Inflow Hydrograph: e:\pondpack\12003\100-IN .HYD
Rating Table file: e:\pondpack\12003\BASINA1 .PND

----INITIAL CONDITIONS----
Elevation = 542.00 ft
Outflow = 0.00 cfs
Storage = 0 cu-ft

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (cu-ft)
542.00	0.0	0
542.20	0.1	13
542.40	0.4	101
542.60	0.8	339
542.80	1.2	773
543.00	1.6	1,263
543.20	2.3	1,782
543.40	2.6	2,332
543.60	2.9	2,911
543.80	3.2	3,523
544.00	3.4	4,167
544.20	3.6	4,843
544.40	3.9	5,552
544.60	4.1	6,294
544.80	4.2	7,069
545.00	4.4	7,880
545.20	4.6	8,726
545.40	4.8	9,608
545.60	4.9	10,527
545.80	5.1	11,483
546.00	5.3	12,479
546.20	5.4	13,512
546.40	5.8	14,584
546.60	6.5	15,694
546.80	7.4	16,845
547.00	8.4	18,035
547.20	9.6	19,267
547.40	10.9	20,540
547.60	12.2	21,855
547.80	6.5	23,214
548.00	6.6	24,617

INTERMEDIATE ROUTING COMPUTATIONS

2S/t (cfs)	2S/t + 0 (cfs)
0.0	0.0
0.4	0.5
3.4	3.8
11.3	12.1
25.8	27.0
42.1	43.7
59.4	61.7
77.7	80.3
97.0	99.9
117.4	120.6
138.9	142.3
161.4	165.0
185.1	189.0
209.8	213.9
235.6	239.8
262.7	267.1
290.9	295.5
320.3	325.1
350.9	355.8
382.8	387.9
416.0	421.3
450.4	455.8
486.1	491.9
523.1	529.6
561.5	568.9
601.2	609.6
642.2	651.8
684.7	695.6
728.5	740.7
773.8	780.3
820.6	827.2

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (cu-ft)
548.20	6.7	26,063
548.40	6.8	27,553
548.60	7.0	29,088
548.80	7.1	30,668
549.00	7.2	32,293
549.20	7.3	33,965
549.40	7.4	35,684
549.60	7.5	37,451
549.80	7.6	39,266

INTERMEDIATE ROUTING COMPUTATIONS

2S/t (cfs)	2S/t + O (cfs)
868.8	875.5
918.4	925.2
969.6	976.6
1022.2	1029.3
1076.4	1083.6
1132.2	1139.5
1189.5	1196.9
1248.4	1255.9
1308.9	1316.5

Time increment (t) = 1.0 min.

Pond File: e:\pondpack\12003\BASINA1 .PND
Inflow Hydrograph: e:\pondpack\12003\100-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\100-OUT1.HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
0.0	0.00	-----	0.0	0.0	0.00	542.00
1.0	12.32	12.3	10.7	12.3	0.81	542.60
2.0	24.64	37.0	44.2	47.7	1.75	543.04
3.0	24.64	49.3	87.8	93.4	2.80	543.53
4.0	24.64	49.3	130.4	137.1	3.35	543.95
5.0	24.64	49.3	172.1	179.7	3.78	544.32
6.0	24.64	49.3	213.1	221.4	4.13	544.66
7.0	24.64	49.3	253.7	262.4	4.37	544.97
8.0	24.64	49.3	293.7	303.0	4.65	545.25
9.0	24.64	49.3	333.2	343.0	4.86	545.52
10.0	24.64	49.3	372.4	382.5	5.07	545.77
11.0	24.64	49.3	411.1	421.7	5.30	546.00
12.0	24.64	49.3	449.4	460.3	5.45	546.23
13.0	24.64	49.3	486.9	498.7	5.93	546.44
14.0	24.64	49.3	522.9	536.2	6.65	546.63
15.0	24.64	49.3	557.2	572.1	7.48	546.82
16.0	24.64	49.3	589.8	606.5	8.32	546.98
17.0	24.64	49.3	620.6	639.1	9.24	547.14
18.0	24.64	49.3	649.6	669.9	10.14	547.28
19.0	24.64	49.3	676.9	698.9	11.00	547.41
20.0	24.64	49.3	702.6	726.2	11.78	547.54
21.0	12.32	37.0	715.2	739.6	12.17	547.59
22.0	0.00	12.3	703.9	727.6	11.82	547.54
23.0	0.00	0.0	681.6	703.9	11.14	547.44
24.0	0.00	0.0	660.7	681.6	10.49	547.34
25.0	0.00	0.0	640.9	660.7	9.86	547.24
26.0	0.00	0.0	622.4	640.9	9.29	547.15
27.0	0.00	0.0	604.8	622.4	8.76	547.06
28.0	0.00	0.0	588.3	604.8	8.28	546.98
29.0	0.00	0.0	572.5	588.3	7.88	546.90
30.0	0.00	0.0	557.5	572.5	7.49	546.82
31.0	0.00	0.0	543.3	557.5	7.14	546.74
32.0	0.00	0.0	529.6	543.3	6.81	546.67
33.0	0.00	0.0	516.6	529.6	6.50	546.60
34.0	0.00	0.0	504.1	516.6	6.26	546.53
35.0	0.00	0.0	492.1	504.1	6.03	546.46
36.0	0.00	0.0	480.5	492.1	5.80	546.40
37.0	0.00	0.0	469.1	480.5	5.67	546.34
38.0	0.00	0.0	458.0	469.1	5.55	546.27
39.0	0.00	0.0	447.2	458.0	5.42	546.21
40.0	0.00	0.0	436.4	447.2	5.37	546.15
41.0	0.00	0.0	425.7	436.4	5.34	546.09
42.0	0.00	0.0	415.1	425.7	5.31	546.03
43.0	0.00	0.0	404.6	415.1	5.26	545.96
44.0	0.00	0.0	394.2	404.6	5.20	545.90

Pond File: e:\pondpack\12003\BASINA1 .PND
Inflow Hydrograph: e:\pondpack\12003\100-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\100-OUT1.HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
45.0	0.00	0.0	383.9	394.2	5.14	545.84
46.0	0.00	0.0	373.8	383.9	5.08	545.78
47.0	0.00	0.0	363.7	373.8	5.01	545.71
48.0	0.00	0.0	353.8	363.7	4.95	545.65
49.0	0.00	0.0	344.0	353.8	4.89	545.59
50.0	0.00	0.0	334.3	344.0	4.86	545.52
51.0	0.00	0.0	324.7	334.3	4.83	545.46
52.0	0.00	0.0	315.1	324.7	4.80	545.40
53.0	0.00	0.0	305.6	315.1	4.73	545.33
54.0	0.00	0.0	296.3	305.6	4.67	545.27
55.0	0.00	0.0	287.1	296.3	4.61	545.21
56.0	0.00	0.0	278.0	287.1	4.54	545.14
57.0	0.00	0.0	269.0	278.0	4.48	545.08
58.0	0.00	0.0	260.2	269.0	4.41	545.01
59.0	0.00	0.0	251.5	260.2	4.35	544.95
60.0	0.00	0.0	242.9	251.5	4.29	544.89
61.0	0.00	0.0	234.5	242.9	4.22	544.82
62.0	0.00	0.0	226.1	234.5	4.18	544.76
63.0	0.00	0.0	217.8	226.1	4.15	544.69
64.0	0.00	0.0	209.6	217.8	4.12	544.63
65.0	0.00	0.0	201.5	209.6	4.07	544.57
66.0	0.00	0.0	193.5	201.5	4.00	544.50
67.0	0.00	0.0	185.6	193.5	3.94	544.44
68.0	0.00	0.0	177.9	185.6	3.86	544.37
69.0	0.00	0.0	170.3	177.9	3.76	544.31
70.0	0.00	0.0	163.0	170.3	3.67	544.24
71.0	0.00	0.0	155.9	163.0	3.58	544.18
72.0	0.00	0.0	148.8	155.9	3.52	544.12
73.0	0.00	0.0	141.9	148.8	3.46	544.06
74.0	0.00	0.0	135.1	141.9	3.40	544.00
75.0	0.00	0.0	128.4	135.1	3.33	543.93
76.0	0.00	0.0	121.9	128.4	3.27	543.87
77.0	0.00	0.0	115.5	121.9	3.21	543.81
78.0	0.00	0.0	109.2	115.5	3.13	543.75
79.0	0.00	0.0	103.2	109.2	3.03	543.69
80.0	0.00	0.0	97.3	103.2	2.95	543.63
81.0	0.00	0.0	91.5	97.3	2.86	543.57
82.0	0.00	0.0	86.0	91.5	2.77	543.51
83.0	0.00	0.0	80.6	86.0	2.69	543.46
84.0	0.00	0.0	75.4	80.6	2.60	543.40
85.0	0.00	0.0	70.4	75.4	2.52	543.35
86.0	0.00	0.0	65.5	70.4	2.44	543.29
87.0	0.00	0.0	60.8	65.5	2.36	543.24
88.0	0.00	0.0	56.2	60.8	2.26	543.19
89.0	0.00	0.0	52.1	56.2	2.09	543.14
90.0	0.00	0.0	48.2	52.1	1.93	543.09

Pond File: e:\pondpack\12003\BASINA1 .PND
Inflow Hydrograph: e:\pondpack\12003\100-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\100-OUT1.HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
91.0	0.00	0.0	44.7	48.2	1.78	543.05
92.0	0.00	0.0	41.4	44.7	1.64	543.01
93.0	0.00	0.0	38.3	41.4	1.54	542.97
94.0	0.00	0.0	35.4	38.3	1.47	542.94
95.0	0.00	0.0	32.6	35.4	1.40	542.90
96.0	0.00	0.0	29.9	32.6	1.33	542.87
97.0	0.00	0.0	27.4	29.9	1.27	542.83
98.0	0.00	0.0	24.9	27.4	1.21	542.80
99.0	0.00	0.0	22.6	24.9	1.15	542.77
100.0	0.00	0.0	20.5	22.6	1.08	542.74
101.0	0.00	0.0	18.4	20.5	1.03	542.71
102.0	0.00	0.0	16.5	18.4	0.97	542.69
103.0	0.00	0.0	14.7	16.5	0.92	542.66
104.0	0.00	0.0	12.9	14.7	0.87	542.63
105.0	0.00	0.0	11.3	12.9	0.82	542.61
106.0	0.00	0.0	9.8	11.3	0.76	542.58
107.0	0.00	0.0	8.4	9.8	0.69	542.54
108.0	0.00	0.0	7.1	8.4	0.62	542.51
109.0	0.00	0.0	6.0	7.1	0.56	542.48
110.0	0.00	0.0	5.0	6.0	0.51	542.45
111.0	0.00	0.0	4.1	5.0	0.46	542.43
112.0	0.00	0.0	3.2	4.1	0.42	542.41
113.0	0.00	0.0	2.5	3.2	0.35	542.37
114.0	0.00	0.0	2.0	2.5	0.29	542.32
115.0	0.00	0.0	1.5	2.0	0.23	542.29
116.0	0.00	0.0	1.1	1.5	0.19	542.26
117.0	0.00	0.0	0.8	1.1	0.16	542.24
118.0	0.00	0.0	0.6	0.8	0.13	542.22
119.0	0.00	0.0	0.3	0.6	0.10	542.20
120.0	0.00	0.0	0.2	0.3	0.07	542.13
121.0	0.00	0.0	0.1	0.2	0.04	542.08
122.0	0.00	0.0	0.1	0.1	0.03	542.05
123.0	0.00	0.0	0.1	0.1	0.02	542.03
124.0	0.00	0.0	0.0	0.1	0.01	542.02
125.0	0.00	0.0	0.0	0.0	0.01	542.01
126.0	0.00	0.0	0.0	0.0	0.00	542.01
127.0	0.00	0.0	0.0	0.0	0.00	542.00
128.0	0.00	0.0	0.0	0.0	0.00	542.00
129.0	0.00	0.0	0.0	0.0	0.00	542.00
130.0	0.00	0.0	0.0	0.0	0.00	542.00
131.0	0.00	0.0	0.0	0.0	0.00	542.00
132.0	0.00	0.0	0.0	0.0	0.00	542.00
133.0	0.00	0.0	0.0	0.0	0.00	542.00
134.0	0.00	0.0	0.0	0.0	0.00	542.00
135.0	0.00	0.0	0.0	0.0	0.00	542.00
136.0	0.00	0.0	0.0	0.0	0.00	542.00

Pond File: e:\pondpack\12003\BASINA1 .PND
Inflow Hydrograph: e:\pondpack\12003\100-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\100-OUT1.HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
137.0	0.00	0.0	0.0	0.0	0.00	542.00
138.0	0.00	0.0	0.0	0.0	0.00	542.00
139.0	0.00	0.0	0.0	0.0	0.00	542.00
140.0	0.00	0.0	0.0	0.0	0.00	542.00
141.0	0.00	0.0	0.0	0.0	0.00	542.00
142.0	0.00	0.0	0.0	0.0	0.00	542.00
143.0	0.00	0.0	0.0	0.0	0.00	542.00
144.0	0.00	0.0	0.0	0.0	0.00	542.00
145.0	0.00	0.0	0.0	0.0	0.00	542.00
146.0	0.00	0.0	0.0	0.0	0.00	542.00
147.0	0.00	0.0	0.0	0.0	0.00	542.00
148.0	0.00	0.0	0.0	0.0	0.00	542.00
149.0	0.00	0.0	0.0	0.0	0.00	542.00
150.0	0.00	0.0	0.0	0.0	0.00	542.00
151.0	0.00	0.0	0.0	0.0	0.00	542.00

