

Name	Value	User-defined?
Tp (hr)	1	No
Up	0.65	No
Uk	0.8	No

Baseflow model parameters

Name	Value	User-defined?
BF0 (m ³ /s)	0	No
BL (hr)	25.98 [20.6]	Yes
BR	0.99	No

Urbanisation parameters

Name	Value	User-defined?
Sewer capacity (m ³ /s)	0	No
Exporting drained area (km ²)	0	No
Urban area (km ²)	0	No
Urbext 2000	0	No
Impervious runoff factor	0.7	No
Imperviousness factor	0.4	No
Tp scaling factor	0.75	No
Depression storage depth (mm)	0.5	No

Time series data

Time (hh:mm:ss)	Rain (mm)	Sewer Loss (m ³ /s)	Net Rain (mm)	Runoff (m ³ /s)	Baseflow (m ³ /s)	Total Flow (m ³ /s)
00:00:00	0.1110	0.0000	0.0533	0.0000	0.00146	0.00146
00:06:00	0.1456	0.0000	0.0701	0.0000	0.00145	0.00146
00:12:00	0.1908	0.0000	0.0919	0.0000	0.00145	0.0015
00:18:00	0.2497	0.0000	0.1205	0.0001	0.00144	0.00156
00:24:00	0.3262	0.0000	0.1579	0.0002	0.00144	0.00168
00:30:00	0.4254	0.0000	0.2065	0.0004	0.00143	0.00185
00:36:00	0.5534	0.0000	0.2697	0.0007	0.00143	0.0021
00:42:00	0.7173	0.0000	0.3515	0.0010	0.00143	0.00245
00:48:00	0.9247	0.0000	0.4562	0.0015	0.00143	0.00293
00:54:00	1.1776	0.0000	0.5859	0.0022	0.00143	0.00359
01:00:00	1.3632	0.0000	0.6853	0.0030	0.00143	0.00448
01:06:00	1.1776	0.0000	0.5981	0.0042	0.00144	0.00561
01:12:00	0.9247	0.0000	0.4736	0.0055	0.00145	0.00699
01:18:00	0.7173	0.0000	0.3698	0.0071	0.00147	0.00854
01:24:00	0.5534	0.0000	0.2867	0.0087	0.0015	0.0102
01:30:00	0.4254	0.0000	0.2212	0.0104	0.00153	0.0119
01:36:00	0.3262	0.0000	0.1701	0.0121	0.00156	0.0136
01:42:00	0.2497	0.0000	0.1305	0.0137	0.00161	0.0153
01:48:00	0.1908	0.0000	0.0999	0.0151	0.00166	0.0168
01:54:00	0.1456	0.0000	0.0763	0.0163	0.00171	0.0181
02:00:00	0.1110	0.0000	0.0582	0.0173	0.00177	0.019
02:06:00	0.0000	0.0000	0.0000	0.0178	0.00183	0.0196
02:12:00	0.0000	0.0000	0.0000	0.0179	0.00189	0.0198
02:18:00	0.0000	0.0000	0.0000	0.0176	0.00195	0.0196
02:24:00	0.0000	0.0000	0.0000	0.0171	0.00201	0.0191
02:30:00	0.0000	0.0000	0.0000	0.0164	0.00206	0.0185
02:36:00	0.0000	0.0000	0.0000	0.0156	0.00211	0.0177
02:42:00	0.0000	0.0000	0.0000	0.0146	0.00216	0.0168
02:48:00	0.0000	0.0000	0.0000	0.0136	0.00221	0.0158
02:54:00	0.0000	0.0000	0.0000	0.0126	0.00225	0.0148
03:00:00	0.0000	0.0000	0.0000	0.0115	0.00229	0.0138
03:06:00	0.0000	0.0000	0.0000	0.0106	0.00232	0.0129
03:12:00	0.0000	0.0000	0.0000	0.0096	0.00235	0.012
03:18:00	0.0000	0.0000	0.0000	0.0088	0.00238	0.0112
03:24:00	0.0000	0.0000	0.0000	0.0080	0.0024	0.0104

Time (hh:mm:ss)	Rain (mm)	Sewer Loss (m ³ /s)	Net Rain (mm)	Runoff (m ³ /s)	Baseflow (m ³ /s)	Total Flow (m ³ /s)
03:30:00	0.0000	0.0000	0.0000	0.0073	0.00242	0.00971
03:36:00	0.0000	0.0000	0.0000	0.0066	0.00244	0.00903
03:42:00	0.0000	0.0000	0.0000	0.0059	0.00245	0.00837
03:48:00	0.0000	0.0000	0.0000	0.0053	0.00246	0.00774
03:54:00	0.0000	0.0000	0.0000	0.0047	0.00247	0.00714
04:00:00	0.0000	0.0000	0.0000	0.0041	0.00248	0.00655
04:06:00	0.0000	0.0000	0.0000	0.0035	0.00248	0.00599
04:12:00	0.0000	0.0000	0.0000	0.0030	0.00249	0.00545
04:18:00	0.0000	0.0000	0.0000	0.0024	0.00249	0.00493
04:24:00	0.0000	0.0000	0.0000	0.0020	0.00249	0.00445
04:30:00	0.0000	0.0000	0.0000	0.0015	0.00248	0.00401
04:36:00	0.0000	0.0000	0.0000	0.0011	0.00248	0.00362
04:42:00	0.0000	0.0000	0.0000	0.0008	0.00247	0.00331
04:48:00	0.0000	0.0000	0.0000	0.0006	0.00247	0.00306
04:54:00	0.0000	0.0000	0.0000	0.0004	0.00246	0.00287
05:00:00	0.0000	0.0000	0.0000	0.0003	0.00245	0.00273
05:06:00	0.0000	0.0000	0.0000	0.0002	0.00244	0.00263
05:12:00	0.0000	0.0000	0.0000	0.0001	0.00243	0.00255
05:18:00	0.0000	0.0000	0.0000	0.0001	0.00242	0.00249
05:24:00	0.0000	0.0000	0.0000	0.0000	0.00241	0.00245
05:30:00	0.0000	0.0000	0.0000	0.0000	0.00241	0.00242
05:36:00	0.0000	0.0000	0.0000	0.0000	0.0024	0.0024
05:42:00	0.0000	0.0000	0.0000	0.0000	0.00239	0.00239
05:48:00	0.0000	0.0000	0.0000	0.0000	0.00238	0.00238
05:54:00	0.0000	0.0000	0.0000	0.0000	0.00237	0.00237
06:00:00	0.0000	0.0000	0.0000	0.0000	0.00236	0.00236
06:06:00	0.0000	0.0000	0.0000	0.0000	0.00235	0.00235
06:12:00	0.0000	0.0000	0.0000	0.0000	0.00234	0.00234
06:18:00	0.0000	0.0000	0.0000	0.0000	0.00233	0.00233
06:24:00	0.0000	0.0000	0.0000	0.0000	0.00232	0.00232
06:30:00	0.0000	0.0000	0.0000	0.0000	0.00231	0.00231
06:36:00	0.0000	0.0000	0.0000	0.0000	0.00231	0.00231
06:42:00	0.0000	0.0000	0.0000	0.0000	0.0023	0.0023
06:48:00	0.0000	0.0000	0.0000	0.0000	0.00229	0.00229
06:54:00	0.0000	0.0000	0.0000	0.0000	0.00228	0.00228
07:00:00	0.0000	0.0000	0.0000	0.0000	0.00227	0.00227

