

Siskin Drive, coventry

Modified Rational Method

Return Period **2** years

Length (m)	135	m
Area (ha)	0.653	Ha
Max Height	66.5	mAOD
Min Height	66.0	mAOD
DeltaH	0.5	
Slope (%)	0.40	
Te (mins)	18.36	mins
ARF	0.998	
SAAR	694	mm
UCWI	70	mm
PIMP	50.0	%
SOIL	0.45	
Percentage Runoff PR	37.46	
DEEPSTOR	1.10	

Cv	0.3746	
Cr	1.3	
allowable outflow		
2 year greenfield rate	0.015	m s
		m3
Storage	RT years	Storage
	2	0

Rainfall Duration (hours)	Rainfall Duration (days)	Rainfall Depth (mm)	Effective Depth (mm)	Rainfall Intensity (mm/hr)	FLOW (l/s)	FLOW (l/s/ha)	RUN-OFF		Allowable Outflow (m ³)	Difference (m ³)
							FLOW (m ³)	RAIN (m ³)		
0.25	0.010	4.35	2.1	17.4	15.4	23.6	14	14	13.50	0
0.5	0.021	6.69	3.3	13.4	11.8	18.1	21	21	27.00	-6
0.75	0.031	8.32	4.1	11.1	9.8	15.0	26	26	40.50	-14
1	0.042	9.61	4.7	9.6	8.5	13.0	31	31	54.00	-23
1.25	0.052	10.7	5.2	8.6	7.6	11.6	34	34	67.50	-33
1.5	0.063	11.65	5.7	7.8	6.9	10.5	37	37	81.00	-44
1.75	0.073	12.49	6.1	7.1	6.3	9.7	40	40	94.50	-55
2	0.083	13.26	6.5	6.6	5.9	9.0	42	42	108.00	-66
2.25	0.094	13.97	6.8	6.2	5.5	8.4	44	44	121.50	-77
2.5	0.104	14.63	7.1	5.9	5.2	7.9	47	47	135.00	-88
2.75	0.115	15.24	7.4	5.5	4.9	7.5	49	48	148.50	-100
3	0.125	15.82	7.7	5.3	4.7	7.1	50	50	162.00	-112
3.25	0.135	16.37	8.0	5.0	4.5	6.8	52	52	175.50	-123
3.5	0.146	16.89	8.2	4.8	4.3	6.5	54	54	189.00	-135
3.75	0.156	17.38	8.5	4.6	4.1	6.3	55	55	202.50	-147
4	0.167	17.86	8.7	4.5	3.9	6.0	57	57	216.00	-159
4.25	0.177	18.31	8.9	4.3	3.8	5.8	58	58	229.50	-171
4.5	0.188	18.75	9.1	4.2	3.7	5.6	60	60	243.00	-183
4.75	0.198	19.17	9.3	4.0	3.6	5.5	61	61	256.50	-196
5	0.208	19.57	9.5	3.9	3.5	5.3	62	62	270.00	-208
5.25	0.219	19.97	9.7	3.8	3.4	5.1	64	64	283.50	-220
5.5	0.229	20.35	9.9	3.7	3.3	5.0	65	65	297.00	-232
5.75	0.240	20.72	10.1	3.6	3.2	4.9	66	66	310.50	-245
6	0.250	21.07	10.3	3.5	3.1	4.8	67	67	324.00	-257
6.25	0.260	21.42	10.4	3.4	3.0	4.6	68	68	337.50	-269
6.5	0.271	21.76	10.6	3.3	3.0	4.5	69	69	351.00	-282
6.75	0.281	22.09	10.8	3.3	2.9	4.4	70	70	364.50	-294
7	0.292	22.42	10.9	3.2	2.8	4.3	71	71	378.00	-307
7.25	0.302	22.73	11.1	3.1	2.8	4.2	72	72	391.50	-319
7.5	0.313	23.04	11.2	3.1	2.7	4.2	73	73	405.00	-332
7.75	0.323	23.34	11.4	3.0	2.7	4.1	74	74	418.50	-344
8	0.333	23.64	11.5	3.0	2.6	4.0	75	75	432.00	-357
8.25	0.344	23.92	11.6	2.9	2.6	3.9	76	76	445.50	-369
8.5	0.354	24.21	11.8	2.8	2.5	3.9	77	77	459.00	-382
8.75	0.365	24.48	11.9	2.8	2.5	3.8	78	78	472.50	-395
9	0.375	24.76	12.1	2.8	2.4	3.7	79	79	486.00	-407
9.25	0.385	25.02	12.2	2.7	2.4	3.7	80	80	499.50	-420
9.5	0.396	25.29	12.3	2.7	2.4	3.6	80	80	513.00	-433
9.75	0.406	25.54	12.4	2.6	2.3	3.5	81	81	526.50	-445
10	0.417	25.8	12.6	2.6	2.3	3.5	82	82	540.00	-458

