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UK Centre for Ecology & Hydrology

NRFA PEAK FLOW DATASET VERSION 10

Note on changes from v9

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1 INTRODUCTION

Version 10 of the NRFA Peak Flows Dataset contains AMAX and POT data for 939 gauging stations, of which 639 are in England, 166 are in Scotland, 93 are in Wales and 41 are in Northern Ireland. A total of 546 stations are recommended for use in pooling groups ('Suitable for Pooling'), 339 stations are 'Suitable for QMED' and 54 stations are 'Suitable for Neither'.

Version 10 contains:

- Network changes (see Section 2)
- An additional water year of data (updated to 30th September 2020) for all active peak flow stations England, Wales and Northern Ireland (see section 3)
- Full period of record Data Review for a subset of stations in the dataset (94 stations, see section 4)
- Modifications to existing time series (see section 5).

1.1 Changes to file format and contents

Three changes have been made to the download of the NRFA Peak Flows Dataset in order to make it compatible with the upcoming release of WINFAP 5 by Wallingford HydroSolutions.

The dataset download still contains the file formats that are compatible with previous versions, and should therefore not cause any issues for users of earlier versions of WINFAP.

- 1. Catchment descriptors are now given in an XML file format (in addition to the existing CD2 and CD3 format).
- 2. A new set of catchment descriptors is included within this XML format. The Depth Duration Frequency (DDF) rainfall descriptors are provided for future use in ReFH2.
- 3. A new a *manifest.xml* file is included, which can be used for version control and file checking between this and future versions of the datasets.

2 NETWORK CHANGES

A number of changes have been made to the gauging stations for which peak flow data are held on the NRFA since the release of version 9. Key changes are noted in this section.

2.1 Removal of Gauging Stations

Five stations have been removed from the dataset, listed in Table 1. Daily flows are still held on the NRFA where indicated.

Table 1: Stations removed from the dataset in version 10.

Station Number	Station Name	Measuring Authority	NRFA daily flow station	Comment
11004	Urie at Pitcaple	SEPA-NE	YES	Low confidence in flood estimates.
15010	Isla at Wester Cardean	SEPA-NE	YES	Low confidence in flood estimates due to unstable control, hysteresis and bypassing.
19010	Braid Burn at Liberton	SEPA-SE	YES	Low confidence in flood estimates as gauge desgined and operated for low flows.
84008	Rotten Calder Water at Redlees	SEPA-SW	YES	Low confidence in flood estimates as gauge desgined and operated for low flows.
205003	Lagan at Dunmurry	DfIR	NO	Station currently classed as "Neither". Newforge station has a much longer and more reliable record for the Lagan.

2.2 Addition of Gauging Stations

Nine stations have been added to the dataset in version 10, listed in Table 2.

Table 2: Stations added to the dataset in version 10. A * denotes stations that are completely new to the NRFA (i.e. were not existing daily flow stations).

Station Number	Station Name	Measuring Authority	Suitability	NRFA daily flow station
15023	Braan at Hermitage	SEPA-NE	Pooling	Yes
17004	Ore at Balfour Mains	SEPA-NE	Pooling	Yes
18001	Allan Water at Kinbuck	SEPA-NE	QMED	Yes
18003	Teith at Bridge of Teith	SEPA-NE	Pooling	Yes
18014	Bannock Burn at Bannockburn	SEPA-NE	Pooling	Yes
19021	South Esk at Cowbridge	SEPA-SE	Pooling	Yes
27049	Rye at Ness	EA-Y	Pooling	Yes
62003*	Teifi at Pont Llanio	NRW	Neither	No
84040*	Clyde at Abington	SEPA-SW	Pooling	No

2.3 Closure of Gauging Stations

One station has been closed in version 10, listed in Table 3. Previously recorded flow data for these stations are still contained in the dataset and shown on the NRFA website, but there will be no further updates in future.

Table 3: Gauging stations closed in version 10.

Station Number	Station Name		NRFA daily flow station	Comment
50009	Lew at Norley Bridge	EA-DC	YES	No gaugings over 0.5m since 1993 so little evidence flows are accurate

2.4 Changes to Station Numbers

No station numbers have changed in version 10.

2.5 Changes to FEH Indicative Suitabilities

Indicative suitabilities have changed at four stations in Scotland and three stations in England listed in Table 4.

Table 4: Stations with changes to indicative suitability in version 10.

NRFA Station	Station Name	Measuring Authority	V9 Su	V9 Suitability		itability
			QMED	POOLING	QMED	POOLING
17001	Carron at Headswood	SEPA-NE	YES	NO	YES	YES
23015	North Tyne at Barrasford	EA-NE	YES	YES	YES	NO
37013	Sandon Brook at Sandon Bridge	EA-EA	YES	YES	YES	NO
40033	Dour at Crabble Mill	EA-KSL	YES	YES	YES	NO
80001	Urr at Dalbeattie	SEPA-SW	YES	YES	YES	NO
83003	Ayr at Catrine	SEPA-SW	YES	YES	YES	NO
83013	Irvine at Glenfield	SEPA-SW	YES	NO	NO	NO

2.6 Combined Peak Flow Time Series from Multiple Stations

At some gauging stations, the peak flow record shown is combined data from more than one gauging station. Typically this is the case where one station has closed and replaced by a nearby gauge.

No changes have been made to these time series since v3.3.2, users should consult the release note accompanying this version for more information.

2.7 Component Stations

At a number of gauging stations, flows are derived from measurements taken at more than one location (for example low flows may be measured at a weir and high flows measured at a gauged section a short distance up/downstream). There are a number of such stations around the UK that the NRFA and/or Measuring Authority treat as a combined station.

No changes have been made to these time series since v4.1,

2.8 Stations Where No POT Data are Presented

No POT data are presented on the NRFA website or given in the dataset for stations listed in Annex 1. Four stations were added to the list in version 10, marked with a * in Annex 1.

Stations are usually listed as 'POT excluded' because the gauged catchment response does not lend itself to POT analysis. Such catchments are usually, but not exclusively, those dominated by baseflow and are therefore concentrated on the large chalk aquifers of southern and eastern England.

3 ANNUAL UPDATE

As part of the stewardship arrangements for the national Peak Flows Dataset by UKCEH through the NRFA, a programme of annual updates has been implemented. It is intended that all currently operating NRFA Peak Flow stations are updated each year with the addition of one water year of data.

3.1 Addition of water year 2019/2020

The version 10 files contain AMAX and POT time-series data updated to 30 September 2020 for all currently operational peak flow gauging stations in England, Wales and Northern Ireland.

No update was available for the 82 stations in Scotland eligible for the annual update (as they have been through the period of record review process) due to issues with the hydrometric archive.

3.2 New AMAX 1 records

New AMAX 1 records were set at 39 stations in water year 2019/2020, listed in Table 5 with the percentage of the previous AMAX 1.

Note that the analysis here compares the version 10 data with the version 9 data **without** the provisional 2019/2020 data included. Therefore, many of the stations listed in Table 5 will be the same as those listed in the version 9 release note, but these data can now be considered validated (rather than provisional as in version 9).

Table 5: New AMAX 1 records set in water year 2019/2020.

Station Number	Station Name	Measuring	% of previous
		Authority	AMAX 1
23011	Kielder Burn at Kielder	EA-NE	102
23033	Rede at Otterburn	EA-NE	101
27021	Don at Doncaster	EA-Y	100
27022	Don at Rotherham Weir	EA-Y	102
27031	Colne at Colne Bridge	EA-Y	103
27053	Nidd at Birstwith	EA-Y	105
27065	Holme at Huddersfield Queens Mill	EA-Y	106
27096	Wharfe at Netherside Hall	EA-Y	105
27098	Calder at Dewsbury	EA-Y	108
28043	Derwent at Chatsworth	EA-EM	117
28053	Penk at Penkridge	EA-WM	110
28060	Dover Beckat Lowdham	EA-EM	100
28085	Derwent at St Mary's Bridge	EA-EM	103
28091	Ryton at Blyth	EA-EM	104
30006	Slea at Leasingham Mill	EA-LN	106
54034	Dowles Brook at Oak Cottage	EA-WM	120
54044	Tern at Ternhill	EA-WM	130
54052	Bailey Brook at Ternhill	EA-WM	135
55002	Wye at Belmont	EA-WM	113
55014	Lugg at Byton	EA-WM	119
55016	Ithon at Disserth	NRW	103
55018	Frome at Yarkhill	EA-WM	100
55021	Lugg at Butts Bridge	EA-WM	112
55023	Wye at Redbrook	NRW	110
56002	Ebbw at Rhiwderin	NRW	104
57005	Taff at Pontypridd	NRW	132

Station Number	Station Name	Measuring	% of previous
		Authority	AMAX 1
57006	Rhondda at Trehafod	NRW	117
57007	Taff at Fiddlers Elbow	NRW	133
57014	Rhymney at Bargoed	NRW	164
57017	Rhondda Fawr at Tynewydd	NRW	107
58001	Ogmore at Bridgend	NRW	101
58002	Neathat Resolven	NRW	115
66006	Elwy at Pont-y-Gwyddel	NRW	109
68003	Dane at Rudheath	EA-GMMC	101
68005	Weaver at Audlem	EA-GMMC	153
71001	Ribble at Samblesbury	EA-CL	105
71006	Ribble at Henthorn	EA-CL	104
71009	Ribble at New Jumbles Rock	EA-CL	108
71011	Ribble at Arnford	EA-CL	101

4 PERIOD OF RECORD REVIEW

A programme of period of record reviews is undertaken as part of the stewardship arrangements for the national Peak Flows Dataset by UKCEH,. It is intended that a subset of the NRFA Peak Flow stations are subject to a Period of Record Review each year and released in the next scheduled release of files for use in WINFAP.