********** SUMMARY OF ROUTING COMPUTATIONS **********

Pond File: e:\pondpack\12003\BASINA1 .PND
Inflow Hydrograph: e:\pondpack\12003\100-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\100-OUT1.HYD

Starting Pond W.S. Elevation = 542.00 ft

***** Summary of Peak Outflow and Peak Elevation *****

Peak Inflow	=	24.64 cfs
Peak Outflow	=	12.17 cfs
Peak Elevation	=	547.59 ft

***** Summary of Approximate Peak Storage *****

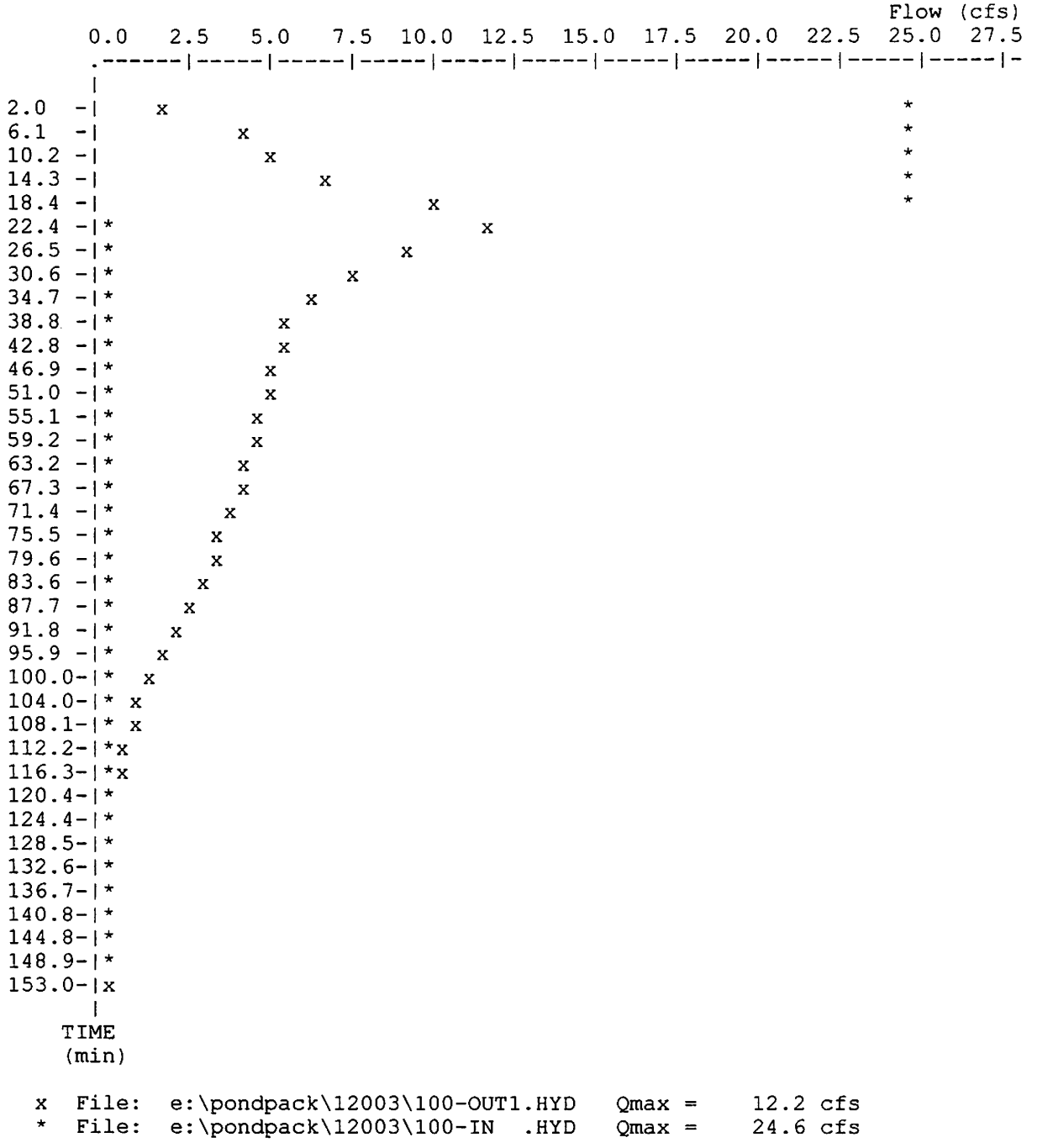
Initial Storage	=	0 cu-ft
Peak Storage From Storm	=	21,822 cu-ft
Total Storage in Pond	=	21,822 cu-ft

100 Return Freq: 100 years

Pond File: e:\pondpack\12003\BASINA1 .PND
Inflow Hydrograph: e:\pondpack\12003\100-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\100-OUT1.HYD

EXECUTED: 04-01-2003 13:21:05

Peak Inflow = 24.64 cfs
Peak Outflow = 12.17 cfs
Peak Elevation = 547.59 ft



x File: e:\pondpack\12003\100-OUT1.HYD Qmax = 12.2 cfs
* File: e:\pondpack\12003\100-IN .HYD Qmax = 24.6 cfs

POND-2 Version: 5.20
S/N:

CALCULATED 04-01-2003 13:27:53
DISK FILE: e:\pondpack\12003\BASINB1 .VOL

Planimeter scale: 1 inch = 1 ft.

Elevation (ft)	Planimeter (sq.in.)	Area (sq.ft)	A1+A2+sqr(A1*A2) (sq.ft)	Volume * (cubic-ft)	Volume Sum (cubic-ft)
542.50	0.00	0	0	0	0
544.00	2,165.00	2,165	2,165	1,083	1,083
546.00	4,139.00	4,139	9,297	6,198	7,281
548.00	6,629.00	6,629	16,006	10,671	17,952
549.00	8,045.00	8,045	21,977	7,326	25,277
549.50	8,791.00	8,791	25,246	4,208	29,485
	Elevations With Areas Interpolated From The Closest Two Planimeter Readings				
547.29	-----	5,678	14,665	6,306	13,587
547.50	-----	5,952	15,054	7,527	14,808

$$IA = (sq.rt(Area1) + ((Ei-E1)/(E2-E1))*(sq.rt(Area2)-sq.rt(Area1)))^2$$

where: E1, E2 = Closest two elevations with planimeter data
Ei = Elevation at which to interpolate area
Area1,Area2 = Areas computed for E1, E2, respectively
IA = Interpolated area for Ei

* Incremental volume computed by the Conic Method for Reservoir Volumes.

Volume = (1/3) * (EL2-EL1) * (Area1 + Area2 + sq.rt.(Area1*Area2))

where: EL1, EL2 = Lower and upper elevations of the increment
Area1,Area2 = Areas computed for EL1, EL2, respectively
Volume = Incremental volume between EL1 and EL2

Outlet Structure File: BASINB1 .STR

POND-2 Version: 5.20 S/N:
Date Executed: Time Executed:

***** COMPOSITE OUTFLOW SUMMARY ****

Elevation (ft)	Q (cfs)	Contributing Structures
542.50	0.0	1
542.70	0.1	1
542.90	0.2	1
543.10	0.5	2
543.30	0.6	2
543.50	0.7	2
543.70	0.8	2
543.90	0.9	2
544.10	0.9	2
544.30	1.0	2
544.50	1.1	2
544.70	1.1	2
544.90	1.2	2
545.10	1.2	2
545.30	1.3	2
545.50	1.3	2
545.70	1.4	2
545.90	1.4	2
546.10	1.5	2 +3
546.30	1.7	2 +3
546.50	2.0	2 +3
546.70	2.3	2 +3
546.90	2.7	2 +3
547.10	3.2	2 +3
547.30	3.7	2 +3
547.50	1.8	2
547.70	1.8	2
547.90	1.8	2
548.10	1.9	2
548.30	1.9	2
548.50	2.0	2
548.70	2.0	2
548.90	2.0	2
549.10	2.1	2
549.30	2.1	2
549.50	0.0	

Outlet Structure File: BASINB1 .STR

POND-2 Version: 5.20 S/N:
Date Executed: Time Executed:

Outlet Structure File: e:\pondpack\12003\BASINB1 .STR
Planimeter Input File: e:\pondpack\12003\BASINB1 .VOL
Rating Table Output File: e:\pondpack\12003\BASINB1 .PND

Min. Elev.(ft) = 542.5 Max. Elev.(ft) = 549.5 Incr.(ft) = .2

Additional elevations (ft) to be included in table:
* *

****
SYSTEM CONNECTIVITY
****

Structure	No.	Q Table		Q Table
WEIR-VR	1		->	1
ORIFICE	2	? 1	->	A
WEIR-VR	3		->	3

Outflow rating table summary was stored in file:
e:\pondpack\12003\BASINB1 .PND

Outlet Structure File: BASINB1 .STR

POND-2 Version: 5.20 S/N:
Date Executed: Time Executed:

>>>>>> Structure No. 1 <<<<<<
(Input Data)

WEIR-VR
Weir - Vertical Rectangular

E1 elev.(ft)?	542.5
E2 elev.(ft)?	543.083
Weir coefficient?	3
Weir elev.(ft)?	542.5
Length (ft)?	.292
Contracted/Suppressed (C/S)?	S

Outlet Structure File: BASINB1 .STR

POND-2 Version: 5.20 S/N:
Date Executed: Time Executed:

>>>>>> Structure No. 2 <<<<<<
(Input Data)

ORIFICE
Orifice - Based on Area and Datum Elevation

E1 elev.(ft)?	543.083
E2 elev.(ft)?	549.5
Orifice coeff.?	.6
Invert elev.(ft)?	542.5
Datum elev.(ft) ?	542.792
Orifice area (sq ft)?	.170

Outlet Structure File: BASINB1 .STR

POND-2 Version: 5.20 S/N:
Date Executed: Time Executed:

>>>>>> Structure No. 3 <<<<<<
(Input Data)

WEIR-VR
Weir - Vertical Rectangular

E1 elev.(ft)?	546.10
E2 elev.(ft)?	547.50
Weir coefficient?	3
Weir elev.(ft)?	546.10
Length (ft)?	.5
Contracted/Suppressed (C/S)?	S

Outlet Structure File: BASINB1 .STR

POND-2 Version: 5.20 S/N:
Date Executed: Time Executed:

Outflow Rating Table for Structure #1
WEIR-VR Weir - Vertical Rectangular

***** INLET CONTROL ASSUMED *****

Elevation (ft)	Q (cfs)	Computation Messages
542.50	0.0	H =0.0
542.70	0.1	H =.2
542.90	0.2	H =.4
543.10	0.0	E = or > E2=543.083
543.30	0.0	E = or > E2=543.083
543.50	0.0	E = or > E2=543.083
543.70	0.0	E = or > E2=543.083
543.90	0.0	E = or > E2=543.083
544.10	0.0	E = or > E2=543.083
544.30	0.0	E = or > E2=543.083
544.50	0.0	E = or > E2=543.083
544.70	0.0	E = or > E2=543.083
544.90	0.0	E = or > E2=543.083
545.10	0.0	E = or > E2=543.083
545.30	0.0	E = or > E2=543.083
545.50	0.0	E = or > E2=543.083
545.70	0.0	E = or > E2=543.083
545.90	0.0	E = or > E2=543.083
546.10	0.0	E = or > E2=543.083
546.30	0.0	E = or > E2=543.083
546.50	0.0	E = or > E2=543.083
546.70	0.0	E = or > E2=543.083
546.90	0.0	E = or > E2=543.083
547.10	0.0	E = or > E2=543.083
547.30	0.0	E = or > E2=543.083
547.50	0.0	E = or > E2=543.083
547.70	0.0	E = or > E2=543.083
547.90	0.0	E = or > E2=543.083
548.10	0.0	E = or > E2=543.083
548.30	0.0	E = or > E2=543.083
548.50	0.0	E = or > E2=543.083
548.70	0.0	E = or > E2=543.083
548.90	0.0	E = or > E2=543.083
549.10	0.0	E = or > E2=543.083

Outlet Structure File: BASINB1 .STR

POND-2 Version: 5.20 S/N:
Date Executed: Time Executed:

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Outflow Rating Table for Structure #1
WEIR-VR Weir - Vertical Rectangular

***** INLET CONTROL ASSUMED *****

Elevation (ft)	Q (cfs)	Computation Messages
549.30	0.0	E = or > E2=543.083
549.50	0.0	E = or > E2=543.083

C = 3 L (ft) = .292
H (ft) = Table elev. - Invert elev. (542.5 ft)
Q (cfs) = C * L * (H**1.5) -- Suppressed Weir

Outlet Structure File: BASINB1 .STR

POND-2 Version: 5.20 S/N:
Date Executed: Time Executed:

Outflow Rating Table for Structure #2
ORIFICE Orifice - Based on Area and Datum Elevation

Elevation (ft)	Q (cfs)	Computation Messages
542.50	0.0	E < E1=543.083
542.70	0.0	E < E1=543.083
542.90	0.0	E < E1=543.083
543.10	0.5	H =.308
543.30	0.6	H =.508
543.50	0.7	H =.708
543.70	0.8	H =.908
543.90	0.9	H =1.108
544.10	0.9	H =1.308
544.30	1.0	H =1.508
544.50	1.1	H =1.708
544.70	1.1	H =1.908
544.90	1.2	H =2.108
545.10	1.2	H =2.308
545.30	1.3	H =2.508
545.50	1.3	H =2.708
545.70	1.4	H =2.908
545.90	1.4	H =3.108
546.10	1.5	H =3.308
546.30	1.5	H =3.508
546.50	1.6	H =3.708
546.70	1.6	H =3.908
546.90	1.7	H =4.108
547.10	1.7	H =4.308
547.30	1.7	H =4.508
547.50	1.8	H =4.708
547.70	1.8	H =4.908
547.90	1.8	H =5.108
548.10	1.9	H =5.308
548.30	1.9	H =5.508
548.50	2.0	H =5.708
548.70	2.0	H =5.908
548.90	2.0	H =6.108
549.10	2.1	H =6.308