Time (hh:mm:ss)	Rain (mm)	Sewer Loss (m ³ /s)	Net Rain (mm)	Runoff (m ³ /s)	Baseflow (m ³ /s)	Total Flow (m ³ /s)
07:06:00	0.0000	0.0000	0.0000	0.0000	0.00226	0.00226
07:12:00	0.0000	0.0000	0.0000	0.0000	0.00225	0.00225
07:18:00	0.0000	0.0000	0.0000	0.0000	0.00224	0.00224
07:24:00	0.0000	0.0000	0.0000	0.0000	0.00224	0.00224
07:30:00	0.0000	0.0000	0.0000	0.0000	0.00223	0.00223
07:36:00	0.0000	0.0000	0.0000	0.0000	0.00222	0.00222
07:42:00	0.0000	0.0000	0.0000	0.0000	0.00221	0.00221
07:48:00	0.0000	0.0000	0.0000	0.0000	0.0022	0.0022
07:54:00	0.0000	0.0000	0.0000	0.0000	0.00219	0.00219
08:00:00	0.0000	0.0000	0.0000	0.0000	0.00218	0.00218
08:06:00	0.0000	0.0000	0.0000	0.0000	0.00218	0.00218
08:12:00	0.0000	0.0000	0.0000	0.0000	0.00217	0.00217
08:18:00	0.0000	0.0000	0.0000	0.0000	0.00216	0.00216
08:24:00	0.0000	0.0000	0.0000	0.0000	0.00215	0.00215
08:30:00	0.0000	0.0000	0.0000	0.0000	0.00214	0.00214
08:36:00	0.0000	0.0000	0.0000	0.0000	0.00213	0.00213
08:42:00	0.0000	0.0000	0.0000	0.0000	0.00213	0.00213
08:48:00	0.0000	0.0000	0.0000	0.0000	0.00212	0.00212
08:54:00	0.0000	0.0000	0.0000	0.0000	0.00211	0.00211
09:00:00	0.0000	0.0000	0.0000	0.0000	0.0021	0.0021
09:06:00	0.0000	0.0000	0.0000	0.0000	0.00209	0.00209
09:12:00	0.0000	0.0000	0.0000	0.0000	0.00209	0.00209
09:18:00	0.0000	0.0000	0.0000	0.0000	0.00208	0.00208
09:24:00	0.0000	0.0000	0.0000	0.0000	0.00207	0.00207
09:30:00	0.0000	0.0000	0.0000	0.0000	0.00206	0.00206
09:36:00	0.0000	0.0000	0.0000	0.0000	0.00205	0.00205
09:42:00	0.0000	0.0000	0.0000	0.0000	0.00205	0.00205
09:48:00	0.0000	0.0000	0.0000	0.0000	0.00204	0.00204
09:54:00	0.0000	0.0000	0.0000	0.0000	0.00203	0.00203
10:00:00	0.0000	0.0000	0.0000	0.0000	0.00202	0.00202
10:06:00	0.0000	0.0000	0.0000	0.0000	0.00202	0.00202
10:12:00	0.0000	0.0000	0.0000	0.0000	0.00201	0.00201
10:18:00	0.0000	0.0000	0.0000	0.0000	0.002	0.002
10:24:00	0.0000	0.0000	0.0000	0.0000	0.00199	0.00199
10:30:00	0.0000	0.0000	0.0000	0.0000	0.00198	0.00198
10:36:00	0.0000	0.0000	0.0000	0.0000	0.00198	0.00198

