

TYPE 2 - LATERAL DRAINAGE LAYER
MATERIAL TEXTURE NUMBER 43
THICKNESS = 45.00 CM
POROSITY = 0.4370 VOL/VOL
FIELD CAPACITY = 0.0620 VOL/VOL
WILTING POINT = 0.0240 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.0620 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.700000022000E-02 CM/SEC
SLOPE = 33.00 PERCENT
DRAINAGE LENGTH = 50.0 METERS

LAYER 3

TYPE 4 - FLEXIBLE MEMBRANE LINER
MATERIAL TEXTURE NUMBER 37
THICKNESS = 0.10 CM
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. = 0.199999999000E-10 CM/SEC
FML PINHOLE DENSITY = 2.00 HOLES/HECTARE
FML INSTALLATION DEFECTS = 2.50 HOLES/HECTARE
FML PLACEMENT QUALITY = 3 - GOOD

LAYER 4

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 43
THICKNESS = 60.00 CM
POROSITY = 0.4370 VOL/VOL
FIELD CAPACITY = 0.0620 VOL/VOL
WILTING POINT = 0.0240 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.0620 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.700000022000E-02 CM/SEC

LAYER 5

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 0
THICKNESS = 3700.00 CM
POROSITY = 0.6000 VOL/VOL
FIELD CAPACITY = 0.2600 VOL/VOL
WILTING POINT = 0.0770 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.2600 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000005000E-02 CM/SEC

TYPE 2 - LATERAL DRAINAGE LAYER

MATERIAL TEXTURE NUMBER 1

THICKNESS	=	50.00	CM
POROSITY	=	0.4170	VOL/VOL
FIELD CAPACITY	=	0.0450	VOL/VOL
WILTING POINT	=	0.0180	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0527	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999978000E-02	CM/SEC
SLOPE	=	2.00	PERCENT
DRAINAGE LENGTH	=	75.0	METERS

LAYER 7

TYPE 4 - FLEXIBLE MEMBRANE LINER

MATERIAL TEXTURE NUMBER 35

THICKNESS	=	0.20	CM
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.	=	0.199999996000E-12	CM/SEC
FML PINHOLE DENSITY	=	0.00	HOLES/HECTARE
FML INSTALLATION DEFECTS	=	0.00	HOLES/HECTARE
FML PLACEMENT QUALITY	=	2	- EXCELLENT

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS COMPUTED FROM DEFAULT
SOIL DATA BASE USING SOIL TEXTURE # 4 WITH A
FAIR STAND OF GRASS, A SURFACE SLOPE OF 33.%
AND A SLOPE LENGTH OF 50. METERS.

SCS RUNOFF CURVE NUMBER	=	64.20	
FRACTION OF AREA ALLOWING RUNOFF	=	100.0	PERCENT
AREA PROJECTED ON HORIZONTAL PLANE	=	1.0000	HECTARES
EVAPORATIVE ZONE DEPTH	=	14.0	CM
INITIAL WATER IN EVAPORATIVE ZONE	=	1.470	CM
UPPER LIMIT OF EVAPORATIVE STORAGE	=	6.118	CM
LOWER LIMIT OF EVAPORATIVE STORAGE	=	0.658	CM
INITIAL SNOW WATER	=	0.000	CM
INITIAL WATER IN LAYER MATERIALS	=	972.720	CM
TOTAL INITIAL WATER	=	972.720	CM
TOTAL SUBSURFACE INFLOW	=	0.00	MM/YR

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM

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 BERTHIERVILLE QUEBEC

STATION LATITUDE = 46.00 DEGREES
 MAXIMUM LEAF AREA INDEX = 1.00
 START OF GROWING SEASON (JULIAN DATE) = 120
 END OF GROWING SEASON (JULIAN DATE) = 300
 EVAPORATIVE ZONE DEPTH = 14.0 CM
 AVERAGE ANNUAL WIND SPEED = 15.00 KPH
 AVERAGE 1ST QUARTER RELATIVE HUMIDITY = 70.00 %
 AVERAGE 2ND QUARTER RELATIVE HUMIDITY = 66.00 %
 AVERAGE 3RD QUARTER RELATIVE HUMIDITY = 71.00 %
 AVERAGE 4TH QUARTER RELATIVE HUMIDITY = 75.00 %

NOTE: PRECIPITATION DATA FOR BERTHIERVILLE QUEBEC
 WAS ENTERED BY THE USER.

NOTE: TEMPERATURE DATA FOR BERTHIERVILLE QUEBEC
 WAS ENTERED BY THE USER.

NOTE: SOLAR RADIATION DATA FOR BERTHIERVILLE QUEBEC
 WAS ENTERED BY THE USER.

ANNUAL TOTALS FOR YEAR 1

	MM	CU. METERS	PERCENT
PRECIPITATION	1139.20	11391.995	100.00
RUNOFF	169.006	1690.056	14.84
EVAPOTRANSPIRATION	472.256	4722.562	41.46
DRAINAGE COLLECTED FROM LAYER 2	390.1062	3901.062	34.24
PERC./LEAKAGE THROUGH LAYER 3	6.162285	61.623	0.54
AVG. HEAD ON TOP OF LAYER 3	14.7862		
DRAINAGE COLLECTED FROM LAYER 6	1.9123	19.123	0.17
PERC./LEAKAGE THROUGH LAYER 7	0.000068	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	1.1442		
CHANGE IN WATER STORAGE	105.920	1059.200	9.30
SOIL WATER AT START OF YEAR	9765.386	97653.859	
SOIL WATER AT END OF YEAR	9792.735	97927.352	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	78.570	785.705	6.90

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PERC./LEAKAGE THROUGH LAYER 3	3.825287	38.253	0.43
AVG. HEAD ON TOP OF LAYER 3	8.0917		
DRAINAGE COLLECTED FROM LAYER 6	0.2964	2.964	0.03
PERC./LEAKAGE THROUGH LAYER 7	0.000063	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	0.1765		
CHANGE IN WATER STORAGE	-14.703	-147.034	-1.65
SOIL WATER AT START OF YEAR	9784.274	97842.750	
SOIL WATER AT END OF YEAR	9785.962	97859.625	
SNOW WATER AT START OF YEAR	72.758	727.577	8.19
SNOW WATER AT END OF YEAR	56.367	563.668	6.34
ANNUAL WATER BUDGET BALANCE	-0.0005	-0.005	0.00

