.811
ACTUAL EVAPOTRANSPIRATION	1.225	0.552	2.287	2.578	3.391	3.157
	1.791	6.204	3.134	0.010	0.412	1.116
LATERAL DRAINAGE COLLECTED FROM LAYER 2	0.2357	0.8591	2.8072	0.5590	0.4199	0.2206
	0.1611	0.0705	2.0667	0.3051	0.1472	0.0949
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.001	0.002	0.006	0.001	0.001	0.001
	0.000	0.000	0.005	0.001	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.000	0.003	0.006	0.001	0.000	0.000
	0.000	0.000	0.004	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 13

	INCHES	CU. FEET	PERCENT
PRECIPITATION	36.30	131769.016	100.00
RUNOFF	1.985	7205.605	5.47
POTENTIAL EVAPOTRANSPIRATION	62.435	226637.984	
ACTUAL EVAPOTRANSPIRATION	25.856	93856.969	71.23
DRAINAGE COLLECTED FROM LAYER 2	7.9471	28847.961	21.89
PERC./LEAKAGE THROUGH LAYER 3	0.000365	1.324	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0015		
PERC./LEAKAGE THROUGH LAYER 4	0.000365	1.324	0.00
CHANGE IN WATER STORAGE	0.512	1857.151	1.41
SOIL WATER AT START OF YEAR	36.693	133196.766	
SOIL WATER AT END OF YEAR	37.299	135393.797	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.094	339.870	0.26
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.019	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 14

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.84	1.46	6.20	4.43	7.10	2.94
	2.54	3.78	2.48	0.60	10.81	0.88
RUNOFF	0.000	0.018	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.072	0.000
POTENTIAL EVAPOTRANSPIRATION	1.379	2.264	3.624	5.730	6.884	8.068
	8.242	7.349	5.491	5.126	3.090	2.756
ACTUAL EVAPOTRANSPIRATION	0.594	0.676	2.122	3.566	6.348	4.053
	2.745	3.492	2.425	0.659	1.101	1.095
LATERAL DRAINAGE COLLECTED FROM LAYER 2	0.5657	0.3165	3.3764	2.0942	0.9247	0.8663
	0.2449	0.1342	0.0274	0.0000	5.9291	1.5213

PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0000	0.0000	0.0001	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0047	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0000	0.0000	0.0001	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0015	0.0033

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.001	0.001	0.008	0.005	0.002	0.002
	0.001	0.000	0.000	0.000	0.494	0.003
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.001	0.000	0.008	0.003	0.001	0.001
	0.000	0.000	0.000	0.000	1.902	0.002

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ANNUAL TOTALS FOR YEAR 14

	INCHES	CU. FEET	PERCENT
PRECIPITATION	44.06	159937.797	100.00
RUNOFF	0.090	325.303	0.20
POTENTIAL EVAPOTRANSPIRATION	60.002	217805.797	
ACTUAL EVAPOTRANSPIRATION	28.875	104815.180	65.53
DRAINAGE COLLECTED FROM LAYER 2	16.0005	58081.969	36.32
PERC./LEAKAGE THROUGH LAYER 3	0.005173	18.778	0.01
AVG. HEAD ON TOP OF LAYER 3	0.0431		
PERC./LEAKAGE THROUGH LAYER 4	0.005173	18.778	0.01
CHANGE IN WATER STORAGE	-0.910	-3303.424	-2.07
SOIL WATER AT START OF YEAR	37.299	135393.797	
SOIL WATER AT END OF YEAR	36.389	132090.359	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.007	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 15

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.53	2.66	0.47	1.51	4.10	5.07
	6.11	2.46	0.56	2.61	4.57	3.72
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.602	1.638	3.930	5.850	7.579	8.841
	8.992	7.217	6.005	4.982	3.585	2.759
ACTUAL EVAPOTRANSPIRATION	0.907	1.122	1.179	1.991	4.615	3.542
	7.323	2.286	0.734	0.763	0.911	1.087
LATERAL DRAINAGE COLLECTED FROM LAYER 2	0.3888	1.7372	0.8901	0.3040	0.1550	0.0651
	0.2172	0.1818	0.0970	0.0000	1.6914	3.2080
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.001	0.004	0.002	0.001	0.000	0.000
	0.000	0.000	0.000	0.000	0.004	0.007
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.001	0.003	0.001	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.004	0.008

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ANNUAL TOTALS FOR YEAR 15

	INCHES	CU. FEET	PERCENT
PRECIPITATION	36.37	132023.109	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	62.981	228621.516	

ACTUAL EVAPOTRANSPIRATION	26.460	96050.250	72.75
DRAINAGE COLLECTED FROM LAYER 2	8.9357	32436.609	24.57
PERC./LEAKAGE THROUGH LAYER 3	0.000400	1.452	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0017		
PERC./LEAKAGE THROUGH LAYER 4	0.000400	1.452	0.00
CHANGE IN WATER STORAGE	0.974	3534.785	2.68
SOIL WATER AT START OF YEAR	36.389	132090.359	
SOIL WATER AT END OF YEAR	37.362	135625.156	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.010	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 16

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.53	2.37	3.68	2.53	6.77	1.72
	3.20	1.09	1.95	1.94	1.09	4.70
RUNOFF	0.000	0.248	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.807	1.922	3.945	6.209	7.098	8.704
	8.276	7.228	5.404	4.984	3.460	2.801
ACTUAL EVAPOTRANSPIRATION	1.117	0.821	2.570	2.513	6.391	3.341
	3.243	1.090	1.291	1.384	1.357	1.353
LATERAL DRAINAGE COLLECTED	1.7542	0.6009	1.6768	0.6517	0.3008	0.4718
FROM LAYER 2	0.2104	0.1228	0.0064	0.0000	0.0000	0.0415
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.004	0.001	0.004	0.002	0.001	0.001
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.002	0.001	0.003	0.001	0.000	0.001
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 16

	INCHES	CU. FEET	PERCENT
PRECIPITATION	33.57	121859.117	100.00
RUNOFF	0.248	898.461	0.74
POTENTIAL EVAPOTRANSPIRATION	61.838	224470.609	
ACTUAL EVAPOTRANSPIRATION	26.471	96090.758	78.85
DRAINAGE COLLECTED FROM LAYER 2	5.8372	21189.184	17.39
PERC./LEAKAGE THROUGH LAYER 3	0.000277	1.004	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0011		
PERC./LEAKAGE THROUGH LAYER 4	0.000277	1.004	0.00
CHANGE IN WATER STORAGE	1.014	3679.684	3.02
SOIL WATER AT START OF YEAR	37.362	135625.156	
SOIL WATER AT END OF YEAR	38.376	139304.828	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.026	0.00