Time (hh:mm:ss)	Rain (mm)	Sewer Loss (m ³ /s)	Net Rain (mm)	Runoff (m ³ /s)	Baseflow (m ³ /s)	Total Flow (m ³ /s)
10:42:00	0.0000	0.0000	0.0000	0.0000	0.00197	0.00197
10:48:00	0.0000	0.0000	0.0000	0.0000	0.00196	0.00196
10:54:00	0.0000	0.0000	0.0000	0.0000	0.00195	0.00195
11:00:00	0.0000	0.0000	0.0000	0.0000	0.00195	0.00195
11:06:00	0.0000	0.0000	0.0000	0.0000	0.00194	0.00194
11:12:00	0.0000	0.0000	0.0000	0.0000	0.00193	0.00193
11:18:00	0.0000	0.0000	0.0000	0.0000	0.00192	0.00192
11:24:00	0.0000	0.0000	0.0000	0.0000	0.00192	0.00192
11:30:00	0.0000	0.0000	0.0000	0.0000	0.00191	0.00191
11:36:00	0.0000	0.0000	0.0000	0.0000	0.0019	0.0019
11:42:00	0.0000	0.0000	0.0000	0.0000	0.00189	0.00189
11:48:00	0.0000	0.0000	0.0000	0.0000	0.00189	0.00189
11:54:00	0.0000	0.0000	0.0000	0.0000	0.00188	0.00188
12:00:00	0.0000	0.0000	0.0000	0.0000	0.00187	0.00187
12:06:00	0.0000	0.0000	0.0000	0.0000	0.00187	0.00187
12:12:00	0.0000	0.0000	0.0000	0.0000	0.00186	0.00186
12:18:00	0.0000	0.0000	0.0000	0.0000	0.00185	0.00185
12:24:00	0.0000	0.0000	0.0000	0.0000	0.00184	0.00184
12:30:00	0.0000	0.0000	0.0000	0.0000	0.00184	0.00184
12:36:00	0.0000	0.0000	0.0000	0.0000	0.00183	0.00183
12:42:00	0.0000	0.0000	0.0000	0.0000	0.00182	0.00182
12:48:00	0.0000	0.0000	0.0000	0.0000	0.00182	0.00182
12:54:00	0.0000	0.0000	0.0000	0.0000	0.00181	0.00181
13:00:00	0.0000	0.0000	0.0000	0.0000	0.0018	0.0018
13:06:00	0.0000	0.0000	0.0000	0.0000	0.0018	0.0018
13:12:00	0.0000	0.0000	0.0000	0.0000	0.00179	0.00179
13:18:00	0.0000	0.0000	0.0000	0.0000	0.00178	0.00178
13:24:00	0.0000	0.0000	0.0000	0.0000	0.00177	0.00177
13:30:00	0.0000	0.0000	0.0000	0.0000	0.00177	0.00177
13:36:00	0.0000	0.0000	0.0000	0.0000	0.00176	0.00176
13:42:00	0.0000	0.0000	0.0000	0.0000	0.00175	0.00175
13:48:00	0.0000	0.0000	0.0000	0.0000	0.00175	0.00175
13:54:00	0.0000	0.0000	0.0000	0.0000	0.00174	0.00174
14:00:00	0.0000	0.0000	0.0000	0.0000	0.00173	0.00173
14:06:00	0.0000	0.0000	0.0000	0.0000	0.00173	0.00173
14:12:00	0.0000	0.0000	0.0000	0.0000	0.00172	0.00172

Time (hh:mm:ss)	Rain (mm)	Sewer Loss (m ³ /s)	Net Rain (mm)	Runoff (m ³ /s)	Baseflow (m ³ /s)	Total Flow (m ³ /s)
14:18:00	0.0000	0.0000	0.0000	0.0000	0.00171	0.00171
14:24:00	0.0000	0.0000	0.0000	0.0000	0.00171	0.00171
14:30:00	0.0000	0.0000	0.0000	0.0000	0.0017	0.0017
14:36:00	0.0000	0.0000	0.0000	0.0000	0.00169	0.00169
14:42:00	0.0000	0.0000	0.0000	0.0000	0.00169	0.00169
14:48:00	0.0000	0.0000	0.0000	0.0000	0.00168	0.00168
14:54:00	0.0000	0.0000	0.0000	0.0000	0.00168	0.00168
15:00:00	0.0000	0.0000	0.0000	0.0000	0.00167	0.00167
15:06:00	0.0000	0.0000	0.0000	0.0000	0.00166	0.00166
15:12:00	0.0000	0.0000	0.0000	0.0000	0.00166	0.00166
15:18:00	0.0000	0.0000	0.0000	0.0000	0.00165	0.00165
15:24:00	0.0000	0.0000	0.0000	0.0000	0.00164	0.00164
15:30:00	0.0000	0.0000	0.0000	0.0000	0.00164	0.00164
15:36:00	0.0000	0.0000	0.0000	0.0000	0.00163	0.00163
15:42:00	0.0000	0.0000	0.0000	0.0000	0.00162	0.00162
15:48:00	0.0000	0.0000	0.0000	0.0000	0.00162	0.00162
15:54:00	0.0000	0.0000	0.0000	0.0000	0.00161	0.00161
16:00:00	0.0000	0.0000	0.0000	0.0000	0.00161	0.00161
16:06:00	0.0000	0.0000	0.0000	0.0000	0.0016	0.0016
16:12:00	0.0000	0.0000	0.0000	0.0000	0.00159	0.00159
16:18:00	0.0000	0.0000	0.0000	0.0000	0.00159	0.00159
16:24:00	0.0000	0.0000	0.0000	0.0000	0.00158	0.00158
16:30:00	0.0000	0.0000	0.0000	0.0000	0.00158	0.00158
16:36:00	0.0000	0.0000	0.0000	0.0000	0.00157	0.00157
16:42:00	0.0000	0.0000	0.0000	0.0000	0.00156	0.00156
16:48:00	0.0000	0.0000	0.0000	0.0000	0.00156	0.00156
16:54:00	0.0000	0.0000	0.0000	0.0000	0.00155	0.00155
17:00:00	0.0000	0.0000	0.0000	0.0000	0.00155	0.00155
17:06:00	0.0000	0.0000	0.0000	0.0000	0.00154	0.00154
17:12:00	0.0000	0.0000	0.0000	0.0000	0.00153	0.00153
17:18:00	0.0000	0.0000	0.0000	0.0000	0.00153	0.00153
17:24:00	0.0000	0.0000	0.0000	0.0000	0.00152	0.00152
17:30:00	0.0000	0.0000	0.0000	0.0000	0.00152	0.00152
17:36:00	0.0000	0.0000	0.0000	0.0000	0.00151	0.00151
17:42:00	0.0000	0.0000	0.0000	0.0000	0.0015	0.0015
17:48:00	0.0000	0.0000	0.0000	0.0000	0.0015	0.0015