Siskin Drive, Coventry

Modified Rational Method

Return Period **30** years

Length (m)	135	m
Area (ha)	0.653	Ha
Max Height	66.5	mAOD
Min Height	66.0	mAOD
DeltaH	0.5	
Slope (%)	0.40	
Te (mins)	18.36	mins
ARF	0.998	
SAAR	694	mm
UCWI	70	mm
PIMP	50.0	%
SOIL	0.45	
Percentage Runoff PR	37.46	
DEEPSTOR	1.10	

Cv	0.3746
Cr	1.3

allowable outflow		
2 year greenfield rate	0.015	m s
		m3

Storage	RT years	Storage
	30	29

Rainfall Duration (hours)	Rainfall Duration (days)	Rainfall Depth (mm)	Effective Depth (mm)	Rainfall Intensity (mm/hr)	FLOW (l/s)	FLOW (l/s/ha)	RUN-OFF		Allowable Outflow (m ³)	Difference (m ³)
							FLOW (m ³)	RAIN (m ³)		
0.25	0.010	12.07	5.9	48.3	42.7	65.4	38	38	13.50	25
0.5	0.021	17.55	8.5	35.1	31.0	47.5	56	56	27.00	29
0.75	0.031	21.13	10.3	28.2	24.9	38.1	67	67	40.50	27
1	0.042	23.85	11.6	23.9	21.1	32.3	76	76	54.00	22
1.25	0.052	26.08	12.7	20.9	18.4	28.2	83	83	67.50	15
1.5	0.063	27.99	13.6	18.7	16.5	25.3	89	89	81.00	8
1.75	0.073	29.66	14.4	16.9	15.0	22.9	94	94	94.50	0
2	0.083	31.15	15.2	15.6	13.8	21.1	99	99	108.00	-9
2.25	0.094	32.51	15.8	14.4	12.8	19.6	103	103	121.50	-18
2.5	0.104	33.75	16.4	13.5	11.9	18.3	107	107	135.00	-28
2.75	0.115	34.9	17.0	12.7	11.2	17.2	111	111	148.50	-38
3	0.125	35.97	17.5	12.0	10.6	16.2	114	114	162.00	-48
3.25	0.135	36.98	18.0	11.4	10.1	15.4	118	118	175.50	-58
3.5	0.146	37.92	18.5	10.8	9.6	14.7	121	121	189.00	-68
3.75	0.156	38.82	18.9	10.4	9.2	14.0	124	123	202.50	-79
4	0.167	39.67	19.3	9.9	8.8	13.4	126	126	216.00	-90
4.25	0.177	40.48	19.7	9.5	8.4	12.9	129	129	229.50	-101
4.5	0.188	41.26	20.1	9.2	8.1	12.4	131	131	243.00	-112
4.75	0.198	42	20.5	8.8	7.8	12.0	134	134	256.50	-123
5	0.208	42.72	20.8	8.5	7.6	11.6	136	136	270.00	-134
5.25	0.219	43.4	21.1	8.3	7.3	11.2	138	138	283.50	-145
5.5	0.229	44.07	21.5	8.0	7.1	10.8	140	140	297.00	-157
5.75	0.240	44.71	21.8	7.8	6.9	10.5	142	142	310.50	-168
6	0.250	45.33	22.1	7.6	6.7	10.2	144	144	324.00	-180
6.25	0.260	45.92	22.4	7.3	6.5	9.9	146	146	337.50	-191
6.5	0.271	46.51	22.6	7.2	6.3	9.7	148	148	351.00	-203
6.75	0.281	47.07	22.9	7.0	6.2	9.4	150	150	364.50	-215
7	0.292	47.62	23.2	6.8	6.0	9.2	152	151	378.00	-227
7.25	0.302	48.15	23.4	6.6	5.9	9.0	153	153	391.50	-238
7.5	0.313	48.67	23.7	6.5	5.7	8.8	155	155	405.00	-250
7.75	0.323	49.18	23.9	6.3	5.6	8.6	157	156	418.50	-262
8	0.333	49.68	24.2	6.2	5.5	8.4	158	158	432.00	-274
8.25	0.344	50.16	24.4	6.1	5.4	8.2	160	160	445.50	-286
8.5	0.354	50.63	24.7	6.0	5.3	8.1	161	161	459.00	-298
8.75	0.365	51.09	24.9	5.8	5.2	7.9	163	162	472.50	-310
9	0.375	51.54	25.1	5.7	5.1	7.8	164	164	486.00	-322
9.25	0.385	51.99	25.3	5.6	5.0	7.6	165	165	499.50	-334
9.5	0.396	52.42	25.5	5.5	4.9	7.5	167	167	513.00	-346
9.75	0.406	52.85	25.7	5.4	4.8	7.3	168	168	526.50	-358
10	0.417	53.26	25.9	5.3	4.7	7.2	170	169	540.00	-371