MONTHLY TOTALS (IN INCHES) FOR YEAR 17

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.82	5.84	3.11	3.54	2.90	3.84
	3.44	5.89	1.14	1.55	2.36	10.07
RUNOFF	0.000	1.921	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.737	1.986	4.341	5.494	7.607	8.159
	8.512	7.379	5.625	5.748	3.124	2.620
ACTUAL EVAPOTRANSPIRATION	0.719	1.247	2.660	3.359	3.962	3.469
	3.783	3.306	3.267	1.262	1.337	1.436
LATERAL DRAINAGE COLLECTED FROM LAYER 2	2.0876	0.8509	1.5835	0.7302	0.6586	0.2393
	0.1362	0.0308	0.3146	0.1986	0.1153	2.8589
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0043
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.005	0.002	0.004	0.002	0.002	0.001
	0.000	0.000	0.001	0.000	0.000	0.435
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.004	0.002	0.002	0.001	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	1.785

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ANNUAL TOTALS FOR YEAR 17

	INCHES	CU. FEET	PERCENT
PRECIPITATION	44.50	161535.016	100.00
RUNOFF	1.921	6973.330	4.32
POTENTIAL EVAPOTRANSPIRATION	62.331	226260.750	
ACTUAL EVAPOTRANSPIRATION	29.806	108197.250	66.98
DRAINAGE COLLECTED FROM LAYER 2	9.8045	35590.277	22.03
PERC./LEAKAGE THROUGH LAYER 3	0.004589	16.660	0.01
AVG. HEAD ON TOP OF LAYER 3	0.0376		

PERC./LEAKAGE THROUGH LAYER 4	0.000390	1.414	0.00
CHANGE IN WATER STORAGE	2.968	10772.686	6.67
SOIL WATER AT START OF YEAR	38.376	139304.828	
SOIL WATER AT END OF YEAR	39.226	142390.469	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	2.118	7687.051	4.76
ANNUAL WATER BUDGET BALANCE	0.0000	0.055	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 18

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.89	4.45	6.46	5.26	6.05	4.44
	2.51	3.99	1.82	1.77	3.07	3.90
RUNOFF	0.000	0.383	3.255	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.895	1.274	3.739	4.860	7.174	8.282
	8.283	7.697	5.951	5.423	4.052	2.472
ACTUAL EVAPOTRANSPIRATION	1.012	0.617	1.959	3.306	5.608	6.156
	2.645	2.098	2.514	1.402	1.604	1.389
LATERAL DRAINAGE COLLECTED	4.3280	1.0051	4.2403	2.6688	0.5454	0.2511
FROM LAYER 2	0.1399	0.0371	0.3735	0.1946	0.1132	1.2442
PERCOLATION/LEAKAGE THROUGH	0.0002	0.0000	0.0029	0.0001	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001
PERCOLATION/LEAKAGE THROUGH	0.0044	0.0000	0.0029	0.0001	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.010	0.003	0.293	0.006	0.001	0.001
TOP OF LAYER 3	0.000	0.000	0.001	0.000	0.000	0.003
STD. DEVIATION OF DAILY	0.011	0.001	1.496	0.007	0.000	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.003

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ANNUAL TOTALS FOR YEAR 18

	INCHES	CU. FEET	PERCENT
PRECIPITATION	45.61	165564.297	100.00
RUNOFF	3.638	13206.707	7.98
POTENTIAL EVAPOTRANSPIRATION	61.102	221798.453	
ACTUAL EVAPOTRANSPIRATION	30.311	110028.938	66.46
DRAINAGE COLLECTED FROM LAYER 2	15.1412	54962.684	33.20
PERC./LEAKAGE THROUGH LAYER 3	0.003393	12.315	0.01
AVG. HEAD ON TOP OF LAYER 3	0.0265		
PERC./LEAKAGE THROUGH LAYER 4	0.007592	27.561	0.02
CHANGE IN WATER STORAGE	-3.488	-12661.630	-7.65
SOIL WATER AT START OF YEAR	39.226	142390.469	
SOIL WATER AT END OF YEAR	37.856	137415.891	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	2.118	7687.051	4.64
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.031	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 19

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.62	2.98	2.97	3.59	3.32	1.75
	3.69	4.83	4.57	4.05	6.50	7.35
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

POTENTIAL EVAPOTRANSPIRATION	1.772	1.917	3.640	5.729	6.817	7.998
	8.022	7.470	5.558	4.678	3.404	2.485
ACTUAL EVAPOTRANSPIRATION	1.170	1.370	2.271	3.509	4.010	1.724
	3.442	4.761	2.020	2.074	2.082	1.765
LATERAL DRAINAGE COLLECTED	1.3195	0.4023	2.4005	0.4559	0.7962	0.2970
FROM LAYER 2	0.1531	0.0580	0.0006	2.0775	3.2941	4.1605
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0001	0.0001	0.0002
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0001	0.0001	0.0002

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.003	0.001	0.005	0.001	0.002	0.001
TOP OF LAYER 3	0.000	0.000	0.000	0.005	0.008	0.009
STD. DEVIATION OF DAILY	0.002	0.000	0.003	0.001	0.001	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.005	0.010	0.008

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ANNUAL TOTALS FOR YEAR 19

	INCHES	CU. FEET	PERCENT
PRECIPITATION	47.22	171408.641	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	59.490	215949.547	
ACTUAL EVAPOTRANSPIRATION	30.198	109618.414	63.95
DRAINAGE COLLECTED FROM LAYER 2	15.4152	55957.152	32.65
PERC./LEAKAGE THROUGH LAYER 3	0.000661	2.398	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0030		
PERC./LEAKAGE THROUGH LAYER 4	0.000661	2.398	0.00
CHANGE IN WATER STORAGE	1.606	5830.648	3.40
SOIL WATER AT START OF YEAR	37.856	137415.891	
SOIL WATER AT END OF YEAR	38.562	139979.859	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	

INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.900	3266.682	1.91
ANNUAL WATER BUDGET BALANCE	0.0000	0.024	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 20

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.96	3.50	6.82	4.09	2.13	3.34
	8.30	5.15	2.87	1.05	2.72	4.98
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.671	2.106	2.989	5.834	7.456	8.690
	8.353	7.847	6.093	5.611	3.144	3.056
ACTUAL EVAPOTRANSPIRATION	1.031	1.419	2.117	2.717	3.328	3.340
	7.319	4.232	3.614	0.444	1.302	1.534
LATERAL DRAINAGE COLLECTED	2.8713	2.8278	4.2693	3.3566	0.5721	0.2004
FROM LAYER 2	0.2665	0.4321	0.2831	0.1717	0.0841	1.4990
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0001	0.0002	0.0001	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0001	0.0002	0.0001	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.007	0.007	0.010	0.008	0.001	0.000
TOP OF LAYER 3	0.001	0.001	0.001	0.000	0.000	0.003
STD. DEVIATION OF DAILY	0.003	0.006	0.007	0.007	0.001	0.000
HEAD ON TOP OF LAYER 3	0.001	0.001	0.000	0.000	0.000	0.005