Time (hh:mm:ss)	Rain (mm)	Sewer Loss (m ³ /s)	Net Rain (mm)	Runoff (m ³ /s)	Baseflow (m ³ /s)	Total Flow (m ³ /s)
17:54:00	0.0000	0.0000	0.0000	0.0000	0.00149	0.00149
18:00:00	0.0000	0.0000	0.0000	0.0000	0.00149	0.00149
18:06:00	0.0000	0.0000	0.0000	0.0000	0.00148	0.00148
18:12:00	0.0000	0.0000	0.0000	0.0000	0.00148	0.00148
18:18:00	0.0000	0.0000	0.0000	0.0000	0.00147	0.00147

Appendix

Catchment descriptors *

Name	Value	User-defined value used?
BFIHOST	0.32	No
BFIHOST19	0.34	No
PROPWET	0.51	No
SAAR (mm)	1146	No

Values in square brackets are the original values loaded from the FEH Web Service or FEH CD-ROM

UK Design Flood Estimation

Generated on 08 November 2024 11:56:28 by ihopkinson
Printed from the ReFH2 Flood Modelling software package, version 4.0.8560.23190

Summary of estimate using the Flood Estimation Handbook revitalised flood hydrograph method (ReFH2)

Site details

Checksum: 3486-B186

Site name: FEH_Point_Descriptors_370282_434529_v5_0_1

Easting: 370282

Northing: 434529

Country: England, Wales or Northern Ireland

Catchment Area (km²): 0.02 [0.5]*

Using plot scale calculations: Yes

Model: 2.3

Site description: None

Model run: 2 year

Summary of results

Rainfall - FEH22 (mm):	17.31	Total runoff (ML):	0.15
Total Rainfall (mm):	12.72	Total flow (ML):	0.30
Peak Rainfall (mm):	1.58	Peak flow (m ³ /s):	0.02

Parameters

Where the user has overridden a system-generated value, this original value is shown in square brackets after the value used.

** Indicates that the user locked the duration/timestep*

Rainfall parameters (Rainfall - FEH22)

Name	Value	User-defined?
Duration (hh:mm:ss)	02:06:00	No
Timestep (hh:mm:ss)	00:06:00	No
SCF (Seasonal correction factor)	0.74	No
ARF (Areal reduction factor)	1 [0.99]	Yes
Seasonality	Winter	No

Loss model parameters

Name	Value	User-defined?
Cini (mm)	118.59	No
Cmax (mm)	246.84	No
Use alpha correction factor	No	No
Alpha correction factor	n/a	No

Routing model parameters

Name	Value	User-defined?
Tp (hr)	1	No
Up	0.65	No
Uk	0.8	No

Baseflow model parameters

Name	Value	User-defined?
BF0 (m ³ /s)	0	No
BL (hr)	25.98 [20.6]	Yes
BR	0.98	No

Urbanisation parameters

Name	Value	User-defined?
Sewer capacity (m ³ /s)	0	No
Exporting drained area (km ²)	0	No
Urban area (km ²)	0	No
Urbext 2000	0	No
Impervious runoff factor	0.7	No
Imperviousness factor	0.4	No
Tp scaling factor	0.75	No
Depression storage depth (mm)	0.5	No

Time series data

Time (hh:mm:ss)	Rain (mm)	Sewer Loss (m ³ /s)	Net Rain (mm)	Runoff (m ³ /s)	Baseflow (m ³ /s)	Total Flow (m ³ /s)
00:00:00	0.1283	0.0000	0.0617	0.0000	0.00146	0.00146
00:06:00	0.1683	0.0000	0.0810	0.0000	0.00145	0.00147
00:12:00	0.2205	0.0000	0.1063	0.0001	0.00145	0.0015
00:18:00	0.2886	0.0000	0.1394	0.0001	0.00144	0.00158
00:24:00	0.3771	0.0000	0.1827	0.0003	0.00144	0.00171
00:30:00	0.4917	0.0000	0.2391	0.0005	0.00143	0.00191
00:36:00	0.6397	0.0000	0.3125	0.0008	0.00143	0.0022
00:42:00	0.8292	0.0000	0.4075	0.0012	0.00143	0.00261
00:48:00	1.0689	0.0000	0.5294	0.0017	0.00143	0.00317
00:54:00	1.3612	0.0000	0.6809	0.0025	0.00143	0.00394
01:00:00	1.5757	0.0000	0.7976	0.0035	0.00144	0.00496
01:06:00	1.3612	0.0000	0.6971	0.0048	0.00145	0.00628
01:12:00	1.0689	0.0000	0.5527	0.0064	0.00146	0.00788
01:18:00	0.8292	0.0000	0.4319	0.0082	0.00148	0.00968
01:24:00	0.6397	0.0000	0.3351	0.0101	0.00151	0.0116
01:30:00	0.4917	0.0000	0.2587	0.0121	0.00155	0.0136
01:36:00	0.3771	0.0000	0.1991	0.0140	0.00159	0.0156
01:42:00	0.2886	0.0000	0.1527	0.0159	0.00164	0.0175
01:48:00	0.2205	0.0000	0.1169	0.0176	0.0017	0.0193
01:54:00	0.1683	0.0000	0.0894	0.0190	0.00176	0.0208
02:00:00	0.1283	0.0000	0.0682	0.0201	0.00183	0.0219
02:06:00	0.0000	0.0000	0.0000	0.0207	0.0019	0.0226
02:12:00	0.0000	0.0000	0.0000	0.0208	0.00197	0.0228
02:18:00	0.0000	0.0000	0.0000	0.0205	0.00204	0.0226
02:24:00	0.0000	0.0000	0.0000	0.0200	0.0021	0.0221
02:30:00	0.0000	0.0000	0.0000	0.0191	0.00217	0.0213
02:36:00	0.0000	0.0000	0.0000	0.0181	0.00223	0.0204
02:42:00	0.0000	0.0000	0.0000	0.0170	0.00229	0.0193
02:48:00	0.0000	0.0000	0.0000	0.0158	0.00234	0.0182
02:54:00	0.0000	0.0000	0.0000	0.0146	0.00239	0.017
03:00:00	0.0000	0.0000	0.0000	0.0134	0.00243	0.0159
03:06:00	0.0000	0.0000	0.0000	0.0123	0.00247	0.0148
03:12:00	0.0000	0.0000	0.0000	0.0112	0.00251	0.0137
03:18:00	0.0000	0.0000	0.0000	0.0103	0.00254	0.0128
03:24:00	0.0000	0.0000	0.0000	0.0094	0.00256	0.0119

