

# HIFLOWS-UK

DATA UPDATE TO 30 SEPTEMBER 2006

DATA VERSION 2.2.1, RELEASE DATE OCTOBER 2008

## Details of changes

### 1. Stations added or removed

No stations have been removed. 73803 Bowston has been added to replace 73003 Burneside (now closed) from 1999, and one combined record from the two stations is presented in file 73803.am.

### 2. Indicative Suitabilities - change during period of record

Where the Indicative Suitability at a station varies over the period of record, only that part with the highest Indicative Suitability is written to the .am and .pt files for use in flood estimation; the .csv files give all POT data. This affects the following stations:

CEH Ref	Watercourse	Location	Region	PT and AM files
26009	West Beck	Snakeholme Lock	North East	No POT files
26010	Drifffield Canal	Snakeholme Lock	North East	No POT files
28058	Henmore Brook	Ashbourne	Midlands	No data from water year 1992/1993 in AM and PT files
39004	Wandle	Beddington Park	Thames	Data from 01/10/1991 in AM & PT files
42003	Lymington	Brockenhurst	Southern	Data from 01/10/1996 in AM & PT files
54022	Severn	Plynlimon	Midlands	Give data from 01/10/1971 in AM and PT files
55016	Ithon	Disserth	Wales	Data from Oct 1972 in AM & PT files
58002	Neath	Resolven	Wales	Data from July 1978 in AM & PT files
58009	Ewenny	Keeper's Lodge	Wales	Data from June 1995 in AM & PT files
60002	Cothi	Felin Mynachdy	Wales	1960 water year excluded from AM (it is only a partial record)
61001	Western Cleddau	Prendergast Mill	Wales	Data from Oct 1971 in AM & PT files
69032	Alt	Kirkby	North West	Data from 07/09/1977 in AM & PT files
72003	Hindburn	Wray	North West	Data from 01/01/1991 in AM & PT files

### 3. Indicative Suitabilities - changes

Station			Before update		After update	
CEH Ref	Location	Region	Suitable for QMED	Suitable for Pooling	Suitable for QMED	Suitable for Pooling
26803	Drifffield	North East	YES	YES	NO	NO
27001	Hunsingore	North East	YES	NO	YES	YES
28002	Hamstall Ridware	Midlands	NO	NO	YES	YES
28005	Elford	Midlands	YES	NO	NO	NO
28059	Mansfield Old	Midlands	YES	YES	NO	NO
33020	Brampton	Anglian	YES	NO	NO	NO
37020	Felsted	Anglian	YES	YES	YES	NO
38020	Waltham Abbey	Thames	YES	NO	YES	YES

Station			Before update		After update	
CEH Ref	Location	Region	Suitable for QMED	Suitable for Pooling	Suitable for QMED	Suitable for Pooling
	(Sewardstone Rd)					
39004	Beddington Park	Thames	NO	NO	YES	YES
42003	Brockenhurst	Southern	YES	YES	YES	NO
45819	Collard Bridge	South West	YES	YES	YES	NO
55011	Llandewi	Wales	YES	NO	NO	NO
55012	Cilmery	Wales	YES	YES	YES	NO
55016	Disserth	Wales	NO	NO	YES	NO
55022	Mitchel Troy	Wales	YES	YES	NO	NO
58002	Resolven	Wales	YES	YES	YES	NO
58008	Cilfrew	Wales	NO	NO	YES	NO
58010	Esgair Carnau	Wales	YES	NO	NO	NO
60005	Llandoverly	Wales	YES	NO	NO	NO
60007	Dolau Hirion	Wales	NO	NO	YES	NO
60010	Capel Dewi (Nantgaredig)	Wales	YES	YES	NO	NO
63002	Llanbadarn Fawr	Wales	YES	YES	NO	NO
69032	Kirkby	North West	YES	NO	YES	YES
72003	Wray	North West	NO	NO	YES	NO
72016	Scorton	North West	YES	YES	YES	NO
203017	Dynes Bridge	Northern Ireland	NO	NO	YES	NO
205003	Dunmurray	Northern Ireland	YES	NO	NO	NO

#### 4. Ratings

Ratings have changed at the following stations:

CEH Ref	Watercourse	Location	Region
25001	Tees	Broken Scar	North East
27001	Nidd	Hunsingore	North East
27029	Calder	Elland	North East
27055	Rye	Broadway Foot	North East
28018	Dove	Marston On Dove	Midlands
28024	Wreake	Syston Em	Midlands
28043	Derwent	Chatsworth	Midlands
31005	Welland	Tixover	Anglian
35010	Gipping	Bramford	Anglian
36012	Stour	Kedington	Anglian
37006	Can	Beaches Mill	Anglian
37007	Wid	Writtle	Anglian
37008	Chelmer	Springfield	Anglian
37010	Blackwater	Appleford Bridge	Anglian
37011	Chelmer	Churchend	Anglian