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ANNUAL TOTALS FOR YEAR 20

	INCHES	CU. FEET	PERCENT
PRECIPITATION	47.91	173913.312	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	62.849	228143.359	
ACTUAL EVAPOTRANSPIRATION	32.398	117605.938	67.62
DRAINAGE COLLECTED FROM LAYER 2	16.8340	61107.301	35.14
PERC./LEAKAGE THROUGH LAYER 3	0.000716	2.599	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0033		
PERC./LEAKAGE THROUGH LAYER 4	0.000716	2.599	0.00
CHANGE IN WATER STORAGE	-1.323	-4802.539	-2.76
SOIL WATER AT START OF YEAR	38.562	139979.859	
SOIL WATER AT END OF YEAR	38.139	138444.000	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.900	3266.682	1.88
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.007	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 21

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.82	1.41	3.10	4.86	3.14	4.44
	7.02	2.44	1.89	2.97	2.29	2.70
RUNOFF	0.000	0.119	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.946	2.038	4.027	5.052	7.390	8.304
	8.459	7.524	5.854	5.606	3.753	2.593
ACTUAL EVAPOTRANSPIRATION	0.981	0.627	2.094	2.879	4.620	4.088
	6.817	3.476	2.050	0.971	1.334	1.328
LATERAL DRAINAGE COLLECTED	1.9808	0.7229	0.7565	1.2213	1.1794	0.3057
FROM LAYER 2	0.1554	0.0614	0.0000	0.0000	0.0664	1.0511

PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0000	0.0000	0.0001	0.0001	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0001	0.0000	0.0000	0.0001	0.0001	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.005	0.002	0.002	0.003	0.003	0.001
	0.000	0.000	0.000	0.000	0.000	0.002
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.002	0.001	0.002	0.002	0.001	0.000
	0.000	0.000	0.000	0.000	0.000	0.001

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ANNUAL TOTALS FOR YEAR 21

	INCHES	CU. FEET	PERCENT
PRECIPITATION	38.08	138230.375	100.00
RUNOFF	0.119	431.895	0.31
POTENTIAL EVAPOTRANSPIRATION	62.548	227047.828	
ACTUAL EVAPOTRANSPIRATION	31.266	113496.242	82.11
DRAINAGE COLLECTED FROM LAYER 2	7.5010	27228.484	19.70
PERC./LEAKAGE THROUGH LAYER 3	0.000352	1.279	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0015		
PERC./LEAKAGE THROUGH LAYER 4	0.000352	1.279	0.00
CHANGE IN WATER STORAGE	-0.806	-2927.496	-2.12
SOIL WATER AT START OF YEAR	38.139	138444.000	
SOIL WATER AT END OF YEAR	37.332	135516.516	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.028	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 22

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.73	3.31	4.65	6.05	4.99	2.36
	3.71	1.81	2.88	0.69	2.64	3.71
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.832	1.910	3.701	5.308	6.939	8.152
	7.706	7.791	5.729	5.348	3.570	2.336
ACTUAL EVAPOTRANSPIRATION	1.056	1.153	2.608	3.374	5.935	3.131
	3.765	1.786	1.816	1.412	1.609	1.476
LATERAL DRAINAGE COLLECTED	0.6569	0.9512	2.8455	3.6541	0.5615	0.1954
FROM LAYER 2	0.1207	0.0024	0.0000	0.0000	0.0000	0.0104
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0001	0.0001	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0001	0.0001	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.001	0.002	0.006	0.009	0.001	0.000
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.001	0.004	0.004	0.007	0.001	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 22

	INCHES	CU. FEET	PERCENT
PRECIPITATION	38.53	139863.906	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	60.320	218962.141	

ACTUAL EVAPOTRANSPIRATION	29.122	105712.625	75.58
DRAINAGE COLLECTED FROM LAYER 2	8.9981	32662.945	23.35
PERC./LEAKAGE THROUGH LAYER 3	0.000390	1.417	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0018		
PERC./LEAKAGE THROUGH LAYER 4	0.000390	1.417	0.00
CHANGE IN WATER STORAGE	0.410	1486.915	1.06
SOIL WATER AT START OF YEAR	37.332	135516.516	
SOIL WATER AT END OF YEAR	36.989	134270.047	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.753	2733.372	1.95
ANNUAL WATER BUDGET BALANCE	0.0000	0.010	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 23

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.41	3.53	7.34	6.83	4.08	4.65
	3.06	0.76	4.47	2.26	2.65	1.95
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.718	2.455	3.802	4.756	7.663	8.169
	7.631	7.466	5.742	5.305	3.784	2.955
ACTUAL EVAPOTRANSPIRATION	1.120	1.737	2.735	3.465	4.841	3.700
	4.006	0.764	2.553	1.984	1.843	1.863
LATERAL DRAINAGE COLLECTED FROM LAYER 2	0.7281	3.0277	3.8003	3.0826	2.7105	0.3303
	0.1615	0.0702	0.0000	0.1730	0.3439	0.4291
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0000	0.0001	0.0002	0.0001	0.0001	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0000	0.0001	0.0002	0.0001	0.0001	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.002	0.008	0.009	0.007	0.006	0.001
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.001	0.001
STD. DEVIATION OF DAILY	0.002	0.005	0.007	0.004	0.006	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.001	0.001

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ANNUAL TOTALS FOR YEAR 23

	INCHES	CU. FEET	PERCENT
PRECIPITATION	43.99	159683.672	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	61.445	223047.109	
ACTUAL EVAPOTRANSPIRATION	30.612	111120.648	69.59
DRAINAGE COLLECTED FROM LAYER 2	14.8571	53931.441	33.77
PERC./LEAKAGE THROUGH LAYER 3	0.000636	2.308	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0029		
PERC./LEAKAGE THROUGH LAYER 4	0.000636	2.308	0.00
CHANGE IN WATER STORAGE	-1.480	-5370.654	-3.36
SOIL WATER AT START OF YEAR	36.989	134270.047	
SOIL WATER AT END OF YEAR	36.262	131632.766	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.753	2733.372	1.71
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.076	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 24