Time (hh:mm:ss)	Rain (mm)	Sewer Loss (m ³ /s)	Net Rain (mm)	Runoff (m ³ /s)	Baseflow (m ³ /s)	Total Flow (m ³ /s)
03:30:00	0.0000	0.0000	0.0000	0.0085	0.00259	0.0111
03:36:00	0.0000	0.0000	0.0000	0.0077	0.00261	0.0103
03:42:00	0.0000	0.0000	0.0000	0.0069	0.00263	0.00953
03:48:00	0.0000	0.0000	0.0000	0.0062	0.00264	0.0088
03:54:00	0.0000	0.0000	0.0000	0.0054	0.00265	0.00809
04:00:00	0.0000	0.0000	0.0000	0.0047	0.00266	0.00741
04:06:00	0.0000	0.0000	0.0000	0.0041	0.00267	0.00675
04:12:00	0.0000	0.0000	0.0000	0.0035	0.00267	0.00612
04:18:00	0.0000	0.0000	0.0000	0.0029	0.00267	0.00552
04:24:00	0.0000	0.0000	0.0000	0.0023	0.00267	0.00496
04:30:00	0.0000	0.0000	0.0000	0.0018	0.00267	0.00445
04:36:00	0.0000	0.0000	0.0000	0.0013	0.00266	0.004
04:42:00	0.0000	0.0000	0.0000	0.0010	0.00266	0.00363
04:48:00	0.0000	0.0000	0.0000	0.0007	0.00265	0.00335
04:54:00	0.0000	0.0000	0.0000	0.0005	0.00264	0.00313
05:00:00	0.0000	0.0000	0.0000	0.0003	0.00263	0.00297
05:06:00	0.0000	0.0000	0.0000	0.0002	0.00263	0.00284
05:12:00	0.0000	0.0000	0.0000	0.0001	0.00262	0.00275
05:18:00	0.0000	0.0000	0.0000	0.0001	0.00261	0.00268
05:24:00	0.0000	0.0000	0.0000	0.0000	0.0026	0.00264
05:30:00	0.0000	0.0000	0.0000	0.0000	0.00259	0.0026
05:36:00	0.0000	0.0000	0.0000	0.0000	0.00258	0.00258
05:42:00	0.0000	0.0000	0.0000	0.0000	0.00257	0.00257
05:48:00	0.0000	0.0000	0.0000	0.0000	0.00256	0.00256
05:54:00	0.0000	0.0000	0.0000	0.0000	0.00255	0.00255
06:00:00	0.0000	0.0000	0.0000	0.0000	0.00254	0.00254
06:06:00	0.0000	0.0000	0.0000	0.0000	0.00253	0.00253
06:12:00	0.0000	0.0000	0.0000	0.0000	0.00252	0.00252
06:18:00	0.0000	0.0000	0.0000	0.0000	0.00251	0.00251
06:24:00	0.0000	0.0000	0.0000	0.0000	0.0025	0.0025
06:30:00	0.0000	0.0000	0.0000	0.0000	0.00249	0.00249
06:36:00	0.0000	0.0000	0.0000	0.0000	0.00248	0.00248
06:42:00	0.0000	0.0000	0.0000	0.0000	0.00247	0.00247
06:48:00	0.0000	0.0000	0.0000	0.0000	0.00246	0.00246
06:54:00	0.0000	0.0000	0.0000	0.0000	0.00245	0.00245
07:00:00	0.0000	0.0000	0.0000	0.0000	0.00244	0.00244