The Period of Record Review is extensive and covers a full period of record review of:

- Flow and stage data (including extension of recent and where applicable, early records)
- Gaugings and ratings
- Missing data periods
- FEH Suitability
- Metadata (station descriptions, station type, datum history, POT threshold, bankfull stage)
- Unrepresentative data periods and rejected data

This section lists the stations and time periods included in the Period of Record Review published in version 10. Major changes to the use of the data – POT thresholds, unrepresentative periods and rejected data – are detailed in Section 5.

4.1 Stations Included

The Period of Record Review covered 16 stations in Scotland, 67 stations in England, 1 station in Wales and 10 stations in Northern Ireland, listed in Table 6. At the nine existing peak flow stations in Scotland, the period of record has been extended by 14 water years to end with water year 2019/2020.

The Period of Record Review process in Wales for version 10 also involved the following activities:

- A full review of photograph holdings for all peak flow stations, updating metadata for existing photos and including new photos where available.
- A full review and update of comments on AMAX/POT events been reviewed, so that only information pertaining to individual events and that is not available or implied elsewhere in the station data or metadata is shown.

Table 6: Stations included in the period of record review in version 10. New stations to the dataset are shown with a *.

Station Number	Station Name	Measuring Authority	Start date	End date
11002	Don at Haughton	SEPA-NE	1970/1971	2018/2019
15016	Tay at Kenmore	SEPA-NE	2006/2007	2018/2019
15023*	Braan at Hermitage	SEPA-NE	1991/1992	2018/2019
17001	Carron at Headswood	SEPA-NE	1969/1970	2018/2019
17004*	Ore at Balfour Mains	SEPA-NE	1993/1994	2018/2019
18001*	Allan Water at Kinbuck	SEPA-NE	1992/1993	2018/2019
18003*	Teith at Bridge of Teith	SEPA-NE	1970/1971	2018/2019
18005	Allan Water at Bridge of Allan	SEPA-NE	1996/1997	2018/2019
18014*	Bannock Burn at Bannockburn	SEPA-NE	1992/1993	2018/2019
19004	North Esk at Dalmore Weir	SEPA-SE	1960/1961	2018/2019
19005	Almond at Almondell	SEPA-SE	1970/1971	2018/2019
19021*	South Esk at Cowbridge	SEPA-SE	1992/1993	2018/2019
21008	Teviot at Ormiston Mill	SEPA-SE	1996/1997	2018/2019
23006	South Tyne at Featherstone	EA-NE	1972/1973	2018/2019
23009	South Tyne at Alston	EA-NE	1991/1992	2018/2019
24001	Wear at Sunderland Bridge	EA-NE	1981/1982	2018/2019
24009	Wear at Chester le Street	EA-NE	1981/1982	2018/2019

Station Number	Station Name	Measuring Authority	Start date	End date
27021	Don at Doncaster	EA-Y	1977/1978	2018/2019
27023	Dearne at Barnsley Weir	EA-Y	1964/1965	2018/2019
27025	Rother at Woodhouse Mill	EA-Y	1975/1976	2018/2019
27026	Rother at Whittington	EA-Y	1979/1980	2018/2019
27030	Dearne at Adwick	EA-Y	1975/1976	2018/2019
27031	Colne at Colne Bridge	EA-Y	1963/1964	2018/2019
27040	Doe Lea at Staveley	EA-Y	1969/1970	2018/2019
27049*	Rye at Ness	EA-Y	1973/1974	2018/2019
28008	Dove at Rocester Weir	EA-WM	1987/1988	2018/2019
28031	Manifold at Ilam	EA-WM	1970/1971	2018/2019
28046	Dove at Izaak Walton	EA-WM	1969/1970	2018/2019
33011	Little Ouse at County Bridge Euston	EA-EA	1980/1981	2018/2019
33012	Kym at Meagre Farm	EA-EA	1979/1980	2018/2019
33013	Sapiston at Rectory Bridge	EA-EA	1979/1980	2018/2019
33022	Ivel at Blunham	EA-EA	1979/1980	2018/2019
33027	Rhee at Wimpole	EA-EA	1979/1980	2018/2019
33046	Thet at Redbridge	EA-EA	1980/1981	2018/2019
33050	Snail at Fordham	EA-EA	1979/1980	2018/2019
33054	Babingley at Castle Rising	EA-EA	1979/1980	2018/2019
33055	Granta at Babraham	EA-EA	1979/1980	2018/2019
37013	Sandon Brook at Sandon Bridge	EA-EA	1979/1980	2018/2019
37014	Roding at High Ongar	EA-HNL	1980/1981	2018/2019
37016	Pant at Copford Hall	EA-EA	1964/1965	2018/2019
37017	Blackwater at Stisted	EA-EA	1969/1970	2018/2019
37020	Chelmer at Felsted	EA-EA	1969/1970	2018/2019
39003	Wandle at South Wimbledon	EA-KSL	1985/1986	2018/2019
39010	Colne at Denham	EA-HNL	1986/1987	2018/2019
39028	Dun at Hungerford	EA-T	1989/1990	2018/2019
39088	Chess at Rickmansworth	EA-HNL	1974/1975	2018/2019
40033	Dour at Crabble Mill	EA-KSL	1979/1980	2018/2019
41005	Ouse at Gold Bridge	EA-SSD	1981/1982	2018/2019
41011	Rother at Iping Mill	EA-SSD	1980/1981	2018/2019
42006	Meon at Mislingford	EA-SSD	1975/1976	2018/2019
43003	Avon at East Mills Total	EA-WX	1965/1966	2018/2019
43018	Allen at Walford Mill	EA-WX	1987/1988	2018/2019
44001	Frome at East Stoke Total	EA-WX	1981/1982	2018/2019
44011	Asker at East Bridge Bridport	EA-WX	1995/1996	2018/2019
47004	Lynher at Pillaton Mill	EA-DC	1966/1967	2018/2019
47008	Thrushel at Tinhay	EA-DC	1969/1970	2018/2019
47021	Kensey at Launceston Newport	EA-DC	2002/2003	2018/2019
48007	Kennal at Ponsanooth	EA-DC	1968/1969	2018/2019
50001	Taw at Umberleigh	EA-DC	1957/1958	2018/2019
50008		EA D.C	1987/1988	2018/2019
	Lew at Gribbleford Bridge	EA-DC	1907/1900	2018/2019
50009	Lew at Gribbleford Bridge Lew at Norley Bridge	EA-DC EA-DC	1987/1988	2018/2019
50009 52007	-		· · · · · · · · · · · · · · · · · · ·	

Station	Station Name	Measuring	Start date	End date
Number		Authority		
52011	Cary at Somerton	EA-WX	1964/1965	2018/2019
52015	Land Yeo at Wraxall Bridge	EA-WX	1991/1992	2018/2019
54011	Salwarpe at Harford Hill	EA-WM	1970/1971	2018/2019
54038	Tanat at Llanyblodwel	EA-WM	1992/1993	2018/2019
62003*	Teifi at Pont Llanio	NRW	1998/1999	2018/2019
69020	Medlock at London Road	EA-GMMC	1974/1975	2018/2019
69023	Roch at Blackford Bridge	EA-GMMC	1975/1976	2018/2019
69030	Sankey Brook at Causey Bridges	EA-GMMC	1975/1976	2018/2019
69043	Irk at Collyhurst Weir	EA-GMMC	1994/1995	2018/2019
71009	Ribble at New Jumbles Rock	EA-CL	1979/1980	2018/2019
71013	Darwen at Ewood	EA-CL	1975/1976	2018/2019
72002	Wyre at St Michaels	EA-CL	1969/1970	2018/2019
72007	Brock at upstream of A6	EA-CL	1977/1978	2018/2019
73002	Crake at Low Nibthwaite	EA-CL	1961/1962	2018/2019
73005	Kent at Sedgwick	EA-CL	1975/1976	2018/2019
73011	Mint at Mint Bridge	EA-CL	1976/1977	2018/2019
75017	Ellen at Bullgill	EA-CL	1975/1976	2018/2019
76019	Roe Beck at Stockdalewath	EA-CL	1998/1999	2018/2019
80001	Urr at Dalbeattie	SEPA-SW	2006/2007	2018/2019
83003	Ayr at Catrine	SEPA-SW	2006/2007	2018/2019
84040*	Clyde at Abington	SEPA-SW	2005/2006	2018/2019
201007	Burn Dennet at Burndennet	DfIR	1974/1975	2018/2019
203011	Main at Dromona	DfIR	1969/1970	2018/2019
203017	Upper Bann at Dynes Bridge	DfIR	1970/1971	1990/1991
203018	Six-Mile Water at Antrim	DfIR	1969/1970	2018/2019
203019	Claudy at Glenone Bridge	DfIR	1970/1971	2018/2019
203020	Moyola at Moyola New Bridge	DfIR	1970/1971	2018/2019
203026	Glenavy at Glenavy	DfIR	1986/1987	1999/2000
203043	Oonawater at Shanmoy	DfIR	1986/1987	2018/2019
205005	Ravernet at Ravernet	DfIR	1971/1972	2018/2019
205101	Blackstaffs at Eason's	DfIR	1978/1979	2001/2002

5 MODIFICATIONS TO EXISTING TIME SERIES

5.1 POT Independence

For stations in England operated by the Environment Agency and in Wales operated by Natural Resources Wales, the rules for independence between POT events have been clarified such that the minimum discharge in the trough between the two peaks must be less than two-thirds of the discharge of **both peaks** (FEH guidelines states the first peak, but this requires subsequent manual re-processing to remove spurious peaks). Previous Environment Agency data updates by the NRFA and under the HiFlows-UK initiative may also have utilised the 'both peaks rule'.

