

Table of Contents

\*\*\*\*\* MASTER SUMMARY \*\*\*\*\*

Watershed..... Master Network Summary ..... 1.01

\*\*\*\*\* DESIGN STORMS SUMMARY \*\*\*\*\*

Sedgwick24..... Design Storms ..... 2.01

Sedgwick24..... 2y24h  
Design Storms ..... 2.03

\*\*\*\*\* POND VOLUMES \*\*\*\*\*

POND A..... Vol: El ev-Area ..... 3.01

POND B..... Vol: El ev-Area ..... 3.02

POND C..... Vol: El ev-Area ..... 3.03

POND D..... Vol: El ev-Area ..... 3.04

POND E..... Vol: El ev-Area ..... 3.05

POND F..... Vol: El ev-Area ..... 3.06

POND G..... Vol: El ev-Area ..... 3.07

MASTER DESIGN STORM SUMMARY

Default Network Design Storm File, ID SEDGWICK.RN Sedgwick24

Return Event	Total Depth in	Rainfall Type	RNF File	RNF ID
2y24h	3.5000	Synthetic Curve	SCSTYPES	Type I 24hr
5y24h	4.5000	Synthetic Curve	SCSTYPES	Type I 24hr
10y24h	5.3000	Synthetic Curve	SCSTYPES	Type I 24hr
25y24h	6.1000	Synthetic Curve	SCS	SCSI
50y24h	7.0000	Synthetic Curve	SCSTYPES	Type I 24hr
100y24	7.9000	Synthetic Curve	SCSTYPES	Type I 24hr
500y24	9.6000	Synthetic Curve	SCSTYPES	Type I 24hr

ICPM CALCULATION TOLERANCES

Target Convergence= .000 cfs +/-  
 Max. Iterations = 35 loops  
 ICPM Time Step = .0500 hrs  
 Output Time Step = .0500 hrs  
 ICPM Ending Time = 35.0000 hrs

MASTER NETWORK SUMMARY  
 SCS Unit Hydrograph Method

(\*Node=Outfall; +Node=Diversi on; )  
 (Trun= HYG Truncati on; Blank=None; L=Left; R=Rt; LR=Left&Rt)

Storage Node ID	Return Type	Event	HYG Vol ac-ft	Trun	Qpeak hrs	Qpeak cfs	Max WSEL ft	Max Pond ac-ft
BASIN A	AREA	2	.487		12.0500	6.66		
BASIN A	AREA	5	.809		12.0500	11.54		
BASIN A	AREA	10	1.093		12.0500	15.79		
BASIN A	AREA	25	1.394		12.0000	9.44		
BASIN A	AREA	50	1.749		12.0500	25.43		
BASIN A	AREA	100	2.116		12.0500	30.74		
BASIN A	AREA	500	2.836		12.0500	40.96		
BASIN B	AREA	2	1.369		12.0500	18.71		
BASIN B	AREA	5	2.274		12.0500	32.43		
BASIN B	AREA	10	3.072		12.0500	44.38		

MASTER NETWORK SUMMARY  
SCS Unit Hydrograph Method

(\*Node=Outfall; +Node=Diversi on;)  
(Trun= HYG Truncati on: Bl ank=None; L=Left; R=Rt; LR=Left&Rt)