ANNUAL TOTALS FOR YEAR 4

	MM	CU. METERS	PERCENT
PRECIPITATION	1090.10	10901.002	100.00
RUNOFF	193.710	1937.104	17.77
EVAPOTRANSPIRATION	479.102	4791.016	43.95
DRAINAGE COLLECTED FROM LAYER 2	370.7128	3707.128	34.01
PERC./LEAKAGE THROUGH LAYER 3	5.917034	59.170	0.54
AVG. HEAD ON TOP OF LAYER 3	14.0584		
DRAINAGE COLLECTED FROM LAYER 6	0.3005	3.005	0.03
PERC./LEAKAGE THROUGH LAYER 7	0.000063	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	0.1785		
CHANGE IN WATER STORAGE	46.274	462.736	4.24
SOIL WATER AT START OF YEAR	9785.962	97859.625	
SOIL WATER AT END OF YEAR	9793.012	97930.125	
SNOW WATER AT START OF YEAR	56.367	563.668	5.17
SNOW WATER AT END OF YEAR	95.590	955.905	8.77
ANNUAL WATER BUDGET BALANCE	0.0012	0.012	0.00

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ANNUAL TOTALS FOR YEAR 5

	MM	CU. METERS	PERCENT
PRECIPITATION	1001.50	10014.998	100.00
RUNOFF	270.952	2709.517	27.05
EVAPOTRANSPIRATION	477.367	4773.675	47.67
DRAINAGE COLLECTED FROM LAYER 2	304.0975	3040.975	30.36
PERC./LEAKAGE THROUGH LAYER 3	5.196664	51.967	0.52
AVG. HEAD ON TOP OF LAYER 3	11.5712		
DRAINAGE COLLECTED FROM LAYER 6	0.5234	5.234	0.05
PERC./LEAKAGE THROUGH LAYER 7	0.000063	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	0.3109		
CHANGE IN WATER STORAGE	-51.439	-514.385	-5.14
SOIL WATER AT START OF YEAR	9793.012	97930.117	
SOIL WATER AT END OF YEAR	9799.448	97994.484	
SNOW WATER AT START OF YEAR	95.590	955.905	9.54
SNOW WATER AT END OF YEAR	37.715	377.152	3.77
ANNUAL WATER BUDGET BALANCE	-0.0018	-0.018	0.00

ANNUAL TOTALS FOR YEAR 6

	MM	CU. METERS	PERCENT
PRECIPITATION	1039.90	10398.997	100.00
RUNOFF	164.141	1641.411	15.78
EVAPOTRANSPIRATION	487.331	4873.310	46.86
DRAINAGE COLLECTED FROM LAYER 2	342.6525	3426.525	32.95
PERC./LEAKAGE THROUGH LAYER 3	5.585365	55.854	0.54
AVG. HEAD ON TOP OF LAYER 3	13.0326		

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DRAINAGE COLLECTED FROM LAYER 6	3.4094	34.094	0.33
PERC./LEAKAGE THROUGH LAYER 7	0.000082	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	2.0193		
CHANGE IN WATER STORAGE	42.366	423.662	4.07
SOIL WATER AT START OF YEAR	9799.448	97994.484	
SOIL WATER AT END OF YEAR	9798.485	97984.852	
SNOW WATER AT START OF YEAR	37.715	377.152	3.63
SNOW WATER AT END OF YEAR	81.044	810.441	7.79
ANNUAL WATER BUDGET BALANCE	-0.0005	-0.005	0.00

ANNUAL TOTALS FOR YEAR 7

	MM	CU. METERS	PERCENT
PRECIPITATION	1069.00	10690.000	100.00
RUNOFF	291.669	2916.685	27.28
EVAPOTRANSPIRATION	457.186	4571.861	42.77
DRAINAGE COLLECTED FROM LAYER 2	316.4224	3164.224	29.60
PERC./LEAKAGE THROUGH LAYER 3	4.981159	49.812	0.47
AVG. HEAD ON TOP OF LAYER 3	12.0740		
DRAINAGE COLLECTED FROM LAYER 6	5.2149	52.149	0.49
PERC./LEAKAGE THROUGH LAYER 7	0.000099	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	3.0961		
CHANGE IN WATER STORAGE	-1.493	-14.934	-0.14
SOIL WATER AT START OF YEAR	9798.485	97984.852	
SOIL WATER AT END OF YEAR	9799.773	97997.727	
SNOW WATER AT START OF YEAR	81.044	810.441	7.58
SNOW WATER AT END OF YEAR	78.263	782.632	7.32
ANNUAL WATER BUDGET BALANCE	0.0015	0.015	0.00

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ANNUAL TOTALS FOR YEAR 8

	MM	CU. METERS	PERCENT
PRECIPITATION	902.40	9023.998	100.00
RUNOFF	282.541	2825.413	31.31
EVAPOTRANSPIRATION	374.855	3748.553	41.54
DRAINAGE COLLECTED FROM LAYER 2	229.3323	2293.323	25.41
PERC./LEAKAGE THROUGH LAYER 3	3.993779	39.938	0.44
AVG. HEAD ON TOP OF LAYER 3	8.6995		
DRAINAGE COLLECTED FROM LAYER 6	5.0914	50.914	0.56
PERC./LEAKAGE THROUGH LAYER 7	0.000096	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	3.0225		
CHANGE IN WATER STORAGE	10.580	105.795	1.17
SOIL WATER AT START OF YEAR	9799.773	97997.734	
SOIL WATER AT END OF YEAR	9798.590	97985.898	
SNOW WATER AT START OF YEAR	78.263	782.632	8.67
SNOW WATER AT END OF YEAR	90.026	900.263	9.98
ANNUAL WATER BUDGET BALANCE	-0.0001	-0.001	0.00