These rules apply at all Environment Agency and Natural Resources Wales operated stations to POT events for water years 2014/2015 onwards. Additionally, for the stations listed in Annex 2, due to changes to stage-discharge relationships or other re-processing, the new independence rules apply from the date shown to the end of the period of record. Users should therefore be aware that at these stations the independence criteria used to generate the POT series updates may therefore vary throughout the flow record.

No changes have been made to the independence extraction criteria for POT data in Scotland or Northern Ireland.

5.2 POT Thresholds

The POT Threshold has changed at 10 stations, listed in Table 7.

Table 7: Stations with changes to POT Thres holds inversion 10.

NRFA Station	Station Name	Measuring Authority	V9 POT Threshold	V10 POT Threshold
19004	North Esk at Dalmore Weir	SEPA-SE	10.547	12.3
39003	Wandle at South Wimbledon	EA-KSL	6.779	8.5
47004	Lynher at Pillaton Mill	EA-DC	28.499	25.1
47021	Kensey at Launceston Newport	EA-DC	10	7.17
48007	Kennal at Ponsanooth	EA-DC	2.799	3.33
75017	Ellen at Bullgill	EA-CL	19.999	22.8
203017	Upper Bann at Dynes Bridge	DfIR	47.627	49.885
203019	Claudy at Glenone Bridge	DfIR	26.094	27.07
203026	Glenavy at Glenavy	DfIR	8.606	9.846
205101	Blackstaff at Eason's	DfIR	5.471	5.515

5.3 Minor Changes to AMAX and POT Records

Major changes to time series can be made through the period of record review (see Section 4) or through rating changes submitted as part of the Annual Update process (see Section 5.4).

Other minor changes to individual events can be made outside of these processes. Nine stations had edits to the historical time series in version 10, listed in Table 8.

Table 8: Stations with minor changes to time series in version 10.

Station Number	Station Name	Measuring Authority	Details of change
25001	Tees at Darlington Broken Scar	EA-NE	Correction to stage value for 03/03/1979 event. Change in AMAX for 1978/1979 from 03/03/1979 to 27/12/1978.

Station Number	Station Name	Measuring Authority	Details of change
27079	Calder at Methley	EA-Y	AMAX in 2001/2002 is a spurious event and has been removed. AMAX for 2001/2002 is now 11/02/2002, event is now AMAX 10.
34007	Dove at Oakley Park	EA-EA	Reduced AMAX 1 flow (1967/1968) from 47.58m ³ s ⁻¹ to 38.6m ³ s ⁻¹ . The event remains AMAX 1. Reduced AMAX 2 flow (1978/1979) from 28.83m ³ s ⁻¹ to 22.35 m ³ s ⁻¹ . The event is now AMAX 10.
35008	Gipping at Stowmarket	EA-EA	Addition of event in 1967/1968 changes the AMAX from 15/01/1968 to 16/09/1968. The new event is AMAX 5.
40012	Darent at Hawley	EA-KSL	Reduced AMAX1 flow (1967/1968) from 50 $\rm m^3 s^{-1}$ to 26 $\rm m^3 s^{-1}$. Event is still AMAX 1.
68018	Dane at Congleton Park	EA-GMMC	Missing AMAX in 1970/1971, 1985/1986, 1986/1987, 1987/1988 infilled.
71001	Ribble at Samlesbury	EA-CL	Correction to stage and flow values for 02/01/1991 event. Change in AMAX for 1990/1991 from 23/02/1991 to 02/01/1991. Correction to stage and flow values for POT & AMAX event on 02/03/1999.
71009	Ribble at New Jumbles Rock	EA-CL	Addition of event 1974/1975 changes the AMAX from 10/11/1974 to 22/01/1975. The new event is AMAX 11. Addition of event in 1975/1976 changes the AMAX from 01/12/1975 to 02/01/1976. The new event is AMAX 19.
72012	Wenning at Hornby	EA-CL	Missing AMAX in 1985/1986 – 1989/1990 (inclusive) infilled.

5.4 Changes to Stage-Discharge Ratings and Reprocessed Data

For stations included in the Period of Record Review (see Table 6), ratings have been reviewed and data reprocessed as required. Stage-discharge ratings have changed at an additional 24 stations as part of the routine Annual Update of the dataset. The time period of re-processed flow data is listed in Table 9, all stations have been re-processed to the end of the record (water year 2019/2020).

Table 9: Stations with rating changes and re-processed data in version 10.

Station Number	Station Name	Measuring Authority	Start date of re-processed data
26013	Driffield Trout Stream at Driffield	EA-Y	14/01/2016
27033	Sea Cut at Scarborough	EA-Y	Full period of record
28010	Derwent at Longbridge Weir	EA-EM	Full period of record
33018	Tove at Cappenham Bridge	EA-EA	Full period of record
44004	Frome at Dorchester Total	EA-WX	01/10/1992
47020	Inny at Bealsmill	EA-DC	Full period of record
47025	Wolf at Germansweek	EA-DC	Full period of record
54102	Avon at Lilbourne	EA-WM	01/01/2013
55023	Wye at Redbrook	NRW	23/12/1995
57004	Cynon at Abercynon	NRW	Full period of record
57005	Taff at Pontypridd	NRW	Full period of record

Station Number	Station Name	Measuring Authority	Start date of re-processed data
57015	Taff at Merthyr Tydfil	NRW	Full period of record
58008	Dulais at Cilfrew	NRW	Full period of record
59001	Tawe at Ynystanglws	NRW	08/06/1998
60003	Taf at Clog-y-Fran	NRW	10/03/1982
61002	Eastern Cleddau at Canaston	NRW	Full period of record
	Bridge		
62002	Teifi at Llanfair	NRW	Full period of record
65001	Glaslyn at Beddgelert	NRW	18/08/1982
69048	Tame at Uppermill	EA-GMMC	Full period of record
72003	Hindburn at Wray	EA-CL	Full period of record
72009	Wenning at Wennington	EA-CL	Full period of record
72011	Rawthey at Brigflatts	EA-CL	Full period of record
72015	Lune at Lunes Bridge	EA-CL	Full period of record
75003	Derwent at Ouse Bridge	EA-CL	01/06/2012

5.5 Unrepresentative Data Periods

Some periods of data are unsuitable for use in WINFAP because they are unrepresentative of the hydrological behaviour of the catchment. These are shown on the NRFA website by pink shading on the AMAX and POT graphs. The unrepresentative periods occur in two main situations:

- 1. Where there is a clear change in the catchment during the period of record. The most common example is where a large reservoir has been built and therefore caused a change in the FARL (Flood Attenuation by Reservoirs and Lakes) value.
- 2. Where data quality has changed significantly during the period of record, the indicative suitability has been based on the better data, providing the length of record is reasonable. In these cases, the years of poorer quality have been rejected.

New unrepresentative periods have been added at 10 stations (Table 10) and removed at 2 stations (Table 11). The end dates for ongoing unrepresentative periods at a further 13 were extended to the end of water year 2019/2020.

Table 10: Unrepresentative periods added inversion 10.

NRFA Station	Station Name	Measuring Authority	Start Date	End Date	Comments
27023	Dearne at Barnsley Weir	EA-Y	01/10/1953 09:00	01/10/1959 08:45	Unknown provenance of data.
40033	Dour at Crabble Mill	EA-KSL	01/10/1979 09:00	01/10/1984 08:45	Values taken from a different site at this time and not reprocessed.
47004	Lynher at Pillaton Mill	EA-DC	01/09/1962 09:00:00	01-OCT-1965 08:45:00	Truncation of flows with little evidence to support them. Possibly investigative monitoring before installing a permament site.
52007	Parrett at Chiselborough	EA-WX	01/01/1970 09:00:00 18/01/1973 09:00:00 01/01/1977 09:00:00	01/01/1971 08:45:00 25/01/1973 08:45:00 05/01/1978 08:45:00	High resolution 15 minute data is missing for these time periods. Two stage values have been generated per waterday at (09:00 and

NRFA Station	Station Name	Measuring Authority	Start Date	End Date	Comments
			16/10/1981	02/02/1982	08:59) by back calculating
			09:00:00	08:45:00	daily mean flow.
			14/11/1984	17/01/1985	
			09:00:00	08:45:00	
52011	Cary at Somerton	EA-WX	01/09/1965	04/02/1975	High resolution 15 minute
			09:00:00	08:45:00	data is missing for these time
			07/12/1978	03/01/1979	periods. Two stage values
			09:00:00	08:45:00	have been generated per
			21/11/1981	01/02/1982	waterday at (09:00 and
			09:00:00	08:45:00	08:59) by back calculating
			07/07/1982	18/11/1982	daily mean flow. The
			09:00:00	08:45:00	maximum data in WISKI will
			30/04/1984	08/05/1985	be artificially low for this
			09:00:00	08:45:00	period
			23/03/1988	04/05/1988	
			09:00:00	08:45:00	
			05/12/1991	01/01/1992	
			09:00:00	08:45:00	
69020	Medlock at	EA-GMMC	29/10/1989	10/08/1992	Flows impacted by
	London Road		09:00:00	08:45:00	construction work on
					Mancunian Way (motorway).
70004	Yarrow at	EA-CL	01/08/2017	01/10/2020	Peak flows unrepresentative
	Croston Mill		09:00:00	08:45:00	due to impact of upstream
					flood alleviation scheme.
71001	Ribble at	EA-CL	04/05/1960	23/05/1973	Flows prior to 1973 thought
	Samlesbury		09:00:00	08:45:00	to be overestimated by
					approximately 100 cumecs.
71009	Ribble at New	EA-CL	17/09/1979 07/01/1980 GDFs and p		GDFs and peak flows very
	Jumbles Rock		09:00:00	08:45:00	inconsistent with analogues.
73002	Crake at Low	EA-CL	27/08/1962	02/10/1968	Peak flows exceeded by daily
	Nibthwaite		09:00:00	08:45:00	mean flows.