Siskin Drive, Coventry

Modified Rational Method

Return Period **100** years

Length (m)	135	m
Area (ha)	0.653	Ha
Max Height	66.5	mAOD
Min Height	66.0	mAOD
DeltaH	0.5	
Slope (%)	0.40	
Te (mins)	18.36	mins
ARF	0.998	
SAAR	694	mm
UCWI	70	mm
PIMP	50.0	%
SOIL	0.45	
Percentage Runoff PR	37.46	
DEEPSTOR	1.10	

Cv	0.3746
Cr	1.3

allowable outflow		
2 year greenfield rate	0.015	m s

		m3
Storage	RT years	Storage
	100	57

Rainfall Duration (hours)	Rainfall Duration (days)	Rainfall Depth (mm)	Effective Depth (mm)	Rainfall Intensity (mm/hr)	FLOW (l/s)	FLOW (l/s/ha)	RUN-OFF		Allowable Outflow (m ³)	Difference (m ³)
							FLOW (m ³)	RAIN (m ³)		
0.25	0.010	18.2	8.9	72.8	64.4	98.6	58	58	13.50	44
0.5	0.021	25.89	12.6	51.8	45.8	70.1	82	82	27.00	55
0.75	0.031	30.76	15.0	41.0	36.3	55.5	98	98	40.50	57
1	0.042	34.4	16.8	34.4	30.4	46.6	109	109	54.00	55
1.25	0.052	37.35	18.2	29.9	26.4	40.5	119	119	67.50	51
1.5	0.063	39.85	19.4	26.6	23.5	36.0	127	127	81.00	46
1.75	0.073	42.01	20.5	24.0	21.2	32.5	134	134	94.50	39
2	0.083	43.94	21.4	22.0	19.4	29.7	140	140	108.00	32
2.25	0.094	45.68	22.2	20.3	17.9	27.5	145	145	121.50	24
2.5	0.104	47.26	23.0	18.9	16.7	25.6	150	150	135.00	15
2.75	0.115	48.72	23.7	17.7	15.7	24.0	155	155	148.50	6
3	0.125	50.08	24.4	16.7	14.8	22.6	159	159	162.00	-3
3.25	0.135	51.35	25.0	15.8	14.0	21.4	163	163	175.50	-12
3.5	0.146	52.54	25.6	15.0	13.3	20.3	167	167	189.00	-22
3.75	0.156	53.66	26.1	14.3	12.6	19.4	171	171	202.50	-32
4	0.167	54.72	26.6	13.7	12.1	18.5	174	174	216.00	-42
4.25	0.177	55.73	27.1	13.1	11.6	17.8	177	177	229.50	-52
4.5	0.188	56.7	27.6	12.6	11.1	17.1	180	180	243.00	-63
