

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	60.0	%
SOIL	0.45	
Percentage Runoff PR	45.75	
DEEPSTOR	1.10	

Cv	0.4575	
Cr	1.3	
outflow		
2 year	0.019	m s

Rainfall Duration (hours)	Rainfall Duration (days)	Rainfall Depth (mm)	Effective Depth (mm)	Rainfall Intensity (mm/hr)	FLOW (l/s)	FLOW (l/s/ha)
0.25	0.010	4.35	2.6	17.4	18.8	28.8
0.5	0.021	6.69	4.0	13.4	14.4	22.1
0.75	0.031	8.32	4.9	11.1	12.0	18.3
1	0.042	9.61	5.7	9.6	10.4	15.9
1.25	0.052	10.7	6.4	8.6	9.2	14.2
1.5	0.063	11.65	6.9	7.8	8.4	12.8
1.75	0.073	12.49	7.4	7.1	7.7	11.8
2	0.083	13.26	7.9	6.6	7.2	11.0
2.25	0.094	13.97	8.3	6.2	6.7	10.3
2.5	0.104	14.63	8.7	5.9	6.3	9.7
2.75	0.115	15.24	9.1	5.5	6.0	9.2
3	0.125	15.82	9.4	5.3	5.7	8.7
3.25	0.135	16.37	9.7	5.0	5.4	8.3
3.5	0.146	16.89	10.0	4.8	5.2	8.0
3.75	0.156	17.38	10.3	4.6	5.0	7.7
4	0.167	17.86	10.6	4.5	4.8	7.4
4.25	0.177	18.31	10.9	4.3	4.7	7.1
4.5	0.188	18.75	11.2	4.2	4.5	6.9
4.75	0.198	19.17	11.4	4.0	4.4	6.7
5	0.208	19.57	11.6	3.9	4.2	6.5
5.25	0.219	19.97	11.9	3.8	4.1	6.3
5.5	0.229	20.35	12.1	3.7	4.0	6.1
5.75	0.240	20.72	12.3	3.6	3.9	6.0
6	0.250	21.07	12.5	3.5	3.8	5.8
6.25	0.260	21.42	12.7	3.4	3.7	5.7
6.5	0.271	21.76	12.9	3.3	3.6	5.5
6.75	0.281	22.09	13.1	3.3	3.5	5.4
7	0.292	22.42	13.3	3.2	3.5	5.3
7.25	0.302	22.73	13.5	3.1	3.4	5.2
7.5	0.313	23.04	13.7	3.1	3.3	5.1
7.75	0.323	23.34	13.9	3.0	3.3	5.0
8	0.333	23.64	14.1	3.0	3.2	4.9

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Max Height	66.5	mAOD
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DeltaH	0.5	
Slope (%)	0.40	
Te (mins)	18.36	mins
ARF	0.998	
SAAR	694	mm
UCWI	70	mm
PIMP	60.0	%
SOIL	0.45	
Percentage Runoff PR	45.75	
DEEPSTOR	1.10	