Table 11: Unrepresentative periods removed in version 10.

NRFA Station	Station Name	Measuring Authority	Start Date	End Date	Comments
19005	Almond at Almondell	SEPA-SE	01/10/1996 09:00:00	30/09/2010 08:45:00	Reprocessed data is good.
203011	Main at Dromona	DfIR	25/05/1970 09:00:00	01/10/1990 08:45:00	Previously marked unrepresentative following completion of arterial drainage scheme however on investigation data looks good.

5.6 Rejected Data

AMAX and POT data that are unsuitable for use in flood estimation are marked as rejected in the dataset and not included in flood estimation calculations. These are shown by red bars (for AMAX) and red crosses (for POTs) on

the AMAX and POT graphs respectively. All data falling within unrepresentative periods (see section 5.5 Unrepresentative Data Periods) are rejected.

In addition, where periods of missing data are likely to have included the true AMAX, any AMAX recorded during that water year is rejected. Where the true AMAX is recorded, the event is not rejected.

Rejected AMAX values have been added at 22 stations (Table 12) and removed at 6 stations (Table 13).

Table 12: AMAX data now classed as rejected in version 10.

NRFA	Station Name	Measuring Authority	Rejected water year(s)
Station			
23009	South Tyne at Alston	EA-NE	1991
23015	North Tyne at Barrasford	EA-NE	1964
28031	Manifold at Ilam	EA-WM	1971
28046	Dove at Izaak Walton	EA-WM	1969
33012	Kym at Meagre Farm	EA-EA	1963, 1965, 1966, 2002
33055	Granta at Babraham	EA-EA	1996
37016	Pant at Copford Hall	EA-EA	1964
43003	Avon at East Mills Total	EA-WX	1966
52009	Sheppey at Fenny Castle	EA-WX	1965
54004	Sowe at Stoneleigh	EA-WM	2019
54011	Salwarpe at Harford Hill	EA-WM	1992
54038	Tanat at Llanyblodwel	EA-WM	1991
55002	Wye at Belmont	EA-WM	1983
55032	Elan at Caban Dam	NRW	1983
69043	Irk at Collyhurst Weir	EA-GMMC	1994
76019	Roe Beck at Stockdalewath	EA-CL	1998
201007	Burn Dennet at Burndennet	DfIR	1974
203011	Main at Dromona	DfIR	1969
203020	Moyola at Moyola New Bridge	DfIR	1970, 1976, 1977
203026	Glenavy at Glenavy	DfIR	1975
205005	Ravernet at Ravernet	DfIR	1971
205101	Blackstaff at Eason's	DfIR	2001

Table 13: AMAX data no longer classed as rejected inversion 10.

NRFA Station	Station Name	Measuring Authority	Water year re-instated
11002	Don at Haughton	SEPA-NE	1970
33013	Sapiston at Rectory Bridge	EA-EA	1992
33032	Heacham at Heacham	EA-EA	1967
35008	Gipping at Stowmarket	EA-EA	1968, 1987
40033	Dour at Crabble Mill	EA-KSL	1984
72017	Wenning at Hornby	EA-CL	1984

5.7 Datum Changes

A short table is provided on the NRFA website for each station, which details the datum history over the period of record, with dates of applicability. The datum history has been updated at 37 stations listed in Annex 3.

6 IMPACT OF DATA CHANGES

As part of the NRFA's quality control procedures, the new data submitted within each data release cycle are assessed in terms of the impact they make on key flood estimation parameters – QMED, 50-year and 100-year return period flows.

Substantial changes to these paramaters can occur due to:

- Extension or shortening of flow records
- Extreme high or low flows in one water year
- Rating changes causing reprocessed flows.

Any stations with a >10% change (in either direction) of any of the key flood estimation parameters are listed below in Sections 6.1 and 6.2, along with a comment explaining the change.

6.1 Impact of annual update

The addition of water year 2019/2020 has resulted in >10% changes in one or more flood estimation parameters at 39 stations, listed in Table 14 and mapped in Figure 1.

Table 14: Changes in QMED, 50- and 100-year return periods resulting from the addition of water year 2019/2020. Increased >10% are shaded in blue, decreases <10% are shaded in red.

NRFA	Station Name	Measuring	% chan			Comment
Station		Authority	QMED	50-yr	100-yr	
21035	Till at Heaton Mill	EA-NE	-15%	-13%	-12%	Short record. 2019/2020 is a low ranking AMAX
27022	Don at Rotherham Weir	EA-Y	+2%	+20%	+24%	2019/2020 is the new AMAX 1
27062	Nidd at Skip Bridge	EA-Y	0%	-6%	-11%	Short record. 2019/2020 is a low ranking AMAX
27065	Holme at Huddersfield Queens Mill	EA-Y	+9%	+12%	+12%	2019/2020 is the new AMAX 1
27095	Pickering Beck at Pickering	EA-Y	-11%	-9%	-8%	Short record. 2019/2020 is a low ranking AMAX
27096	Wharfe at Netherside Hall	EA-Y	+14%	+19%	+20%	2019/2020 is the new AMAX 1
28043	Derwent at Chatsworth	EA-EM	+2%	+10%	+13%	2019/2020 is the new AMAX 1
28049	Ryton at Worksop	EA-EM	+1%	+10%	+12%	2019/2020 is the new AMAX 2
28053	Penk at Penkridge	EA-WM	+3%	+12%	+14%	2019/2020 is the new AMAX 1
28085	Derwent at St Mary's Bridge	EA-EM	+1%	+11%	+14%	2019/2020 is the new AMAX 1
28091	Ryton at Blyth	EA-EM	0%	+18%	+23%	2019/2020 is the new AMAX 1
29009	Ancholme at Toft Newton	EA-LN	0%	+14%	+18%	2019/2020 is the new AMAX 2
30006	Slea at Leasingham Mill	EA-LN	0%	+9%	+11%	2019/2020 is the new AMAX 1
36015	Stour at Lamarsh	EA-EA	-1%	-8%	-10%	Reduction in 2017/2018 AMAX and low ranking 2019/2020 AMAX
47022	Tory Brook at Newnham Park	EA-DC	-12%	-9%	-8%	Reduction in 2018/2019 AMAX and 2019/2020 AMAX is low ranking

NRFA	Station Name	Measuring	% chang	ge in:		Comment
Station		Authority	QMED	50-yr	100-yr	
49006	Camel at Camelford	EA-DC	-11%	0%	+3%	Short record. 2019/2020 is a
						low ranking AMAX
54018	Rea Brook at	EA-WM	+1%	+10%	+12%	2019/2020 is the new AMAX 2
	Hookagate					
54024	Worfe at Burcote	EA-WM	0%	+9%	+11%	2019/2020 is the new AMAX 2
54034	Dowles Brook at Oak	EA-WM	0%	+25%	+33%	2019/2020 is the new AMAX 1
	Cottage					
54040	Meese at Tibberton	EA-WM	0%	+12%	+15%	2019/2020 is the new AMAX 2
54044	Tern at Ternhill	EA-WM	0%	+13%	+16%	2019/2020 is the new AMAX 1
54052	Bailey Brook at	EA-WM	0%	+24%	+32%	2019/2020 is the new AMAX 1
	Ternhill					
55014	Lugg at Byton	EA-WM	0%	+13%	+17%	2019/2020 is the new AMAX 1
55021	Lugg at Butts Bridge	EA-WM	0%	+9%	+11%	2019/2020 is the new AMAX 1
56012	Grwyne at Millbrook	NRW	0%	+11%	+14%	2019/2020 is the new AMAX 2
57007	Taff at Fiddlers Elbow	NRW	+13%	+26%	+30%	2019/2020 is the new AMAX 1
57010	Ely at Lanelay	NRW	+8%	+13%	+13%	2019/2020 is the new AMAX 1
						in non-rejected data
57014	Rhymney at Bargoed	NRW	0%	+42%	+53%	Short record. 2019/2020 is
						new AMAX 1
58002	Neath at Resolven	NRW	+1%	+18%	+24%	2019/2020 is the new AMAX 1
60001	Tywi at Ty Castell	NRW	+3%	+14%	+16%	2019/2020 is the new AMAX 3
60002	Cothi at Felin	NRW	+2%	+9%	+11%	2019/2020 is the new AMAX 5
	Mynachdy					
60005	Bran at Llandovery	NRW	+1%	+9%	+11%	2019/2020 is the new AMAX 3
62001	Teifi at Glanteifi	NRW	+2%	+18%	+23%	2019/2020 is the new AMAX 5
66006	Elwy at Pont-y-	NRW	+2%	+13%	+16%	2019/2020 is the new AMAX 1
	Gwyddel					
68003	Dane at Rudheath	EA-GMMC	0%	+14%	+18%	2019/2020 is the new AMAX 1
68005	Weaver at Audlem	EA-GMMC	+1%	+25%	+32%	2019/2020 is the new AMAX 1
69044	Irwell at Bury Ground	EA-GMMC	0%	+11%	+14%	2019/2020 is the new AMAX 2
69047	Roch at Littleborough	EA-GMMC	+1%	+10%	+12%	2019/2020 is the new AMAX 2
69803	Roch at Rochdale	EA-GMMC	+3%	+11%	+13%	2019/2020 is the new AMAX 3
75018	Derwent at Seaton	EA-CL	-2%	-15%	-16%	Short record, so any new
	Mill					AMAX makes a big change