Outlet Structure File: BASINB1 .STR

POND-2 Version: 5.20 S/N:
Date Executed: Time Executed:

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Outflow Rating Table for Structure #2
ORIFICE Orifice - Based on Area and Datum Elevation

Elevation (ft)	Q (cfs)	Computation Messages
549.30	2.1	H =6.508
549.50	0.0	E = or > E2=549.5

C = .6 A = .17 sq.ft.
H (ft) = Table elev. - Datum elev. (542.792 ft)
Q (cfs) = C * A * sqr(2g * H)

Outlet Structure File: BASINB1 .STR

POND-2 Version: 5.20 S/N:
Date Executed: Time Executed:

Outflow Rating Table for Structure #3
WEIR-VR Weir - Vertical Rectangular

***** INLET CONTROL ASSUMED *****

Elevation (ft)	Q (cfs)	Computation Messages
542.50	0.0	E < Inv.El.= 546.1
542.70	0.0	E < Inv.El.= 546.1
542.90	0.0	E < Inv.El.= 546.1
543.10	0.0	E < Inv.El.= 546.1
543.30	0.0	E < Inv.El.= 546.1
543.50	0.0	E < Inv.El.= 546.1
543.70	0.0	E < Inv.El.= 546.1
543.90	0.0	E < Inv.El.= 546.1
544.10	0.0	E < Inv.El.= 546.1
544.30	0.0	E < Inv.El.= 546.1
544.50	0.0	E < Inv.El.= 546.1
544.70	0.0	E < Inv.El.= 546.1
544.90	0.0	E < Inv.El.= 546.1
545.10	0.0	E < Inv.El.= 546.1
545.30	0.0	E < Inv.El.= 546.1
545.50	0.0	E < Inv.El.= 546.1
545.70	0.0	E < Inv.El.= 546.1
545.90	0.0	E < Inv.El.= 546.1
546.10	0.0	H =0.0
546.30	0.1	H =.2
546.50	0.4	H =.4
546.70	0.7	H =.6
546.90	1.1	H =.8
547.10	1.5	H =1.0
547.30	2.0	H =1.2
547.50	0.0	E = or > E2=547.50
547.70	0.0	E = or > E2=547.50
547.90	0.0	E = or > E2=547.50
548.10	0.0	E = or > E2=547.50
548.30	0.0	E = or > E2=547.50
548.50	0.0	E = or > E2=547.50
548.70	0.0	E = or > E2=547.50
548.90	0.0	E = or > E2=547.50
549.10	0.0	E = or > E2=547.50

Outlet Structure File: BASINB1 .STR

POND-2 Version: 5.20 S/N:
Date Executed: Time Executed:

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Outflow Rating Table for Structure #3
WEIR-VR Weir - Vertical Rectangular

***** INLET CONTROL ASSUMED *****

Elevation (ft)	Q (cfs)	Computation Messages
549.30	0.0	E = or > E2=547.50
549.50	0.0	E = or > E2=547.50

C = 3 L (ft) = .5
H (ft) = Table elev. - Invert elev. (546.1 ft)
Q (cfs) = C * L * (H**1.5) -- Suppressed Weir

Outlet Structure File: BASINB1 .STR

POND-2 Version: 5.20 S/N:
Date Executed: Time Executed:

Outflow Rating Table A
Table A = 1 ? 2

Elevation (ft)	Q (cfs)	Contributing Structures
542.50	0.0	1
542.70	0.1	1
542.90	0.2	1
543.10	0.5	2
543.30	0.6	2
543.50	0.7	2
543.70	0.8	2
543.90	0.9	2
544.10	0.9	2
544.30	1.0	2
544.50	1.1	2
544.70	1.1	2
544.90	1.2	2
545.10	1.2	2
545.30	1.3	2
545.50	1.3	2
545.70	1.4	2
545.90	1.4	2
546.10	1.5	2
546.30	1.5	2
546.50	1.6	2
546.70	1.6	2
546.90	1.7	2
547.10	1.7	2
547.30	1.7	2
547.50	1.8	2
547.70	1.8	2
547.90	1.8	2
548.10	1.9	2
548.30	1.9	2
548.50	2.0	2
548.70	2.0	2
548.90	2.0	2
549.10	2.1	2
549.30	2.1	2
549.50	0.0	-

Inflow Hydrograph: e:\pondpack\12003\2B-IN .HYD
Rating Table file: e:\pondpack\12003\BASINB1 .PND

----INITIAL CONDITIONS----
Elevation = 542.50 ft
Outflow = 0.00 cfs
Storage = 0 cu-ft

GIVEN POND DATA			INTERMEDIATE ROUTING COMPUTATIONS	
ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (cu-ft)	2S/t (cfs)	2S/t + O (cfs)
542.50	0.0	0	0.0	0.0
542.70	0.1	3	0.1	0.2
542.90	0.2	20	0.7	0.9
543.10	0.5	69	2.3	2.8
543.30	0.6	164	5.5	6.1
543.50	0.7	321	10.7	11.4
543.70	0.8	554	18.5	19.3
543.90	0.9	880	29.3	30.2
544.10	0.9	1,303	43.4	44.3
544.30	1.0	1,770	59.0	60.0
544.50	1.1	2,272	75.7	76.8
544.70	1.1	2,810	93.7	94.8
544.90	1.2	3,386	112.9	114.1
545.10	1.2	4,000	133.3	134.5
545.30	1.3	4,655	155.2	156.5
545.50	1.3	5,351	178.4	179.7
545.70	1.4	6,090	203.0	204.4
545.90	1.4	6,873	229.1	230.5
546.10	1.5	7,700	256.7	258.2
546.30	1.7	8,573	285.8	287.5
546.50	2.0	9,491	316.4	318.4
546.70	2.3	10,456	348.5	350.8
546.90	2.7	11,469	382.3	385.0
547.10	3.2	12,531	417.7	420.9
547.30	3.7	13,643	454.8	458.5
547.50	1.8	14,808	493.6	495.4
547.70	1.8	16,025	534.2	536.0
547.90	1.8	17,296	576.5	578.3
548.10	1.9	18,621	620.7	622.6
548.30	1.9	20,001	666.7	668.6
548.50	2.0	21,437	714.6	716.6

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (cu-ft)
548.70	2.0	22,930
548.90	2.0	24,480
549.10	2.1	26,089
549.30	2.1	27,757

INTERMEDIATE ROUTING COMPUTATIONS

2S/t (cfs)	2S/t + O (cfs)
764.3	766.3
816.0	818.0
869.6	871.7
925.2	927.3

Time increment (t) = 1.0 min.

Pond File: e:\pondpack\12003\BASINB1 .PND
Inflow Hydrograph: e:\pondpack\12003\2B-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\2BOUT1 .HYD

INFLOW HYDROGRAPH | ROUTING COMPUTATIONS

TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
0.0	0.00	-----	0.0	0.0	0.00	542.50
1.0	1.30	1.3	0.8	1.3	0.27	542.94
2.0	2.59	3.9	3.5	4.7	0.56	543.21
3.0	3.89	6.5	8.7	10.0	0.67	543.45
4.0	5.18	9.1	16.2	17.7	0.78	543.66
5.0	5.18	10.4	24.8	26.5	0.87	543.83
6.0	5.18	10.4	33.4	35.2	0.90	543.97
7.0	5.18	10.4	41.9	43.7	0.90	544.09
8.0	5.18	10.4	50.4	52.3	0.95	544.20
9.0	5.18	10.4	58.7	60.8	1.00	544.31
10.0	5.18	10.4	67.0	69.1	1.05	544.41
11.0	5.18	10.4	75.2	77.4	1.10	544.51
12.0	5.18	10.4	83.3	85.5	1.10	544.60
13.0	5.18	10.4	91.5	93.7	1.10	544.69
14.0	5.18	10.4	99.6	101.8	1.14	544.77
15.0	5.18	10.4	107.6	109.9	1.18	544.86
16.0	5.18	10.4	115.5	117.9	1.20	544.94
17.0	5.18	10.4	123.5	125.9	1.20	545.02
18.0	5.18	10.4	131.4	133.8	1.20	545.09
19.0	5.18	10.4	139.3	141.8	1.23	545.17
20.0	5.18	10.4	147.2	149.7	1.27	545.24
21.0	3.89	9.1	153.6	156.2	1.30	545.30
22.0	2.59	6.5	157.5	160.1	1.30	545.33
23.0	1.30	3.9	158.8	161.4	1.30	545.34
24.0	0.00	1.3	157.5	160.1	1.30	545.33
25.0	0.00	0.0	154.9	157.5	1.30	545.31
26.0	0.00	0.0	152.3	154.9	1.29	545.29
27.0	0.00	0.0	149.8	152.3	1.28	545.26
28.0	0.00	0.0	147.2	149.8	1.27	545.24
29.0	0.00	0.0	144.7	147.2	1.26	545.22
30.0	0.00	0.0	142.2	144.7	1.25	545.19
31.0	0.00	0.0	139.7	142.2	1.23	545.17
32.0	0.00	0.0	137.3	139.7	1.22	545.15
33.0	0.00	0.0	134.9	137.3	1.21	545.13
34.0	0.00	0.0	132.5	134.9	1.20	545.10
35.0	0.00	0.0	130.1	132.5	1.20	545.08
36.0	0.00	0.0	127.7	130.1	1.20	545.06
37.0	0.00	0.0	125.3	127.7	1.20	545.03
38.0	0.00	0.0	122.9	125.3	1.20	545.01
39.0	0.00	0.0	120.5	122.9	1.20	544.99
40.0	0.00	0.0	118.1	120.5	1.20	544.96
41.0	0.00	0.0	115.7	118.1	1.20	544.94
42.0	0.00	0.0	113.3	115.7	1.20	544.92
43.0	0.00	0.0	110.9	113.3	1.20	544.89
44.0	0.00	0.0	108.5	110.9	1.18	544.87

Pond File: e:\pondpack\12003\BASINB1 .PND
Inflow Hydrograph: e:\pondpack\12003\2B-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\2BOUT1 .HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
45.0	0.00	0.0	106.2	108.5	1.17	544.84
46.0	0.00	0.0	103.8	106.2	1.16	544.82
47.0	0.00	0.0	101.5	103.8	1.15	544.79
48.0	0.00	0.0	99.3	101.5	1.14	544.77
49.0	0.00	0.0	97.0	99.3	1.12	544.75
50.0	0.00	0.0	94.8	97.0	1.11	544.72
51.0	0.00	0.0	92.6	94.8	1.10	544.70
52.0	0.00	0.0	90.4	92.6	1.10	544.68
53.0	0.00	0.0	88.2	90.4	1.10	544.65
54.0	0.00	0.0	86.0	88.2	1.10	544.63
55.0	0.00	0.0	83.8	86.0	1.10	544.60
56.0	0.00	0.0	81.6	83.8	1.10	544.58
57.0	0.00	0.0	79.4	81.6	1.10	544.55
58.0	0.00	0.0	77.2	79.4	1.10	544.53
59.0	0.00	0.0	75.0	77.2	1.10	544.50
60.0	0.00	0.0	72.8	75.0	1.09	544.48
61.0	0.00	0.0	70.7	72.8	1.08	544.45
62.0	0.00	0.0	68.6	70.7	1.06	544.43
63.0	0.00	0.0	66.4	68.6	1.05	544.40
64.0	0.00	0.0	64.4	66.4	1.04	544.38
65.0	0.00	0.0	62.3	64.4	1.03	544.35
66.0	0.00	0.0	60.3	62.3	1.01	544.33
67.0	0.00	0.0	58.3	60.3	1.00	544.30
68.0	0.00	0.0	56.3	58.3	0.99	544.28
69.0	0.00	0.0	54.4	56.3	0.98	544.25
70.0	0.00	0.0	52.4	54.4	0.96	544.23
71.0	0.00	0.0	50.5	52.4	0.95	544.20
72.0	0.00	0.0	48.6	50.5	0.94	544.18
73.0	0.00	0.0	46.8	48.6	0.93	544.15
74.0	0.00	0.0	45.0	46.8	0.92	544.13
75.0	0.00	0.0	43.2	45.0	0.90	544.11
76.0	0.00	0.0	41.4	43.2	0.90	544.08
77.0	0.00	0.0	39.6	41.4	0.90	544.06
78.0	0.00	0.0	37.8	39.6	0.90	544.03
79.0	0.00	0.0	36.0	37.8	0.90	544.01
80.0	0.00	0.0	34.2	36.0	0.90	543.98
81.0	0.00	0.0	32.4	34.2	0.90	543.96
82.0	0.00	0.0	30.6	32.4	0.90	543.93
83.0	0.00	0.0	28.8	30.6	0.90	543.90
84.0	0.00	0.0	27.0	28.8	0.89	543.87
85.0	0.00	0.0	25.2	27.0	0.87	543.84
86.0	0.00	0.0	23.5	25.2	0.85	543.81
87.0	0.00	0.0	21.9	23.5	0.84	543.78
88.0	0.00	0.0	20.2	21.9	0.82	543.75
89.0	0.00	0.0	18.6	20.2	0.81	543.72
90.0	0.00	0.0	17.0	18.6	0.79	543.68