Time (hh:mm:ss)	Rain (mm)	Sewer Loss (m ³ /s)	Net Rain (mm)	Runoff (m ³ /s)	Baseflow (m ³ /s)	Total Flow (m ³ /s)
07:06:00	0.0000	0.0000	0.0000	0.0000	0.00243	0.00243
07:12:00	0.0000	0.0000	0.0000	0.0000	0.00242	0.00242
07:18:00	0.0000	0.0000	0.0000	0.0000	0.00241	0.00241
07:24:00	0.0000	0.0000	0.0000	0.0000	0.0024	0.0024
07:30:00	0.0000	0.0000	0.0000	0.0000	0.0024	0.0024
07:36:00	0.0000	0.0000	0.0000	0.0000	0.00239	0.00239
07:42:00	0.0000	0.0000	0.0000	0.0000	0.00238	0.00238
07:48:00	0.0000	0.0000	0.0000	0.0000	0.00237	0.00237
07:54:00	0.0000	0.0000	0.0000	0.0000	0.00236	0.00236
08:00:00	0.0000	0.0000	0.0000	0.0000	0.00235	0.00235
08:06:00	0.0000	0.0000	0.0000	0.0000	0.00234	0.00234
08:12:00	0.0000	0.0000	0.0000	0.0000	0.00233	0.00233
08:18:00	0.0000	0.0000	0.0000	0.0000	0.00232	0.00232
08:24:00	0.0000	0.0000	0.0000	0.0000	0.00231	0.00231
08:30:00	0.0000	0.0000	0.0000	0.0000	0.0023	0.0023
08:36:00	0.0000	0.0000	0.0000	0.0000	0.0023	0.0023
08:42:00	0.0000	0.0000	0.0000	0.0000	0.00229	0.00229
08:48:00	0.0000	0.0000	0.0000	0.0000	0.00228	0.00228
08:54:00	0.0000	0.0000	0.0000	0.0000	0.00227	0.00227
09:00:00	0.0000	0.0000	0.0000	0.0000	0.00226	0.00226
09:06:00	0.0000	0.0000	0.0000	0.0000	0.00225	0.00225
09:12:00	0.0000	0.0000	0.0000	0.0000	0.00224	0.00224
09:18:00	0.0000	0.0000	0.0000	0.0000	0.00223	0.00223
09:24:00	0.0000	0.0000	0.0000	0.0000	0.00223	0.00223
09:30:00	0.0000	0.0000	0.0000	0.0000	0.00222	0.00222
09:36:00	0.0000	0.0000	0.0000	0.0000	0.00221	0.00221
09:42:00	0.0000	0.0000	0.0000	0.0000	0.0022	0.0022
09:48:00	0.0000	0.0000	0.0000	0.0000	0.00219	0.00219
09:54:00	0.0000	0.0000	0.0000	0.0000	0.00218	0.00218
10:00:00	0.0000	0.0000	0.0000	0.0000	0.00218	0.00218
10:06:00	0.0000	0.0000	0.0000	0.0000	0.00217	0.00217
10:12:00	0.0000	0.0000	0.0000	0.0000	0.00216	0.00216
10:18:00	0.0000	0.0000	0.0000	0.0000	0.00215	0.00215
10:24:00	0.0000	0.0000	0.0000	0.0000	0.00214	0.00214
10:30:00	0.0000	0.0000	0.0000	0.0000	0.00213	0.00213
10:36:00	0.0000	0.0000	0.0000	0.0000	0.00213	0.00213

Time (hh:mm:ss)	Rain (mm)	Sewer Loss (m ³ /s)	Net Rain (mm)	Runoff (m ³ /s)	Baseflow (m ³ /s)	Total Flow (m ³ /s)
10:42:00	0.0000	0.0000	0.0000	0.0000	0.00212	0.00212
10:48:00	0.0000	0.0000	0.0000	0.0000	0.00211	0.00211
10:54:00	0.0000	0.0000	0.0000	0.0000	0.0021	0.0021
11:00:00	0.0000	0.0000	0.0000	0.0000	0.00209	0.00209
11:06:00	0.0000	0.0000	0.0000	0.0000	0.00209	0.00209
11:12:00	0.0000	0.0000	0.0000	0.0000	0.00208	0.00208
11:18:00	0.0000	0.0000	0.0000	0.0000	0.00207	0.00207
11:24:00	0.0000	0.0000	0.0000	0.0000	0.00206	0.00206
11:30:00	0.0000	0.0000	0.0000	0.0000	0.00205	0.00205
11:36:00	0.0000	0.0000	0.0000	0.0000	0.00205	0.00205
11:42:00	0.0000	0.0000	0.0000	0.0000	0.00204	0.00204
11:48:00	0.0000	0.0000	0.0000	0.0000	0.00203	0.00203
11:54:00	0.0000	0.0000	0.0000	0.0000	0.00202	0.00202
12:00:00	0.0000	0.0000	0.0000	0.0000	0.00201	0.00201
12:06:00	0.0000	0.0000	0.0000	0.0000	0.00201	0.00201
12:12:00	0.0000	0.0000	0.0000	0.0000	0.002	0.002
12:18:00	0.0000	0.0000	0.0000	0.0000	0.00199	0.00199
12:24:00	0.0000	0.0000	0.0000	0.0000	0.00198	0.00198
12:30:00	0.0000	0.0000	0.0000	0.0000	0.00198	0.00198
12:36:00	0.0000	0.0000	0.0000	0.0000	0.00197	0.00197
12:42:00	0.0000	0.0000	0.0000	0.0000	0.00196	0.00196
12:48:00	0.0000	0.0000	0.0000	0.0000	0.00195	0.00195
12:54:00	0.0000	0.0000	0.0000	0.0000	0.00195	0.00195
13:00:00	0.0000	0.0000	0.0000	0.0000	0.00194	0.00194
13:06:00	0.0000	0.0000	0.0000	0.0000	0.00193	0.00193
13:12:00	0.0000	0.0000	0.0000	0.0000	0.00192	0.00192
13:18:00	0.0000	0.0000	0.0000	0.0000	0.00192	0.00192
13:24:00	0.0000	0.0000	0.0000	0.0000	0.00191	0.00191
13:30:00	0.0000	0.0000	0.0000	0.0000	0.0019	0.0019
13:36:00	0.0000	0.0000	0.0000	0.0000	0.00189	0.00189
13:42:00	0.0000	0.0000	0.0000	0.0000	0.00189	0.00189
13:48:00	0.0000	0.0000	0.0000	0.0000	0.00188	0.00188
13:54:00	0.0000	0.0000	0.0000	0.0000	0.00187	0.00187
14:00:00	0.0000	0.0000	0.0000	0.0000	0.00186	0.00186
14:06:00	0.0000	0.0000	0.0000	0.0000	0.00186	0.00186
14:12:00	0.0000	0.0000	0.0000	0.0000	0.00185	0.00185