ANNUAL TOTALS FOR YEAR 9

	MM	CU. METERS	PERCENT
PRECIPITATION	935.70	9356.997	100.00
RUNOFF	233.991	2339.911	25.01
EVAPOTRANSPIRATION	428.377	4283.766	45.78
DRAINAGE COLLECTED FROM LAYER 2	273.6976	2736.976	29.25
PERC./LEAKAGE THROUGH LAYER 3	4.550033	45.500	0.49
AVG. HEAD ON TOP OF LAYER 3	10.4197		
DRAINAGE COLLECTED FROM LAYER 6	4.7561	47.561	0.51

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 PERC./LEAKAGE THROUGH LAYER 7 0.000089 0.001 0.00

AVG. HEAD ON TOP OF LAYER 7	2.8304		
CHANGE IN WATER STORAGE	-5.121	-51.213	-0.55
SOIL WATER AT START OF YEAR	9798.590	97985.898	
SOIL WATER AT END OF YEAR	9799.412	97994.125	
SNOW WATER AT START OF YEAR	90.026	900.263	9.62
SNOW WATER AT END OF YEAR	84.083	840.826	8.99
ANNUAL WATER BUDGET BALANCE	-0.0005	-0.005	0.00

ANNUAL TOTALS FOR YEAR 10

	MM	CU. METERS	PERCENT
PRECIPITATION	728.90	7289.000	100.00
RUNOFF	254.959	2549.590	34.98
EVAPOTRANSPIRATION	336.366	3363.660	46.15
DRAINAGE COLLECTED FROM LAYER 2	108.9941	1089.941	14.95
PERC./LEAKAGE THROUGH LAYER 3	2.200447	22.004	0.30
AVG. HEAD ON TOP OF LAYER 3	4.1578		
DRAINAGE COLLECTED FROM LAYER 6	4.6173	46.173	0.63
PERC./LEAKAGE THROUGH LAYER 7	0.000087	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	2.7475		
CHANGE IN WATER STORAGE	23.964	239.644	3.29
SOIL WATER AT START OF YEAR	9799.412	97994.117	
SOIL WATER AT END OF YEAR	9816.470	98164.695	
SNOW WATER AT START OF YEAR	84.083	840.826	11.54
SNOW WATER AT END OF YEAR	90.989	909.892	12.48
ANNUAL WATER BUDGET BALANCE	-0.0008	-0.008	0.00

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ANNUAL TOTALS FOR YEAR 11

	MM	CU. METERS	PERCENT
PRECIPITATION	878.70	8787.000	100.00
RUNOFF	271.487	2714.869	30.90
EVAPOTRANSPIRATION	337.046	3370.461	38.36
DRAINAGE COLLECTED FROM LAYER 2	285.7832	2857.832	32.52
PERC./LEAKAGE THROUGH LAYER 3	4.664265	46.643	0.53
AVG. HEAD ON TOP OF LAYER 3	10.8727		
DRAINAGE COLLECTED FROM LAYER 6	4.2783	42.783	0.49
PERC./LEAKAGE THROUGH LAYER 7	0.000080	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	2.5461		
CHANGE IN WATER STORAGE	-19.894	-198.945	-2.26
SOIL WATER AT START OF YEAR	9816.470	98164.695	
SOIL WATER AT END OF YEAR	9797.143	97971.422	
SNOW WATER AT START OF YEAR	90.989	909.892	10.35
SNOW WATER AT END OF YEAR	90.422	904.222	10.29
ANNUAL WATER BUDGET BALANCE	-0.0001	-0.001	0.00

ANNUAL TOTALS FOR YEAR 12

	MM	CU. METERS	PERCENT
PRECIPITATION	1002.20	10021.999	100.00
RUNOFF	322.036	3220.363	32.13
EVAPOTRANSPIRATION	405.731	4057.312	40.48
DRAINAGE COLLECTED FROM LAYER 2	310.0819	3100.819	30.94
PERC./LEAKAGE THROUGH LAYER 3	4.926052	49.261	0.49
AVG. HEAD ON TOP OF LAYER 3	11.7972		
DRAINAGE COLLECTED FROM LAYER 6	3.4008	34.008	0.34
PERC./LEAKAGE THROUGH LAYER 7	0.000071	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	2.0198		

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CHANGE IN WATER STORAGE	-39.052	-390.516	-3.90
SOIL WATER AT START OF YEAR	9797.143	97971.430	
SOIL WATER AT END OF YEAR	9799.038	97990.383	
SNOW WATER AT START OF YEAR	90.422	904.222	9.02
SNOW WATER AT END OF YEAR	49.475	494.753	4.94
ANNUAL WATER BUDGET BALANCE	0.0011	0.011	0.00

ANNUAL TOTALS FOR YEAR 13

	MM	CU. METERS	PERCENT
PRECIPITATION	763.00	7630.000	100.00
RUNOFF	147.480	1474.798	19.33
EVAPOTRANSPIRATION	388.882	3888.816	50.97
DRAINAGE COLLECTED FROM LAYER 2	149.9259	1499.259	19.65
PERC./LEAKAGE THROUGH LAYER 3	2.821634	28.216	0.37
AVG. HEAD ON TOP OF LAYER 3	5.6986		
DRAINAGE COLLECTED FROM LAYER 6	3.7067	37.067	0.49
PERC./LEAKAGE THROUGH LAYER 7	0.000075	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	2.2065		
CHANGE IN WATER STORAGE	73.006	730.061	9.57
SOIL WATER AT START OF YEAR	9799.038	97990.383	
SOIL WATER AT END OF YEAR	9810.821	98108.211	
SNOW WATER AT START OF YEAR	49.475	494.753	6.48
SNOW WATER AT END OF YEAR	110.698	1106.984	14.51
ANNUAL WATER BUDGET BALANCE	0.0000	0.000	0.00

