

SacCalc Model Data

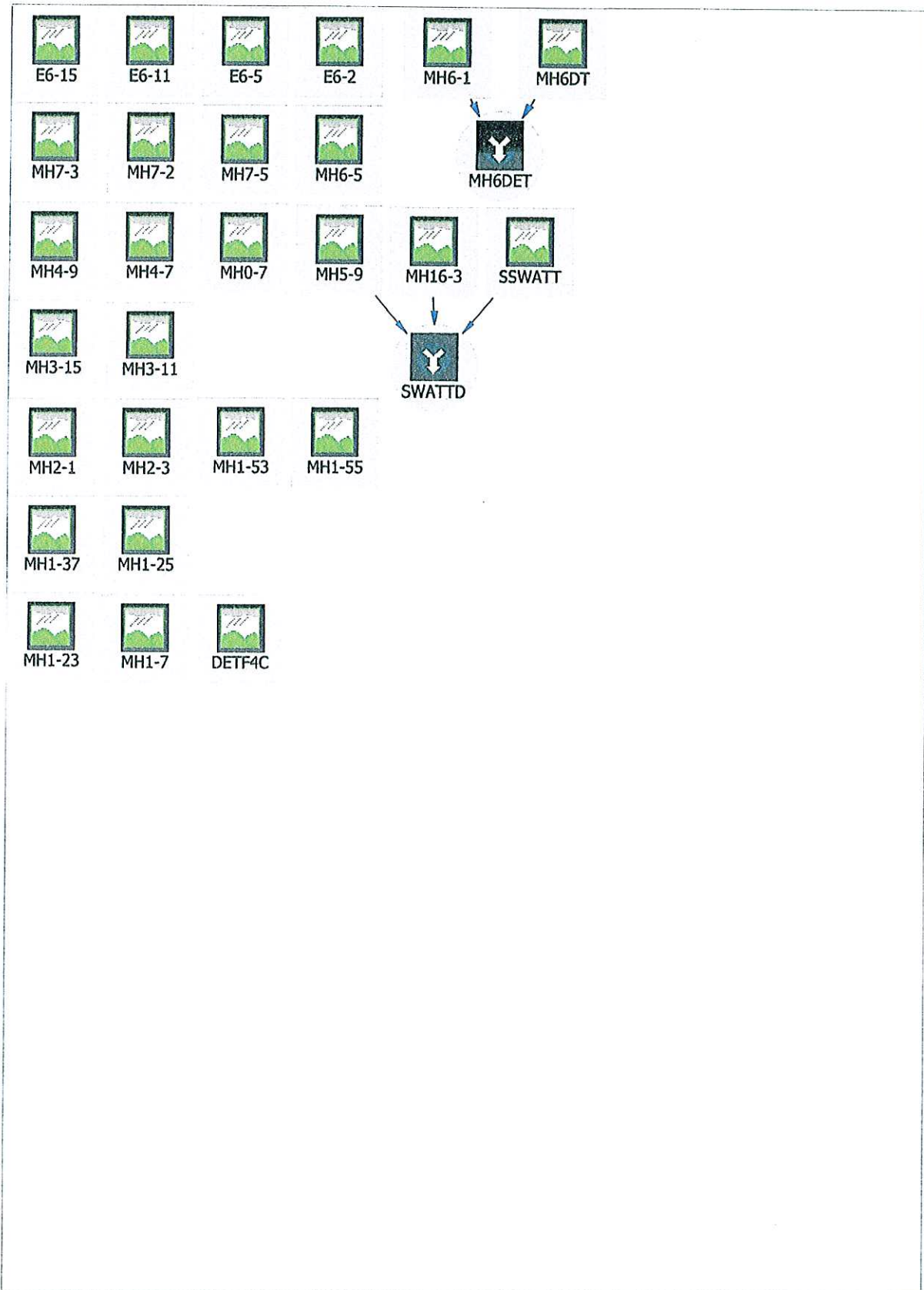
For

Florin Creek – Post Fvcp

Model Schematic Layout

Peak Flow Summary

Report



Sacramento method results
(Project: Florin Vineyards)
(100-year, 1-day rainfall)