Pond File: e:\pondpack\12003\BASINB1 .PND
Inflow Hydrograph: e:\pondpack\12003\2B-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\2BOUT1 .HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
91.0	0.00	0.0	15.5	17.0	0.77	543.64
92.0	0.00	0.0	14.0	15.5	0.75	543.60
93.0	0.00	0.0	12.5	14.0	0.73	543.57
94.0	0.00	0.0	11.1	12.5	0.71	543.53
95.0	0.00	0.0	9.7	11.1	0.69	543.49
96.0	0.00	0.0	8.3	9.7	0.67	543.44
97.0	0.00	0.0	7.1	8.3	0.64	543.39
98.0	0.00	0.0	5.8	7.1	0.62	543.34
99.0	0.00	0.0	4.6	5.8	0.59	543.28
100.0	0.00	0.0	3.5	4.6	0.56	543.21
101.0	0.00	0.0	2.5	3.5	0.52	543.14
102.0	0.00	0.0	1.6	2.5	0.45	543.07
103.0	0.00	0.0	1.0	1.6	0.31	542.97
104.0	0.00	0.0	0.5	1.0	0.21	542.91
105.0	0.00	0.0	0.2	0.5	0.15	542.80
106.0	0.00	0.0	0.0	0.2	0.11	542.71
107.0	0.00	0.0	-0.0	0.0	0.01	542.52
108.0	0.00	0.0	-0.0	-0.0	0.00	542.50
109.0	0.00	0.0	-0.0	-0.0	0.00	542.50
110.0	0.00	0.0	-0.0	-0.0	0.00	542.50
111.0	0.00	0.0	-0.0	-0.0	0.00	542.50
112.0	0.00	0.0	-0.0	-0.0	0.00	542.50
113.0	0.00	0.0	-0.0	-0.0	0.00	542.50
114.0	0.00	0.0	-0.0	-0.0	0.00	542.50
115.0	0.00	0.0	-0.0	-0.0	0.00	542.50
116.0	0.00	0.0	-0.0	-0.0	0.00	542.50
117.0	0.00	0.0	-0.0	-0.0	0.00	542.50
118.0	0.00	0.0	-0.0	-0.0	0.00	542.50
119.0	0.00	0.0	-0.0	-0.0	0.00	542.50
120.0	0.00	0.0	-0.0	-0.0	0.00	542.50
121.0	0.00	0.0	-0.0	-0.0	0.00	542.50
122.0	0.00	0.0	-0.0	-0.0	0.00	542.50
123.0	0.00	0.0	-0.0	-0.0	0.00	542.50
124.0	0.00	0.0	-0.0	-0.0	0.00	542.50
125.0	0.00	0.0	-0.0	-0.0	0.00	542.50
126.0	0.00	0.0	-0.0	-0.0	0.00	542.50
127.0	0.00	0.0	-0.0	-0.0	0.00	542.50
128.0	0.00	0.0	-0.0	-0.0	0.00	542.50
129.0	0.00	0.0	-0.0	-0.0	0.00	542.50
130.0	0.00	0.0	-0.0	-0.0	0.00	542.50
131.0	0.00	0.0	-0.0	-0.0	0.00	542.50
132.0	0.00	0.0	-0.0	-0.0	0.00	542.50
133.0	0.00	0.0	-0.0	-0.0	0.00	542.50
134.0	0.00	0.0	-0.0	-0.0	0.00	542.50
135.0	0.00	0.0	-0.0	-0.0	0.00	542.50
136.0	0.00	0.0	-0.0	-0.0	0.00	542.50

Pond File: e:\pondpack\12003\BASINB1 .PND
Inflow Hydrograph: e:\pondpack\12003\2B-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\2BOUT1 .HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
137.0	0.00	0.0	-0.0	-0.0	0.00	542.50
138.0	0.00	0.0	-0.0	-0.0	0.00	542.50
139.0	0.00	0.0	-0.0	-0.0	0.00	542.50
140.0	0.00	0.0	-0.0	-0.0	0.00	542.50
141.0	0.00	0.0	-0.0	-0.0	0.00	542.50
142.0	0.00	0.0	-0.0	-0.0	0.00	542.50
143.0	0.00	0.0	-0.0	-0.0	0.00	542.50
144.0	0.00	0.0	-0.0	-0.0	0.00	542.50
145.0	0.00	0.0	-0.0	-0.0	0.00	542.50
146.0	0.00	0.0	-0.0	-0.0	0.00	542.50
147.0	0.00	0.0	-0.0	-0.0	0.00	542.50
148.0	0.00	0.0	-0.0	-0.0	0.00	542.50
149.0	0.00	0.0	-0.0	-0.0	0.00	542.50
150.0	0.00	0.0	-0.0	-0.0	0.00	542.50
151.0	0.00	0.0	-0.0	-0.0	0.00	542.50

********** SUMMARY OF ROUTING COMPUTATIONS **********

Pond File: e:\pondpack\12003\BASINB1 .PND
Inflow Hydrograph: e:\pondpack\12003\2B-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\2BOUT1 .HYD

Starting Pond W.S. Elevation = 542.50 ft

***** Summary of Peak Outflow and Peak Elevation *****

Peak Inflow	=	5.18 cfs
Peak Outflow	=	1.30 cfs
Peak Elevation	=	545.34 ft

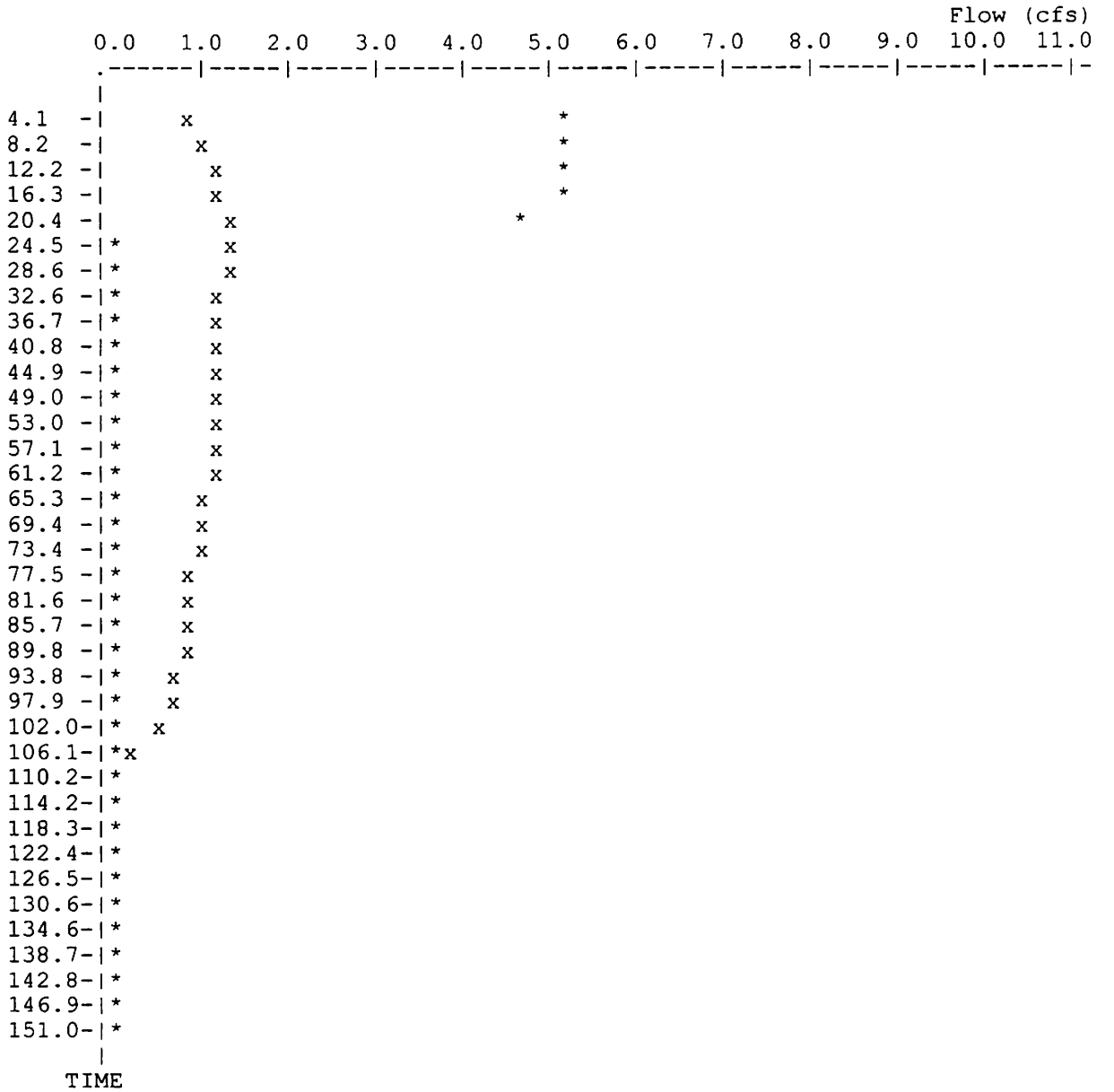
***** Summary of Approximate Peak Storage *****

Initial Storage	=	0 cu-ft
Peak Storage From Storm	=	4,803 cu-ft
Total Storage in Pond	=	4,803 cu-ft

Return Freq: 2 years

Pond File: e:\pondpack\12003\BASINB1 .PND
Inflow Hydrograph: e:\pondpack\12003\2B-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\2BOUT1 .HYD
EXECUTED: 04-01-2003 13:29:57

Peak Inflow = 5.18 cfs
Peak Outflow = 1.30 cfs
Peak Elevation = 545.34 ft



x File: e:\pondpack\12003\2BOUT1 .HYD Qmax = 1.3 cfs
* File: e:\pondpack\12003\2B-IN .HYD Qmax = 5.2 cfs

Inflow Hydrograph: e:\pondpack\12003\15B-IN .HYD
Rating Table file: e:\pondpack\12003\BASINB1 .PND

----INITIAL CONDITIONS----
Elevation = 542.50 ft
Outflow = 0.00 cfs
Storage = 0 cu-ft

GIVEN POND DATA			INTERMEDIATE ROUTING COMPUTATIONS	
ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (cu-ft)	2S/t (cfs)	2S/t + O (cfs)
542.50	0.0	0	0.0	0.0
542.70	0.1	3	0.1	0.2
542.90	0.2	20	0.7	0.9
543.10	0.5	69	2.3	2.8
543.30	0.6	164	5.5	6.1
543.50	0.7	321	10.7	11.4
543.70	0.8	554	18.5	19.3
543.90	0.9	880	29.3	30.2
544.10	0.9	1,303	43.4	44.3
544.30	1.0	1,770	59.0	60.0
544.50	1.1	2,272	75.7	76.8
544.70	1.1	2,810	93.7	94.8
544.90	1.2	3,386	112.9	114.1
545.10	1.2	4,000	133.3	134.5
545.30	1.3	4,655	155.2	156.5
545.50	1.3	5,351	178.4	179.7
545.70	1.4	6,090	203.0	204.4
545.90	1.4	6,873	229.1	230.5
546.10	1.5	7,700	256.7	258.2
546.30	1.7	8,573	285.8	287.5
546.50	2.0	9,491	316.4	318.4
546.70	2.3	10,456	348.5	350.8
546.90	2.7	11,469	382.3	385.0
547.10	3.2	12,531	417.7	420.9
547.30	3.7	13,643	454.8	458.5
547.50	1.8	14,808	493.6	495.4
547.70	1.8	16,025	534.2	536.0
547.90	1.8	17,296	576.5	578.3
548.10	1.9	18,621	620.7	622.6
548.30	1.9	20,001	666.7	668.6
548.50	2.0	21,437	714.6	716.6

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (cu-ft)
548.70	2.0	22,930
548.90	2.0	24,480
549.10	2.1	26,089
549.30	2.1	27,757

INTERMEDIATE ROUTING COMPUTATIONS

2S/t (cfs)	2S/t + O (cfs)
764.3	766.3
816.0	818.0
869.6	871.7
925.2	927.3

Time increment (t) = 1.0 min.