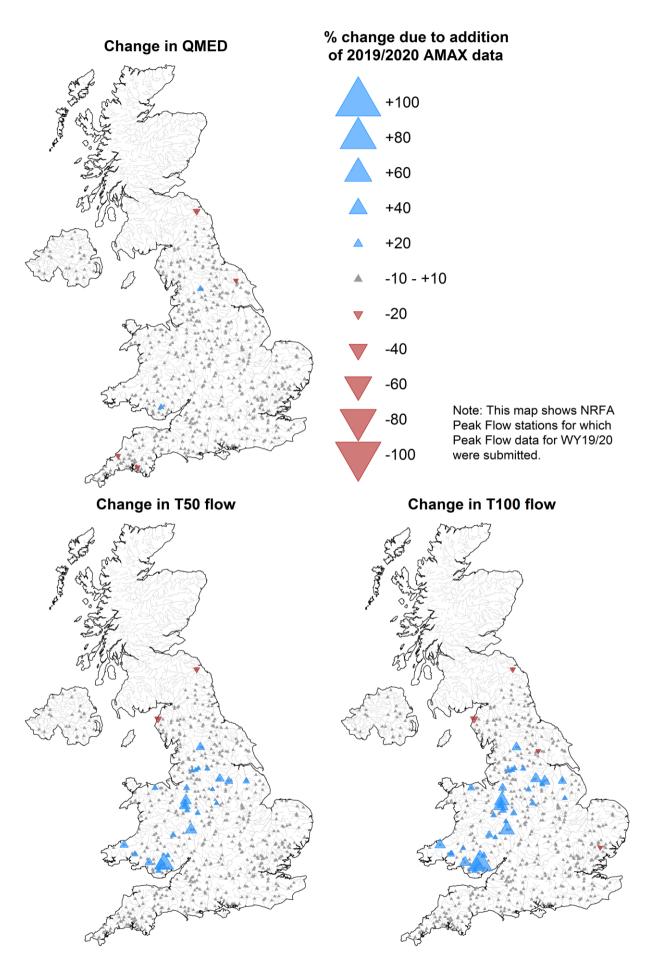


Figure 1 Changes in QMED, 50- and 100-year return periods due to the addition of 2019/2020 AMAX data

6.2 Impact of re-processed historical data

The re-processing of historical data has resulted in >10% changes in one or more flood estimation parameters at 15 stations, listed in Table 15 and mapped in Figure 2.

Table 15: Changes in QMED, 50- and 100- year return periods resulting from re-processing of historical data in version 10.

NDFA	Station Name	Mossyring		/ change	in	Commant
NRFA Station	Station Name	Measuring Authority	QMED	% change 50-yr	ın: 100-yr	Comment
11002	Don at Haughton	SEPA-NE	-6%	+9%	+14%	Addition of 14 years of data, including new AMAX 1 in 2015/2016. Historical data slightly reduced by rating change, hence reduced QMED but increased T50 and T100.
17001	Carron at Headswood	SEPA-NE	-12%	-17%	-18%	Decrease in all non-rejected flows due to rating change.
19004	North Esk at Dalmore Weir	SEPA-SE	+23%	+39%	+43%	Increase in flows for whole period of record due to rating change.
19005	Almond at Almondell	SEPA-SE	+2%	+12%	+15%	Addition of 14 years of data and rating change 1970-2006 increasing flows.
27033	Sea Cut at Scarborough	EA-Y	+62%	+92%	+96.5%	Significant increase in flows over period of record due to rating change. NB FEH Suitability is Neither.
28010	Derwent at Longbridge Weir	EA-EM	-11%	-27%	-31%	Decrease in flows for whole period of record due to rating change.
40012	Darent at Hawley	EA-KSL	0%	-27%	-33%	Reducced AMAX1 flow (see Section 5.3).
47025	Wolf at Germansweek	EA-DC	+24%	+66%	+79%	Substantial increase in flows post-2010 due to rating change.
57004	Cynon at Abercynon	NRW	-3%	-12%	-14%	Decrease in flows for whole period of record due to rating change.
57005	Taff at Pontypridd	NRW	0%	+14%	+18%	Rating change decreased the majority of pre-1999 data. Impact on parameters reversed by addition of 2019/2020 AMAX 1.
57015	Taff at Merthyr Tydfill	NRW	-4%	-22%	-26%	Decrease in flows for whole period of record due to rating change.
65001	Glaslyn at Bedgellert	NRW	+7%	+13%	+12%	Rating change 1983-1999 increased flows and 2019/2020 as new AMAX 2.
69048	Tame at Uppermill	EA-GMMC	+28%	+29%	+27%	Increase in flows for whole period of record due to rating change.
72003	Hindburn at Wray	EA-CL	-5%	-11%	-14%	Rating change in non-rejected data period and addition of 2019/2020 as AMAX 5.
72011	Rawthey at Brigflatts	EA-CL	+10%	+7%	+6%	Increase in flows for whole period of record due to rating change and addition of 4 years of mid-range AMAX.
80001	Urr at Dalbeattie	SEPA-SW	+3%	+20%	+23%	Addition of 13 AMAX, including AMAX 1 in 2015/2016
205101	Bkackstaffat Eason's	DFIR	-9%	-22%	-24%	Rating change for whole period of record decreases flows.

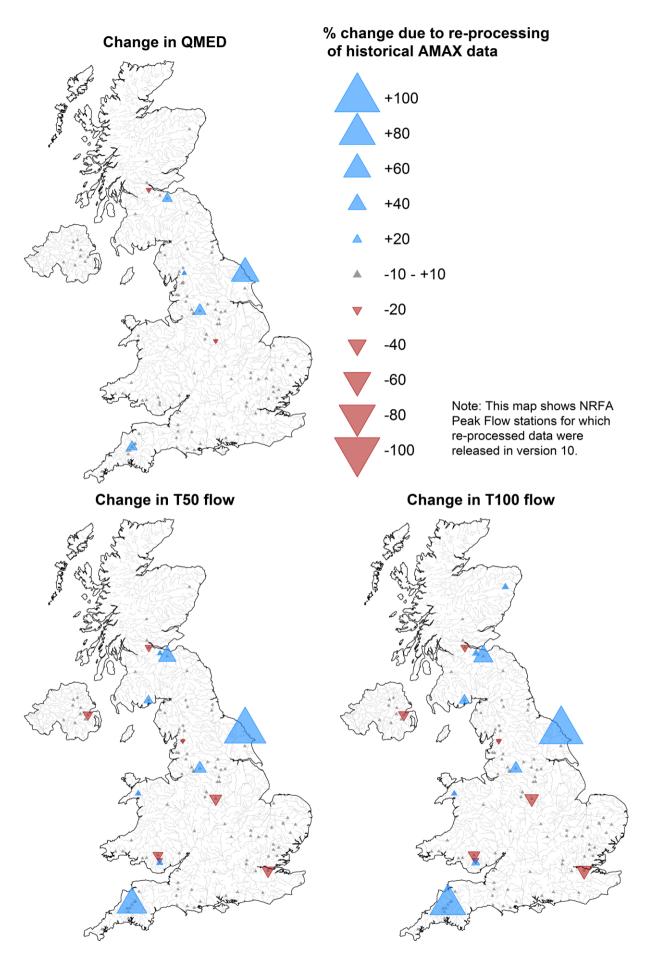


Figure 2: Changes in QMED, 50- and 100-year return periods due to the re-processing of historical data in version 10.

ANNEX 1 POT EXCLUDED STATIONS

NRFA Station	Station Name	Measuring Authority
18003*	Teith at Bridge of Teith	SEPA-NE
26003	Foston Beck at Foston Mill	EA-Y
26009	West Beck at Snakeholme Lock	EA-Y
26010	Driffield Canal at Snakeholme Lock	EA-Y
26013	Driffield Trout Stream at Driffield	EA-Y
26014	Water Forlornes at Driffield	EA-Y
26016	Gypsey Race at Kirby Grindalythe	EA-Y
27073	Brompton Beck at Snainton Ings	EA-Y
28033	Dove at Hollinsclough	EA-WM
29005	Rase at Bishopbridge	EA-LN
30005	Witham at Saltersford Total	EA-LN
30006	Slea at Leasingham Mill	EA-LN
30013	Heighington Beck at Heighington	EA-LN
30015	Cringle Brook at Stoke Rochford	EA-LN
31004	Welland at Tallington Total	EA-LN
33005	Bedford Ouse at Thornborough Mill	EA-EA
33007	Nar at Marham	EA-EA
33012	Kym at Meagre Farm	EA-EA
33032	Heacham at Heacham	EA-EA
33049	Stanford Water at Buckenham Tofts	EA-EA
33052	Swaffham Lode at Swaffham Bulbeck	EA-EA
33054	Babingley at Castle Rising	EA-EA
33057	Ouzel at Leighton Buzzard	EA-EA
34007	Dove at Oakley Park	EA-EA
34008	Ant at Honing Lock	EA-EA
34012	Burn at Burnham Overy	EA-EA
35003	Alde at Farnham	EA-EA
35004	Ore at Beversham Bridge	EA-EA
35010	Gipping at Bramford	EA-EA
36002	Glem at Glemsford	EA-EA
36003	Box at Polstead	EA-EA
36004	Chad Brook at Long Melford	EA-EA
36005	Brett at Hadleigh	EA-EA
36006	Stour at Langham	EA-EA
36007	Belchamp Brook at Bardfield Bridge	EA-EA
36008	Stour at Westmill	EA-EA
36009	Brett at Cockfield	EA-EA
36010	Bumpstead Brook at Broad Green	EA-EA
36011	Stour Brook at Sturmer	EA-EA
36012	Stour at Kedington	EA-EA
36015	Stour at Lamarsh	EA-EA
37003	Ter at Crabbs Bridge	EA-EA
37005	Colne at Lexden	EA-EA
37007	Wid at Writtle	EA-EA
37008	Chelmer at Springfield	EA-EA