ID	Peak flow (cfs)	Time of peak (hours)	Basin area (sq. mi)	Peak stage (feet)	Peak storage (ac-ft)	Diversion volume (ac-ft)
E6-15	56.	12:13	.04			
E6-11	54.	12:13	.04			
E6-5	78.	12:08	.05			
E6-2	68.	12:06	.04			
MH7-3	30.	12:16	.03			
MH7-2	68.	12:11	.05			
MH4-9	35.	12:16	.03			
MH4-7	27.	12:13	.02			
MH3-15	59.	12:13	.05			
MH3-11	41.	12:09	.03			
MH2-1	22.	12:06	.01			
MH2-3	49.	12:18	.05			
MH1-37	65.	12:11	.05			
MH1-25	39.	12:10	.03			
MH1-23	27.	12:07	.02			
MH1-7	49.	12:15	.04			
MH0-7	10.	12:26	.01			
MH5-9	56.	12:13	.05			
MH16-3	41.	12:15	.04			
SSWATT	18.	12:08	.01			
SWATTD	110.	12:13	.09			
DETF4C	24.	12:12	.02			
MH6-5	59.	12:16	.05			
MH7-5	74.	12:11	.06			
MH6DT	17.	12:05	.01			
MH6-1	2.9	12:05	.00			
MH6DET	20.	12:05	.01			
MH1-53	23.	12:08	.01			
MH1-55	35.	12:08	.02			

(10-year, 1-day rainfall)

ID	Peak flow (cfs)	Time of peak (hours)	Basin area (sq. mi)	Peak stage (feet)	Peak storage (ac-ft)	Diversion volume (ac-ft)
E6-15	38.	12:09	.04			

E6-11	37.	12:10	.04
E6-5	52.	12:06	.05
E6-2	44.	12:04	.04
MH7-3	21.	12:11	.03
MH7-2	46.	12:08	.05
MH4-9	24.	12:12	.03
MH4-7	18.	12:09	.02
MH3-15	40.	12:10	.05
MH3-11	28.	12:07	.03
MH2-1	14.	12:05	.01
MH2-3	33.	12:13	.05
MH1-37	44.	12:08	.05
MH1-25	26.	12:07	.03
MH1-23	18.	12:05	.02
MH1-7	34.	12:11	.04
MH0-7	6.7	12:22	.01
MH5-9	38.	12:09	.05
MH16-3	28.	12:11	.04
SSWATT	12.	12:06	.01
SWATTD	75.	12:10	.09
DETF4C	16.	12:09	.02
MH6-5	41.	12:12	.05
MH7-5	50.	12:08	.06
MH6DT	11.	12:03	.01
MH6-1	1.9	12:03	.00
MH6DET	13.	12:03	.01
MH1-53	15.	12:06	.01
MH1-55	23.	12:05	.02

Sacramento Hydrologic Calculator Report

Project Title: Florin Vineyards
 Method: Sacramento County HEC-1 method
 May 1, 2007 16:24
 Comments: FLORIN CREEK NORTH PIPE SHEDS MODEL FOR XP-SWMM
 INPUT
 Date: 1/10/2007
 Prepared by: Robin Hegedus