ANNUAL TOTALS FOR YEAR 14

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	MM	CU. METERS	PERCENT
PRECIPITATION	1040.70	10407.001	100.00
RUNOFF	295.261	2952.614	28.37
EVAPOTRANSPIRATION	448.171	4481.710	43.06
DRAINAGE COLLECTED FROM LAYER 2	294.0793	2940.792	28.26
PERC./LEAKAGE THROUGH LAYER 3	4.379872	43.799	0.42
AVG. HEAD ON TOP OF LAYER 3	11.0509		
DRAINAGE COLLECTED FROM LAYER 6	4.6018	46.018	0.44
PERC./LEAKAGE THROUGH LAYER 7	0.000086	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	2.7388		
CHANGE IN WATER STORAGE	-1.414	-14.142	-0.14
SOIL WATER AT START OF YEAR	9810.821	98108.211	
SOIL WATER AT END OF YEAR	9822.380	98223.805	
SNOW WATER AT START OF YEAR	110.698	1106.984	10.64
SNOW WATER AT END OF YEAR	97.725	977.253	9.39
ANNUAL WATER BUDGET BALANCE	0.0006	0.006	0.00

ANNUAL TOTALS FOR YEAR 15

	MM	CU. METERS	PERCENT
PRECIPITATION	896.00	8960.000	100.00
RUNOFF	262.644	2626.441	29.31
EVAPOTRANSPIRATION	429.797	4297.965	47.97
DRAINAGE COLLECTED FROM LAYER 2	221.0289	2210.289	24.67
PERC./LEAKAGE THROUGH LAYER 3	3.853342	38.533	0.43
AVG. HEAD ON TOP OF LAYER 3	8.4178		
DRAINAGE COLLECTED FROM LAYER 6	3.6489	36.489	0.41
PERC./LEAKAGE THROUGH LAYER 7	0.000072	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	2.1701		
CHANGE IN WATER STORAGE	-21.119	-211.187	-2.36

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 SOIL WATER AT START OF YEAR 9822.380 98223.805

SOIL WATER AT END OF YEAR 9797.874 97978.742
 SNOW WATER AT START OF YEAR 97.725 977.253 10.91
 SNOW WATER AT END OF YEAR 101.113 1011.128 11.28
 ANNUAL WATER BUDGET BALANCE 0.0003 0.003 0.00

ANNUAL TOTALS FOR YEAR 16

	MM	CU. METERS	PERCENT
PRECIPITATION	1126.30	11263.000	100.00
RUNOFF	322.390	3223.903	28.62
EVAPOTRANSPIRATION	489.446	4894.461	43.46
DRAINAGE COLLECTED FROM LAYER 2	373.1359	3731.359	33.13
PERC./LEAKAGE THROUGH LAYER 3	5.891086	58.911	0.52
AVG. HEAD ON TOP OF LAYER 3	14.1573		
DRAINAGE COLLECTED FROM LAYER 6	3.9181	39.181	0.35
PERC./LEAKAGE THROUGH LAYER 7	0.000075	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	2.3259		
CHANGE IN WATER STORAGE	-62.589	-625.895	-5.56
SOIL WATER AT START OF YEAR	9797.874	97978.742	
SOIL WATER AT END OF YEAR	9797.776	97977.766	
SNOW WATER AT START OF YEAR	101.113	1011.128	8.98
SNOW WATER AT END OF YEAR	38.621	386.210	3.43
ANNUAL WATER BUDGET BALANCE	-0.0009	-0.009	0.00

ANNUAL TOTALS FOR YEAR 17

	MM	CU. METERS	PERCENT
PRECIPITATION	1027.90	10279.000	100.00

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RUNOFF	157.661	1576.606	15.34
EVAPOTRANSPIRATION	449.260	4492.598	43.71
DRAINAGE COLLECTED FROM LAYER 2	280.9669	2809.669	27.33
PERC./LEAKAGE THROUGH LAYER 3	4.824925	48.249	0.47
AVG. HEAD ON TOP OF LAYER 3	10.6349		
DRAINAGE COLLECTED FROM LAYER 6	4.2317	42.317	0.41
PERC./LEAKAGE THROUGH LAYER 7	0.000081	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	2.5201		
CHANGE IN WATER STORAGE	135.781	1357.806	13.21
SOIL WATER AT START OF YEAR	9797.776	97977.766	
SOIL WATER AT END OF YEAR	9800.916	98009.164	
SNOW WATER AT START OF YEAR	38.621	386.210	3.76
SNOW WATER AT END OF YEAR	171.261	1712.615	16.66
ANNUAL WATER BUDGET BALANCE	0.0004	0.004	0.00

ANNUAL TOTALS FOR YEAR 18

	MM	CU. METERS	PERCENT
PRECIPITATION	936.60	9366.001	100.00
RUNOFF	280.943	2809.429	30.00
EVAPOTRANSPIRATION	474.177	4741.768	50.63
DRAINAGE COLLECTED FROM LAYER 2	318.9164	3189.164	34.05
PERC./LEAKAGE THROUGH LAYER 3	5.307423	53.074	0.57
AVG. HEAD ON TOP OF LAYER 3	12.1357		
DRAINAGE COLLECTED FROM LAYER 6	5.2527	52.527	0.56
PERC./LEAKAGE THROUGH LAYER 7	0.000099	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	3.1187		
CHANGE IN WATER STORAGE	-142.689	-1426.894	-15.23
SOIL WATER AT START OF YEAR	9800.916	98009.164	
SOIL WATER AT END OF YEAR	9796.624	97966.234	

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SNOW WATER AT START OF YEAR	171.261	1712.615	18.29
SNOW WATER AT END OF YEAR	32.865	328.648	3.51
ANNUAL WATER BUDGET BALANCE	0.0007	0.007	0.00

ANNUAL TOTALS FOR YEAR 19

	MM	CU. METERS	PERCENT
PRECIPITATION	1084.00	10840.001	100.00
RUNOFF	277.045	2770.448	25.56
EVAPOTRANSPIRATION	452.982	4529.825	41.79
DRAINAGE COLLECTED FROM LAYER 2	260.5374	2605.373	24.03
PERC./LEAKAGE THROUGH LAYER 3	4.462150	44.621	0.41
AVG. HEAD ON TOP OF LAYER 3	9.9216		
DRAINAGE COLLECTED FROM LAYER 6	5.0951	50.951	0.47
PERC./LEAKAGE THROUGH LAYER 7	0.000096	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	3.0278		
CHANGE IN WATER STORAGE	88.340	883.398	8.15
SOIL WATER AT START OF YEAR	9796.624	97966.242	
SOIL WATER AT END OF YEAR	9823.224	98232.234	
SNOW WATER AT START OF YEAR	32.865	328.648	3.03
SNOW WATER AT END OF YEAR	94.605	946.055	8.73
ANNUAL WATER BUDGET BALANCE	0.0005	0.005	0.00