NRFA Station	Station Name	Measuring Authority
37009	Brain at Guithavon Valley	EA-EA
37010	Blackwater at Appleford Bridge	EA-EA
37012	Colne at Poolstreet	EA-EA
37013	Sandon Brook at Sandon Bridge	EA-EA
37016	Pant at Copford Hall	EA-EA
37017	Blackwater at Stisted	EA-EA
37031	Crouch at Wickford	EA-EA
37033	Eastwood Brook at Eastwood	EA-EA
38011	Mimram at Fulling Mill	EA-HNL
39010	Colne at Denham	EA-HNL
39020*	Coln at Bibury	EA-T
39021	Cherwell at Enslow Mill	EA-T
39033	Winterbourne Stream at Bagnor	EA-T
39034	Evenlode at Cassington Mill	EA-T
39037	Kennet at Marlborough	EA-T
39089	Gade at Bury Mill	EA-HNL
40033	Dour at Crabble Mill	EA-KSL
41015	Ems at Westbourne	EA-SSD
41023	Lavant at Graylingwell	EA-SSD
42005	Wallop Brook at Broughton	EA-SSD
42006	Meon at Mislingford	EA-SSD
42007	Alre at Drove Lane Alresford	EA-SSD
42008	Cheriton Stream at Sewards Bridge	EA-SSD
42009	Candover Stream at Borough Bridge	EA-SSD
42010	Itchen at Highbridge & Allbrook Total	EA-SSD
42012	Anton at Fullerton	EA-SSD
42017	Hermitage Stream at Havant	EA-SSD
43003	Avon at East Mills Total	EA-WX
43004	Bourne at Laverstock	EA-WX
43005	Avon at Amesbury	EA-WX
43008	Wylye at South Newton	EA-WX
43010	Allen at Loverley Farm	EA-WX
43012	Wylye at Norton Bavant	EA-WX
43018	Allen at Walford Mill	EA-WX
43028*	Chitterne Brook at Codford	EA-WX
43029*	Wylye at Brixton Deverill	EA-WX
44002	Piddle at Baggs Mill	EA-WX
44004	Frome at Dorchester Total	EA-WX
44006	Sydling Water at Sydling St Nicholas	EA-WX
44008	South Winterbourne at Winterbourne Steepleton	EA-WX
44009	Wey at Broadwey	EA-WX
44013	Piddle at Little Puddle	EA-WX
44014	Piddle at Briantspuddle	EA-WX
54027	Frome at Ebley Mill	EA-WM
55035	lago at lago flume	UKCEH
68007	Wincham Brook at Lostock Gralam	EA-GMMC

NRFA Station	Station Name	Measuring Authority
71003	Croasdale Beck at Croasdale Flume	EA-CL
84013	Clyde at Daldowie	SEPA-S
85001	Leven at Linnbrane	SEPA-S
205034	Woodburn at Control	DfIR
206006	Annalong at Recorder	BCDWC

ANNEX 2 POT INDEPENDENCE CHANGES

Station Number	Station Name	Measuring Authority	Start date of POT independence change	Released in
21035	Till at Heaton Mill	EA-NE	Full period of record	V7
22001	Coquet at Morwick	EA-NE	04/01/1982	V8
22006	Blyth at Hartford Bridge	EA-NE	04/01/1982	V8
22007	Wansbeck at Mitford	EA-NE	04/01/1982	V9
22009	Coquet at Rothbury	EA-NE	04/01/1982	V8
22003	Usway Burn at Shillmoor	EA-NE	Full period of record	V7
23001	Tyne at Bywell	EA-NE	01/12/1992	V6
23001	Tyne at Bywell	EA-NE	04/01/1982	V7
23002	Derwent at Eddys Bridge	EA-NE	28/04/1983	V9
23004	South Tyne at Haydon Bridge	EA-NE	Full period of record	V7
23006	South Tyne at Featherstone	EA-NE	21/11/1972	V10
23008	Rede at Rede Bridge	EA-NE	04/01/1982	V7
23009	South Tyne at Alston	EA-NE	27/11/1992	V9, V10
23011	Kielder Burn at Kielder	EA-NE	23/11/1981	V7
23018	Ouse Burn at Woolsington	EA-NE	24/12/1983	V7
23033	Rede at Otterburn	EA-NE	Full period of record	V8
24001	Wear at Sunderland Bridge	EA-NE	05/01/1982	V9, V10
24003	Wear at Stanhope	EA-NE	04/01/1982	V8, V9
24004	Bedburn Beck at Bedburn	EA-NE	04/02/1982	V7, V9
24008	Wear at Witton Park	EA-NE	04/01/1982	V9
24009	Wear at Chester le Street	EA-NE	01/10/1981	V10
25001	Tees at Darlington Broken Scar	EA-NE	03/01/1982	V9
25004	Skerne at Darlington South Park	EA-NE	12/10/2012	V6
25004	Skerne at Darlington South Park	EA-NE	04/01/1982	V8
25005	Leven at Leven Bridge	EA-NE	15/03/1982	V9
25006	Greta at Rutherford Bridge	EA-NE	01/10/2008	V5
25006	Greta at Rutherford Bridge	EA-NE	04/01/1982	V8
25008	Tees at Barnard Castle	EA-NE	25/01/1990	V9
25009	Tees at Low Moor	EA-NE	03/01/1982	V9
25011	Langdon Beck at Langdon	EA-NE	25/09/2001	V8
25012	Harwood Beckat Harwood	EA-NE	03/01/1982	V8
25018	Tees at Middleton in Teesdale	EA-NE	06/10/1982	V9
25019	Leven at Easby	EA-NE	04/01/1982	V7
25029	Leven at Foxton Bridge	EA-NE	Full period of record	V9
26016	Gypsey Race at Kirby Grindalythe	EA-Y	01/10/2013	V7
27001	Nidd at Hunsingore Weir	EA-Y	18/12/1966	V9
27003	Aire at Beal Weir	EA-Y	14/09/1993	V5
27003	Aire at Beal Weir	EA-Y	Full period of record	V8
27006	Don at Hadfields Weir	EA-Y	15/07/1968	V7
27007	Ure at Westwick Lock	EA-Y	07/01/1971	V8
27008	Swale at Leckby Grange	EA-Y	03/11/1968	V7
27021	Don at Doncaster	EA-Y	29/01/1978	V10
27022	Don at Rotherham Weir	EA-Y	09/11/2005	V7
27023	Dearne at Barnsley Weir	EA-Y	24/03/1965	V5, V10
27024	Swale at Richmond	EA-Y	14/08/1966	V8

Station	Station Name	Measuring	Start date of POT	Released
Number		Authority	independence change	in
27025	Rother at Woodhouse Mill	EA-Y	15/101/1976	V10
27026	Rother at Whittington	EA-Y	12/12/1979	V10
27028	Aire at Armley	EA-Y	28/12/1978	V6
27028	Aire at Armley	EA-Y	Full period of record	V7
27029	Calder at Elland	EA-Y	19/10/1971	V8, V9
27030	Dearne at Adwick	EA-Y	11/02/1977	V6, V10
27031	Colne at Colne Bridge	EA-Y	08/02/1966	V9, V10
27033	Sea Cut at Scarborough	EA-Y	22/12/1969	V8, V10
27034	Ure at Kilgram Bridge	EA-Y	14/08/1971	V8
27035	Aire at Kildwick Bridge	EA-Y	09/07/1971	V5
27040	Doe Lea at Staveley	EA-Y	Full period of record	V9, V10
27041	Derwent at Buttercrambe	EA-Y	Full period of record	V7
27043	Wharfe at Addingham	EA-Y	Full period of record	V9
27049	Rye at Ness	EA-Y	Full period of record	V10
27050	Esk at Sleights	EA-Y	03/05/1977	V9
27051	Crimple at Burn Bridge	EA-Y	Full period of record	V9
27052	Whitting at Sheepbridge	EA-Y	Full period of record	V9
27053	Nidd at Birstwith	EA-Y	Full period of record	V7
27055	Rye at Broadway Foot	EA-Y	Full period of record	V7, V9
27059	Laver at Ripon	EA-Y	Full period of record	V7
27062	Nidd at Skip Bridge	EA-Y	Full period of record	V9
27065	Holme at Queens Mill	EA-Y	Full period of record	V7
27071	Swale at Crakehill	EA-Y	Full period of record	V7, V9
27080	Aire at Lemonroyd	EA-Y	20/12/1996	V6
27080	Aire at Oulton Lemonroyd	EA-Y	Full period of record	V7
27081	Oulton Beckat Oulton Farrer	EA-Y	Full period of record	V9
27002	Lane	ΓΛ. \/	04 /40 /2042	\/7
27083	Foss at Huntington	EA-Y	01/10/2013	V7 V8
27083 27086	Foss at Huntington Skell at Alma Weir	EA-Y	Full period of record 22/11/2012	V8 V5
27086	Skell at Alma Weir	EA-Y	Full period of record	V6, V7
27088	Calder at Mytholmroyd	EA-Y	Full period of record	V6, V7
27089	Wharfe at Tadcaster	EA-Y	Full period of record	V8 V8
27090	Swale at Catterick Bridge	EA-Y	Full period of record	V9
27092	Esk at Briggswath	EA-Y	Full period of record	V8, V9
27094	Wiske at Romanby Viewly Bridge	EA-Y	Full period of record	V7
27095	Pickering Beck at Pickering	EA-Y	Full period of record	V7
27096	Wharfe at Netherside Hall	EA-Y	Full period of record	V7
27097	Aire at Bingley	EA-Y	Full period of record	V8
27098	Calder at Dewsbury	EA-Y	Full period of record	V7, V8, V9
27099	Derwent at Malton A64 Road	EA-Y	Full period of record	V8
	Bridge			
28003	Tame at Water Orton	EA-WM	01/11/1993	V7, V8
28008	Dove at Rocester Weir	EA-WM	25/11/2011	V5
28008	Dove at Rocester Weir	EA-WM	13/03/1988	V10
28009	Trent at Colwick	EA-EM	24/01/1971	V9
28012	Trent at Yoxall	EA-WM	01/10/2010	V5