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.90	2.10	7.80	3.45	5.13	3.03
	5.26	2.86	1.52	1.09	0.79	6.94
RUNOFF	0.000	0.480	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.104
POTENTIAL EVAPOTRANSPIRATION	1.459	1.987	3.615	4.930	7.263	9.415
	8.548	7.487	5.805	4.786	3.329	2.583
ACTUAL EVAPOTRANSPIRATION	1.019	0.450	3.042	2.760	5.095	4.230
	3.743	4.564	0.942	0.684	0.720	0.941
LATERAL DRAINAGE COLLECTED FROM LAYER 2	0.4037	0.9190	4.1189	2.4237	0.9118	0.2623
	0.1586	0.0661	0.0000	0.0000	0.0000	2.2291
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0000	0.0000	0.0002	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0032
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0000	0.0000	0.0002	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0006

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.001	0.002	0.009	0.006	0.002	0.001
	0.000	0.000	0.000	0.000	0.000	0.327
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.000	0.002	0.006	0.004	0.001	0.000
	0.000	0.000	0.000	0.000	0.000	1.546

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ANNUAL TOTALS FOR YEAR 24

	INCHES	CU. FEET	PERCENT
PRECIPITATION	42.87	155618.094	100.00
RUNOFF	0.584	2119.226	1.36
POTENTIAL EVAPOTRANSPIRATION	61.207	222181.953	
ACTUAL EVAPOTRANSPIRATION	28.189	102326.102	65.75
DRAINAGE COLLECTED FROM LAYER 2	11.4933	41720.613	26.81
PERC./LEAKAGE THROUGH LAYER 3	0.003613	13.117	0.01
AVG. HEAD ON TOP OF LAYER 3	0.0291		

PERC./LEAKAGE THROUGH LAYER 4	0.000993	3.604	0.00
CHANGE IN WATER STORAGE	2.603	9448.546	6.07
SOIL WATER AT START OF YEAR	36.262	131632.766	
SOIL WATER AT END OF YEAR	38.865	141081.312	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.000	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 25

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	6.14	1.55	4.16	3.29	3.40	4.28
	1.68	6.63	1.74	3.31	3.96	1.81
RUNOFF	0.000	0.116	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.726	1.899	3.522	5.560	6.801	8.485
	8.671	7.675	5.487	4.516	3.634	2.273
ACTUAL EVAPOTRANSPIRATION	0.840	0.832	2.377	3.012	4.665	2.497
	3.463	5.635	2.402	1.293	1.529	1.453
LATERAL DRAINAGE COLLECTED	4.4138	2.5187	1.5429	1.5730	0.9623	0.2501
FROM LAYER 2	0.1396	0.0371	0.1666	0.1201	1.3469	0.9251
PERCOLATION/LEAKAGE THROUGH	0.0002	0.0001	0.0001	0.0001	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0028	0.0001	0.0001	0.0001	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.010	0.006	0.004	0.004	0.002	0.001
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.003	0.002
STD. DEVIATION OF DAILY	0.007	0.005	0.002	0.002	0.001	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.003	0.001

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ANNUAL TOTALS FOR YEAR 25

	INCHES	CU. FEET	PERCENT
PRECIPITATION	41.95	152278.562	100.00
RUNOFF	0.116	420.000	0.28
POTENTIAL EVAPOTRANSPIRATION	60.247	218696.422	
ACTUAL EVAPOTRANSPIRATION	29.999	108896.844	71.51
DRAINAGE COLLECTED FROM LAYER 2	13.9961	50805.859	33.36
PERC./LEAKAGE THROUGH LAYER 3	0.000615	2.233	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0027		
PERC./LEAKAGE THROUGH LAYER 4	0.003236	11.746	0.01
CHANGE IN WATER STORAGE	-2.164	-7855.962	-5.16
SOIL WATER AT START OF YEAR	38.865	141081.312	
SOIL WATER AT END OF YEAR	36.701	133225.359	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.069	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 26

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.68	2.80	2.36	3.67	3.21	1.78
	4.32	1.67	1.31	1.30	2.84	4.36
RUNOFF	0.044	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

POTENTIAL EVAPOTRANSPIRATION	1.479	2.424	3.836	5.835	7.459	8.902
	8.122	7.502	5.676	5.233	3.820	2.720
ACTUAL EVAPOTRANSPIRATION	0.783	1.335	1.934	2.759	4.271	1.797
	4.320	1.398	0.982	1.622	1.052	1.505
LATERAL DRAINAGE COLLECTED	0.3187	0.5948	2.4710	0.4014	0.8452	0.3071
FROM LAYER 2	0.1557	0.0619	0.0000	0.0000	0.0000	0.1484
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.001	0.002	0.006	0.001	0.002	0.001
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.001	0.001	0.004	0.001	0.001	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.001

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ANNUAL TOTALS FOR YEAR 26

	INCHES	CU. FEET	PERCENT
PRECIPITATION	31.30	113619.031	100.00
RUNOFF	0.044	161.287	0.14
POTENTIAL EVAPOTRANSPIRATION	63.008	228718.938	
ACTUAL EVAPOTRANSPIRATION	23.757	86238.164	75.90
DRAINAGE COLLECTED FROM LAYER 2	5.3042	19254.412	16.95
PERC./LEAKAGE THROUGH LAYER 3	0.000248	0.902	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0010		
PERC./LEAKAGE THROUGH LAYER 4	0.000248	0.902	0.00
CHANGE IN WATER STORAGE	2.194	7964.221	7.01
SOIL WATER AT START OF YEAR	36.701	133225.359	
SOIL WATER AT END OF YEAR	38.895	141189.578	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	

INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.043	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 27

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.89	3.82	5.91	2.96	6.38	3.62
	6.20	0.94	1.82	1.76	1.85	6.84
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	2.201	1.678	3.300	6.022	7.157	8.650
	8.196	7.728	5.537	5.002	3.633	3.461
ACTUAL EVAPOTRANSPIRATION	1.440	1.004	2.386	3.418	6.261	4.191
	5.828	0.886	0.921	0.991	1.660	2.163
LATERAL DRAINAGE COLLECTED FROM LAYER 2	3.4288	1.9389	3.1064	1.5638	0.8296	0.4866
	0.2815	0.2354	0.1277	0.0255	0.0218	2.3879
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.008	0.005	0.007	0.004	0.002	0.001
	0.001	0.001	0.000	0.000	0.000	0.005
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.004	0.003	0.007	0.003	0.002	0.000
	0.001	0.000	0.000	0.000	0.000	0.009