ANNUAL TOTALS FOR YEAR 20

	MM	CU. METERS	PERCENT
PRECIPITATION	1040.10	10400.997	100.00
RUNOFF	355.115	3551.150	34.14

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 EVAPOTRANSPIRATION 449.929 4499.293 43.26

DRAINAGE COLLECTED FROM LAYER 2	262.4872	2624.873	25.24
PERC./LEAKAGE THROUGH LAYER 3	4.358521	43.585	0.42
AVG. HEAD ON TOP OF LAYER 3	9.9858		
DRAINAGE COLLECTED FROM LAYER 6	5.0482	50.482	0.49
PERC./LEAKAGE THROUGH LAYER 7	0.000095	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	2.9929		
CHANGE IN WATER STORAGE	-32.480	-324.805	-3.12
SOIL WATER AT START OF YEAR	9823.224	98232.234	
SOIL WATER AT END OF YEAR	9792.524	97925.242	
SNOW WATER AT START OF YEAR	94.605	946.055	9.10
SNOW WATER AT END OF YEAR	92.824	928.239	8.92
ANNUAL WATER BUDGET BALANCE	0.0002	0.002	0.00

ANNUAL TOTALS FOR YEAR 21

	MM	CU. METERS	PERCENT
PRECIPITATION	927.70	9276.999	100.00
RUNOFF	248.524	2485.243	26.79
EVAPOTRANSPIRATION	430.834	4308.338	46.44
DRAINAGE COLLECTED FROM LAYER 2	240.9674	2409.674	25.97
PERC./LEAKAGE THROUGH LAYER 3	4.072863	40.729	0.44
AVG. HEAD ON TOP OF LAYER 3	9.1788		
DRAINAGE COLLECTED FROM LAYER 6	4.7359	47.359	0.51
PERC./LEAKAGE THROUGH LAYER 7	0.000089	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	2.8165		
CHANGE IN WATER STORAGE	2.639	26.386	0.28
SOIL WATER AT START OF YEAR	9792.524	97925.242	
SOIL WATER AT END OF YEAR	9797.295	97972.945	
SNOW WATER AT START OF YEAR	92.824	928.239	10.01

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 SNOW WATER AT END OF YEAR 90.692 906.923 9.78

ANNUAL WATER BUDGET BALANCE -0.0001 -0.001 0.00

ANNUAL TOTALS FOR YEAR 22

	MM	CU. METERS	PERCENT
PRECIPITATION	892.60	8925.996	100.00
RUNOFF	247.897	2478.969	27.77
EVAPOTRANSPIRATION	428.908	4289.076	48.05
DRAINAGE COLLECTED FROM LAYER 2	240.7681	2407.681	26.97
PERC./LEAKAGE THROUGH LAYER 3	4.022227	40.222	0.45
AVG. HEAD ON TOP OF LAYER 3	9.1239		
DRAINAGE COLLECTED FROM LAYER 6	4.3491	43.491	0.49
PERC./LEAKAGE THROUGH LAYER 7	0.000083	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	2.5935		
CHANGE IN WATER STORAGE	-29.321	-293.213	-3.28
SOIL WATER AT START OF YEAR	9797.295	97972.945	
SOIL WATER AT END OF YEAR	9798.470	97984.703	
SNOW WATER AT START OF YEAR	90.692	906.923	10.16
SNOW WATER AT END OF YEAR	60.196	601.959	6.74
ANNUAL WATER BUDGET BALANCE	-0.0011	-0.011	0.00

ANNUAL TOTALS FOR YEAR 23

	MM	CU. METERS	PERCENT
PRECIPITATION	828.90	8289.000	100.00
RUNOFF	236.133	2361.326	28.49
EVAPOTRANSPIRATION	342.262	3422.624	41.29
DRAINAGE COLLECTED FROM LAYER 2	202.3996	2023.996	24.42

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PERC./LEAKAGE THROUGH LAYER 3	3.562953	35.630	0.43
AVG. HEAD ON TOP OF LAYER 3	7.6145		
DRAINAGE COLLECTED FROM LAYER 6	4.1607	41.607	0.50
PERC./LEAKAGE THROUGH LAYER 7	0.000079	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	2.4722		
CHANGE IN WATER STORAGE	43.944	439.438	5.30
SOIL WATER AT START OF YEAR	9798.470	97984.703	
SOIL WATER AT END OF YEAR	9798.980	97989.797	
SNOW WATER AT START OF YEAR	60.196	601.959	7.26
SNOW WATER AT END OF YEAR	103.630	1036.297	12.50
ANNUAL WATER BUDGET BALANCE	0.0006	0.006	0.00

ANNUAL TOTALS FOR YEAR 24

	MM	CU. METERS	PERCENT
PRECIPITATION	959.00	9590.000	100.00
RUNOFF	317.403	3174.027	33.10
EVAPOTRANSPIRATION	282.421	2824.207	29.45
DRAINAGE COLLECTED FROM LAYER 2	346.9507	3469.507	36.18
PERC./LEAKAGE THROUGH LAYER 3	5.351401	53.514	0.56
AVG. HEAD ON TOP OF LAYER 3	13.2241		
DRAINAGE COLLECTED FROM LAYER 6	4.0219	40.219	0.42
PERC./LEAKAGE THROUGH LAYER 7	0.000077	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	2.3882		
CHANGE IN WATER STORAGE	8.204	82.038	0.86
SOIL WATER AT START OF YEAR	9798.980	97989.805	
SOIL WATER AT END OF YEAR	9794.337	97943.367	
SNOW WATER AT START OF YEAR	103.630	1036.297	10.81
SNOW WATER AT END OF YEAR	116.477	1164.774	12.15
ANNUAL WATER BUDGET BALANCE	0.0000	0.000	0.00