Station Number	Station Name	Measuring Authority	Start date of POT independence change	Released in
28015	Idle at Mattersey	EA-EM	Full period of record	V9
28018	Dove at Marston on Dove	EA-WM	07/11/2000	V5
28018	Dove at Marston on Dove	EA-WM	28/11/1974	V8
28019	Trent at Drakelow Park	EA-WM	27/08/1996	V7
28024	Wreake at Syston Mill	EA-WM	30/11/2009	V5
28026	Anker at Polesworth	EA-WM	Full period of record	V7
28033	Dove at Hollinsclough	EA-WM	05/12/1972	V5
28039	Rae at Calthorpe Park	EA-WM	Period of record	V7, V8
28040	Trent at Stoke-On-Trent	EA-WM	01/10/2013	V7
28040	Trent at Stoke-On-Trent	EA-WM	Full period of record	V8
28041	Hamps at Waterhouses	EA-WM	01/10/2000	V7
28041	Hamps at Waterhouses	EA-WM	18/02/2000	V8
28046	Dove at Izaak Walton	EA-EM	02/01/1988	V8
28047	Oldcotes Dyke at Blyth	EA-EM	Full period of record	V7
28048	Amber at Wingfield Park	EA-EM	Full period of record	V9
28049	Ryton at Worksop	EA-EM	Full period of record	V7
28052	Sow at Great Bridgford	EA-WM	01/10/2013	V7
28053	Penk at Penkridge	EA-WM	01/01/2012	V5
28053	Penk at Penkridge	EA-WM	Full period of record	V7
28055	Ecclesbourne at Duffield	EA-EM	Full period of record	V8
28056	Rothley Brook at Rothley	EA-EM	Full period of record	V7
28058	Henmore Brook at Ashbourne	EA-WM	29/10/2000	V8
28060	Dover Beckat Lowdham	EA-EM	Full period of record	V8
28061	Churnet at Basford Bridge	EA-WM	06/11/2000	V5
28061	Churnet at Basford Bridge	EA-WM	Full period of record	V6
28066	Cole at Coleshill	EA-WM	Full period of record	V7, V9
28080	Tame at Lea Marston Lakes	EA-WM	Full period of record	V7
28080	Tame at Lea Marston Lakes	EA-WM	01/01/2001	V8
28081	Tame at Bescot	EA-WM	Full period of record	V6,V8
28083	Trent at Darlaston	EA-WM	Full period of record	V6, V8
28091	Ryton at Blyth	EA-EM	Full period of record	V7
28095	Tame at Hopwas Bridge	EA-WM	01/01/1998	V5
28095	Tame at Hopwas Bridge	EA-WM	Full period of record	V7
28115	Maun at Mansfield the Dykes	EA-EM	Full period of record	V7, V8
29001	Waithe Beck at Brigsley	EA-LN	27/08/1986	V7
29002	Great Eau at Claythorpe Mill	EA-LN	14/12/1979	V7
29003	Lud at Louth	EA-LN	14/12/1979	V8
29004	Ancholme at Bishopbridge	EA-LN	14/12/1979	V8
29009	Ancholme at Toft Newton	EA-LN	14/12/1979	V8
30001	Witham at Claypole Mill	EA-LN	11/12/1979	V7
30003	Bain at Fulsby Lock	EA-LN	14/12/1979	V8
30004	Lymn at Partney Mill	EA-LN	15/12/1979	V7
30011	Bain at Goulceby Bridge	EA-LN	14/12/1979	V9
30014	Pointon Lode at Pointon	EA-LN	21/11/2012	V6
30014	Pointon Lode at Pointon	EA-LN	14/12/1979	V8
31010	Chater at Fosters Bridge	EA-LN	27/04/1981	V9

Station	Station Name	Measuring	Start date of POT	Released
Number		Authority	independence change	in
31025	Gwash South Arm at Manton	EA-LN	Full period of record	V7
32002	Willow Brook at Fotheringhay	EA-LN	30/12/1981	V7
32003	Harpers Brook at Old Mill Bridge	EA-LN	10/03/1981	V9
32008	Nene/Kislingbury at Dodford	EA-LN	10/12/1979	V9
32010	Nene at Wansford	EA-LN	01/01/1998	V7
33011	Little Ouse at County Bridge	EA-EA	21/12/1980	V10
	Euston			
33012	Kym at Meagre Farm	EA-EA	01/10/2013	V7
33013	Sapiston at Rectory Bridge	EA-EA	04/01/1980	V10
33014	Lark at Temple	EA-EA	09/02/1980	V7
33015	Ouzel at Willen	EA-EA	Full period of record	V9
33018	Tove at Cappenham Bridge	EA-EA	28/12/1979	V7, V10
33019	Thet at Melford Bridge	EA-EA	05/02/1979	V9
33021	Rhee at Burnt Mill	EA-EA	11/12/1979	V7
33022	Ivel at Blunham	EA-EA	14/12/1979	V10
33023	Lea Brook at Beck Bridge	EA-EA	Full period of record	V9
33024	Cam at Dernford	EA-EA	22/01/1985	V7
33027	Rhee at Wimpole	EA-EA	28/12/1979	V10
33028	Flit at Shefford	EA-EA	15/12/1979	V8
33029	Stringside at Whitebridge	EA-EA	26/11/2012	V6
33029	Stringside at Whitebridge	EA-EA	28/12/1979	V7, V8
33030	Clipstone Brook at Clipstone	EA-EA	01/10/2012	V5
33034	Little Ouse at Abbey Heath	EA-EA	21/12/1980	V9
33037	Bedford Ouse at Newport Pagnell Total	EA-EA	29/12/1979	V8
33039	Bedford Ouse at Roxton	EA-EA	17/12/1979	V7, V8
33044	Thet at Bridgham	EA-EA	01/10/2013	V7
33045	Wittle at Quidenham	EA-EA	14/12/1979	V7
33046	Thet at Redbridge	EA-EA	15/01/1981	V10
33050	Snail at Fordham	EA-EA	Full period of record	V10
33051	Cam at Chesterford	EA-EA	29/12/1979	V7
33055	Granta at Babraham	EA-EA	02/02/1979	V10
33057	Ouzel at Leighton Buzzard	EA-EA	Full period of record	V8
33058	Ouzel at Bletchley	EA-EA	Full period of record	V9
33063	Little Ouse at Knettishall	EA-EA	Full period of record	V9
34003	Bure at Ingworth	EA-EA	03/02/1971	V7
34012	Burn at Burnham Overy	EA-EA	14/12/1979	V9
35008	Gipping at Stowmarket	EA-EA	25/05/1981	V7
37014	Roding at High Ongar	EA-HNL	21/10/2012	V6
37014	Roding at High Ongar	EA-HNL	10/03/1981	V10
37020	Chelmer at Felsted	EA-EA	Full period of record	V10
38003	Mimram at Panshanger Park	EA-HNL	27/05/1982	V8
38007	Canons Brook at Elizabeth Way	EA-HNL	19/07/1987	V8
38018	Upper Lee at Water Hall	EA-HNL	07/04/1987	V8
38022	Pymmes Brook at Edmonton Silver Street	EA-HNL	27/02/1987	V8
39001	Thames at Kingston	EA-T	05/11/2012	V6