Cv	0.4575	
Cr	1.3	
outflow		
30 year	0.052	m s

Return Period

30

years

Rainfall Duration (hours)	Rainfall Duration (days)	Rainfall Depth (mm)	Effective Depth (mm)	Rainfall Intensity (mm/hr)	FLOW (l/s)	FLOW (l/s/ha)
0.25	0.010	12.07	7.2	48.3	52.1	79.8
0.5	0.021	17.55	10.4	35.1	37.9	58.0
0.75	0.031	21.13	12.6	28.2	30.4	46.6
1	0.042	23.85	14.2	23.9	25.8	39.4
1.25	0.052	26.08	15.5	20.9	22.5	34.5
1.5	0.063	27.99	16.6	18.7	20.1	30.9
1.75	0.073	29.66	17.6	16.9	18.3	28.0
2	0.083	31.15	18.5	15.6	16.8	25.8
2.25	0.094	32.51	19.3	14.4	15.6	23.9
2.5	0.104	33.75	20.1	13.5	14.6	22.3
2.75	0.115	34.9	20.8	12.7	13.7	21.0
3	0.125	35.97	21.4	12.0	12.9	19.8
3.25	0.135	36.98	22.0	11.4	12.3	18.8
3.5	0.146	37.92	22.6	10.8	11.7	17.9
3.75	0.156	38.82	23.1	10.4	11.2	17.1
4	0.167	39.67	23.6	9.9	10.7	16.4
4.25	0.177	40.48	24.1	9.5	10.3	15.7
4.5	0.188	41.26	24.5	9.2	9.9	15.2
4.75	0.198	42	25.0	8.8	9.5	14.6
5	0.208	42.72	25.4	8.5	9.2	14.1
5.25	0.219	43.4	25.8	8.3	8.9	13.7
5.5	0.229	44.07	26.2	8.0	8.7	13.2
5.75	0.240	44.71	26.6	7.8	8.4	12.9
6	0.250	45.33	27.0	7.6	8.2	12.5
6.25	0.260	45.92	27.3	7.3	7.9	12.1
6.5	0.271	46.51	27.7	7.2	7.7	11.8
6.75	0.281	47.07	28.0	7.0	7.5	11.5
7	0.292	47.62	28.3	6.8	7.3	11.2
7.25	0.302	48.15	28.6	6.6	7.2	11.0
7.5	0.313	48.67	28.9	6.5	7.0	10.7
7.75	0.323	49.18	29.2	6.3	6.9	10.5
8	0.333	49.68	29.5	6.2	6.7	10.3

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	60.0	%
SOIL	0.45	
Percentage Runoff PR	45.75	
DEEPSTOR	1.10	

Cv	0.4575	
Cr	1.3	
outflow		
100 year	0.079	m s

Rainfall Duration (hours)	Rainfall Duration (days)	Rainfall Depth (mm)	Effective Depth (mm)	Rainfall Intensity (mm/hr)	FLOW (l/s)	FLOW (l/s/ha)
0.25	0.010	18.2	10.8	72.8	78.6	120.4
0.5	0.021	25.89	15.4	51.8	55.9	85.6
0.75	0.031	30.76	18.3	41.0	44.3	67.8
1	0.042	34.4	20.5	34.4	37.1	56.9
1.25	0.052	37.35	22.2	29.9	32.3	49.4
1.5	0.063	39.85	23.7	26.6	28.7	43.9
1.75	0.073	42.01	25.0	24.0	25.9	39.7
2	0.083	43.94	26.1	22.0	23.7	36.3
2.25	0.094	45.68	27.2	20.3	21.9	33.6
2.5	0.104	47.26	28.1	18.9	20.4	31.3
2.75	0.115	48.72	29.0	17.7	19.1	29.3
3	0.125	50.08	29.8	16.7	18.0	27.6
3.25	0.135	51.35	30.5	15.8	17.1	26.1
3.5	0.146	52.54	31.2	15.0	16.2	24.8
3.75	0.156	53.66	31.9	14.3	15.4	23.7
4	0.167	54.72	32.5	13.7	14.8	22.6
4.25	0.177	55.73	33.1	13.1	14.2	21.7
4.5	0.188	56.7	33.7	12.6	13.6	20.8
4.75	0.198	57.62	34.3	12.1	13.1	20.1
5	0.208	58.5	34.8	11.7	12.6	19.3
5.25	0.219	59.35	35.3	11.3	12.2	18.7
5.5	0.229	60.16	35.8	10.9	11.8	18.1
5.75	0.240	60.95	36.3	10.6	11.4	17.5
6	0.250	61.71	36.7	10.3	11.1	17.0
6.25	0.260	62.44	37.1	10.0	10.8	16.5
6.5	0.271	63.15	37.6	9.7	10.5	16.1
6.75	0.281	63.84	38.0	9.5	10.2	15.6
7	0.292	64.51	38.4	9.2	9.9	15.2
7.25	0.302	65.16	38.8	9.0	9.7	14.9
7.5	0.313	65.79	39.1	8.8	9.5	14.5
7.75	0.323	66.41	39.5	8.6	9.3	14.2
8	0.333	67.01	39.9	8.4	9.0	13.8