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ANNUAL TOTALS FOR YEAR 25

	MM	CU. METERS	PERCENT
PRECIPITATION	959.50	9594.998	100.00
RUNOFF	233.308	2333.081	24.32
EVAPOTRANSPIRATION	475.104	4751.041	49.52
DRAINAGE COLLECTED FROM LAYER 2	248.0689	2480.689	25.85
PERC./LEAKAGE THROUGH LAYER 3	4.335433	43.354	0.45
AVG. HEAD ON TOP OF LAYER 3	9.3835		
DRAINAGE COLLECTED FROM LAYER 6	3.8627	38.627	0.40
PERC./LEAKAGE THROUGH LAYER 7	0.000078	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	2.3011		
CHANGE IN WATER STORAGE	-0.845	-8.446	-0.09
SOIL WATER AT START OF YEAR	9794.337	97943.367	
SOIL WATER AT END OF YEAR	9797.536	97975.359	
SNOW WATER AT START OF YEAR	116.477	1164.774	12.14
SNOW WATER AT END OF YEAR	112.434	1124.337	11.72
ANNUAL WATER BUDGET BALANCE	0.0006	0.006	0.00

ANNUAL TOTALS FOR YEAR 26

	MM	CU. METERS	PERCENT
PRECIPITATION	938.00	9379.998	100.00
RUNOFF	189.462	1894.620	20.20
EVAPOTRANSPIRATION	487.006	4870.062	51.92
DRAINAGE COLLECTED FROM LAYER 2	313.6769	3136.770	33.44
PERC./LEAKAGE THROUGH LAYER 3	5.315801	53.158	0.57

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 AVG. HEAD ON TOP OF LAYER 3 12.0068

DRAINAGE COLLECTED FROM LAYER 6	4.5375	45.375	0.48
PERC./LEAKAGE THROUGH LAYER 7	0.000086	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	2.6976		
CHANGE IN WATER STORAGE	-56.683	-566.826	-6.04
SOIL WATER AT START OF YEAR	9797.536	97975.359	
SOIL WATER AT END OF YEAR	9819.607	98196.078	
SNOW WATER AT START OF YEAR	112.434	1124.337	11.99
SNOW WATER AT END OF YEAR	33.680	336.796	3.59
ANNUAL WATER BUDGET BALANCE	-0.0005	-0.005	0.00

ANNUAL TOTALS FOR YEAR 27

	MM	CU. METERS	PERCENT
PRECIPITATION	814.20	8142.002	100.00
RUNOFF	180.487	1804.871	22.17
EVAPOTRANSPIRATION	425.772	4257.724	52.29
DRAINAGE COLLECTED FROM LAYER 2	237.1685	2371.685	29.13
PERC./LEAKAGE THROUGH LAYER 3	4.267586	42.676	0.52
AVG. HEAD ON TOP OF LAYER 3	9.0192		
DRAINAGE COLLECTED FROM LAYER 6	4.5682	45.682	0.56
PERC./LEAKAGE THROUGH LAYER 7	0.000087	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	2.7176		
CHANGE IN WATER STORAGE	-33.796	-337.958	-4.15
SOIL WATER AT START OF YEAR	9819.607	98196.078	
SOIL WATER AT END OF YEAR	9802.165	98021.648	
SNOW WATER AT START OF YEAR	33.680	336.796	4.14
SNOW WATER AT END OF YEAR	17.326	173.261	2.13
ANNUAL WATER BUDGET BALANCE	-0.0002	-0.002	0.00

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ANNUAL TOTALS FOR YEAR 28

	MM	CU. METERS	PERCENT
PRECIPITATION	1125.50	11254.999	100.00
RUNOFF	292.802	2928.016	26.02
EVAPOTRANSPIRATION	436.044	4360.437	38.74
DRAINAGE COLLECTED FROM LAYER 2	274.8743	2748.742	24.42
PERC./LEAKAGE THROUGH LAYER 3	4.508973	45.090	0.40
AVG. HEAD ON TOP OF LAYER 3	10.4555		
DRAINAGE COLLECTED FROM LAYER 6	4.8747	48.747	0.43
PERC./LEAKAGE THROUGH LAYER 7	0.000091	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	2.8940		
CHANGE IN WATER STORAGE	116.905	1169.052	10.39
SOIL WATER AT START OF YEAR	9802.165	98021.648	
SOIL WATER AT END OF YEAR	9823.294	98232.937	
SNOW WATER AT START OF YEAR	17.326	173.261	1.54
SNOW WATER AT END OF YEAR	113.102	1131.024	10.05
ANNUAL WATER BUDGET BALANCE	0.0003	0.003	0.00

ANNUAL TOTALS FOR YEAR 29

	MM	CU. METERS	PERCENT
PRECIPITATION	1168.10	11680.996	100.00
RUNOFF	330.625	3306.253	28.30
EVAPOTRANSPIRATION	526.702	5267.016	45.09
DRAINAGE COLLECTED FROM LAYER 2	256.6520	2566.520	21.97
PERC./LEAKAGE THROUGH LAYER 3	4.539804	45.398	0.39
AVG. HEAD ON TOP OF LAYER 3	9.7231		
DRAINAGE COLLECTED FROM LAYER 6	4.6745	46.745	0.40

Annexe A - HELP Simul B-3 Celferm-humini26-geo-35ans-pente33%-50m.txt

PERC./LEAKAGE THROUGH LAYER 7	0.000089	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	2.7797		
CHANGE IN WATER STORAGE	49.448	494.477	4.23
SOIL WATER AT START OF YEAR	9823.294	98232.937	
SOIL WATER AT END OF YEAR	9815.435	98154.352	
SNOW WATER AT START OF YEAR	113.102	1131.024	9.68
SNOW WATER AT END OF YEAR	170.409	1704.093	14.59
ANNUAL WATER BUDGET BALANCE	-0.0015	-0.015	0.00

ANNUAL TOTALS FOR YEAR 30

	MM	CU. METERS	PERCENT
PRECIPITATION	759.80	7598.002	100.00
RUNOFF	297.895	2978.948	39.21
EVAPOTRANSPIRATION	351.087	3510.865	46.21
DRAINAGE COLLECTED FROM LAYER 2	185.1036	1851.036	24.36
PERC./LEAKAGE THROUGH LAYER 3	3.280575	32.806	0.43
AVG. HEAD ON TOP OF LAYER 3	7.0674		
DRAINAGE COLLECTED FROM LAYER 6	4.5228	45.228	0.60
PERC./LEAKAGE THROUGH LAYER 7	0.000086	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	2.6866		
CHANGE IN WATER STORAGE	-78.808	-788.080	-10.37
SOIL WATER AT START OF YEAR	9815.435	98154.352	
SOIL WATER AT END OF YEAR	9815.859	98158.594	
SNOW WATER AT START OF YEAR	170.409	1704.093	22.43
SNOW WATER AT END OF YEAR	91.176	911.765	12.00
ANNUAL WATER BUDGET BALANCE	0.0006	0.006	0.00