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ANNUAL TOTALS FOR YEAR 27

	INCHES	CU. FEET	PERCENT
PRECIPITATION	44.99	163313.641	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	62.565	227112.562	
ACTUAL EVAPOTRANSPIRATION	31.148	113068.102	69.23
DRAINAGE COLLECTED FROM LAYER 2	14.4338	52394.660	32.08
PERC./LEAKAGE THROUGH LAYER 3	0.000620	2.249	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0028		
PERC./LEAKAGE THROUGH LAYER 4	0.000620	2.249	0.00
CHANGE IN WATER STORAGE	-0.593	-2151.311	-1.32
SOIL WATER AT START OF YEAR	38.895	141189.578	
SOIL WATER AT END OF YEAR	38.303	139038.266	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.073	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 28

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	3.03	1.64	4.80	4.07	4.95	1.48
	1.80	4.30	0.52	0.55	4.68	2.57
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.663	2.292	2.684	5.013	6.441	8.419
	8.567	7.077	5.712	4.679	3.231	2.291
ACTUAL EVAPOTRANSPIRATION	1.117	1.587	1.755	3.525	5.882	2.091
	1.756	1.983	2.712	0.218	1.572	1.506
LATERAL DRAINAGE COLLECTED	1.7547	1.6477	2.1001	1.4142	0.8167	0.2682
FROM LAYER 2	0.1451	0.0456	0.0776	0.0913	0.0034	0.7093

PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.004	0.004	0.005	0.003	0.002	0.001
	0.000	0.000	0.000	0.000	0.000	0.002
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.002	0.002	0.008	0.003	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.001

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ANNUAL TOTALS FOR YEAR 28

	INCHES	CU. FEET	PERCENT
PRECIPITATION	34.39	124835.695	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	58.067	210784.641	
ACTUAL EVAPOTRANSPIRATION	25.705	93309.414	74.75
DRAINAGE COLLECTED FROM LAYER 2	9.0737	32937.547	26.38
PERC./LEAKAGE THROUGH LAYER 3	0.000411	1.493	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0018		
PERC./LEAKAGE THROUGH LAYER 4	0.000411	1.493	0.00
CHANGE IN WATER STORAGE	-0.389	-1412.748	-1.13
SOIL WATER AT START OF YEAR	38.303	139038.266	
SOIL WATER AT END OF YEAR	37.913	137625.516	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.007	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 29

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.83	1.68	9.37	3.58	6.09	1.28
	4.86	1.31	0.80	1.56	0.00	3.17
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.616	2.080	3.952	5.084	7.438	8.875
	8.204	7.591	6.042	5.125	3.038	2.496
ACTUAL EVAPOTRANSPIRATION	1.036	1.462	3.028	2.809	6.046	2.362
	4.860	1.310	0.699	0.450	0.529	1.069
LATERAL DRAINAGE COLLECTED	1.3790	0.8457	5.4804	1.2886	1.0453	0.5272
FROM LAYER 2	0.1964	0.1141	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0000	0.0002	0.0001	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0000	0.0002	0.0001	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.003	0.002	0.013	0.003	0.002	0.001
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.002	0.001	0.010	0.002	0.001	0.001
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 29

	INCHES	CU. FEET	PERCENT
PRECIPITATION	35.53	128973.883	100.00
RUNOFF	0.000	0.000	0.00
POTENTIAL EVAPOTRANSPIRATION	61.541	223394.188	

ACTUAL EVAPOTRANSPIRATION	25.661	93150.492	72.22
DRAINAGE COLLECTED FROM LAYER 2	10.8768	39482.609	30.61
PERC./LEAKAGE THROUGH LAYER 3	0.000469	1.702	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0021		
PERC./LEAKAGE THROUGH LAYER 4	0.000469	1.702	0.00
CHANGE IN WATER STORAGE	-1.009	-3660.949	-2.84
SOIL WATER AT START OF YEAR	37.913	137625.516	
SOIL WATER AT END OF YEAR	36.905	133964.562	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.031	0.00

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MONTHLY TOTALS (IN INCHES) FOR YEAR 30

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.92	3.18	6.14	4.06	4.69	3.04
	0.99	2.72	0.96	1.56	0.77	3.93
RUNOFF	0.846	1.463	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
POTENTIAL EVAPOTRANSPIRATION	1.674	1.919	3.892	5.958	7.302	8.069
	8.196	7.144	5.612	5.213	3.362	2.949
ACTUAL EVAPOTRANSPIRATION	0.684	0.204	2.234	2.557	4.841	2.745
	2.015	2.540	1.140	0.730	1.017	1.595
LATERAL DRAINAGE COLLECTED FROM LAYER 2	0.3985	1.1355	3.5279	3.5426	1.0731	0.3136
	0.1574	0.0643	0.0000	0.0000	0.0000	0.0045
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0000	0.0001	0.0001	0.0001	0.0001	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0000	0.0001	0.0001	0.0001	0.0001	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.001	0.003	0.008	0.008	0.002	0.001
TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.001	0.001	0.007	0.007	0.001	0.000
HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 30

	INCHES	CU. FEET	PERCENT
PRECIPITATION	34.96	126904.789	100.00
RUNOFF	2.309	8383.106	6.61
POTENTIAL EVAPOTRANSPIRATION	61.292	222489.484	
ACTUAL EVAPOTRANSPIRATION	22.302	80954.602	63.79
DRAINAGE COLLECTED FROM LAYER 2	10.2174	37089.270	29.23
PERC./LEAKAGE THROUGH LAYER 3	0.000441	1.602	0.00
AVG. HEAD ON TOP OF LAYER 3	0.0020		
PERC./LEAKAGE THROUGH LAYER 4	0.000441	1.602	0.00
CHANGE IN WATER STORAGE	0.131	476.252	0.38
SOIL WATER AT START OF YEAR	36.905	133964.562	
SOIL WATER AT END OF YEAR	37.036	134440.812	
INTERCEPTION WATER AT START OF YEAR	0.000	0.000	
INTERCEPTION WATER AT END OF YEAR	0.000	0.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.031	0.00

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FINAL WATER STORAGE AT END OF YEAR 30

LAYER	(INCHES)	(VOL/VOL)
1	7.8633	0.2184
2	0.0007	0.0100
3	0.0000	0.0000
4	26.9280	0.1870
TOTAL WATER IN LAYERS	34.792	
SNOW WATER	0.000	
INTERCEPTION WATER	0.000	
TOTAL FINAL WATER	34.792	

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PEAK DAILY VALUES FOR YEARS 1 THROUGH 30

	(INCHES)	(CU. FT.)
PRECIPITATION	4.14	15028.199
RUNOFF	1.713	6219.9707
DRAINAGE COLLECTED FROM LAYER 2	0.99997	3629.88501
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.003213	11.66429
AVERAGE HEAD ON TOP OF LAYER 3	10.225	
MAXIMUM HEAD ON TOP OF LAYER 3	15.965	
LOCATION OF MAXIMUM HEAD IN LAYER 2 (DISTANCE FROM DRAIN)	43.5 FEET	
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.001330	4.82748
SNOW WATER	2.80	10155.2227
MAXIMUM VEG. SOIL WATER (VOL/VOL)	0.3182	
MINIMUM VEG. SOIL WATER (VOL/VOL)	0.0850	

*** Maximum heads are computed using McEnroe's equations. ***

Reference: Maximum Saturated Depth over Landfill Liner
by Bruce M. McEnroe, University of Kansas
ASCE Journal of Environmental Engineering
Vol. 119, No. 2, March 1993, pp. 262-270.