Time (hh:mm:ss)	Rain (mm)	Sewer Loss (m ³ /s)	Net Rain (mm)	Runoff (m ³ /s)	Baseflow (m ³ /s)	Total Flow (m ³ /s)
14:18:00	0.0000	0.0000	0.0000	0.0000	0.00184	0.00184
14:24:00	0.0000	0.0000	0.0000	0.0000	0.00184	0.00184
14:30:00	0.0000	0.0000	0.0000	0.0000	0.00183	0.00183
14:36:00	0.0000	0.0000	0.0000	0.0000	0.00182	0.00182
14:42:00	0.0000	0.0000	0.0000	0.0000	0.00182	0.00182
14:48:00	0.0000	0.0000	0.0000	0.0000	0.00181	0.00181
14:54:00	0.0000	0.0000	0.0000	0.0000	0.0018	0.0018
15:00:00	0.0000	0.0000	0.0000	0.0000	0.00179	0.00179
15:06:00	0.0000	0.0000	0.0000	0.0000	0.00179	0.00179
15:12:00	0.0000	0.0000	0.0000	0.0000	0.00178	0.00178
15:18:00	0.0000	0.0000	0.0000	0.0000	0.00177	0.00177
15:24:00	0.0000	0.0000	0.0000	0.0000	0.00177	0.00177
15:30:00	0.0000	0.0000	0.0000	0.0000	0.00176	0.00176
15:36:00	0.0000	0.0000	0.0000	0.0000	0.00175	0.00175
15:42:00	0.0000	0.0000	0.0000	0.0000	0.00175	0.00175
15:48:00	0.0000	0.0000	0.0000	0.0000	0.00174	0.00174
15:54:00	0.0000	0.0000	0.0000	0.0000	0.00173	0.00173
16:00:00	0.0000	0.0000	0.0000	0.0000	0.00173	0.00173
16:06:00	0.0000	0.0000	0.0000	0.0000	0.00172	0.00172
16:12:00	0.0000	0.0000	0.0000	0.0000	0.00171	0.00171
16:18:00	0.0000	0.0000	0.0000	0.0000	0.00171	0.00171
16:24:00	0.0000	0.0000	0.0000	0.0000	0.0017	0.0017
16:30:00	0.0000	0.0000	0.0000	0.0000	0.00169	0.00169
16:36:00	0.0000	0.0000	0.0000	0.0000	0.00169	0.00169
16:42:00	0.0000	0.0000	0.0000	0.0000	0.00168	0.00168
16:48:00	0.0000	0.0000	0.0000	0.0000	0.00167	0.00167
16:54:00	0.0000	0.0000	0.0000	0.0000	0.00167	0.00167
17:00:00	0.0000	0.0000	0.0000	0.0000	0.00166	0.00166
17:06:00	0.0000	0.0000	0.0000	0.0000	0.00166	0.00166
17:12:00	0.0000	0.0000	0.0000	0.0000	0.00165	0.00165
17:18:00	0.0000	0.0000	0.0000	0.0000	0.00164	0.00164
17:24:00	0.0000	0.0000	0.0000	0.0000	0.00164	0.00164
17:30:00	0.0000	0.0000	0.0000	0.0000	0.00163	0.00163
17:36:00	0.0000	0.0000	0.0000	0.0000	0.00162	0.00162
17:42:00	0.0000	0.0000	0.0000	0.0000	0.00162	0.00162
17:48:00	0.0000	0.0000	0.0000	0.0000	0.00161	0.00161

Time (hh:mm:ss)	Rain (mm)	Sewer Loss (m ³ /s)	Net Rain (mm)	Runoff (m ³ /s)	Baseflow (m ³ /s)	Total Flow (m ³ /s)
17:54:00	0.0000	0.0000	0.0000	0.0000	0.0016	0.0016
18:00:00	0.0000	0.0000	0.0000	0.0000	0.0016	0.0016
18:06:00	0.0000	0.0000	0.0000	0.0000	0.00159	0.00159
18:12:00	0.0000	0.0000	0.0000	0.0000	0.00159	0.00159
18:18:00	0.0000	0.0000	0.0000	0.0000	0.00158	0.00158
18:24:00	0.0000	0.0000	0.0000	0.0000	0.00157	0.00157
18:30:00	0.0000	0.0000	0.0000	0.0000	0.00157	0.00157
18:36:00	0.0000	0.0000	0.0000	0.0000	0.00156	0.00156
18:42:00	0.0000	0.0000	0.0000	0.0000	0.00156	0.00156
18:48:00	0.0000	0.0000	0.0000	0.0000	0.00155	0.00155
18:54:00	0.0000	0.0000	0.0000	0.0000	0.00154	0.00154
19:00:00	0.0000	0.0000	0.0000	0.0000	0.00154	0.00154
19:06:00	0.0000	0.0000	0.0000	0.0000	0.00153	0.00153
19:12:00	0.0000	0.0000	0.0000	0.0000	0.00153	0.00153
19:18:00	0.0000	0.0000	0.0000	0.0000	0.00152	0.00152
19:24:00	0.0000	0.0000	0.0000	0.0000	0.00151	0.00151
19:30:00	0.0000	0.0000	0.0000	0.0000	0.00151	0.00151
19:36:00	0.0000	0.0000	0.0000	0.0000	0.0015	0.0015
19:42:00	0.0000	0.0000	0.0000	0.0000	0.0015	0.0015
19:48:00	0.0000	0.0000	0.0000	0.0000	0.00149	0.00149
19:54:00	0.0000	0.0000	0.0000	0.0000	0.00149	0.00149
20:00:00	0.0000	0.0000	0.0000	0.0000	0.00148	0.00148
20:06:00	0.0000	0.0000	0.0000	0.0000	0.00147	0.00147
20:12:00	0.0000	0.0000	0.0000	0.0000	0.00147	0.00147