Storage Node ID	Return Type	Event	HYG Vol		Qpeak	Qpeak	Max WSEL	Max Pond
			ac-ft	Trun	hrs	cfs	ft	ac-ft
-								
BASIN B	AREA	25	3.919		12.0000	26.52		
BASIN B	AREA	50	4.915		12.0500	71.47		
BASIN B	AREA	100	5.948		12.0500	86.38		
BASIN B	AREA	500	7.969		12.0500	115.11		
BASIN C	AREA	2	7.881		12.0500	107.67		
BASIN C	AREA	5	13.084		12.0500	186.63		
BASIN C	AREA	10	17.678		12.0500	255.38		
BASIN C	AREA	25	22.550		12.0000	152.63		
BASIN C	AREA	50	28.285		12.0500	411.26		
BASIN C	AREA	100	34.226		12.0500	497.06		
BASIN C	AREA	500	45.861		12.0500	662.43		
BASIN D	AREA	2	1.344		12.0500	18.37		
BASIN D	AREA	5	2.232		12.0500	31.84		
BASIN D	AREA	10	3.015		12.0500	43.56		
BASIN D	AREA	25	3.846		12.0000	26.04		
BASIN D	AREA	50	4.825		12.0500	70.15		
BASIN D	AREA	100	5.838		12.0500	84.79		
BASIN D	AREA	500	7.823		12.0500	112.99		
BASIN E	AREA	2	5.041		12.0500	68.87		
BASIN E	AREA	5	8.369		12.0500	119.38		
BASIN E	AREA	10	11.308		12.0500	163.36		
BASIN E	AREA	25	14.424		12.0000	97.63		
BASIN E	AREA	50	18.093		12.0500	263.07		
BASIN E	AREA	100	21.893		12.0500	317.95		
BASIN E	AREA	500	29.335		12.0500	423.73		
BASIN F	AREA	2	6.814		12.0500	93.09		
BASIN F	AREA	5	11.312		12.0500	161.36		
BASIN F	AREA	10	15.284		12.0500	220.80		
BASIN F	AREA	25	19.497		12.0000	131.97		
BASIN F	AREA	50	24.455		12.0500	355.58		
BASIN F	AREA	100	29.592		12.0500	429.76		

MASTER NETWORK SUMMARY  
SCS Unit Hydrograph Method

(\*Node=Outfall; +Node=Diversi on;)  
(Trun= HYG Truncati on: Bl ank=None; L=Left; R=Rt; LR=Left&Rt)

Storage Node ID	Return Type	Event	HYG Vol ac-ft	Trun	Qpeak hrs	Qpeak cfs	Max WSEL ft	Max Pond ac-ft
BASIN F	AREA	500	39.652		12.0500	572.74		
BASIN G	AREA	2	1.991		12.0500	27.20		
BASIN G	AREA	5	3.306		12.0500	47.16		
BASIN G	AREA	10	4.467		12.0500	64.53		
BASIN G	AREA	25	5.698		12.0000	38.57		
BASIN G	AREA	50	7.147		12.0500	103.91		
BASIN G	AREA	100	8.648		12.0500	125.59		
BASIN G	AREA	500	11.587		12.0500	167.37		
POND A	POND	2	.854		12.0000	10.62		
POND A	POND	5	1.284		12.0000	16.66		
POND A	POND	10	1.654		12.0000	21.86		
POND A	POND	25	2.042		12.0000	12.85		
POND A	POND	50	2.494		12.0000	33.58		
POND A	POND	100	2.959		12.0000	40.01		
POND A	POND	500	3.863		12.0000	52.41		
POND A	OUT POND	2	.256		21.9500	.22	1332.57	.768
POND A	OUT POND	5	.612		24.9500	.46	1332.82	1.106
POND A	OUT POND	10	.893		25.3500	.66	1333.05	1.423
POND A	OUT POND	25	1.219		16.3500	.98	1333.17	1.589
POND A	OUT POND	50	1.625		15.3500	1.63	1333.32	1.810
POND A	OUT POND	100	2.059		14.8000	2.40	1333.51	2.081
POND A	OUT POND	500	2.922		14.5500	3.48	1333.88	2.624
POND A	OUT POND	2	-.028		14.8000	-.11(-Q)		
POND A RAIN	AREA	2	.366		11.9000	5.82		
POND A RAIN	AREA	5	.475		11.9000	7.49		
POND A RAIN	AREA	10	.561		11.9000	8.83		
POND A RAIN	AREA	25	.648		11.6500	3.42		
POND A RAIN	AREA	50	.745		11.9000	11.67		
POND A RAIN	AREA	100	.843		11.9000	13.17		
POND A RAIN	AREA	500	1.027		11.9000	16.01		

MASTER NETWORK SUMMARY  
SCS Unit Hydrograph Method

(\*Node=Outfall; +Node=Diversi on;)  
(Trun= HYG Truncati on; Bl ank=None; L=Left; R=Rt; LR=Left&Rt)