4.75	0.198	57.62	28.1	12.1	10.7	16.4	183	183	256.50	-73
5	0.208	58.5	28.5	11.7	10.3	15.8	186	186	270.00	-84
5.25	0.219	59.35	28.9	11.3	10.0	15.3	189	189	283.50	-95
5.5	0.229	60.16	29.3	10.9	9.7	14.8	191	191	297.00	-106
5.75	0.240	60.95	29.7	10.6	9.4	14.4	194	194	310.50	-117
6	0.250	61.71	30.1	10.3	9.1	13.9	196	196	324.00	-128
6.25	0.260	62.44	30.4	10.0	8.8	13.5	199	199	337.50	-139
6.5	0.271	63.15	30.8	9.7	8.6	13.2	201	201	351.00	-150
6.75	0.281	63.84	31.1	9.5	8.4	12.8	203	203	364.50	-161
7	0.292	64.51	31.4	9.2	8.1	12.5	205	205	378.00	-173
7.25	0.302	65.16	31.7	9.0	7.9	12.2	207	207	391.50	-184
7.5	0.313	65.79	32.0	8.8	7.8	11.9	209	209	405.00	-196
7.75	0.323	66.41	32.3	8.6	7.6	11.6	211	211	418.50	-207
8	0.333	67.01	32.6	8.4	7.4	11.3	213	213	432.00	-219
8.25	0.344	67.59	32.9	8.2	7.2	11.1	215	215	445.50	-231
8.5	0.354	68.16	33.2	8.0	7.1	10.9	217	217	459.00	-242
8.75	0.365	68.72	33.5	7.9	6.9	10.6	219	219	472.50	-254
9	0.375	69.26	33.7	7.7	6.8	10.4	220	220	486.00	-266
9.25	0.385	69.8	34.0	7.5	6.7	10.2	222	222	499.50	-278
9.5	0.396	70.32	34.2	7.4	6.5	10.0	224	224	513.00	-289
9.75	0.406	70.83	34.5	7.3	6.4	9.8	225	225	526.50	-301
10	0.417	71.33	34.7	7.1	6.3	9.7	227	227	540.00	-313

Siskin Drive, Coventry

Modified Rational Method

Return Period

100+cc

years

Length (m)	135	m
Area (ha)	0.653	Ha
Max Height	66.5	mAOD
Min Height	66.0	mAOD
DeltaH	0.5	
Slope (%)	0.40	
Te (mins)	18.36	mins
ARF	0.998	
SAAR	694	mm
UCWI	70	mm
PIMP	50.0	%
SOIL	0.45	
Percentage Runoff PR	37.46	
DEEPSTOR	1.10	

Cv	0.3746	
Cr	1.3	
allowable outflow		
2 year greenfield rate	0.015	m s
		m3
Storage	RT years	Storage
	100	88