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        AVERAGE MONTHLY VALUES IN INCHES FOR YEARS    1 THROUGH   30
-------------------------------------------------------------------------------

                        JAN/JUL  FEB/AUG  MAR/SEP  APR/OCT  MAY/NOV  JUN/DEC
                        -------  -------  -------  -------  -------  -------
PRECIPITATION
-------------
  TOTALS                 2.73     2.87     4.85     3.91     4.25     3.43
                         3.99     3.22     2.58     1.85     2.78     3.79

  STD. DEVIATIONS        1.64     1.24     2.10     1.57     1.63     1.58
                         1.90     2.21     1.58     1.00     2.03     2.07

RUNOFF
------
  TOTALS                 0.030    0.259    0.110    0.000    0.000    0.000
                         0.001    0.001    0.000    0.000    0.002    0.004

  STD. DEVIATIONS        0.154    0.564    0.594    0.000    0.000    0.000
                         0.004    0.008    0.000    0.000    0.013    0.019

POTENTIAL EVAPOTRANSPIRATION
----------------------------
  TOTALS                 1.723    2.024    3.647    5.505    7.271    8.426
                         8.369    7.470    5.587    5.115    3.571    2.614

  STD. DEVIATIONS        0.214    0.294    0.359    0.401    0.344    0.367
                         0.302    0.232    0.298    0.351    0.319    0.289

ACTUAL EVAPOTRANSPIRATION
-------------------------
  TOTALS                 1.030    1.132    2.345    3.095    4.901    3.594
                         3.896    2.901    2.124    1.231    1.384    1.428

  STD. DEVIATIONS        0.206    0.433    0.439    0.576    0.924    1.397
                         1.707    1.601    0.898    0.625    0.432    0.341

LATERAL DRAINAGE COLLECTED FROM LAYER  2
-----------------------------------------
  TOTALS                 1.7461   1.3387   2.5176   1.5537   0.8988   0.3355
                         0.2339   0.0948   0.1377   0.2247   0.5976   1.0994

  STD. DEVIATIONS        1.4084   1.0161   1.3126   0.9806   0.7729   0.2872
                         0.3640   0.1200   0.3802   0.5829   1.2602   1.2102

PERCOLATION/LEAKAGE THROUGH LAYER  3
--------------------------------------
  TOTALS                 0.0001   0.0001   0.0003   0.0001   0.0000   0.0000
                         0.0000   0.0000   0.0000   0.0000   0.0002   0.0003

  STD. DEVIATIONS        0.0001   0.0000   0.0008   0.0000   0.0000   0.0000
                         0.0000   0.0000   0.0000   0.0000   0.0009   0.0010