Pond File: e:\pondpack\12003\BASINB1 .PND
Inflow Hydrograph: e:\pondpack\12003\15B-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\15BOUT1 .HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
0.0	0.00	-----	0.0	0.0	0.00	542.50
1.0	2.13	2.1	1.3	2.1	0.39	543.03
2.0	4.26	6.4	6.5	7.7	0.63	543.36
3.0	6.38	10.6	15.6	17.1	0.77	543.65
4.0	8.51	14.9	28.7	30.5	0.90	543.90
5.0	8.51	17.0	43.9	45.7	0.91	544.12
6.0	8.51	17.0	58.9	60.9	1.01	544.31
7.0	8.51	17.0	73.7	75.9	1.09	544.49
8.0	8.51	17.0	88.5	90.7	1.10	544.65
9.0	8.51	17.0	103.2	105.5	1.16	544.81
10.0	8.51	17.0	117.8	120.2	1.20	544.96
11.0	8.51	17.0	132.5	134.9	1.20	545.10
12.0	8.51	17.0	146.9	149.5	1.27	545.24
13.0	8.51	17.0	161.4	164.0	1.30	545.36
14.0	8.51	17.0	175.8	178.4	1.30	545.49
15.0	8.51	17.0	190.1	192.8	1.35	545.61
16.0	8.51	17.0	204.3	207.1	1.40	545.72
17.0	8.51	17.0	218.5	221.3	1.40	545.83
18.0	8.51	17.0	232.7	235.6	1.42	545.94
19.0	8.51	17.0	246.8	249.7	1.47	546.04
20.0	8.51	17.0	260.7	263.8	1.54	546.14
21.0	6.38	14.9	272.4	275.6	1.62	546.22
22.0	4.26	10.6	279.7	283.0	1.67	546.27
23.0	2.13	6.4	282.7	286.1	1.69	546.29
24.0	0.00	2.1	281.5	284.8	1.68	546.28
25.0	0.00	0.0	278.2	281.5	1.66	546.26
26.0	0.00	0.0	274.9	278.2	1.64	546.24
27.0	0.00	0.0	271.7	274.9	1.61	546.21
28.0	0.00	0.0	268.5	271.7	1.59	546.19
29.0	0.00	0.0	265.3	268.5	1.57	546.17
30.0	0.00	0.0	262.2	265.3	1.55	546.15
31.0	0.00	0.0	259.2	262.2	1.53	546.13
32.0	0.00	0.0	256.2	259.2	1.51	546.11
33.0	0.00	0.0	253.2	256.2	1.49	546.09
34.0	0.00	0.0	250.2	253.2	1.48	546.06
35.0	0.00	0.0	247.3	250.2	1.47	546.04
36.0	0.00	0.0	244.3	247.3	1.46	546.02
37.0	0.00	0.0	241.4	244.3	1.45	546.00
38.0	0.00	0.0	238.6	241.4	1.44	545.98
39.0	0.00	0.0	235.7	238.6	1.43	545.96
40.0	0.00	0.0	232.9	235.7	1.42	545.94
41.0	0.00	0.0	230.1	232.9	1.41	545.92
42.0	0.00	0.0	227.3	230.1	1.40	545.90
43.0	0.00	0.0	224.5	227.3	1.40	545.88
44.0	0.00	0.0	221.7	224.5	1.40	545.85

Pond File: e:\pondpack\12003\BASINB1 .PND
Inflow Hydrograph: e:\pondpack\12003\15B-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\15BOUT1 .HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
45.0	0.00	0.0	218.9	221.7	1.40	545.83
46.0	0.00	0.0	216.1	218.9	1.40	545.81
47.0	0.00	0.0	213.3	216.1	1.40	545.79
48.0	0.00	0.0	210.5	213.3	1.40	545.77
49.0	0.00	0.0	207.7	210.5	1.40	545.75
50.0	0.00	0.0	204.9	207.7	1.40	545.72
51.0	0.00	0.0	202.1	204.9	1.40	545.70
52.0	0.00	0.0	199.3	202.1	1.39	545.68
53.0	0.00	0.0	196.5	199.3	1.38	545.66
54.0	0.00	0.0	193.8	196.5	1.37	545.64
55.0	0.00	0.0	191.1	193.8	1.36	545.61
56.0	0.00	0.0	188.4	191.1	1.35	545.59
57.0	0.00	0.0	185.7	188.4	1.34	545.57
58.0	0.00	0.0	183.1	185.7	1.32	545.55
59.0	0.00	0.0	180.4	183.1	1.31	545.53
60.0	0.00	0.0	177.8	180.4	1.30	545.51
61.0	0.00	0.0	175.2	177.8	1.30	545.48
62.0	0.00	0.0	172.6	175.2	1.30	545.46
63.0	0.00	0.0	170.0	172.6	1.30	545.44
64.0	0.00	0.0	167.4	170.0	1.30	545.42
65.0	0.00	0.0	164.8	167.4	1.30	545.39
66.0	0.00	0.0	162.2	164.8	1.30	545.37
67.0	0.00	0.0	159.6	162.2	1.30	545.35
68.0	0.00	0.0	157.0	159.6	1.30	545.33
69.0	0.00	0.0	154.4	157.0	1.30	545.30
70.0	0.00	0.0	151.8	154.4	1.29	545.28
71.0	0.00	0.0	149.3	151.8	1.28	545.26
72.0	0.00	0.0	146.7	149.3	1.27	545.23
73.0	0.00	0.0	144.2	146.7	1.26	545.21
74.0	0.00	0.0	141.7	144.2	1.24	545.19
75.0	0.00	0.0	139.3	141.7	1.23	545.17
76.0	0.00	0.0	136.8	139.3	1.22	545.14
77.0	0.00	0.0	134.4	136.8	1.21	545.12
78.0	0.00	0.0	132.0	134.4	1.20	545.10
79.0	0.00	0.0	129.6	132.0	1.20	545.08
80.0	0.00	0.0	127.2	129.6	1.20	545.05
81.0	0.00	0.0	124.8	127.2	1.20	545.03
82.0	0.00	0.0	122.4	124.8	1.20	545.01
83.0	0.00	0.0	120.0	122.4	1.20	544.98
84.0	0.00	0.0	117.6	120.0	1.20	544.96
85.0	0.00	0.0	115.2	117.6	1.20	544.93
86.0	0.00	0.0	112.8	115.2	1.20	544.91
87.0	0.00	0.0	110.4	112.8	1.19	544.89
88.0	0.00	0.0	108.1	110.4	1.18	544.86
89.0	0.00	0.0	105.7	108.1	1.17	544.84
90.0	0.00	0.0	103.4	105.7	1.16	544.81

Pond File: e:\pondpack\12003\BASINB1 .PND
Inflow Hydrograph: e:\pondpack\12003\15B-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\15BOUT1 .HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
91.0	0.00	0.0	101.1	103.4	1.14	544.79
92.0	0.00	0.0	98.9	101.1	1.13	544.77
93.0	0.00	0.0	96.6	98.9	1.12	544.74
94.0	0.00	0.0	94.4	96.6	1.11	544.72
95.0	0.00	0.0	92.2	94.4	1.10	544.70
96.0	0.00	0.0	90.0	92.2	1.10	544.67
97.0	0.00	0.0	87.8	90.0	1.10	544.65
98.0	0.00	0.0	85.6	87.8	1.10	544.62
99.0	0.00	0.0	83.4	85.6	1.10	544.60
100.0	0.00	0.0	81.2	83.4	1.10	544.57
101.0	0.00	0.0	79.0	81.2	1.10	544.55
102.0	0.00	0.0	76.8	79.0	1.10	544.52
103.0	0.00	0.0	74.6	76.8	1.10	544.50
104.0	0.00	0.0	72.4	74.6	1.09	544.47
105.0	0.00	0.0	70.3	72.4	1.07	544.45
106.0	0.00	0.0	68.2	70.3	1.06	544.42
107.0	0.00	0.0	66.1	68.2	1.05	544.40
108.0	0.00	0.0	64.0	66.1	1.04	544.37
109.0	0.00	0.0	61.9	64.0	1.02	544.35
110.0	0.00	0.0	59.9	61.9	1.01	544.32
111.0	0.00	0.0	57.9	59.9	1.00	544.30
112.0	0.00	0.0	55.9	57.9	0.99	544.27
113.0	0.00	0.0	54.0	55.9	0.97	544.25
114.0	0.00	0.0	52.1	54.0	0.96	544.22
115.0	0.00	0.0	50.2	52.1	0.95	544.20
116.0	0.00	0.0	48.3	50.2	0.94	544.17
117.0	0.00	0.0	46.4	48.3	0.93	544.15
118.0	0.00	0.0	44.6	46.4	0.91	544.13
119.0	0.00	0.0	42.8	44.6	0.90	544.10
120.0	0.00	0.0	41.0	42.8	0.90	544.08
121.0	0.00	0.0	39.2	41.0	0.90	544.05
122.0	0.00	0.0	37.4	39.2	0.90	544.03
123.0	0.00	0.0	35.6	37.4	0.90	544.00
124.0	0.00	0.0	33.8	35.6	0.90	543.98
125.0	0.00	0.0	32.0	33.8	0.90	543.95
126.0	0.00	0.0	30.2	32.0	0.90	543.93
127.0	0.00	0.0	28.4	30.2	0.90	543.90
128.0	0.00	0.0	26.7	28.4	0.88	543.87
129.0	0.00	0.0	24.9	26.7	0.87	543.83
130.0	0.00	0.0	23.2	24.9	0.85	543.80
131.0	0.00	0.0	21.5	23.2	0.84	543.77
132.0	0.00	0.0	19.9	21.5	0.82	543.74
133.0	0.00	0.0	18.3	19.9	0.81	543.71
134.0	0.00	0.0	16.7	18.3	0.79	543.68
135.0	0.00	0.0	15.2	16.7	0.77	543.64
136.0	0.00	0.0	13.7	15.2	0.75	543.60

Pond File: e:\pondpack\12003\BASINB1 .PND
Inflow Hydrograph: e:\pondpack\12003\15B-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\15BOUT1 .HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
137.0	0.00	0.0	12.2	13.7	0.73	543.56
138.0	0.00	0.0	10.8	12.2	0.71	543.52
139.0	0.00	0.0	9.4	10.8	0.69	543.48
140.0	0.00	0.0	8.1	9.4	0.66	543.43
141.0	0.00	0.0	6.8	8.1	0.64	543.38
142.0	0.00	0.0	5.6	6.8	0.61	543.33
143.0	0.00	0.0	4.4	5.6	0.59	543.27
144.0	0.00	0.0	3.3	4.4	0.55	543.20
145.0	0.00	0.0	2.3	3.3	0.52	543.13
146.0	0.00	0.0	1.5	2.3	0.42	543.05
147.0	0.00	0.0	0.9	1.5	0.29	542.96
148.0	0.00	0.0	0.5	0.9	0.20	542.90
149.0	0.00	0.0	0.2	0.5	0.14	542.78
150.0	0.00	0.0	-0.0	0.2	0.10	542.70
151.0	0.00	0.0	-0.0	-0.0	0.00	542.50

********** SUMMARY OF ROUTING COMPUTATIONS **********

Pond File: e:\pondpack\12003\BASINB1 .PND
Inflow Hydrograph: e:\pondpack\12003\15B-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\15BOUT1 .HYD

Starting Pond W.S. Elevation = 542.50 ft

***** Summary of Peak Outflow and Peak Elevation *****

Peak Inflow	=	8.51 cfs
Peak Outflow	=	1.69 cfs
Peak Elevation	=	546.29 ft

***** Summary of Approximate Peak Storage *****

Initial Storage	=	0 cu-ft
Peak Storage From Storm	=	8,532 cu-ft
Total Storage in Pond	=	8,532 cu-ft

15 Return Freq: 15 years

Pond File: e:\pondpack\12003\BASINB1 .PND
Inflow Hydrograph: e:\pondpack\12003\15B-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\15BOUT1 .HYD

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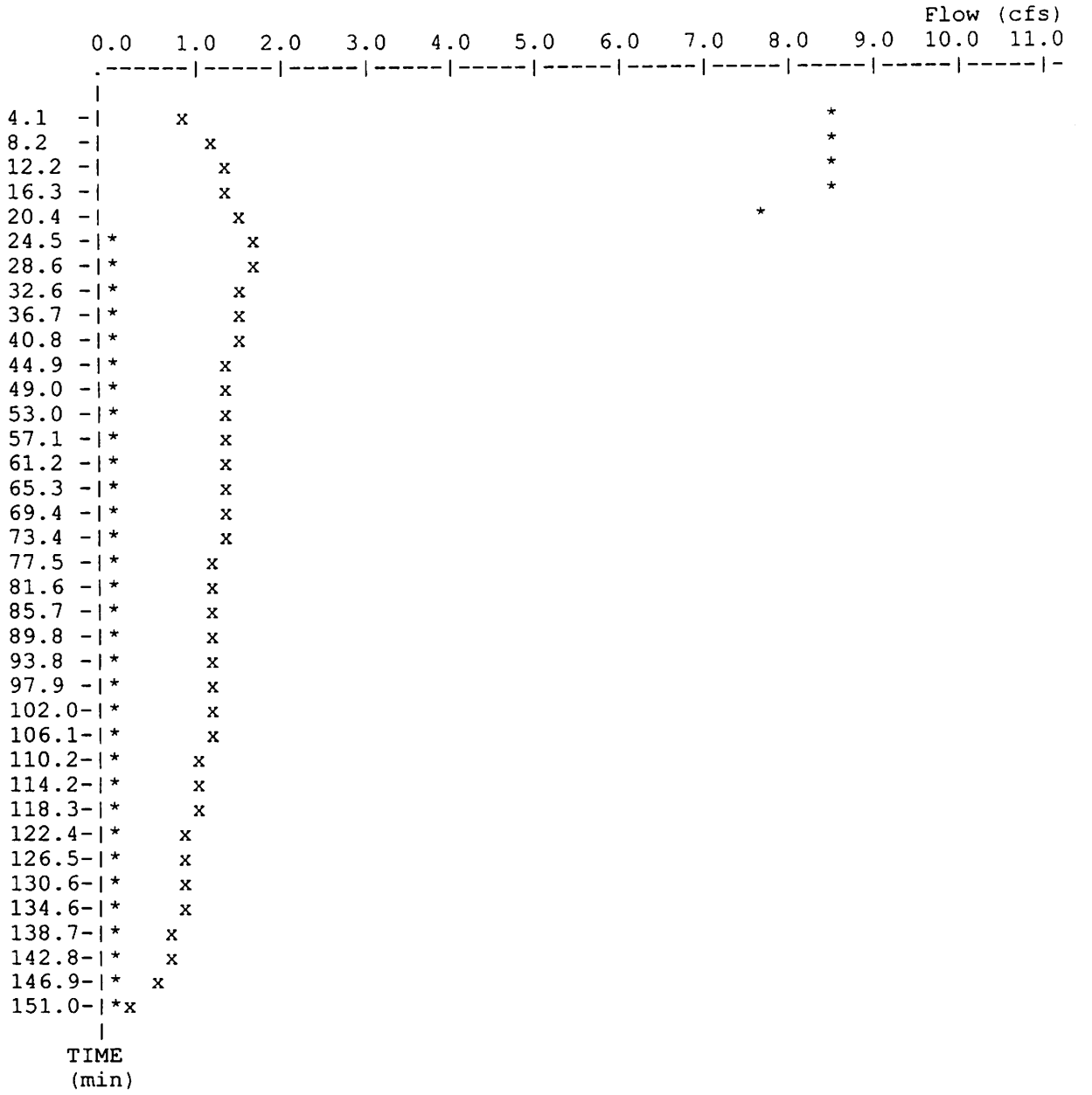
Peak Inflow = 8.51 cfs
Peak Outflow = 1.69 cfs
Peak Elevation = 546.29 ft



x File: e:\pondpack\12003\15BOUT1 .HYD Qmax = 1.7 cfs
* File: e:\pondpack\12003\15B-IN .HYD Qmax = 8.5 cfs