Rainfall Duration (hours)	Rainfall Duration (days)	Rainfall Depth (mm)	30% increase	Effective Depth (mm)	Rainfall Intensity (mm/hr)	FLOW (l/s)	FLOW (l/s/ha)	RUN-OFF		Allowable Outflow (m ³)	Difference (m ²)
								FLOW (m ³)	RAIN (m ³)		
0.25	0.010	18.2	23.66	11.5	94.6	83.7	128.1	75	75	13.50	62
0.5	0.021	25.89	33.657	16.4	67.3	59.5	91.1	107	107	27.00	80
0.75	0.031	30.76	39.988	19.5	53.3	47.1	72.2	127	127	40.50	87
1	0.042	34.4	44.72	21.8	44.7	39.5	60.5	142	142	54.00	88
1.25	0.052	37.35	48.555	23.6	38.8	34.3	52.6	155	154	67.50	87
1.5	0.063	39.85	51.805	25.2	34.5	30.5	46.8	165	165	81.00	84
1.75	0.073	42.01	54.613	26.6	31.2	27.6	42.2	174	174	94.50	79
2	0.083	43.94	57.122	27.8	28.6	25.2	38.7	182	182	108.00	74
2.25	0.094	45.68	59.384	28.9	26.4	23.3	35.7	189	189	121.50	67
2.5	0.104	47.26	61.438	29.9	24.6	21.7	33.3	196	195	135.00	60
2.75	0.115	48.72	63.336	30.8	23.0	20.4	31.2	202	201	148.50	53
3	0.125	50.08	65.104	31.7	21.7	19.2	29.4	207	207	162.00	45
3.25	0.135	51.35	66.755	32.5	20.5	18.2	27.8	212	212	175.50	37
3.5	0.146	52.54	68.302	33.3	19.5	17.3	26.4	217	217	189.00	28
3.75	0.156	53.66	69.758	34.0	18.6	16.4	25.2	222	222	202.50	19
4	0.167	54.72	71.136	34.6	17.8	15.7	24.1	226	226	216.00	10
4.25	0.177	55.73	72.449	35.3	17.0	15.1	23.1	231	230	229.50	1
4.5	0.188	56.7	73.71	35.9	16.4	14.5	22.2	235	234	243.00	-9
4.75	0.198	57.62	74.906	36.5	15.8	13.9	21.3	238	238	256.50	-18
5	0.208	58.5	76.05	37.0	15.2	13.4	20.6	242	242	270.00	-28
5.25	0.219	59.35	77.155	37.6	14.7	13.0	19.9	246	245	283.50	-38
5.5	0.229	60.16	78.208	38.1	14.2	12.6	19.3	249	249	297.00	-48
5.75	0.240	60.95	79.235	38.6	13.8	12.2	18.7	252	252	310.50	-59
6	0.250	61.71	80.223	39.1	13.4	11.8	18.1	255	255	324.00	-69
6.25	0.260	62.44	81.172	39.5	13.0	11.5	17.6	258	258	337.50	-79
6.5	0.271	63.15	82.095	40.0	12.6	11.2	17.1	261	261	351.00	-90
6.75	0.281	63.84	82.992	40.4	12.3	10.9	16.6	264	264	364.50	-101
7	0.292	64.51	83.863	40.8	12.0	10.6	16.2	267	267	378.00	-111
7.25	0.302	65.16	84.708	41.3	11.7	10.3	15.8	270	269	391.50	-122
7.5	0.313	65.79	85.527	41.6	11.4	10.1	15.4	272	272	405.00	-133
7.75	0.323	66.41	86.333	42.0	11.1	9.8	15.1	275	275	418.50	-144
8	0.333	67.01	87.113	42.4	10.9	9.6	14.7	277	277	432.00	-155
8.25	0.344	67.59	87.867	42.8	10.7	9.4	14.4	280	279	445.50	-166
8.5	0.354	68.16	88.608	43.2	10.4	9.2	14.1	282	282	459.00	-177
8.75	0.365	68.72	89.336	43.5	10.2	9.0	13.8	284	284	472.50	-188
9	0.375	69.26	90.038	43.8	10.0	8.8	13.5	287	286	486.00	-200
9.25	0.385	69.8	90.74	44.2	9.8	8.7	13.3	289	289	499.50	-211
9.5	0.396	70.32	91.416	44.5	9.6	8.5	13.0	291	291	513.00	-222
9.75	0.406	70.83	92.079	44.8	9.4	8.3	12.8	293	293	526.50	-234
10	0.417	71.33	92.729	45.2	9.3	8.2	12.6	295	295	540.00	-245