Appendix

Catchment descriptors *

Name	Value	User-defined value used?
BFIHOST	0.32	No
BFIHOST19	0.34	No
PROPWET	0.51	No
SAAR (mm)	1146	No

Values in square brackets are the original values loaded from the FEH Web Service or FEH CD-ROM

UK Design Flood Estimation

Generated on 08 November 2024 11:58:07 by ihopkinson
Printed from the ReFH2 Flood Modelling software package, version 4.0.8560.23190

Summary of estimate using the Flood Estimation Handbook revitalised flood hydrograph method (ReFH2)

Site details

Checksum: 3486-B186

Site name: FEH_Point_Descriptors_370282_434529_v5_0_1

Easting: 370282

Northing: 434529

Country: England, Wales or Northern Ireland

Catchment Area (km²): 0.02 [0.5]*

Using plot scale calculations: Yes

Model: 2.3

Site description: None

Model run: 10 year

Summary of results

Rainfall - FEH22 (mm):	29.94	Total runoff (ML):	0.27
Total Rainfall (mm):	22.01	Total flow (ML):	0.52
Peak Rainfall (mm):	2.73	Peak flow (m ³ /s):	0.04

Parameters

Where the user has overridden a system-generated value, this original value is shown in square brackets after the value used.

** Indicates that the user locked the duration/timestep*

Rainfall parameters (Rainfall - FEH22)

Name	Value	User-defined?
Duration (hh:mm:ss)	02:06:00	No
Timestep (hh:mm:ss)	00:06:00	No
SCF (Seasonal correction factor)	0.74	No
ARF (Areal reduction factor)	1 [0.99]	Yes
Seasonality	Winter	No

Loss model parameters

Name	Value	User-defined?
Cini (mm)	118.59	No
Cmax (mm)	246.84	No
Use alpha correction factor	No	No
Alpha correction factor	n/a	No

Routing model parameters

Name	Value	User-defined?
Tp (hr)	1	No
Up	0.65	No
Uk	0.8	No

Baseflow model parameters

Name	Value	User-defined?
BF0 (m ³ /s)	0	No
BL (hr)	25.98 [20.6]	Yes
BR	0.9	No

Urbanisation parameters

Name	Value	User-defined?
Sewer capacity (m ³ /s)	0	No
Exporting drained area (km ²)	0	No
Urban area (km ²)	0	No
Urbext 2000	0	No
Impervious runoff factor	0.7	No
Imperviousness factor	0.4	No
Tp scaling factor	0.75	No
Depression storage depth (mm)	0.5	No

Time series data

Time (hh:mm:ss)	Rain (mm)	Sewer Loss (m ³ /s)	Net Rain (mm)	Runoff (m ³ /s)	Baseflow (m ³ /s)	Total Flow (m ³ /s)
00:00:00	0.2220	0.0000	0.1067	0.0000	0.00146	0.00146
00:06:00	0.2912	0.0000	0.1403	0.0000	0.00145	0.00148
00:12:00	0.3815	0.0000	0.1844	0.0001	0.00145	0.00155
00:18:00	0.4993	0.0000	0.2422	0.0002	0.00144	0.00168
00:24:00	0.6524	0.0000	0.3180	0.0005	0.00144	0.00191
00:30:00	0.8508	0.0000	0.4172	0.0008	0.00144	0.00226
00:36:00	1.1067	0.0000	0.5472	0.0013	0.00143	0.00277
00:42:00	1.4346	0.0000	0.7167	0.0021	0.00143	0.00349
00:48:00	1.8492	0.0000	0.9361	0.0030	0.00144	0.00447
00:54:00	2.3550	0.0000	1.2122	0.0044	0.00144	0.00581
01:00:00	2.7262	0.0000	1.4313	0.0062	0.00146	0.00761
01:06:00	2.3550	0.0000	1.2607	0.0085	0.00148	0.00995
01:12:00	1.8492	0.0000	1.0057	0.0113	0.00151	0.0128
01:18:00	1.4346	0.0000	0.7897	0.0144	0.00154	0.016
01:24:00	1.1067	0.0000	0.6149	0.0179	0.0016	0.0194
01:30:00	0.8508	0.0000	0.4761	0.0214	0.00166	0.023
01:36:00	0.6524	0.0000	0.3670	0.0249	0.00173	0.0266
01:42:00	0.4993	0.0000	0.2821	0.0282	0.00182	0.0301
01:48:00	0.3815	0.0000	0.2162	0.0313	0.00191	0.0332
01:54:00	0.2912	0.0000	0.1654	0.0339	0.00202	0.0359
02:00:00	0.2220	0.0000	0.1263	0.0359	0.00213	0.038
02:06:00	0.0000	0.0000	0.0000	0.0371	0.00225	0.0393
02:12:00	0.0000	0.0000	0.0000	0.0374	0.00237	0.0397
02:18:00	0.0000	0.0000	0.0000	0.0369	0.00249	0.0394
02:24:00	0.0000	0.0000	0.0000	0.0359	0.00261	0.0385
02:30:00	0.0000	0.0000	0.0000	0.0345	0.00272	0.0372
02:36:00	0.0000	0.0000	0.0000	0.0327	0.00283	0.0355
02:42:00	0.0000	0.0000	0.0000	0.0307	0.00293	0.0336
02:48:00	0.0000	0.0000	0.0000	0.0286	0.00302	0.0316
02:54:00	0.0000	0.0000	0.0000	0.0264	0.0031	0.0295
03:00:00	0.0000	0.0000	0.0000	0.0243	0.00318	0.0275
03:06:00	0.0000	0.0000	0.0000	0.0222	0.00325	0.0255
03:12:00	0.0000	0.0000	0.0000	0.0203	0.00331	0.0236
03:18:00	0.0000	0.0000	0.0000	0.0185	0.00336	0.0219
03:24:00	0.0000	0.0000	0.0000	0.0169	0.00341	0.0203