PERCOLATION/LEAKAGE THROUGH LAYER  4
--------------------------------------
  TOTALS                 0.0003   0.0001   0.0003   0.0001   0.0000   0.0000
                         0.0000   0.0000   0.0000   0.0000   0.0001   0.0002
```

STD. DEVIATIONS	0.0009	0.0000	0.0008	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0003	0.0006

AVERAGES OF MONTHLY AVERAGED DAILY HEADS (INCHES)

DAILY AVERAGE HEAD ON TOP OF LAYER 3

AVERAGES	0.0040	0.0034	0.0280	0.0037	0.0021	0.0008
	0.0005	0.0002	0.0003	0.0005	0.0174	0.0321
STD. DEVIATIONS	0.0032	0.0026	0.0865	0.0023	0.0018	0.0007
	0.0008	0.0003	0.0009	0.0013	0.0900	0.0994

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AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 30

	INCHES		CU. FEET	PERCENT
PRECIPITATION	40.25	(5.680)	146119.6	100.00
RUNOFF	0.407	(0.8876)	1477.23	1.011
POTENTIAL EVAPOTRANSPIRATION	61.322	(1.0974)	222597.12	
ACTUAL EVAPOTRANSPIRATION	29.062	(3.3234)	105495.46	72.198
LATERAL DRAINAGE COLLECTED FROM LAYER 2	10.77836	(3.78808)	39125.438	26.77631
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.00112	(0.00146)	4.081	0.00279
AVERAGE HEAD ON TOP OF LAYER 3	0.008	(0.012)		
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.00112	(0.00171)	4.081	0.00279
CHANGE IN WATER STORAGE	0.005	(1.6162)	17.38	0.012

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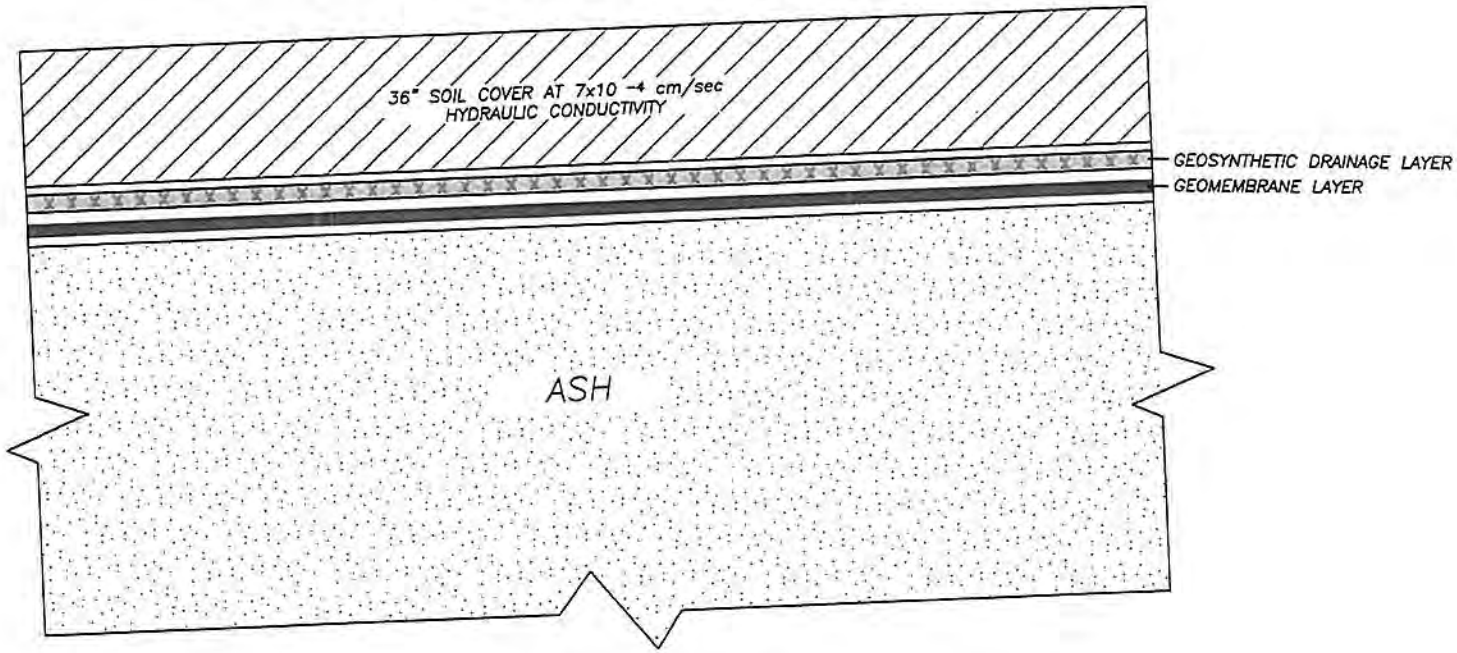
APPENDIX C-3

Hydrologic Evaluation of Landfill Performance (HELP) Model Output, U.S. EPA, Version 3.07, as performed by Cardno ATC, Inc., October 2015

HELP Model Output Summary

IDEM Approved Final Cover with 5% Slope

COMPOSITE COVER AT 5% SLOPE



PERCOLATION INTO ASH
AVERAGES 0.003% OF PRECIPITATION

IDEM APPROVED FINAL COVER

ASH POND B
PETERSBURG GENERATING STATION
PETERSBURG, INDIANA

Project Number: 170LF00104		Drn. By: PL
Drawing File: SEE BELOW LEFT		Ckd. By: DS
Date: 10/2015	Scale: NOT TO SCALE	App'd By: DB
Cardno ATC		Figure:

H:\2015\IPL\PETERSBURG MOD ASH POND CLOSURE (170LF00104)\HELP MODEL\HELP MODEL.DWG, 5% SLOPE

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**                                                                          **
**                                                                          **
**              HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE               **
**                HELP MODEL VERSION 3.07  (1 NOVEMBER 1997)                **
**                  DEVELOPED BY ENVIRONMENTAL LABORATORY                   **
**                    USAE WATERWAYS EXPERIMENT STATION                     **
**             FOR USEPA RISK REDUCTION ENGINEERING LABORATORY              **
**                                                                          **
**             Recompiled for Windows (32/64-bit) (09 Aug 2012)             **
**        Institute of Soil Science, University of Hamburg, Germany         **
**                                                                          **
**                                                                          **
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PRECIPITATION DATA FILE:      U:\dave.stelzer\1HELP\eville2.d4
TEMPERATURE DATA FILE:        U:\dave.stelzer\1HELP\eville.d7
SOLAR RADIATION DATA FILE:    U:\dave.stelzer\1HELP\eville.d13
EVAPOTRANSPIRATION DATA:      U:\dave.stelzer\1HELP\eville2.d11
SOIL AND DESIGN DATA FILE:    U:\dave.stelzer\1HELP\evill5c.d10
OUTPUT DATA FILE:             U:\dave.stelzer\1HELP\evill5c.out


TIME:  14:53     DATE:  10/13/2015


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     TITLE:  Evansville Impoundment Cover

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     NOTE:  INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER WERE
            COMPUTED AS NEARLY STEADY-STATE VALUES BY THE PROGRAM.


                                  LAYER  1
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                     TYPE 1 - VERTICAL PERCOLATION LAYER
                         MATERIAL TEXTURE NUMBER   6
          THICKNESS                  =     36.00   INCHES
          POROSITY                   =      0.4530 VOL/VOL
          FIELD CAPACITY             =      0.1900 VOL/VOL
          WILTING POINT              =      0.0850 VOL/VOL
          INITIAL SOIL WATER CONTENT =      0.2219 VOL/VOL
          EFFECTIVE SAT. HYD. COND.  =  0.720000010915E-03 CM/SEC
        NOTE:  SATURATED HYDRAULIC CONDUCTIVITY IS MULTIPLIED BY  4.63
                FOR ROOT CHANNELS IN TOP HALF OF EVAPORATIVE ZONE.
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LAYER 2

TYPE 2 - LATERAL DRAINAGE LAYER
MATERIAL TEXTURE NUMBER 20

THICKNESS	=	0.07	INCHES
POROSITY	=	0.8500	VOL/VOL
FIELD CAPACITY	=	0.0100	VOL/VOL
WILTING POINT	=	0.0050	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0661	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	10.0000000000	CM/SEC
SLOPE	=	5.00	PERCENT
DRAINAGE LENGTH	=	200.0	FEET

LAYER 3

TYPE 4 - FLEXIBLE MEMBRANE LINER
MATERIAL TEXTURE NUMBER 36

THICKNESS	=	0.04	INCHES
POROSITY	=	0.0000	VOL/VOL
FIELD CAPACITY	=	0.0000	VOL/VOL
WILTING POINT	=	0.0000	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0000	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.399999992981E-12	CM/SEC
FML PINHOLE DENSITY	=	4.00	HOLES/ACRE
FML INSTALLATION DEFECTS	=	4.00	HOLES/ACRE
FML PLACEMENT QUALITY	=	3 - GOOD	

LAYER 4

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 30

THICKNESS	=	360.00	INCHES