Inflow Hydrograph: e:\pondpack\12003\25B-IN .HYD
Rating Table file: e:\pondpack\12003\BASINB1 .PND

----INITIAL CONDITIONS----
Elevation = 542.50 ft
Outflow = 0.00 cfs
Storage = 0 cu-ft

GIVEN POND DATA			INTERMEDIATE ROUTING COMPUTATIONS	
ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (cu-ft)	2S/t (cfs)	2S/t + O (cfs)
542.50	0.0	0	0.0	0.0
542.70	0.1	3	0.1	0.2
542.90	0.2	20	0.7	0.9
543.10	0.5	69	2.3	2.8
543.30	0.6	164	5.5	6.1
543.50	0.7	321	10.7	11.4
543.70	0.8	554	18.5	19.3
543.90	0.9	880	29.3	30.2
544.10	0.9	1,303	43.4	44.3
544.30	1.0	1,770	59.0	60.0
544.50	1.1	2,272	75.7	76.8
544.70	1.1	2,810	93.7	94.8
544.90	1.2	3,386	112.9	114.1
545.10	1.2	4,000	133.3	134.5
545.30	1.3	4,655	155.2	156.5
545.50	1.3	5,351	178.4	179.7
545.70	1.4	6,090	203.0	204.4
545.90	1.4	6,873	229.1	230.5
546.10	1.5	7,700	256.7	258.2
546.30	1.7	8,573	285.8	287.5
546.50	2.0	9,491	316.4	318.4
546.70	2.3	10,456	348.5	350.8
546.90	2.7	11,469	382.3	385.0
547.10	3.2	12,531	417.7	420.9
547.30	3.7	13,643	454.8	458.5
547.50	1.8	14,808	493.6	495.4
547.70	1.8	16,025	534.2	536.0
547.90	1.8	17,296	576.5	578.3
548.10	1.9	18,621	620.7	622.6
548.30	1.9	20,001	666.7	668.6
548.50	2.0	21,437	714.6	716.6

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (cu-ft)
548.70	2.0	22,930
548.90	2.0	24,480
549.10	2.1	26,089
549.30	2.1	27,757

INTERMEDIATE ROUTING COMPUTATIONS

2S/t (cfs)	2S/t + O (cfs)
764.3	766.3
816.0	818.0
869.6	871.7
925.2	927.3

Time increment (t) = 1.0 min.

Pond File: e:\pondpack\12003\BASINB1 .PND
Inflow Hydrograph: e:\pondpack\12003\25B-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\25BOUT1 .HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
0.0	0.00	-----	0.0	0.0	0.00	542.50
1.0	2.63	2.6	1.7	2.6	0.47	543.08
2.0	5.26	7.9	8.2	9.6	0.67	543.43
3.0	7.88	13.1	19.7	21.4	0.82	543.74
4.0	10.51	18.4	36.3	38.1	0.90	544.01
5.0	10.51	21.0	55.4	57.4	0.98	544.27
6.0	10.51	21.0	74.2	76.4	1.10	544.50
7.0	10.51	21.0	93.0	95.2	1.10	544.70
8.0	10.51	21.0	111.6	114.0	1.20	544.90
9.0	10.51	21.0	130.3	132.7	1.20	545.08
10.0	10.51	21.0	148.7	151.3	1.28	545.25
11.0	10.51	21.0	167.2	169.8	1.30	545.41
12.0	10.51	21.0	185.5	188.2	1.33	545.57
13.0	10.51	21.0	203.7	206.5	1.40	545.72
14.0	10.51	21.0	221.9	224.7	1.40	545.86
15.0	10.51	21.0	240.1	243.0	1.45	545.99
16.0	10.51	21.0	258.1	261.1	1.52	546.12
17.0	10.51	21.0	275.8	279.1	1.64	546.24
18.0	10.51	21.0	293.2	296.8	1.79	546.36
19.0	10.51	21.0	310.3	314.3	1.96	546.47
20.0	10.51	21.0	327.1	331.4	2.12	546.58
21.0	7.88	18.4	341.0	345.5	2.25	546.67
22.0	5.26	13.1	349.5	354.1	2.34	546.72
23.0	2.63	7.9	352.6	357.4	2.38	546.74
24.0	0.00	2.6	350.5	355.2	2.35	546.73
25.0	0.00	0.0	345.9	350.5	2.30	546.70
26.0	0.00	0.0	341.4	345.9	2.25	546.67
27.0	0.00	0.0	337.0	341.4	2.21	546.64
28.0	0.00	0.0	332.7	337.0	2.17	546.61
29.0	0.00	0.0	328.4	332.7	2.13	546.59
30.0	0.00	0.0	324.2	328.4	2.09	546.56
31.0	0.00	0.0	320.1	324.2	2.05	546.54
32.0	0.00	0.0	316.1	320.1	2.02	546.51
33.0	0.00	0.0	312.1	316.1	1.98	546.49
34.0	0.00	0.0	308.2	312.1	1.94	546.46
35.0	0.00	0.0	304.4	308.2	1.90	546.43
36.0	0.00	0.0	300.7	304.4	1.86	546.41
37.0	0.00	0.0	297.0	300.7	1.83	546.39
38.0	0.00	0.0	293.5	297.0	1.79	546.36
39.0	0.00	0.0	289.9	293.5	1.76	546.34
40.0	0.00	0.0	286.5	289.9	1.72	546.32
41.0	0.00	0.0	283.1	286.5	1.69	546.29
42.0	0.00	0.0	279.8	283.1	1.67	546.27
43.0	0.00	0.0	276.5	279.8	1.65	546.25
44.0	0.00	0.0	273.2	276.5	1.62	546.22

Pond File: e:\pondpack\12003\BASINB1 .PND
Inflow Hydrograph: e:\pondpack\12003\25B-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\25BOUT1 .HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
45.0	0.00	0.0	270.0	273.2	1.60	546.20
46.0	0.00	0.0	266.8	270.0	1.58	546.18
47.0	0.00	0.0	263.7	266.8	1.56	546.16
48.0	0.00	0.0	260.7	263.7	1.54	546.14
49.0	0.00	0.0	257.6	260.7	1.52	546.12
50.0	0.00	0.0	254.6	257.6	1.50	546.10
51.0	0.00	0.0	251.6	254.6	1.49	546.07
52.0	0.00	0.0	248.7	251.6	1.48	546.05
53.0	0.00	0.0	245.8	248.7	1.47	546.03
54.0	0.00	0.0	242.9	245.8	1.46	546.01
55.0	0.00	0.0	240.0	242.9	1.44	545.99
56.0	0.00	0.0	237.1	240.0	1.43	545.97
57.0	0.00	0.0	234.2	237.1	1.42	545.95
58.0	0.00	0.0	231.4	234.2	1.41	545.93
59.0	0.00	0.0	228.6	231.4	1.40	545.91
60.0	0.00	0.0	225.8	228.6	1.40	545.89
61.0	0.00	0.0	223.0	225.8	1.40	545.86
62.0	0.00	0.0	220.2	223.0	1.40	545.84
63.0	0.00	0.0	217.4	220.2	1.40	545.82
64.0	0.00	0.0	214.6	217.4	1.40	545.80
65.0	0.00	0.0	211.8	214.6	1.40	545.78
66.0	0.00	0.0	209.0	211.8	1.40	545.76
67.0	0.00	0.0	206.2	209.0	1.40	545.74
68.0	0.00	0.0	203.4	206.2	1.40	545.71
69.0	0.00	0.0	200.6	203.4	1.40	545.69
70.0	0.00	0.0	197.9	200.6	1.38	545.67
71.0	0.00	0.0	195.1	197.9	1.37	545.65
72.0	0.00	0.0	192.4	195.1	1.36	545.62
73.0	0.00	0.0	189.7	192.4	1.35	545.60
74.0	0.00	0.0	187.0	189.7	1.34	545.58
75.0	0.00	0.0	184.3	187.0	1.33	545.56
76.0	0.00	0.0	181.7	184.3	1.32	545.54
77.0	0.00	0.0	179.1	181.7	1.31	545.52
78.0	0.00	0.0	176.5	179.1	1.30	545.49
79.0	0.00	0.0	173.9	176.5	1.30	545.47
80.0	0.00	0.0	171.3	173.9	1.30	545.45
81.0	0.00	0.0	168.7	171.3	1.30	545.43
82.0	0.00	0.0	166.1	168.7	1.30	545.41
83.0	0.00	0.0	163.5	166.1	1.30	545.38
84.0	0.00	0.0	160.9	163.5	1.30	545.36
85.0	0.00	0.0	158.3	160.9	1.30	545.34
86.0	0.00	0.0	155.7	158.3	1.30	545.32
87.0	0.00	0.0	153.1	155.7	1.30	545.29
88.0	0.00	0.0	150.5	153.1	1.28	545.27
89.0	0.00	0.0	148.0	150.5	1.27	545.25
90.0	0.00	0.0	145.5	148.0	1.26	545.22

Pond File: e:\pondpack\12003\BASINB1 .PND
Inflow Hydrograph: e:\pondpack\12003\25B-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\25BOUT1 .HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
91.0	0.00	0.0	143.0	145.5	1.25	545.20
92.0	0.00	0.0	140.5	143.0	1.24	545.18
93.0	0.00	0.0	138.0	140.5	1.23	545.15
94.0	0.00	0.0	135.6	138.0	1.22	545.13
95.0	0.00	0.0	133.2	135.6	1.20	545.11
96.0	0.00	0.0	130.8	133.2	1.20	545.09
97.0	0.00	0.0	128.4	130.8	1.20	545.06
98.0	0.00	0.0	126.0	128.4	1.20	545.04
99.0	0.00	0.0	123.6	126.0	1.20	545.02
100.0	0.00	0.0	121.2	123.6	1.20	544.99
101.0	0.00	0.0	118.8	121.2	1.20	544.97
102.0	0.00	0.0	116.4	118.8	1.20	544.95
103.0	0.00	0.0	114.0	116.4	1.20	544.92
104.0	0.00	0.0	111.6	114.0	1.20	544.90
105.0	0.00	0.0	109.2	111.6	1.19	544.87
106.0	0.00	0.0	106.9	109.2	1.17	544.85
107.0	0.00	0.0	104.5	106.9	1.16	544.83
108.0	0.00	0.0	102.2	104.5	1.15	544.80
109.0	0.00	0.0	100.0	102.2	1.14	544.78
110.0	0.00	0.0	97.7	100.0	1.13	544.75
111.0	0.00	0.0	95.5	97.7	1.12	544.73
112.0	0.00	0.0	93.3	95.5	1.10	544.71
113.0	0.00	0.0	91.1	93.3	1.10	544.68
114.0	0.00	0.0	88.9	91.1	1.10	544.66
115.0	0.00	0.0	86.7	88.9	1.10	544.63
116.0	0.00	0.0	84.5	86.7	1.10	544.61
117.0	0.00	0.0	82.3	84.5	1.10	544.59
118.0	0.00	0.0	80.1	82.3	1.10	544.56
119.0	0.00	0.0	77.9	80.1	1.10	544.54
120.0	0.00	0.0	75.7	77.9	1.10	544.51
121.0	0.00	0.0	73.5	75.7	1.09	544.49
122.0	0.00	0.0	71.3	73.5	1.08	544.46
123.0	0.00	0.0	69.2	71.3	1.07	544.43
124.0	0.00	0.0	67.1	69.2	1.05	544.41
125.0	0.00	0.0	65.0	67.1	1.04	544.38
126.0	0.00	0.0	62.9	65.0	1.03	544.36
127.0	0.00	0.0	60.9	62.9	1.02	544.33
128.0	0.00	0.0	58.9	60.9	1.01	544.31
129.0	0.00	0.0	56.9	58.9	0.99	544.29
130.0	0.00	0.0	54.9	56.9	0.98	544.26
131.0	0.00	0.0	53.0	54.9	0.97	544.24
132.0	0.00	0.0	51.1	53.0	0.96	544.21
133.0	0.00	0.0	49.2	51.1	0.94	544.19
134.0	0.00	0.0	47.3	49.2	0.93	544.16
135.0	0.00	0.0	45.5	47.3	0.92	544.14
136.0	0.00	0.0	43.7	45.5	0.91	544.11

Pond File: e:\pondpack\12003\BASINB1 .PND
Inflow Hydrograph: e:\pondpack\12003\25B-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\25BOUT1 .HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
137.0	0.00	0.0	41.9	43.7	0.90	544.09
138.0	0.00	0.0	40.1	41.9	0.90	544.07
139.0	0.00	0.0	38.3	40.1	0.90	544.04
140.0	0.00	0.0	36.5	38.3	0.90	544.01
141.0	0.00	0.0	34.7	36.5	0.90	543.99
142.0	0.00	0.0	32.9	34.7	0.90	543.96
143.0	0.00	0.0	31.1	32.9	0.90	543.94
144.0	0.00	0.0	29.3	31.1	0.90	543.91
145.0	0.00	0.0	27.5	29.3	0.89	543.88
146.0	0.00	0.0	25.8	27.5	0.88	543.85
147.0	0.00	0.0	24.0	25.8	0.86	543.82
148.0	0.00	0.0	22.4	24.0	0.84	543.79
149.0	0.00	0.0	20.7	22.4	0.83	543.76
150.0	0.00	0.0	19.1	20.7	0.81	543.73
151.0	0.00	0.0	17.5	19.1	0.80	543.69