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ANNUAL TOTALS FOR YEAR 31

	MM	CU. METERS	PERCENT
PRECIPITATION	922.30	9223.000	100.00
RUNOFF	361.836	3618.357	39.23
EVAPOTRANSPIRATION	350.642	3506.422	38.02
DRAINAGE COLLECTED FROM LAYER 2	250.7454	2507.454	27.19
PERC./LEAKAGE THROUGH LAYER 3	4.240982	42.410	0.46
AVG. HEAD ON TOP OF LAYER 3	9.4672		
DRAINAGE COLLECTED FROM LAYER 6	4.5389	45.389	0.49
PERC./LEAKAGE THROUGH LAYER 7	0.000085	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	2.7029		
CHANGE IN WATER STORAGE	-45.462	-454.620	-4.93
SOIL WATER AT START OF YEAR	9815.859	98158.594	
SOIL WATER AT END OF YEAR	9801.680	98016.797	
SNOW WATER AT START OF YEAR	91.176	911.765	9.89
SNOW WATER AT END OF YEAR	59.894	598.943	6.49
ANNUAL WATER BUDGET BALANCE	-0.0003	-0.003	0.00

ANNUAL TOTALS FOR YEAR 32

	MM	CU. METERS	PERCENT
PRECIPITATION	1116.00	11159.999	100.00
RUNOFF	262.529	2625.287	23.52
EVAPOTRANSPIRATION	484.972	4849.716	43.46
DRAINAGE COLLECTED FROM LAYER 2	345.2386	3452.386	30.94
PERC./LEAKAGE THROUGH LAYER 3	5.584383	55.844	0.50
AVG. HEAD ON TOP OF LAYER 3	13.1109		
DRAINAGE COLLECTED FROM LAYER 6	3.7495	37.495	0.34
PERC./LEAKAGE THROUGH LAYER 7	0.000073	0.001	0.00

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 AVG. HEAD ON TOP OF LAYER 7 2.2247

CHANGE IN WATER STORAGE	19.513	195.125	1.75
SOIL WATER AT START OF YEAR	9801.680	98016.797	
SOIL WATER AT END OF YEAR	9801.759	98017.586	
SNOW WATER AT START OF YEAR	59.894	598.943	5.37
SNOW WATER AT END OF YEAR	79.328	793.277	7.11
ANNUAL WATER BUDGET BALANCE	-0.0011	-0.011	0.00

ANNUAL TOTALS FOR YEAR 33

	MM	CU. METERS	PERCENT
PRECIPITATION	931.50	9315.001	100.00
RUNOFF	251.551	2515.514	27.00
EVAPOTRANSPIRATION	364.280	3642.804	39.11
DRAINAGE COLLECTED FROM LAYER 2	235.5162	2355.162	25.28
PERC./LEAKAGE THROUGH LAYER 3	3.960565	39.606	0.43
AVG. HEAD ON TOP OF LAYER 3	8.9172		
DRAINAGE COLLECTED FROM LAYER 6	4.2931	42.931	0.46
PERC./LEAKAGE THROUGH LAYER 7	0.000084	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	2.5530		
CHANGE IN WATER STORAGE	75.858	758.585	8.14
SOIL WATER AT START OF YEAR	9801.759	98017.586	
SOIL WATER AT END OF YEAR	9793.749	97937.484	
SNOW WATER AT START OF YEAR	79.328	793.277	8.52
SNOW WATER AT END OF YEAR	163.197	1631.965	17.52
ANNUAL WATER BUDGET BALANCE	0.0006	0.006	0.00

ANNUAL TOTALS FOR YEAR 34

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	MM	CU. METERS	PERCENT
PRECIPITATION	970.20	9702.001	100.00
RUNOFF	342.921	3429.213	35.35
EVAPOTRANSPIRATION	411.048	4110.479	42.37
DRAINAGE COLLECTED FROM LAYER 2	298.0440	2980.440	30.72
PERC./LEAKAGE THROUGH LAYER 3	4.794726	47.947	0.49
AVG. HEAD ON TOP OF LAYER 3	11.3427		
DRAINAGE COLLECTED FROM LAYER 6	4.8992	48.992	0.50
PERC./LEAKAGE THROUGH LAYER 7	0.000092	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	2.9136		
CHANGE IN WATER STORAGE	-86.713	-867.132	-8.94
SOIL WATER AT START OF YEAR	9793.749	97937.492	
SOIL WATER AT END OF YEAR	9793.861	97938.609	
SNOW WATER AT START OF YEAR	163.197	1631.965	16.82
SNOW WATER AT END OF YEAR	76.372	763.717	7.87
ANNUAL WATER BUDGET BALANCE	0.0008	0.008	0.00

ANNUAL TOTALS FOR YEAR 35

	MM	CU. METERS	PERCENT
PRECIPITATION	1201.70	12016.997	100.00
RUNOFF	221.122	2211.225	18.40
EVAPOTRANSPIRATION	479.784	4797.841	39.93
DRAINAGE COLLECTED FROM LAYER 2	402.0676	4020.676	33.46
PERC./LEAKAGE THROUGH LAYER 3	6.404975	64.050	0.53
AVG. HEAD ON TOP OF LAYER 3	15.2925		
DRAINAGE COLLECTED FROM LAYER 6	4.4334	44.334	0.37
PERC./LEAKAGE THROUGH LAYER 7	0.000085	0.001	0.00
AVG. HEAD ON TOP OF LAYER 7	2.6378		
CHANGE IN WATER STORAGE	94.292	942.920	7.85