POROSITY	=	0.5410	VOL/VOL
FIELD CAPACITY	=	0.1870	VOL/VOL
WILTING POINT	=	0.0470	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.1870	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.499999987369E-04	CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS COMPUTED FROM DEFAULT SOIL DATA BASE USING SOIL TEXTURE # 6 WITH A GOOD STAND OF GRASS, A SURFACE SLOPE OF 2.% AND A SLOPE LENGTH OF 200. FEET.

SCS RUNOFF CURVE NUMBER	=	61.65	
FRACTION OF AREA ALLOWING RUNOFF	=	100.0	PERCENT

AREA PROJECTED ON HORIZONTAL PLANE	=	1.000	ACRES
EVAPORATIVE ZONE DEPTH	=	18.0	INCHES
INITIAL WATER IN EVAPORATIVE ZONE	=	3.549	INCHES
UPPER LIMIT OF EVAPORATIVE STORAGE	=	8.154	INCHES
LOWER LIMIT OF EVAPORATIVE STORAGE	=	1.530	INCHES
INITIAL SNOW WATER	=	0.000	INCHES
INITIAL WATER IN LAYER MATERIALS	=	75.315	INCHES
TOTAL INITIAL WATER	=	75.315	INCHES
TOTAL SUBSURFACE INFLOW	=	0.00	INCHES/YEAR

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM
EVANSVILLE INDIANA

STATION LATITUDE	=	38.03	DEGREES
MAXIMUM LEAF AREA INDEX	=	3.50	
START OF GROWING SEASON (JULIAN DATE)	=	96	
END OF GROWING SEASON (JULIAN DATE)	=	300	
EVAPORATIVE ZONE DEPTH	=	18.0	INCHES
AVERAGE ANNUAL WIND SPEED	=	8.20	MPH
AVERAGE 1ST QUARTER RELATIVE HUMIDITY	=	70.00	%
AVERAGE 2ND QUARTER RELATIVE HUMIDITY	=	67.00	%
AVERAGE 3RD QUARTER RELATIVE HUMIDITY	=	72.00	%
AVERAGE 4TH QUARTER RELATIVE HUMIDITY	=	54.00	%

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR EVANSVILLE INDIANA

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
2.99	3.02	4.58	4.08	4.37	3.50
3.98	3.07	2.67	2.48	3.36	3.45

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR EVANSVILLE INDIANA

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
30.80	34.90	44.60	56.50	65.60	74.60
78.10	76.20	69.40	57.30	45.10	35.60

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR EVANSVILLE INDIANA
AND STATION LATITUDE = 38.03 DEGREES

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AVERAGE MONTHLY VALUES IN INCHES FOR YEARS 1 THROUGH 30

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION						
TOTALS	2.73	2.87	4.85	3.91	4.25	3.43
	3.99	3.22	2.58	1.85	2.78	3.79
STD. DEVIATIONS	1.64	1.24	2.10	1.57	1.63	1.58
	1.90	2.21	1.58	1.00	2.03	2.07
RUNOFF						
TOTALS	0.501	0.945	0.381	0.000	0.000	0.000
	0.001	0.002	0.000	0.000	0.002	0.025
STD. DEVIATIONS	0.808	1.065	0.813	0.001	0.000	0.000
	0.005	0.009	0.000	0.000	0.014	0.096
EVAPOTRANSPIRATION						
TOTALS	0.642	0.720	2.340	3.610	4.445	3.628
	3.867	2.831	2.275	1.136	1.235	1.107
STD. DEVIATIONS	0.266	0.499	0.449	0.599	0.843	1.338
	1.659	1.525	0.914	0.464	0.411	0.277
LATERAL DRAINAGE COLLECTED FROM LAYER 2						
TOTALS	1.4694	0.8914	2.9608	1.4490	0.6816	0.3690
	0.2659	0.1092	0.1803	0.2311	0.6165	1.3213
STD. DEVIATIONS	1.4644	0.9078	1.5719	1.0067	0.7945	0.3864
	0.4801	0.1526	0.4560	0.5444	1.3541	1.3047
LATERAL DRAINAGE RECIRCULATED FROM LAYER 2						
TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 3						
TOTALS	0.0001	0.0000	0.0005	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0002	0.0003
STD. DEVIATIONS	0.0001	0.0000	0.0012	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0011	0.0010
PERCOLATION/LEAKAGE THROUGH LAYER 4						
TOTALS	0.0001	0.0000	0.0005	0.0001	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0002	0.0003

STD. DEVIATIONS	0.0004	0.0001	0.0011	0.0002	0.0001	0.0001
	0.0001	0.0000	0.0001	0.0000	0.0010	0.0007

AVERAGES OF MONTHLY AVERAGED DAILY HEADS (INCHES)

DAILY AVERAGE HEAD ON TOP OF LAYER 3

AVERAGES	0.0034	0.0022	0.0443	0.0034	0.0016	0.0009
	0.0006	0.0002	0.0004	0.0005	0.0216	0.0325
STD. DEVIATIONS	0.0033	0.0023	0.1181	0.0024	0.0018	0.0009
	0.0011	0.0003	0.0011	0.0012	0.1129	0.0979

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AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 30

	INCHES		CU. FEET	PERCENT
PRECIPITATION	40.25	(5.680)	146119.6	100.00
RUNOFF	1.856	(1.8606)	6738.78	4.612
EVAPOTRANSPIRATION	27.837	(3.0850)	101047.07	69.154
LATERAL DRAINAGE COLLECTED FROM LAYER 2	10.54562	(3.87392)	38280.613	26.19813
DRAINAGE RECIRCULATED FROM LAYER 2	0.00000	(0.00000)	0.000	0.00000
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.00130	(0.00174)	4.714	0.00323
AVERAGE HEAD ON TOP OF LAYER 3	0.009	(0.015)		
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.00129	(0.00178)	4.701	0.00322
CHANGE IN WATER STORAGE	0.013	(1.6594)	48.44	0.033

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PEAK DAILY VALUES FOR YEARS 1 THROUGH 30

	(INCHES)	(CU. FT.)
PRECIPITATION	4.14	15028.199
RUNOFF	2.329	8455.8760
DRAINAGE COLLECTED FROM LAYER 2	0.99999	3629.96997
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.003220	11.68976
AVERAGE HEAD ON TOP OF LAYER 3	10.248	
MAXIMUM HEAD ON TOP OF LAYER 3	15.996	
LOCATION OF MAXIMUM HEAD IN LAYER 2 (DISTANCE FROM DRAIN)	43.5 FEET	
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.001339	4.86125
SNOW WATER	2.92	10600.9404

MAXIMUM VEG. SOIL WATER (VOL/VOL)	0.3952
MINIMUM VEG. SOIL WATER (VOL/VOL)	0.0850

*** Maximum heads are computed using McEnroe's equations. ***

Reference: Maximum Saturated Depth over Landfill Liner
by Bruce M. McEnroe, University of Kansas
ASCE Journal of Environmental Engineering
Vol. 119, No. 2, March 1993, pp. 262-270.

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FINAL WATER STORAGE AT END OF YEAR 30

LAYER	(INCHES)	(VOL/VOL)
1	8.3908	0.2331
2	0.0042	0.0599
3	0.0000	0.0000
4	67.3199	0.1870
SNOW WATER	0.000	

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