********** SUMMARY OF ROUTING COMPUTATIONS **********

Pond File: e:\pondpack\12003\BASINB1 .PND
Inflow Hydrograph: e:\pondpack\12003\25B-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\25BOUT1 .HYD

Starting Pond W.S. Elevation = 542.50 ft

***** Summary of Peak Outflow and Peak Elevation *****

Peak Inflow	=	10.51 cfs
Peak Outflow	=	2.38 cfs
Peak Elevation	=	546.74 ft

***** Summary of Approximate Peak Storage *****

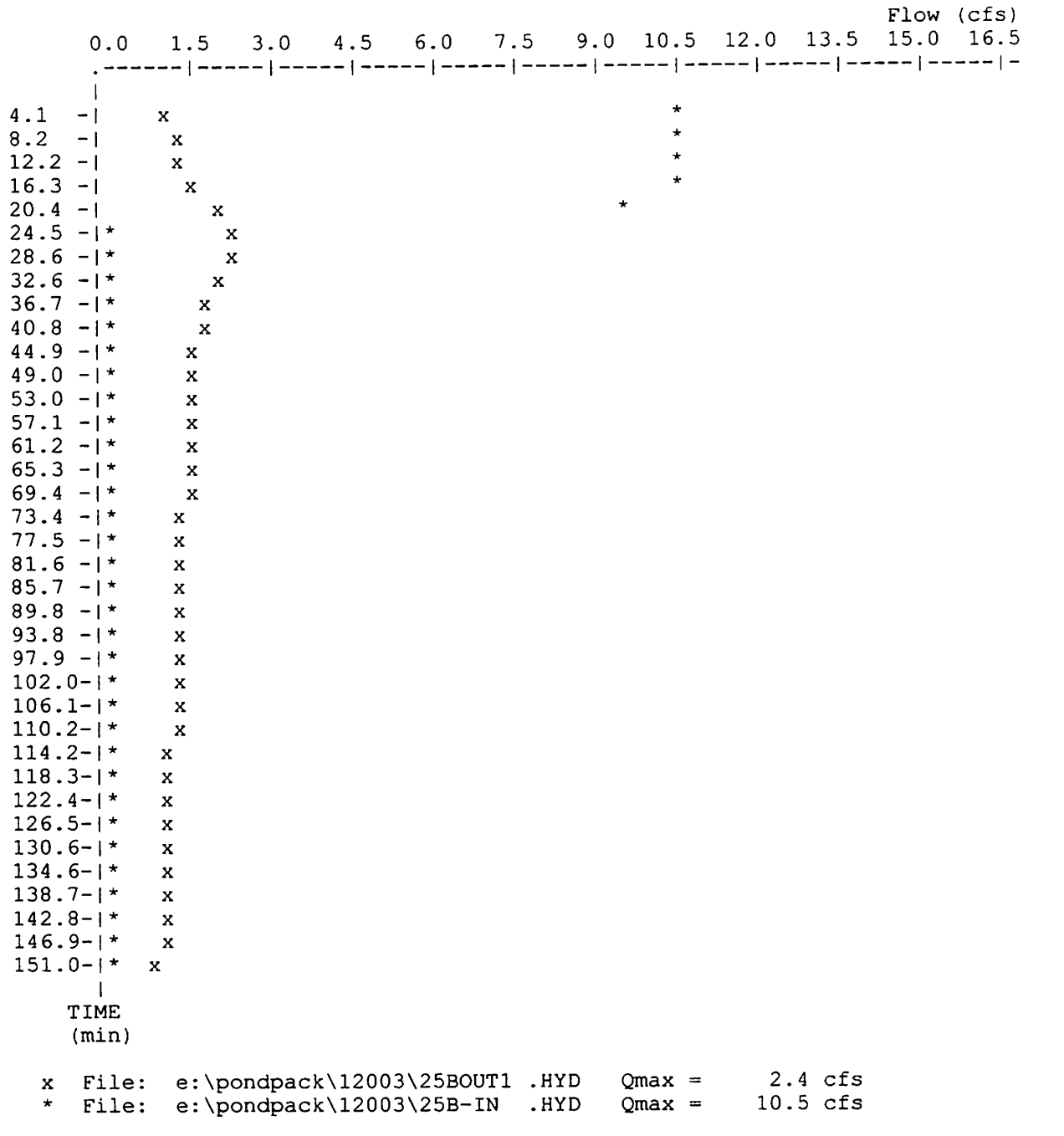
Initial Storage	=	0 cu-ft
Peak Storage From Storm	=	10,649 cu-ft
Total Storage in Pond	=	10,649 cu-ft

25 Return Freq: 25 years

Pond File: e:\pondpack\12003\BASINB1 .PND
Inflow Hydrograph: e:\pondpack\12003\25B-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\25BOUT1 .HYD

EXECUTED: 04-01-2003
13:29:57

Peak Inflow = 10.51 cfs
Peak Outflow = 2.38 cfs
Peak Elevation = 546.74 ft



x File: e:\pondpack\12003\25BOUT1 .HYD Qmax = 2.4 cfs
* File: e:\pondpack\12003\25B-IN .HYD Qmax = 10.5 cfs

Inflow Hydrograph: e:\pondpack\12003\100B-IN .HYD
Rating Table file: e:\pondpack\12003\BASINB1 .PND

----INITIAL CONDITIONS----
Elevation = 542.50 ft
Outflow = 0.00 cfs
Storage = 0 cu-ft

GIVEN POND DATA			INTERMEDIATE ROUTING COMPUTATIONS	
ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (cu-ft)	2S/t (cfs)	2S/t + O (cfs)
542.50	0.0	0	0.0	0.0
542.70	0.1	3	0.1	0.2
542.90	0.2	20	0.7	0.9
543.10	0.5	69	2.3	2.8
543.30	0.6	164	5.5	6.1
543.50	0.7	321	10.7	11.4
543.70	0.8	554	18.5	19.3
543.90	0.9	880	29.3	30.2
544.10	0.9	1,303	43.4	44.3
544.30	1.0	1,770	59.0	60.0
544.50	1.1	2,272	75.7	76.8
544.70	1.1	2,810	93.7	94.8
544.90	1.2	3,386	112.9	114.1
545.10	1.2	4,000	133.3	134.5
545.30	1.3	4,655	155.2	156.5
545.50	1.3	5,351	178.4	179.7
545.70	1.4	6,090	203.0	204.4
545.90	1.4	6,873	229.1	230.5
546.10	1.5	7,700	256.7	258.2
546.30	1.7	8,573	285.8	287.5
546.50	2.0	9,491	316.4	318.4
546.70	2.3	10,456	348.5	350.8
546.90	2.7	11,469	382.3	385.0
547.10	3.2	12,531	417.7	420.9
547.30	3.7	13,643	454.8	458.5
547.50	1.8	14,808	493.6	495.4
547.70	1.8	16,025	534.2	536.0
547.90	1.8	17,296	576.5	578.3
548.10	1.9	18,621	620.7	622.6
548.30	1.9	20,001	666.7	668.6
548.50	2.0	21,437	714.6	716.6

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (cu-ft)
548.70	2.0	22,930
548.90	2.0	24,480
549.10	2.1	26,089
549.30	2.1	27,757

INTERMEDIATE ROUTING COMPUTATIONS

2S/t (cfs)	2S/t + O (cfs)
764.3	766.3
816.0	818.0
869.6	871.7
925.2	927.3

Time increment (t) = 1.0 min.

Pond File: e:\pondpack\12003\BASINB1 .PND
Inflow Hydrograph: e:\pondpack\12003\100B-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\100BOUT1.HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
0.0	0.00	-----	0.0	0.0	0.00	542.50
1.0	3.36	3.4	2.3	3.4	0.52	543.13
2.0	6.72	10.1	11.0	12.4	0.71	543.53
3.0	10.08	16.8	26.0	27.8	0.88	543.86
4.0	13.44	23.5	47.7	49.5	0.93	544.17
5.0	13.44	26.9	72.4	74.6	1.09	544.47
6.0	13.44	26.9	97.0	99.3	1.12	544.75
7.0	13.44	26.9	121.5	123.9	1.20	545.00
8.0	13.44	26.9	145.9	148.4	1.26	545.23
9.0	13.44	26.9	170.1	172.7	1.30	545.44
10.0	13.44	26.9	194.3	197.0	1.37	545.64
11.0	13.44	26.9	218.4	221.2	1.40	545.83
12.0	13.44	26.9	242.3	245.2	1.45	546.01
13.0	13.44	26.9	266.1	269.2	1.58	546.18
14.0	13.44	26.9	289.4	292.9	1.75	546.34
15.0	13.44	26.9	312.3	316.3	1.98	546.49
16.0	13.44	26.9	334.8	339.2	2.19	546.63
17.0	13.44	26.9	356.9	361.7	2.43	546.76
18.0	13.44	26.9	378.4	383.7	2.69	546.89
19.0	13.44	26.9	399.3	405.3	2.98	547.01
20.0	13.44	26.9	419.6	426.2	3.27	547.13
21.0	10.08	23.5	436.2	443.2	3.50	547.22
22.0	6.72	16.8	445.7	453.0	3.63	547.27
23.0	3.36	10.1	448.5	455.8	3.66	547.29
24.0	0.00	3.4	444.6	451.8	3.61	547.26
25.0	0.00	0.0	437.6	444.6	3.52	547.23
26.0	0.00	0.0	430.7	437.6	3.42	547.19
27.0	0.00	0.0	424.1	430.7	3.33	547.15
28.0	0.00	0.0	417.6	424.1	3.24	547.12
29.0	0.00	0.0	411.3	417.6	3.15	547.08
30.0	0.00	0.0	405.1	411.3	3.07	547.05
31.0	0.00	0.0	399.2	405.1	2.98	547.01
32.0	0.00	0.0	393.4	399.2	2.90	546.98
33.0	0.00	0.0	387.7	393.4	2.82	546.95
34.0	0.00	0.0	382.3	387.7	2.74	546.92
35.0	0.00	0.0	376.9	382.3	2.67	546.88
36.0	0.00	0.0	371.7	376.9	2.61	546.85
37.0	0.00	0.0	366.6	371.7	2.54	546.82
38.0	0.00	0.0	361.7	366.6	2.49	546.79
39.0	0.00	0.0	356.8	361.7	2.43	546.76
40.0	0.00	0.0	352.1	356.8	2.37	546.74
41.0	0.00	0.0	347.4	352.1	2.31	546.71
42.0	0.00	0.0	342.9	347.4	2.27	546.68
43.0	0.00	0.0	338.4	342.9	2.23	546.65
44.0	0.00	0.0	334.1	338.4	2.19	546.62

Pond File: e:\pondpack\12003\BASINB1 .PND
Inflow Hydrograph: e:\pondpack\12003\100B-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\100BOUT1.HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
45.0	0.00	0.0	329.8	334.1	2.15	546.60
46.0	0.00	0.0	325.6	329.8	2.11	546.57
47.0	0.00	0.0	321.4	325.6	2.07	546.54
48.0	0.00	0.0	317.4	321.4	2.03	546.52
49.0	0.00	0.0	313.4	317.4	1.99	546.49
50.0	0.00	0.0	309.5	313.4	1.95	546.47
51.0	0.00	0.0	305.7	309.5	1.91	546.44
52.0	0.00	0.0	301.9	305.7	1.88	546.42
53.0	0.00	0.0	298.2	301.9	1.84	546.39
54.0	0.00	0.0	294.6	298.2	1.80	546.37
55.0	0.00	0.0	291.1	294.6	1.77	546.35
56.0	0.00	0.0	287.6	291.1	1.74	546.32
57.0	0.00	0.0	284.2	287.6	1.70	546.30
58.0	0.00	0.0	280.9	284.2	1.68	546.28
59.0	0.00	0.0	277.6	280.9	1.65	546.25
60.0	0.00	0.0	274.3	277.6	1.63	546.23
61.0	0.00	0.0	271.1	274.3	1.61	546.21
62.0	0.00	0.0	267.9	271.1	1.59	546.19
63.0	0.00	0.0	264.8	267.9	1.57	546.17
64.0	0.00	0.0	261.7	264.8	1.54	546.14
65.0	0.00	0.0	258.6	261.7	1.52	546.12
66.0	0.00	0.0	255.6	258.6	1.50	546.10
67.0	0.00	0.0	252.6	255.6	1.49	546.08
68.0	0.00	0.0	249.7	252.6	1.48	546.06
69.0	0.00	0.0	246.7	249.7	1.47	546.04
70.0	0.00	0.0	243.8	246.7	1.46	546.02
71.0	0.00	0.0	240.9	243.8	1.45	546.00
72.0	0.00	0.0	238.0	240.9	1.44	545.98
73.0	0.00	0.0	235.2	238.0	1.43	545.95
74.0	0.00	0.0	232.4	235.2	1.42	545.93
75.0	0.00	0.0	229.5	232.4	1.41	545.91
76.0	0.00	0.0	226.7	229.5	1.40	545.89
77.0	0.00	0.0	223.9	226.7	1.40	545.87
78.0	0.00	0.0	221.1	223.9	1.40	545.85
79.0	0.00	0.0	218.3	221.1	1.40	545.83
80.0	0.00	0.0	215.5	218.3	1.40	545.81
81.0	0.00	0.0	212.7	215.5	1.40	545.79
82.0	0.00	0.0	209.9	212.7	1.40	545.76
83.0	0.00	0.0	207.1	209.9	1.40	545.74
84.0	0.00	0.0	204.3	207.1	1.40	545.72
85.0	0.00	0.0	201.5	204.3	1.40	545.70
86.0	0.00	0.0	198.8	201.5	1.39	545.68
87.0	0.00	0.0	196.0	198.8	1.38	545.65
88.0	0.00	0.0	193.3	196.0	1.37	545.63
89.0	0.00	0.0	190.6	193.3	1.36	545.61
90.0	0.00	0.0	187.9	190.6	1.34	545.59