Storage Node ID	Return Type Event	HYG Vol ac-ft	Trun	Qpeak hrs	Qpeak cfs	Max WSEL ft	Max Pond ac-ft
-							
POND B	POND 2	2.274		12.0000	25.41		
POND B	POND 5	3.714		12.0000	41.11		
POND B	POND 10	4.928		12.0000	54.70		
POND B	POND 25	6.267		12.0000	32.45		
POND B	POND 50	7.874		12.0000	85.55		
POND B	POND 100	9.527		12.0000	102.37		
POND B	POND 500	12.763		12.0000	134.91		
POND B	OUT POND 2	1.363		18.4500	.84	1332.54	1.352
POND B	OUT POND 5	2.497		15.8500	1.67	1332.78	1.941
POND B	OUT POND 10	3.521		14.8000	2.42	1332.99	2.467
POND B	OUT POND 25	4.777		13.1500	6.57	1333.10	2.767
POND B	OUT POND 50	6.341		12.5000	13.20	1333.26	3.199
POND B	OUT POND 100	7.960		12.4000	20.32	1333.43	3.664
POND B	OUT POND 500	11.157		12.3000	39.95	1333.74	4.484
POND B RAIN	AREA 2	.676		11.9000	10.75		
POND B RAIN	AREA 5	.876		11.9000	13.84		
POND B RAIN	AREA 10	1.036		11.9000	16.30		
POND B RAIN	AREA 25	1.196		11.6500	6.31		
POND B RAIN	AREA 50	1.376		11.9000	21.55		
POND B RAIN	AREA 100	1.556		11.9000	24.32		
POND B RAIN	AREA 500	1.896		11.9000	29.56		
POND C	POND 2	11.357		12.0500	125.97		
POND C	POND 5	18.319		12.0500	210.30		
POND C	POND 10	24.437		12.0500	283.48		
POND C	POND 25	31.065		12.0000	174.13		
POND C	POND 50	38.926		12.0500	449.32		
POND C	POND 100	47.049		12.0500	543.63		
POND C	POND 500	62.943		12.0500	731.01		
POND C	OUT POND 2	.283		12.1500	1.56	1326.45	11.657
POND C	OUT POND 5	.687		12.5500	3.33	1327.23	18.543
POND C	OUT POND 10	1.116		12.2500	8.52	1327.88	24.529

MASTER NETWORK SUMMARY  
SCS Unit Hydrograph Method

(\*Node=Outfall; +Node=Diversi on; )  
(Trun= HYG Truncati on: Bl ank=None; L=Left; R=Rt; LR=Left&Rt)

Storage Node ID	Return Type Event	HYG Vol ac-ft	Trun	Qpeak hrs	Qpeak cfs	Max WSEL ft	Max
							Pond ac-ft
-							
POND C	OUT POND	25		11.9500	7.84	1328.52	30.776
POND C	OUT POND	50		12.1000	15.51	1329.26	38.147
POND C	OUT POND	100		12.2000	22.89	1330.00	45.661
POND C	OUT POND	500		12.1000	39.52	1331.34	60.229
POND C	OUT POND	2		15.8000	-2.04(-Q)		
POND C RAIN	AREA	2		11.9000	33.59		
POND C RAIN	AREA	5		11.9000	43.24		
POND C RAIN	AREA	10		11.9000	50.95		
POND C RAIN	AREA	25		11.8500	19.73		
POND C RAIN	AREA	50		11.9000	67.34		
POND C RAIN	AREA	100		11.9000	76.01		
POND C RAIN	AREA	500		11.9000	92.38		
POND D	POND	2		12.0000	24.09		
POND D	POND	5		12.0000	39.86		
POND D	POND	10		12.0000	53.58		
POND D	POND	25		12.0000	38.49		
POND D	POND	50		12.0500	93.57		
POND D	POND	100		12.0500	112.21		
POND D	POND	500		12.0500	153.99		
POND D	POND	2		15.8000	-1.06(-Q)		
POND D	OUT POND	2		11.9000	.19	1326.44	2.938
POND D	OUT POND	5		28.9000	.49	1327.23	4.759
POND D	OUT POND	10		27.8000	.64	1327.87	6.373
POND D	OUT POND	25		27.3500	.80	1328.52	8.091
POND D	OUT POND	50		27.4500	.86	1329.26	10.139
POND D	OUT POND	100		27.7000	.90	1329.99	12.265
POND D	OUT POND	500		27.3500	.94	1331.33	16.478
POND D	OUT POND	2		15.1000	-2.88(-Q)		
POND D RAIN	AREA	2		11.9000	8.06		
POND D RAIN	AREA	5		11.9000	10.38		
POND D RAIN	AREA	10		11.9000	12.23		