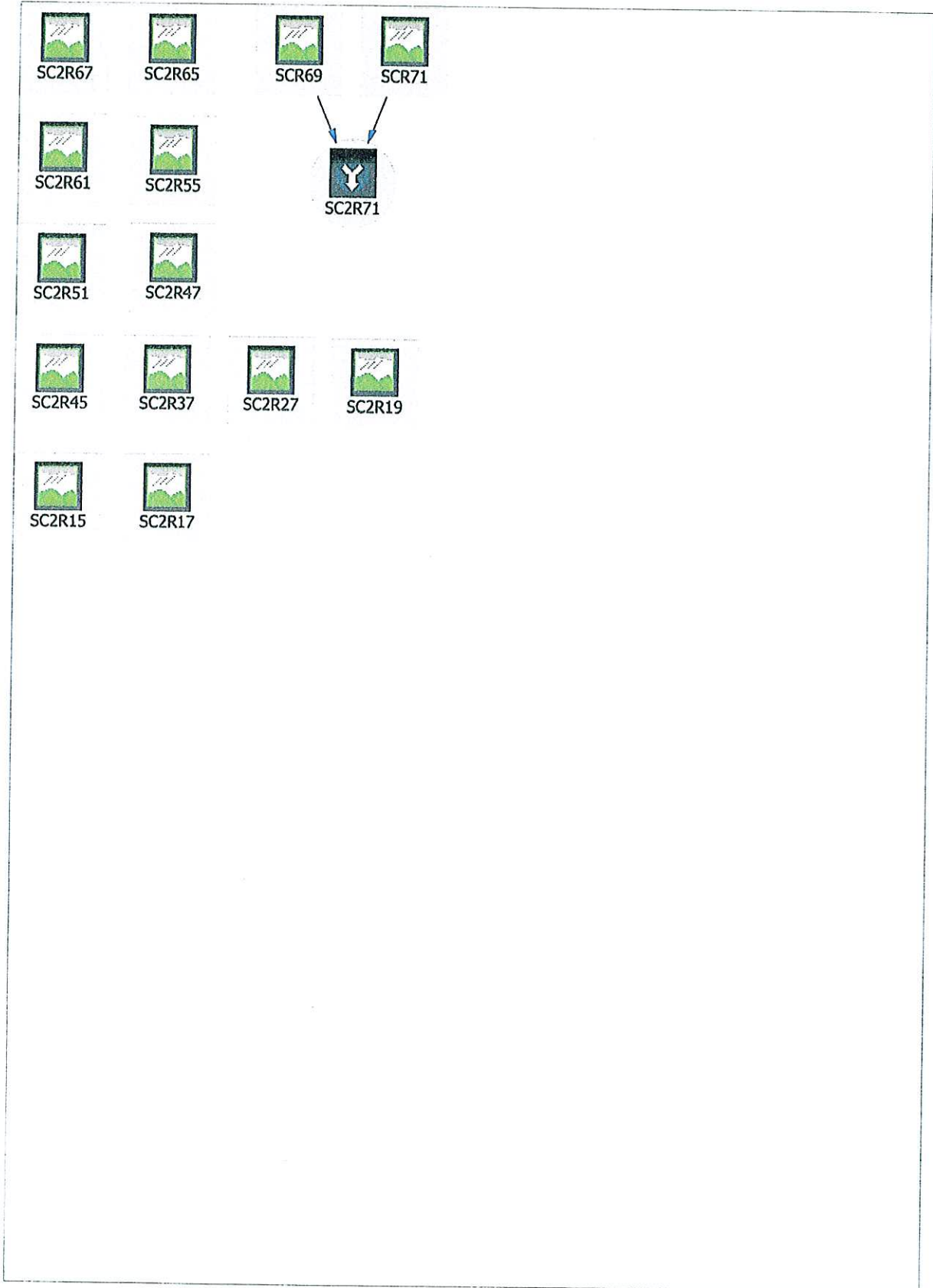
Watershed Hydrologic Summary Data

Watershed	Area (acres)	Mean Elevation (ft)	Lag Times		Basin "n"		Loss Rates		Percent Impervious	
			Method	Basin "n"	Method	Basin "n"	Method	Basin "n"	Method	Basin "n"
E6-15	28.1	54	Basin "n"	-	Computed	-	Computed	-	Computed	-
E6-11	27.8	52	Basin "n"	-	Computed	-	Computed	-	Computed	-
E6-5	32.1	52	Basin "n"	-	Computed	-	Computed	-	Computed	-
E6-2	25.4	54	Basin "n"	-	Computed	-	Computed	-	Computed	-
MH7-3	17	54	Basin "n"	-	Computed	-	Computed	-	Computed	-
MH7-2	33.2	54	Basin "n"	-	Computed	-	Computed	-	Computed	-
MH4-9	20.4	54	Basin "n"	-	Computed	-	Computed	-	Computed	-
MH4-7	13.7	54	Basin "n"	-	Computed	-	Computed	-	Computed	-
MH5-9	28.8	54	Basin "n"	-	Computed	-	Computed	-	Computed	-
MH16-3	22.4	54	Basin "n"	-	Computed	-	Computed	-	Computed	-
MH3-15	31.1	54	Basin "n"	-	Computed	-	Computed	-	Computed	-
MH3-11	18.3	54	Basin "n"	-	Computed	-	Computed	-	Computed	-
MH2-1	8.3	44	Basin "n"	-	Computed	-	Computed	-	Computed	-
MH2-3	29.8	44	Basin "n"	-	Computed	-	Computed	-	Computed	-
MH1-37	31.3	44	Basin "n"	-	Computed	-	Computed	-	Computed	-
MH1-25	18.4	44	Basin "n"	-	Computed	-	Computed	-	Computed	-
MH1-23	11.2	42	Basin "n"	-	Computed	-	Computed	-	Computed	-
MH1-7	27.7	42	Basin "n"	-	Computed	-	Computed	-	Computed	-
MH0-7	7.4	54	Basin "n"	-	Computed	-	Computed	-	Computed	-
SSWATT	7.4	54	Basin "n"	-	Computed	-	Computed	-	Computed	-
MH6DT	5.7	54	Basin "n"	-	Computed	-	Computed	-	Computed	-
DETF4C	12.4	42	Basin "n"	-	Computed	-	Computed	-	Computed	-
MH6-5	34	56	Basin "n"	-	Computed	-	Computed	-	Computed	-
MH7-5	35.3	52	Basin "n"	-	Computed	-	Computed	-	Computed	-
MH6-1	1	50	Basin "n"	-	Computed	-	Computed	-	Computed	-
MH1-53	9.25	46	Basin "n"	-	Computed	-	Computed	-	Computed	-
MH1-55	14.4	46	Basin "n"	-	Computed	-	Computed	-	Computed	-