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SOIL WATER AT START OF YEAR	9793.861	97938.609	
SOIL WATER AT END OF YEAR	9798.593	97985.930	
SNOW WATER AT START OF YEAR	76.372	763.717	6.36
SNOW WATER AT END OF YEAR	165.931	1659.314	13.81
ANNUAL WATER BUDGET BALANCE	0.0000	0.000	0.00

AVERAGE MONTHLY VALUES (MM) FOR YEARS 1 THROUGH 35

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION						
TOTALS	72.81 86.99	61.27 89.11	65.43 83.37	71.68 87.77	76.00 101.49	88.51 89.97
STD. DEVIATIONS	23.22 46.76	22.54 41.48	20.81 36.24	32.92 40.01	31.72 40.73	36.47 24.18
RUNOFF						
TOTALS	0.006 0.026	0.401 0.005	108.881 0.000	147.666 0.008	0.257 2.699	0.000 0.930
STD. DEVIATIONS	0.038 0.153	1.783 0.030	75.776 0.000	98.272 0.044	1.518 7.435	0.000 3.614
EVAPOTRANSPIRATION						
TOTALS	8.580 57.832	8.472 64.505	12.409 47.866	36.608 33.794	63.764 20.760	64.060 9.386
STD. DEVIATIONS	1.438 27.485	1.818 22.283	2.787 17.693	15.660 9.490	21.087 4.510	22.158 2.300
LATERAL DRAINAGE COLLECTED FROM LAYER 2						
TOTALS	0.1650 28.7549	0.0172 25.9509	1.4943 29.8171	34.0995 44.9374	20.5516 55.0715	22.8267 12.2376
STD. DEVIATIONS	0.2433 21.3812	0.0135 24.6071	6.1299 23.8696	14.8709 33.3927	14.7166 35.8376	18.6633 14.4479
PERCOLATION/LEAKAGE THROUGH LAYER 3						
TOTALS	0.0102 0.4934	0.0020 0.4490	0.0215 0.5001	0.5190 0.7124	0.3878 0.8592	0.4044 0.2377
STD. DEVIATIONS	0.0084	0.0013	0.0902	0.2316	0.2227	0.2724

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 0.3140 0.3493 0.3437 0.4324 0.4535 0.2229

LATERAL DRAINAGE COLLECTED FROM LAYER 6

TOTALS	0.4094 0.3011	0.3327 0.3429	0.3027 0.3518	0.2416 0.3699	0.2317 0.3491	0.2607 0.3896
STD. DEVIATIONS	0.1573 0.1290	0.1333 0.1548	0.1221 0.1495	0.0972 0.1533	0.0907 0.1451	0.1051 0.1559

PERCOLATION/LEAKAGE THROUGH LAYER 7

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

AVERAGES OF MONTHLY AVERAGED DAILY HEADS (CM)

DAILY AVERAGE HEAD ON TOP OF LAYER 3

AVERAGES	0.0074 1.2885	0.0008 1.1629	0.0670 1.3806	1.5789 2.0136	0.9209 2.5500	1.0570 0.5484
STD. DEVIATIONS	0.0109 0.9581	0.0007 1.1026	0.2747 1.1052	0.6886 1.4963	0.6594 1.6594	0.8642 0.6474

DAILY AVERAGE HEAD ON TOP OF LAYER 7

AVERAGES	0.2868 0.2109	0.2555 0.2401	0.2120 0.2546	0.1749 0.2591	0.1623 0.2526	0.1886 0.2729
STD. DEVIATIONS	0.1102 0.0904	0.1013 0.1084	0.0855 0.1082	0.0703 0.1074	0.0636 0.1050	0.0760 0.1092

AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 35

	MM	CU. METERS	PERCENT
PRECIPITATION	974.41 (118.622)	9744.1	100.00
RUNOFF	260.878 (56.7853)	2608.78	26.773
EVAPOTRANSPIRATION	428.037 (56.3665)	4280.37	43.928
LATERAL DRAINAGE COLLECTED FROM LAYER 2	275.92365 (65.05173)	2759.236	28.31696
PERCOLATION/LEAKAGE THROUGH LAYER 3	4.59666 (0.90860)	45.967	0.47174
AVERAGE HEAD ON TOP	10.480 (2.474)		

Annexe A - HELP Simul B-3 Celferm-humini26-geo-35ans-pente33%-50m.txt
 OF LAYER 3

LATERAL DRAINAGE COLLECTED FROM LAYER 6	3.88308 (1.43094)	38.831	0.39851
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.00008 (0.00001)	0.001	0.00001
AVERAGE HEAD ON TOP OF LAYER 7	2.309 (0.850)		
CHANGE IN WATER STORAGE	5.690 (2.4459)	56.90	0.584

□

PEAK DAILY VALUES FOR YEARS	1 THROUGH	35
	(MM)	(CU. METERS)
PRECIPITATION	76.20	762.000
RUNOFF	125.553	1255.5281
DRAINAGE COLLECTED FROM LAYER 2	15.23903	152.39032
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.166138	1.66138
AVERAGE HEAD ON TOP OF LAYER 3	211.686	
MAXIMUM HEAD ON TOP OF LAYER 3	394.004	
LOCATION OF MAXIMUM HEAD IN LAYER 2 (DISTANCE FROM DRAIN)	0.0 METERS	
DRAINAGE COLLECTED FROM LAYER 6	0.02036	0.20361
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.000000	0.00000
AVERAGE HEAD ON TOP OF LAYER 7	4.421	
MAXIMUM HEAD ON TOP OF LAYER 7	8.623	
LOCATION OF MAXIMUM HEAD IN LAYER 6 (DISTANCE FROM DRAIN)	1.8 METERS	
SNOW WATER	322.16	3221.5964
MAXIMUM VEG. SOIL WATER (VOL/VOL)	0.4327	
MINIMUM VEG. SOIL WATER (VOL/VOL)	0.0470	

*** 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

□

FINAL WATER STORAGE AT END OF YEAR 35

LAYER	(CM)	(VOL/VOL)
1	2.3960	0.1597
2	2.7924	0.0621
3	0.0000	0.0000
4	5.7654	0.0961
5	961.9999	0.2600
6	3.0869	0.0617
7	0.0000	0.0000
SNOW WATER	16.593	