MASTER NETWORK SUMMARY  
SCS Unit Hydrograph Method

(\*Node=Outfall; +Node=Diversi on;)  
(Trun= HYG Truncati on: Bl ank=None; L=Left; R=Rt; LR=Left&Rt)

Storage Node ID	Return Type Event	HYG Vol ac-ft	Trun	Qpeak hrs	Qpeak cfs	Max WSEL ft	Max Pond ac-ft
-							
POND D RAIN	AREA	25	.897	11.7500	4.73		
POND D RAIN	AREA	50	1.032	11.9000	16.16		
POND D RAIN	AREA	100	1.167	11.9000	18.24		
POND D RAIN	AREA	500	1.422	11.9000	22.17		
POND E	POND	2	4.754	12.0500	78.02		
POND E	POND	5	7.716	12.0500	130.72		
POND E	POND	10	10.283	12.0500	176.34		
POND E	POND	25	13.240	12.0000	99.70		
POND E	POND	50	16.796	12.0500	276.19		
POND E	POND	100	20.512	12.0000	332.68		
POND E	POND	500	27.855	12.0000	442.77		
POND E	POND	2	-.042	24.5000	-.36(-0)		
POND E	OUT POND	2	.071	12.0000	.72	1326.44	6.081
POND E	OUT POND	5	.203	12.0000	1.03	1327.22	9.740
POND E	OUT POND	10	.293	12.1000	1.84	1327.86	12.964
POND E	OUT POND	25	.318	27.4000	.40	1328.51	16.405
POND E	OUT POND	50	.397	12.0000	4.53	1329.25	20.482
POND E	OUT POND	100	.433	12.0000	5.14	1329.98	24.699
POND E	OUT POND	500	.495	12.0000	10.24	1331.32	32.884
POND E	OUT POND	2	-1.423	14.2000	-3.11(-0)		
POND E RAIN	AREA	2	1.099	11.9000	17.46		
POND E RAIN	AREA	5	1.424	11.9000	22.48		
POND E RAIN	AREA	10	1.684	11.9000	26.49		
POND E RAIN	AREA	25	1.944	11.8500	10.26		
POND E RAIN	AREA	50	2.236	11.9000	35.01		
POND E RAIN	AREA	100	2.529	11.9000	39.52		
POND E RAIN	AREA	500	3.081	11.9000	48.04		
POND F	POND	2	6.763	12.0500	104.30		
POND F	POND	5	10.880	12.0500	175.85		
POND F	POND	10	14.519	12.0500	237.87		
POND F	POND	25	18.506	12.0000	140.60		

MASTER NETWORK SUMMARY  
SCS Unit Hydrograph Method

(\*Node=Outfall; +Node=Diversi on;)  
(Trun= HYG Truncati on; Bl ank=None; L=Left; R=Rt; LR=Left&Rt)