Basin "n" Method Data for Lag Time Computation

Watershed	Channel Length (ft)	Centroid Length (ft)	Slope (ft/ft)	Channelization	Land Use Impervious Area Percent (% or acres)																		
					95	90	85	80	75	70	60	50	40	30	25	20	15	10	5	2	1	1*	
E6-15	1539	714	0.001	Undeveloped			0													0.8			
				Developed			27.4													0			
E6-11	1582	792	0.001	Undeveloped			0													0.6			
				Developed			27.2													0			
E6-5	1376	459	0.003	Undeveloped			0													0.5			
				Developed			31.6													0			
E6-2	1185	268	.002	Undeveloped			0																
				Developed			24.9													0.4			
MH7-3	1439	723	0.001	Undeveloped			0													0			
				Developed			0.3													7.8			
MH7-2	1483	684	0.004	Undeveloped																0			
				Developed																32.2	1		
MH4-9	1708	653	0.001	Undeveloped																0			
				Developed																1.6	18.8		
MH4-7	1331	730	0.002	Undeveloped																0			
				Developed																13.3	0.3		
MH5-9	1337	620	0.0015	Undeveloped																0			
				Developed																21.6	7.2		
MH16-3	2029	923	0.002	Undeveloped			0	0												0			
				Developed			0.1	7.5	1.1											13.8			
MH3-15	1565	727	0.0025	Undeveloped																0	0		
				Developed																15.9	15.2		
MH3-11	1087	571	0.0037	Undeveloped																0	0		
				Developed																6.1	12.2		
MH2-1	645	197	0.003	Undeveloped																0			
				Developed																7.7			
MH2-3	1711	796	0.001	Undeveloped																0	0		
				Developed																10.6	18.5		
MH1-37	1446	405	0.0014	Undeveloped					0											0	0		
				Developed					5.1											8.3	4.9	13.1	
MH1-25	1136	294	0.001	Undeveloped																0			
				Developed																18.4			
MH1-23	798	202	0.001	Undeveloped																0			
				Developed																0.9		10.3	
				Undeveloped																0		0	

Infiltration Loss Rate Data		Land Use Impervious Area Percent (% or acres)																		
Watershed	Soil Cover Group	95	90	85	80	75	70	60	50	40	30	25	20	15	10	5	2	1	1*	
E6-15	B																			
	C																			
	D			27.4													0.8			
E6-11	B																			
	C																			
	D			27.2													0.6			
E6-5	B																			
	C																			
	D			31.6													0.5			
E6-2	B																			
	C									0.4										
	D			24.9																
MH7-3	B																			
	C																			
	D			0.3					9	7.8										
MH7-2	B																			
	C																			
	D								32.2	1										
MH4-9	B																			
	C																			
	D								1.6	18.8										
MH4-7	B																			
	C																			
	D								13.3	0.3										
MH5-9	B																			
	C																			
	D								21.6	7.2										
MH16-3	B																			
	C																			
	D		0.1	7.5	1.1				13.8											
MH3-15	B																			
	C																			
	D								15.9	15.2										



View HEC-1 output

Sacramento method results
(Project: Florin Vineyards)
(100-year, 1-day rainfall)