Pond File: e:\pondpack\12003\BASINB1 .PND
Inflow Hydrograph: e:\pondpack\12003\100B-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\100BOUT1.HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
91.0	0.00	0.0	185.2	187.9	1.33	545.57
92.0	0.00	0.0	182.6	185.2	1.32	545.54
93.0	0.00	0.0	179.9	182.6	1.31	545.52
94.0	0.00	0.0	177.3	179.9	1.30	545.50
95.0	0.00	0.0	174.7	177.3	1.30	545.48
96.0	0.00	0.0	172.1	174.7	1.30	545.46
97.0	0.00	0.0	169.5	172.1	1.30	545.44
98.0	0.00	0.0	166.9	169.5	1.30	545.41
99.0	0.00	0.0	164.3	166.9	1.30	545.39
100.0	0.00	0.0	161.7	164.3	1.30	545.37
101.0	0.00	0.0	159.1	161.7	1.30	545.35
102.0	0.00	0.0	156.5	159.1	1.30	545.32
103.0	0.00	0.0	153.9	156.5	1.30	545.30
104.0	0.00	0.0	151.4	153.9	1.29	545.28
105.0	0.00	0.0	148.8	151.4	1.28	545.25
106.0	0.00	0.0	146.3	148.8	1.27	545.23
107.0	0.00	0.0	143.8	146.3	1.25	545.21
108.0	0.00	0.0	141.3	143.8	1.24	545.18
109.0	0.00	0.0	138.8	141.3	1.23	545.16
110.0	0.00	0.0	136.4	138.8	1.22	545.14
111.0	0.00	0.0	134.0	136.4	1.21	545.12
112.0	0.00	0.0	131.6	134.0	1.20	545.09
113.0	0.00	0.0	129.2	131.6	1.20	545.07
114.0	0.00	0.0	126.8	129.2	1.20	545.05
115.0	0.00	0.0	124.4	126.8	1.20	545.02
116.0	0.00	0.0	122.0	124.4	1.20	545.00
117.0	0.00	0.0	119.6	122.0	1.20	544.98
118.0	0.00	0.0	117.2	119.6	1.20	544.95
119.0	0.00	0.0	114.8	117.2	1.20	544.93
120.0	0.00	0.0	112.4	114.8	1.20	544.91
121.0	0.00	0.0	110.0	112.4	1.19	544.88
122.0	0.00	0.0	107.6	110.0	1.18	544.86
123.0	0.00	0.0	105.3	107.6	1.17	544.83
124.0	0.00	0.0	103.0	105.3	1.15	544.81
125.0	0.00	0.0	100.7	103.0	1.14	544.79
126.0	0.00	0.0	98.4	100.7	1.13	544.76
127.0	0.00	0.0	96.2	98.4	1.12	544.74
128.0	0.00	0.0	94.0	96.2	1.11	544.71
129.0	0.00	0.0	91.8	94.0	1.10	544.69
130.0	0.00	0.0	89.6	91.8	1.10	544.67
131.0	0.00	0.0	87.4	89.6	1.10	544.64
132.0	0.00	0.0	85.2	87.4	1.10	544.62
133.0	0.00	0.0	83.0	85.2	1.10	544.59
134.0	0.00	0.0	80.8	83.0	1.10	544.57
135.0	0.00	0.0	78.6	80.8	1.10	544.54
136.0	0.00	0.0	76.4	78.6	1.10	544.52

Pond File: e:\pondpack\12003\BASINB1 .PND
Inflow Hydrograph: e:\pondpack\12003\100B-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\100BOUT1.HYD

INFLOW HYDROGRAPH		ROUTING COMPUTATIONS				
TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
137.0	0.00	0.0	74.2	76.4	1.10	544.49
138.0	0.00	0.0	72.0	74.2	1.08	544.47
139.0	0.00	0.0	69.9	72.0	1.07	544.44
140.0	0.00	0.0	67.8	69.9	1.06	544.42
141.0	0.00	0.0	65.7	67.8	1.05	544.39
142.0	0.00	0.0	63.6	65.7	1.03	544.37
143.0	0.00	0.0	61.6	63.6	1.02	544.34
144.0	0.00	0.0	59.5	61.6	1.01	544.32
145.0	0.00	0.0	57.6	59.5	1.00	544.29
146.0	0.00	0.0	55.6	57.6	0.98	544.27
147.0	0.00	0.0	53.6	55.6	0.97	544.24
148.0	0.00	0.0	51.7	53.6	0.96	544.22
149.0	0.00	0.0	49.8	51.7	0.95	544.19
150.0	0.00	0.0	48.0	49.8	0.94	544.17
151.0	0.00	0.0	46.1	48.0	0.92	544.15

********** SUMMARY OF ROUTING COMPUTATIONS **********

Pond File: e:\pondpack\12003\BASINB1 .PND
Inflow Hydrograph: e:\pondpack\12003\100B-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\100BOUT1.HYD

Starting Pond W.S. Elevation = 542.50 ft

***** Summary of Peak Outflow and Peak Elevation *****

Peak Inflow	=	13.44 cfs
Peak Outflow	=	3.66 cfs
Peak Elevation	=	547.29 ft

***** Summary of Approximate Peak Storage *****

Initial Storage	=	0 cu-ft
Peak Storage From Storm	=	13,564 cu-ft
Total Storage in Pond	=	13,564 cu-ft

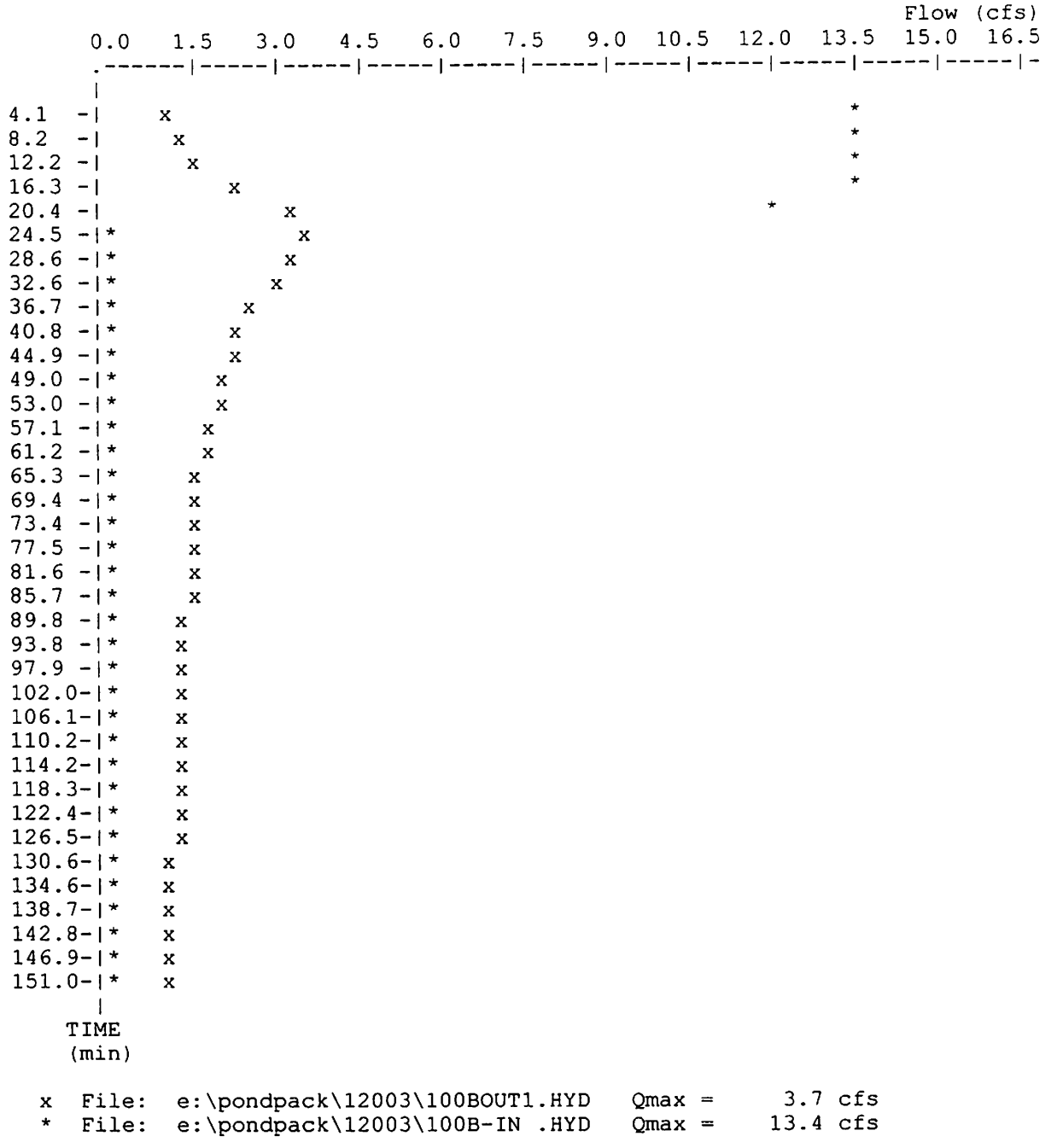
POND-2 Version: 5.20 S/N:

100 Return Freq: 100 years

Pond File: e:\pondpack\12003\BASINB1 .PND
Inflow Hydrograph: e:\pondpack\12003\100B-IN .HYD
Outflow Hydrograph: e:\pondpack\12003\100BOUT1.HYD

EXECUTED: 04-01-2003 13:29:57

Peak Inflow = 13.44 cfs
Peak Outflow = 3.66 cfs
Peak Elevation = 547.29 ft



x File: e:\pondpack\12003\100BOUT1.HYD Qmax = 3.7 cfs
* File: e:\pondpack\12003\100B-IN .HYD Qmax = 13.4 cfs

Channel Calculator
BASIN B SWALE FOR 2 YEAR STORM

Given Input Data:

Shape ..... Rectangular
Solving for ..... Depth of Flow
Flowrate ..... 5.1800 cfs
Slope ..... 0.0078 ft/ft
Manning's n 0.0130
Height ..... 0.5000 ft
Bottom width ..... 4.0000 ft

Computed Results:

Depth ..... 0.3089 ft
Velocity ..... 4.1921 fps
Full Flowrate ..... 10.9612 cfs
Flow area 1.2357 ft2
Flow perimeter ..... 4.6178 ft
Hydraulic radius ..... 0.2676 ft
Top width ..... 4.0000 ft
Area 2.0000 ft2
Perimeter ..... 5.0000 ft
Percent full ..... 61.7831 %

Critical Information

Critical depth ..... 0.0000 ft
Critical slope ..... 0.0000 ft/ft
Critical velocity ..... 0.0000 fps
Critical area 0.0000 ft2
Critical perimeter ..... 0.0000 ft
Critical hydraulic radius ..... 0.0000 ft
Critical top width ..... 0.0000 ft
Specific energy ..... 0.0000 ft
Minimum energy ..... 0.0000 ft
Froude number 0.0000
Flow condition ..... Critical

Manning Pipe Calculator
18" CMP DOWNSTREAM OF FE 30

Given Input Data:

- Shape ..... Circular
- Solving for ..... Depth of Flow
- Diameter ..... 1.5000 ft
- Flowrate ..... 8.5400 cfs
- Slope ..... 0.0210 ft/ft
- Manning's n 0.0240

Computed Results:

- Depth ..... 1.2840 ft
- Area 1.7671 ft2
- Wetted Area 1.6105 ft2
- Wetted Perimeter ..... 3.5447 ft
- Perimeter ..... 4.7124 ft
- Velocity ..... 5.3028 fps
- Hydraulic Radius ..... 0.4543 ft
- Percent Full ..... 85.5995 %
- Full flow Flowrate ..... 8.2454 cfs
- Full flow velocity ..... 4.6659 fps

Critical Information

- Critical depth ..... 1.1634 ft
- Critical slope ..... 0.0229 ft/ft
- Critical velocity ..... 5.6792 fps
- Critical area 1.5037 ft2
- Critical perimeter ..... 3.1831 ft
- Critical hydraulic radius ..... 0.4724 ft
- Critical top width ..... 1.5000 ft
- Specific energy ..... 1.6664 ft
- Minimum energy ..... 1.7451 ft
- Froude number 0.9500
- Flow condition ..... Subcritical

Channel Calculator
BASIN A SWALE FOR 2 YEAR STORM

Given Input Data:

Shape ..... Rectangular
Solving for ..... Depth of Flow
Flowrate ..... 9.5200 cfs
Slope ..... 0.0100 ft/ft
Manning's n 0.0130
Height ..... 0.5000 ft
Bottom width ..... 4.0000 ft

Computed Results:

Depth ..... 0.4210 ft
Velocity ..... 5.6531 fps
Full Flowrate ..... 12.4112 cfs
Flow area 1.6840 ft2
Flow perimeter ..... 4.8420 ft
Hydraulic radius ..... 0.3478 ft
Top width ..... 4.0000 ft
Area 2.0000 ft2
Perimeter ..... 5.0000 ft
Percent full ..... 84.2010 %

Critical Information

Critical depth ..... 0.0000 ft
Critical slope ..... 0.0000 ft/ft
Critical velocity ..... 0.0000 fps
Critical area 0.0000 ft2
Critical perimeter ..... 0.0000 ft
Critical hydraulic radius ..... 0.0000 ft
Critical top width ..... 0.0000 ft
Specific energy ..... 0.0000 ft
Minimum energy ..... 0.0000 ft
Froude number 0.0000
Flow condition ..... Critical