Storage Node ID	Return Type Event	HYG Vol ac-ft	Trun	Qpeak hrs	Qpeak cfs	Max WSEL ft	Max Pond ac-ft
POND F	POND	50		12.0500	380.61		
POND F	POND	100		12.0500	457.93		
POND F	POND	500		12.0500	610.24		
POND F	POND	2		24.5000	-.43(-Q)		
POND F	OUT POND	2		12.0500	.93	1326.43	7.087
POND F	OUT POND	5		12.1500	1.64	1327.22	11.434
POND F	OUT POND	10		12.1000	4.34	1327.86	15.298
POND F	OUT POND	25		11.7000	1.75	1328.51	19.465
POND F	OUT POND	50		12.0000	7.46	1329.25	24.413
POND F	OUT POND	100		12.0500	11.77	1329.98	29.547
POND F	OUT POND	500		12.0000	15.45	1331.32	39.657
POND F	OUT POND	2		13.3500	-1.02(-Q)		
POND F RAIN	AREA	2		11.9000	19.70		
POND F RAIN	AREA	5		11.9000	25.37		
POND F RAIN	AREA	10		11.9000	29.89		
POND F RAIN	AREA	25		11.8500	11.57		
POND F RAIN	AREA	50		11.9000	39.50		
POND F RAIN	AREA	100		11.9000	44.59		
POND F RAIN	AREA	500		11.9000	54.20		
*POND G	POND	2		12.0500	31.25		
*POND G	POND	5		12.0500	52.69		
*POND G	POND	10		12.0500	72.97		
*POND G	POND	25		12.0000	42.04		
*POND G	POND	50		12.0500	117.04		
*POND G	POND	100		12.0500	144.39		
*POND G	POND	500		12.0000	190.41		
*POND G	POND	2		24.5000	-.15(-Q)		
*POND G	OUT POND	2		.0500	.00	1326.43	1.999
*POND G	OUT POND	5		.0500	.00	1327.22	3.203
*POND G	OUT POND	10		.0500	.00	1327.86	4.266
*POND G	OUT POND	25		.0500	.00	1328.51	5.410

MASTER NETWORK SUMMARY  
SCS Unit Hydrograph Method

(\*Node=Outfall; +Node=Diversi on;)  
(Trun= HYG Truncati on: Bl ank=None; L=Left; R=Rt; LR=Left&Rt)

Storage Node ID	Return Type Event	HYG Vol ac-ft	Trun	Qpeak hrs	Qpeak cfs	Max WSEL ft	Max Pond ac-ft
*POND G	OUT POND	50	.000	.0500	.00	1329.25	6.776
*POND G	OUT POND	100	.000	.0500	.00	1329.98	8.206
*POND G	OUT POND	500	.000	.0500	.00	1331.32	11.073
POND G RAIN	AREA	2	.366	11.9000	5.82		
POND G RAIN	AREA	5	.475	11.9000	7.49		
POND G RAIN	AREA	10	.561	11.9000	8.83		
POND G RAIN	AREA	25	.648	11.6500	3.42		
POND G RAIN	AREA	50	.745	11.9000	11.67		
POND G RAIN	AREA	100	.843	11.9000	13.17		
POND G RAIN	AREA	500	1.027	11.9000	16.01		

Type... Design Storms  
Name... Sedgwick24

File... C:\HAESTAD\PPKW\RAINFALL\SEDGWICK.RN0  
Title...

JOB TITLE NOT SPECIFIED  
Click Project Summary on the File Menu to enter title

DESIGN STORMS SUMMARY

Design Storm File, ID = SEDGWICK.RN0 Sedgwick24

Storm Tag Name = 2y24h

-----  
Data Type, File, ID = Synthetic Storm SCSTYPES.RNF Type I 24hr  
Storm Frequency = 2 yr  
Total Rainfall Depth= 3.5000 in  
Duration Multiplier = 1  
Resulting Duration = 24.0000 hrs  
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Storm Tag Name = 5y24h  
Description: Sedgwick County 5-yr 24 hour Duration

-----  
Data Type, File, ID = Synthetic Storm SCSTYPES.RNF Type I 24hr  
Storm Frequency = 5 yr  
Total Rainfall Depth= 4.5000 in  
Duration Multiplier = 1  
Resulting Duration = 24.0000 hrs  
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Storm Tag Name = 10y24h

-----  
Data Type, File, ID = Synthetic Storm SCSTYPES.RNF Type I 24hr  
Storm Frequency = 10 yr  
Total Rainfall Depth= 5.3000 in  
Duration Multiplier = 1  
Resulting Duration = 24.0000 hrs  
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Storm Tag Name = 25y24h  
Description: Sedgwick County - 25 year - 24hour

-----  
Data Type, File, ID = Synthetic Storm SCS.RNF SCII  
Storm Frequency = 25 yr  
Total Rainfall Depth= 6.1000 in  
Duration Multiplier = 1  
Resulting Duration = 24.0000 hrs  
Resulting Start Time= .0000 hrs Step= 1.0000 hrs End= 24.0000 hrs

Type... Design Storms  
Name... Sedgwick24

File... C:\HAESTAD\PPKW\RAINFALL\SEDGWICK.RNO  
Title...