ID	Peak flow (cfs)	Time of peak (hours)	Basin area (sq. mi)	Peak stage (feet)	Peak storage (ac-ft)	Diversion volume (ac-ft)
SC2R67	32.	12:11	.02			
SC2R65	41.	12:07	.03			
SC2R61	61.	12:05	.03			
SC2R55	23.	12:06	.01			
SC2R51	29.	12:09	.02			
SC2R47	22.	12:11	.02			
SC2R45	45.	12:14	.04			
SC2R37	41.	12:11	.03			
SC2R27	44.	12:12	.03			
SC2R19	39.	12:12	.03			
SC2R15	32.	12:07	.02			
SC2R17	14.	12:11	.01			
SCR69	36.	12:08	.02			
SCR71	37.	12:12	.03			
SC2R71	71.	12:10	.05			

(10-year, 1-day rainfall)

ID	Peak flow (cfs)	Time of peak (hours)	Basin area (sq. mi)	Peak stage (feet)	Peak storage (ac-ft)	Diversion volume (ac-ft)
SC2R67	22.	12:08	.02			
SC2R65	27.	12:05	.03			
SC2R61	39.	12:03	.03			
SC2R55	15.	12:04	.01			
SC2R51	19.	12:07	.02			
SC2R47	15.	12:08	.02			
SC2R45	31.	12:10	.04			
SC2R37	27.	12:08	.03			
SC2R27	28.	12:10	.03			
SC2R19	25.	12:10	.03			
SC2R15	21.	12:05	.02			
SC2R17	8.4	12:10	.01			
SCR69	24.	12:06	.02			
SCR71	25.	12:09	.03			
SC2R71	48.	12:08	.05			

Sacramento Hydrologic Calculator Report

Project Title: Florin Vineyards
 Comments: SC2 sheds model for input to XP-SWMM
 Prepared by: Robin Hegedus
 Method: Sacramento County HEC-1 method
 Date: 6/2/2006
 May 1, 2007 16:28

Watershed Hydrologic Summary Data

Watershed	Area (acres)	Mean Elevation (ft)	Lag Times		Basin "n"		Loss Rates		Percent Impervious	
			Method	Lag Time (min)	Method	Basin "n"	Method	Loss Rate (in/hr)	Method	Impervious Area (%)
SC2R67	15.4	48	Basin "n"	-	Computed	-	Computed	-	Computed	-
SC2R65	16.4	48	Basin "n"	-	Computed	-	Computed	-	Computed	-
SCR69	15.3	48	Basin "n"	-	Computed	-	Computed	-	Computed	-
SC2R61	21.2	46	Basin "n"	-	Computed	-	Computed	-	Computed	-
SC2R55	8.6	46	Basin "n"	-	Computed	-	Computed	-	Computed	-
SC2R51	12.7	46	Basin "n"	-	Computed	-	Computed	-	Computed	-
SC2R47	10.6	46	Basin "n"	-	Computed	-	Computed	-	Computed	-
SC2R45	24	44	Basin "n"	-	Computed	-	Computed	-	Computed	-
SC2R37	19.2	44	Basin "n"	-	Computed	-	Computed	-	Computed	-
SC2R27	22.3	42	Basin "n"	-	Computed	-	Computed	-	Computed	-
SC2R19	19.9	40	Basin "n"	-	Computed	-	Computed	-	Computed	-
SC2R15	12.3	40	Basin "n"	-	Computed	-	Computed	-	Computed	-
SC2R17	6.8	42	Basin "n"	-	Computed	-	Computed	-	Computed	-
SCR71	18.8	50	Basin "n"	-	Computed	-	Computed	-	Computed	-

Infiltration Loss Rate Data

Watershed	Soil Cover Group	Land Use Impervious Area Percent (% or acres)																	
		95	90	85	80	75	70	60	50	40	30	25	20	15	10	5	2	1	1*
SC2R67	B																		
	C	1.8																	
	D							0.2	13.3										
SC2R65	B																		
	C	1.8	5.8	8.7			0.1												
	D																		
SCR69	B																		
	C																		
	D			7.1			8.2												
SC2R61	B																		
	C																		
	D	3.5	12.7	4.7			0.3												
SC2R55	B																		
	C	1.8	6.4	0.4															
	D																		
SC2R51	B																		
	C	0.9	7.1				4.7												
	D																		
SC2R47	B																		
	C	0.5					4.5												
	D								5.6										
SC2R45	B																		
	C																		
	D	2.4				4.4													
SC2R37	B																		
	C																		
	D	0.6				0.2	4.4								0.1	0.1			
SC2R27	B																		
	C																		
	D	0.2	0.1	13.9													5.2		
SC2R19	B																		
	C																		
	D			0.1	9.5				6.3						2.1	1.8			