38020	Cobbins Brook	Waltham Abbey (Sewardstone Rd)	Thames
<b>CEH Ref</b>	<b>Watercourse</b>	<b>Location</b>	<b>Region</b>
39007	Blackwater	Swallowfield	Thames
39031	Lambourn	Welford	Thames
39053	Mole	Horley	Thames
39058	Pool	Sydenham (Winsford Rd)	Thames
39095	Quaggy	Hither Green	Thames
40022	Great Stour	Chart Leacon	Southern
41028	Chess Stream	Chess Bridge	Southern
44008	South Winterborne	Winterbourne Steepleton	South West
44809	Piddle	Little Puddle	South West
44810	Piddle	Briantspuddle	South West
47006	Lyd	Lifton Park	South West
47007	Yealm	Puslinch	South West
48801	Cober	Trehear Intake	South West
49004	Ganel	Gwills	South West
52005	Tone	Bishops Hull	South West
52007	Parrett	Chiselborough	South West
53029	Biss	Trowbridge	South West
54057	Severn	Haw Bridge	Midlands
55010	Wye	Pant Mawr	Wales
55016	Ithon	Disserth	Wales
57009	Ely	St Fagans	Wales
58002	Neath	Resolven	Wales
58008	Dulais	Cilfrew	Wales
60001	Tywi	Ty Castell	Wales
60002	Cothi	Felin Mynachdy	Wales
61002	Eastern Cleddau	Canaston Bridge	Wales
66001	Clwyd	Pont y Cambwll	Wales
66006	Elwy	Pont y Gwyddel	Wales
67019	Tryweryn	Weir X	Wales
69020	Medlock	London Road	North West
69027	Tame	Portwood	North West
69030	Sankey Brook	Causey Bridges	North West
69041	Tame	Broomstair Bridge	North West
69044	Irwell	Bury Grounds	North West
70004	Yarrow	Croston	North West
71009	Ribble	New Jumbles Rock	North West
72002	Wyre	St Michaels Fms	North West
72005	Lune	Killington	North West
72807	Wenning	Hornby	North West
73005	Kent	Sedgwick	North West
73008	Bela	Beetham	North West
73015	Keer	High Keer Weir	North West
74001	Duddon	Duddon Hall	North West
74005	Ehen	Braystones	North West

76002	Eden	Warwick Bridge	North West
<b>CEH Ref</b>	<b>Watercourse</b>	<b>Location</b>	<b>Region</b>
76003	Eamont	Udford	North West
76005	Eden	Temple Sowerby	North West
76008	Irthing	Greenholme	North West
76010	Petteril	Harraby Green	North West
76806	Eden	Great Musgrave Bridge	North West
76809	Caldew	Cummersdale	North West
76810	Eden	Great Corby	North West
76811	Dacre Beck	Dacre Bridge	North West

## 5. Stages

Stages have been added, removed, or corrected where errors have been identified.

## 6. Catchment descriptors

Catchment descriptor data are now given as FEH CD-ROM version 2, in both .cd2 and .cd formats, except:

- a) where the Indicative Suitabilities have changed, the revised Suitabilities are now stated in the catchment descriptor files
- b) the 'COMMENTS' section of the catchment descriptor files was added (as per the HiFlows-UK information) for the following stations:

26010 Drifffield Canal @ Snakeholme Lock (North East)

27073 Brompton Beck @ Snainton Ings (North East)

- c) changes to catchment descriptor data:  
where errors have been found in the catchment areas or station locations in the FEH CD-ROM version 2 data, revised files are presented, as follows:

47803 Tributary of Wolf just downstream of Roadford Reservoir (South West)

48802 Carnon @ Devoran Bridge (South West)

205999 Woodburn @ Control (re-numbered from 206999) (Northern Ireland)

Additional station:

73803 Kent @ Bowston added and replaces 73003 Burneside (North West)

Catchment areas were checked using ArcHydro Tools within ArcGIS for a selection of stations. As a result, the catchment areas and relevant catchment descriptors were amended for the following stations:

28017 Devon @ Cotham, Midlands

31002 Glen @ Kates Bridge & King St., Anglian

31026 Egleton Brook @ Egleton, Anglian

33023 Lea Brook @ Beck Bridge, Anglian

33048 Larling Brook @ Stonebridge, Anglian

33052 Swaffham Lode @ Swaffham Bulbeck, Anglian

41026 Cockhaise Brook @ Holywell, Southern

52017 Congresbury Yeo @ Iwood, South West

**For users with winfaf-feh version 1, the catchment descriptors were also presented in .cd format.**

## 7. Reservoirs

Where reservoirs have been built and have affected high flows (taken as FARL less than 0.95), the update gives one of the pre- or post- reservoir periods in the .am and .pt files (depending on data length and quality), but not both periods, with the corresponding FARL.

FARL has been changed for the following stations:

23002	Derwent @ Eddys Bridge	new FARL 0.996 (was 0.835)
23005	North Tyne @ Tarsset	new FARL 1.0 (was 0.815)
23015	North Tyne @ Barrasford	new FARL 0.989 (was 0.934)
28002	Blithe @ Hamstall Ridware	new FARL 0.998 (was 0.873)
31006	Gwash @ Belmesthorpe (Ryhall)	new FARL 0.979 (was 0.757)
48009	St Neot @ Craigshill Wood	new FARL 0.982 (was 0.635)
67003	Brenig @ Llyn Brenig outflow	new FARL 0.983 (was 0.587)

Post-reservoir data were removed from the csv, am and pt files, and FARL changed, for the following stations:

21030	Megget Water @ Henderland	new FARL 1.000 (was 0.815)
23003	Reaverhill @ North Tyne	new FARL 0.993 (was 0.936)
48011	Fowey @ Restormel	new FARL 0.985 (was 0.920)
67019	Tryweryn @ WeirX	new FARL 0.982 (was 0.851)

In addition, for all these stations, the end date of the Record period in the .pt file was changed to the last day of the final water year.

Post- reservoir data only are given in the .csv, .pt and .am files for the following station:

23007 Derwent @ Rowlands Gill - the pre-reservoir record was too short – only 3 years of data

## 8. Northern Ireland

### a. Changes to Indicative Suitabilities

See section 3 for changes to Dynes Bridge (203017) and Dunmurray (205003).

### b. Other changes

The early part of the record, before arterial drainage schemes, has been excluded from .am and .pt files at the stations listed below.

CEH ref	Name	Data excluded before
203010	Maydown Bridge	October 1990
203011	Dromona (R16)	October 1990
203022	Derryman Bridge	October 1990
203043	Shanmoy	October 1990
206001	Mountmill Bridge	December 1975