JOB TITLE NOT SPECIFIED  
Click Project Summary on the File Menu to enter title

DESIGN STORMS SUMMARY

Design Storm File, ID = SEDGWICK.RNO Sedgwick24

Storm Tag Name = 50y24h

-----  
Data Type, File, ID = Synthetic Storm SCSTYPES.RNF TypeI 24hr  
Storm Frequency = 50 yr  
Total Rainfall Depth= 7.0000 in  
Duration Multiplier = 1  
Resulting Duration = 24.0000 hrs  
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Storm Tag Name = 100y24

-----  
Data Type, File, ID = Synthetic Storm SCSTYPES.RNF TypeI 24hr  
Storm Frequency = 100 yr  
Total Rainfall Depth= 7.9000 in  
Duration Multiplier = 1  
Resulting Duration = 24.0000 hrs  
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Storm Tag Name = 500y24

-----  
Data Type, File, ID = Synthetic Storm SCSTYPES.RNF TypeI 24hr  
Storm Frequency = 500 yr  
Total Rainfall Depth= 9.6000 in  
Duration Multiplier = 1  
Resulting Duration = 24.0000 hrs  
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Type... Design Storms  
Name... Sedgwick24  
File... C:\HAESTAD\PPKW\RAI NFALL\SEDGWI CK. RNO  
Storm... Typell 24hr Tag: 2y24h

Page 2.03  
Event: 2 yr

DESIGN STORMS SUMMARY

Design Storm File, ID = SEDGWI CK. RNO Sedgwick24

Storm Tag Name = 2y24h

-----  
Data Type, File, ID = Synthetic Storm SCSTYPES. RNF Typell 24hr  
Storm Frequency = 2 yr  
Total Rainfall Depth= 3.5000 in  
Duration Multiplier = 1  
Resulting Duration = 24.0000 hrs  
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Storm Tag Name = 5y24h  
Description: Sedgwick County 5-yr 24 hour Duration

-----  
Data Type, File, ID = Synthetic Storm SCSTYPES. RNF Typell 24hr  
Storm Frequency = 5 yr  
Total Rainfall Depth= 4.5000 in  
Duration Multiplier = 1  
Resulting Duration = 24.0000 hrs  
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Storm Tag Name = 10y24h

-----  
Data Type, File, ID = Synthetic Storm SCSTYPES. RNF Typell 24hr  
Storm Frequency = 10 yr  
Total Rainfall Depth= 5.3000 in  
Duration Multiplier = 1  
Resulting Duration = 24.0000 hrs  
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Storm Tag Name = 25y24h  
Description: Sedgwick County - 25 year - 24hour

-----  
Data Type, File, ID = Synthetic Storm SCS. RNF SCSII  
Storm Frequency = 25 yr  
Total Rainfall Depth= 6.1000 in  
Duration Multiplier = 1  
Resulting Duration = 24.0000 hrs  
Resulting Start Time= .0000 hrs Step= 1.0000 hrs End= 24.0000 hrs

Storm Tag Name = 50y24h

-----  
Data Type, File, ID = Synthetic Storm SCSTYPES. RNF Typell 24hr  
Storm Frequency = 50 yr  
Total Rainfall Depth= 7.0000 in  
Duration Multiplier = 1  
Resulting Duration = 24.0000 hrs  
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Type... Design Storms  
Name... Sedgwick24  
File... C:\HAESTAD\PPKW\RAI NFALL\SEDGWICK.RN0  
Storm... Typell 24hr Tag: 2y24h

Page 2.04  
Event: 2 yr

DESIGN STORMS SUMMARY

Design Storm File, ID = SEDGWICK.RN0 Sedgwick24

Storm Tag Name = 100y24

-----  
Data Type, File, ID = Synthetic Storm SCSTYPES.RNF Typell 24hr  
Storm Frequency = 100 yr  
Total Rainfall Depth= 7.9000 in  
Duration Multiplier = 1  
Resulting Duration = 24.0000 hrs  
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Storm Tag Name = 500y24

-----  
Data Type, File, ID = Synthetic Storm SCSTYPES.RNF Typell 24hr  
Storm Frequency = 500 yr  
Total Rainfall Depth= 9.6000 in  
Duration Multiplier = 1  
Resulting Duration = 24.0000 hrs  
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

File. . . . F:\HYDRO\PROJECTS\RUSSELL - 45TH & HOOVER\PONDPACK\PONDS\_FINAL.PPW

Elevation (ft)	Planimeter (sq.in)	Area (acres)	A1+A2+sqr(A1*A2) (acres)	Volume (ac-ft)	Volume Sum (ac-ft)
1332.00	-----	1.3000	.0000	.000	.000
1333.00	-----	1.4000	4.0491	1.350	1.350
1334.00	-----	1.5000	4.3491	1.450	2.799
1335.00	-----	1.6000	4.6492	1.550	4.349

POND VOLUME EQUATIONS

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

$$\text{Volume} = (1/3) * (\text{EL2}-\text{EL1}) * (\text{Area1} + \text{Area2} + \text{sq.rt.}(\text{Area1}*\text{Area2}))$$

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

File. . . . F:\HYDRO\PROJECTS\RUSSELL - 45TH & HOOVER\PONDPACK\PONDS\_FINAL.PPW

Elevation (ft)	Planimeter (sq.in)	Area (acres)	A1+A2+sqr(A1*A2) (acres)	Volume (ac-ft)	Volume Sum (ac-ft)
1332.00	-----	2.4000	.0000	.000	.000
1333.00	-----	2.6000	7.4980	2.499	2.499
1334.00	-----	2.8000	8.0981	2.699	5.199
1335.00	-----	2.9000	8.5496	2.850	8.049

POND VOLUME EQUATIONS

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

$$\text{Volume} = (1/3) * (\text{EL2}-\text{EL1}) * (\text{Area1} + \text{Area2} + \text{sq.rt.}(\text{Area1}*\text{Area2}))$$

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

File. . . . F:\HYDRO\PROJECTS\RUSSELL - 45TH & HOOVER\PONDPACK\PONDS\_FINAL.PPW

Elevation (ft)	Planimeter (sq. in)	Area (acres)	A1+A2+sqr(A1*A2) (acres)	Volume (ac-ft)	Volume Sum (ac-ft)
1325.00	-----	7.5000	.0000	.000	.000
1326.00	-----	8.2000	23.5422	7.847	7.847
1327.00	-----	8.9000	25.6428	8.548	16.395
1328.00	-----	9.6000	27.7434	9.248	25.643
1329.00	-----	10.0000	29.3980	9.799	35.442
1330.00	-----	10.5000	30.7470	10.249	45.691
1331.00	-----	11.0000	32.2471	10.749	56.440
1332.00	-----	11.5000	33.7472	11.249	67.689
1333.00	-----	12.0000	35.2473	11.749	79.438

POND VOLUME EQUATIONS

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

$$\text{Volume} = (1/3) * (\text{EL2}-\text{EL1}) * (\text{Area1} + \text{Area2} + \text{sq. rt.}(\text{Area1}*\text{Area2}))$$

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

File. . . . F:\HYDRO\PROJECTS\RUSSELL - 45TH & HOOVER\PONDPACK\PONDS\_FINAL.PPW

Elevation (ft)	Planimeter (sq. in)	Area (acres)	A1+A2+sq <sup>r</sup> (A1*A2) (acres)	Volume (ac-ft)	Volume Sum (ac-ft)
1325.00	-----	1.8000	.0000	.000	.000
1326.00	-----	2.1000	5.8442	1.948	1.948
1327.00	-----	2.4000	6.7450	2.248	4.196
1328.00	-----	2.6000	7.4980	2.499	6.696
1329.00	-----	2.8000	8.0981	2.699	9.395
1330.00	-----	3.0000	8.6983	2.899	12.295
1331.00	-----	3.2000	9.2984	3.099	15.394
1332.00	-----	3.4000	9.8985	3.299	18.694
1333.00	-----	3.6000	10.4986	3.500	22.193

POND VOLUME EQUATIONS

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

$$\text{Volume} = (1/3) * (\text{EL2}-\text{EL1}) * (\text{Area1} + \text{Area2} + \text{sq. rt.}(\text{Area1}*\text{Area2}))$$

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

File. . . . F:\HYDRO\PROJECTS\RUSSELL - 45TH & HOOVER\PONDPACK\PONDS\_FINAL.PPW

Elevation (ft)	Planimeter (sq. in)	Area (acres)	A1+A2+sqr(A1*A2) (acres)	Volume (ac-ft)	Volume Sum (ac-ft)
1325.00	-----	3.9000	.0000	.000	.000
1326.00	-----	4.3000	12.2951	4.098	4.098
1327.00	-----	4.8000	13.6431	4.548	8.646
1328.00	-----	5.2000	14.9960	4.999	13.645
1329.00	-----	5.6000	16.1963	5.399	19.044
1330.00	-----	5.9000	17.2480	5.749	24.793
1331.00	-----	6.2000	18.1481	6.049	30.842
1332.00	-----	6.5000	19.0482	6.349	37.192
1333.00	-----	6.8000	19.9483	6.649	43.841

POND VOLUME EQUATIONS

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

$$\text{Volume} = (1/3) * (\text{EL2}-\text{EL1}) * (\text{Area1} + \text{Area2} + \text{sq. rt.}(\text{Area1}*\text{Area2}))$$

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

File. . . . F:\HYDRO\PROJECTS\RUSSELL - 45TH & HOOVER\PONDPACK\PONDS\_FINAL.PPW

Elevation (ft)	Planimeter (sq. in)	Area (acres)	A1+A2+sqr(A1*A2) (acres)	Volume (ac-ft)	Volume Sum (ac-ft)
1325.00	-----	4.4000	.0000	.000	.000
1326.00	-----	5.1000	14.2371	4.746	4.746
1327.00	-----	5.7000	16.1917	5.397	10.143
1328.00	-----	6.3000	17.9925	5.997	16.140
1329.00	-----	6.8000	19.6452	6.548	22.689
1330.00	-----	7.2000	20.9971	6.999	29.688
1331.00	-----	7.7000	22.3458	7.449	37.136
1332.00	-----	8.2000	23.8461	7.949	45.085
1333.00	-----	8.7000	25.3463	8.449	53.534

POND VOLUME EQUATIONS

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

$$\text{Volume} = (1/3) * (\text{EL2}-\text{EL1}) * (\text{Area1} + \text{Area2} + \text{sq. rt.}(\text{Area1}*\text{Area2}))$$

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

Elevation (ft)	Planimeter (sq.in)	Area (acres)	A1+A2+sqr(A1*A2) (acres)	Volume (ac-ft)	Volume Sum (ac-ft)
1325.00	-----	1.3000	.0000	.000	.000
1326.00	-----	1.4000	4.0491	1.350	1.350
1327.00	-----	1.6000	4.4967	1.499	2.849
1328.00	-----	1.7000	4.9492	1.650	4.498
1329.00	-----	1.9000	5.3972	1.799	6.297
1330.00	-----	2.0000	5.8494	1.950	8.247
1331.00	-----	2.2000	6.2976	2.099	10.346
1332.00	-----	2.4000	6.8978	2.299	12.646
1333.00	-----	2.6000	7.4980	2.499	15.145

POND VOLUME EQUATIONS

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

$$\text{Volume} = (1/3) * (\text{EL2}-\text{EL1}) * (\text{Area1} + \text{Area2} + \text{sq.rt.}(\text{Area1}*\text{Area2}))$$

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

Index of Starting Page Numbers for ID Names

----- P -----

POND A... 3.01  
POND B... 3.02  
POND C... 3.03  
POND D... 3.04  
POND E... 3.05  
POND F... 3.06  
POND G... 3.07

----- S -----

Sedgwick24... 2.01, 2.03

----- W -----

Watershed... 1.01