Number Authority Independence change In
Hogsmill at Kingston-upon-Thames
Thames
39014 Ver at Hansteads EA-HNL 16/03/1989 V8 39007 Blackwater at Swallowfield EA-T 01/10/2013 V7 39026 Cherwell at Banbury EA-T 01/01/1987 V9 39028 Dun at Hungerford EA-T 21/12/1989 V10 39035 Churn at Cerney Wick EA-T 01/01/2013 V5 39036 Law Brook at Albury EA-T 07/10/1987 V9 39052 The Cut at Binfield EA-T Full period of record V9 39056 Ravensbourne at Catford Hill EA-KSL 04/06/1987 V8 39056 Ravensbourne at Catford Hill EA-KSL 26/05/1985 V9 39081 Ock at Abingdon EA-T 16/12/1986 V9 39134 Ravensbourne East at Bromley South EA-KSL Full period of record V8 40004 Rother at Udiam EA-KSL 26/09/1968 V9 40005 Beult at Stilebridge EA-KSL 01/10/2013 V7 40010 <th< th=""></th<>
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39028 Dun at Hungerford EA-T 21/12/1989 V10 39035 Churn at Cerney Wick EA-T 01/01/2013 V5 39036 Law Brook at Albury EA-T 07/10/1987 V9 39052 The Cut at Binfield EA-T Full period of record V9 39056 Ravensbourne at Catford Hill EA-KSL 26/05/1985 V9 39081 Ock at Abingdon EA-T 16/12/1986 V9 39134 Ravensbourne East at Bromley South EA-KSL Full period of record V8 40004 Rother at Udiam EA-KSL 26/09/1968 V9 40004 Rother at Udiam EA-KSL 26/09/1968 V9 40007 Medway at Chafford / EA-KSL 24/01/1970 V8 40010 Eden at Penshurst / Vexour EA-KSL 01/10/2013 V7 Bridge Bridge V9 40010 Eden at Penshurst / Vexour EA-KSL 12/05/1968 V9 40011 Great Stour at Horton EA-KSL 01/10/2013 V7
39035 Churn at Cerney Wick EA-T 01/01/2013 V5 39036 Law Brook at Albury EA-T 07/10/1987 V9 39052 The Cut at Binfield EA-T Full period of record V9 39056 Ravensbourne at Catford Hill EA-KSL 04/06/1987 V8 39056 Ravensbourne at Catford Hill EA-KSL 26/05/1985 V9 39081 Ock at Abingdon EA-T 16/12/1986 V9 39134 Ravensbourne East at Bromley South EA-KSL Full period of record V8 40004 Rother at Udiam EA-KSL 26/09/1968 V9 40005 Beult at Stilebridge EA-KSL 24/01/1970 V8 40007 Medway at Chafford / EA-KSL EA-KSL 01/10/2013 V7 40010 Eden at Penshurst / Vexour Bridge EA-KSL 01/10/2013 V7 40010 Eden at Penshurst / Vexour Bridge EA-KSL 12/05/1968 V9 40011 Great Stour at Horton EA-KSL 01/10/2013 V7
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40012 Darent at Hawley EA-KSL 26/11/1992 V6, V8, V9 40013 Darent at Otford EA-KSL Full period of record V8 40016 Cray at Crayford EA-KSL 01/10/2013 V7 40017 Dudwell at Burwash EA-KSL Full period of record V8 40018 Darent at Lullingstone EA-KSL 30/03/2010 V6 41005 Ouse at Gold Bridge EA-SSD 14/12/1981 V10 41011 Rother at Iping Mill EA-SSD 10/03/1982 V10
40013 Darent at Otford EA-KSL Full period of record V8 40016 Cray at Crayford EA-KSL 01/10/2013 V7 40017 Dudwell at Burwash EA-KSL Full period of record V8 40018 Darent at Lullingstone EA-KSL 30/03/2010 V6 41005 Ouse at Gold Bridge EA-SSD 14/12/1981 V10 41011 Rother at Iping Mill EA-SSD 10/03/1982 V10
40016 Cray at Crayford EA-KSL 01/10/2013 V7 40017 Dudwell at Burwash EA-KSL Full period of record V8 40018 Darent at Lullingstone EA-KSL 30/03/2010 V6 41005 Ouse at Gold Bridge EA-SSD 14/12/1981 V10 41011 Rother at Iping Mill EA-SSD 10/03/1982 V10
40017 Dudwell at Burwash EA-KSL Full period of record V8 40018 Darent at Lullingstone EA-KSL 30/03/2010 V6 41005 Ouse at Gold Bridge EA-SSD 14/12/1981 V10 41011 Rother at Iping Mill EA-SSD 10/03/1982 V10
40018 Darent at Lullingstone EA-KSL 30/03/2010 V6 41005 Ouse at Gold Bridge EA-SSD 14/12/1981 V10 41011 Rother at Iping Mill EA-SSD 10/03/1982 V10
41005 Ouse at Gold Bridge EA-SSD 14/12/1981 V10 41011 Rother at Iping Mill EA-SSD 10/03/1982 V10
41011 Rother at Iping Mill EA-SSD 10/03/1982 V10
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41016 Cuckmara at Cowhoods EA SSD 0E /01 /1092 V/9
41016 Cuckfilere at Cowbeeck EA-33D 03/01/1982 V8
41020 Bevern Stream at Clappers Bridge EA-SSD 03/12/2006 V9
41022 Lod at Halfway Bridge EA-SSD 07/03/1991 V7
42001 Wallington at North Fareham EA-SSD 14/10/1982 V7
42003 Lymington at Brockenhurst EA-SSD Full period of record V7
42014 Blackwater at Ower EA-SSD Full period of record V9
43006 Nadder at Wilton EA-WX 09/03/1991 V9
43007 Stour at Throop EA-WX 28/03/1987 V8
43009 Stour at Hamoon EA-WX 06/01/1988 V8
43014 East Avon at Upavon EA-WX 04/04/1987 V9
43017 West Avon at Upavon EA-WX 05/04/1987 V9
43019 Shreen Water at Colesbrook EA-WX Full period of record V7
43028 Chitterne Brook at Codford EA-WX Full period of record V9
43029 Wylye at Brixton Deverill EA-WX Full period of record V5
44001 Frome at East Stoke Total EA-WX Full period of record V10
44011 Asker at East Bridge Bridport EA-WX 01/10/2013 V7

Station Number	Station Name	Measuring Authority	Start date of POT independence change	Released in
44011	Asker at East Bridge Bridport	EA-WX	Full period of record	V8, V10
44014	Piddle at Briantspuddle	EA-WX	Full period of record	V9
44015	Hooke at Hooke	EA-WX	Full period of record	V7, V8
45001	Exe at Thorverton	EA-DC	01/12/2003	V7
45001	Exe at Thorverton	EA-DC	Full period of record	V8
45002	Exe at Stoodleigh	EA-DC	Full period of record	V8
45003	Culm at Woodmill	EA-DC	Full period of record	V6
45004	Axe at Whitford	EA-DC	Full period of record	V5, V8
45005	Otter at Dotton	EA-DC	Full period of record	V9
45007	Exe at Trews Weir	EA-DC	Full period of record	V7
45008	Otter at Fenny Bridges	EA-DC	Full period of record	V8
45009	Exe at Pixton	EA-DC	Full period of record	V7
45012	Creedy at Cowley	EA-DC	Full period of record	V7
46003	Dart at Austin's Bridge	EA-DC	Full period of record	V9
46006	Erme at Ermington	EA-DC	Full period of record	V9
46008	Avon at Loddiswell	EA-DC	Full period of record	V9
46007	West Dart at Dunnabridge	EA-DC	Full period of record	V6, V8
46013	Bovey at Bovey Parke	EA-DC	Full period of record	V7
46014	Teign at Chudleigh	EA-DC	Full period of record	V7
47001	Tamar at Gunnislake	EA-DC	Full period of record	V8
47004	Lynher at Pillaton Mill	EA-DC	29/12/1966	V10
47005	Ottery at Werrington Park	EA-DC	24/12/1978	V8
47006	Lyd at Lifton Park	EA-DC	28/11/1975	V9
47007	Yealm at Puslinch	EA-DC	21/01/1970	V7
47008	Thrushel at Tinhay	EA-DC	Full period of record	V10
47009	Tiddy at Tideford	EA-DC	25/09/1976	V7
47010	Tamar at Crowford Bridge	EA-DC	Full period of record	V9
47011	Plym at Carn Wood	EA-DC	Full period of record	V9
47013	Withey Brook at Bastreet	EA-DC	Full period of record	V9
47014	Walkham at Horrabridge	EA-DC	Full period of record	V8
47015	Tavy at Ludbrook	EA-DC	01/10/1994	V7
47020	Inny at Bealsmill	EA-DC	Full period of record	V7, V10
47021	Kensey at Launceston Newport	EA-DC	Full period of record	V10
47022	Tory Brook at Newnham Park	EA-DC	Full period of record	V9
47023	Tamar at Tamarstone Bridge	EA-DC	Full period of record	V7
47024	Tavy at Tavistock Abbey Bridge	EA-DC	Full period of record	V5, V8
47025	Wolf at Germansweek	EA-DC	Full period of record	V10
48001	Fowey at Trekeivesteps	EA-DC	Full period of record	V9
48003	Fal at Tregony	EA-DC	Full period of record	V8
48006	Cober at Helston Country Bridge	EA-DC	01/10/2012	V5
48007	Kennal at Ponsanooth	EA-DC	Full period of record	V10
48009	St Neot at Craigshill Wood	EA-DC	Full period of record	V9
48011	Fowey at Restormel	EA-DC	Full period of record	V7, V9
48012	Fal at Trenowth	EA-DC	Full period of record	V9
49001	Camel at Denby	EA-DC	Full period of record	V7
49002	Hayle at St Erth	EA-DC	Full period of record	V7

Station Number	Station Name	Measuring Authority	Start date of POT independence change	Released in
49006	Camel at Camelford	EA-DC	Full period of record	V7, V8
50001	Taw at Umberleigh	EA-DC	Full period of record	V10
50005	West Okement at Vellake	EA-DC	01/10/2012	V5
50008	Lew at Gribbleford Bridge	EA-DC	Full period of record	V10
50009	Lew at Norley Bridge	EA-DC	Full period of record	V10
50010	Torridge at Rockhay Bridge	EA-DC	01/10/2012	V5
50011	Okement at Jacobstowe	EA-DC	Full period of record	V9
51001	Doniford Stream at Swill Bridge	EA-WX	Full period of record	V9
51002	Horner Water at West Luccombe	EA-WX	Full period of record	V7
51003	Washford at Beggearn Huish	EA-WX	01/11/1982	V6
51003	Washford at Beggearn Huish	EA-WX	Full period of record	V8
52003	Halsewater at Halsewater	EA-WX	30/11/1992	V9
52004	Isle at Ashford Mill	EA-WX	07/03/1972	V5
52005	Tone at Bishops Hull	EA-WX	11/07/1968	V9
52006	Yeo at Pen Mill	EA-WX	Full period of record	V8
52007	Parrett at Chiselborough	EA-WX	Full period of record	V10
52009	Sheppey at Fenny Castle	EA-WX	14/08/1992	V10
52010	Brue at Lovington	EA-WX	Full period of record	V8
52011	Cary at Somerton	EA-WX	Full period of record	V10
52014	Tone at Greenham	EA-WX	09/02/1974	V8
52015	Land Yeo at Wraxall Bridge	EA-WX	29/11/1992	V10
52017	Congresbury Yeo at Iwood	EA-WX	Full period of record	V7
53002	Semington Brook at Semington	EA-WX	Full period of record	V7
53004	Chew at Compton Dando	EA-WX	Full period of record	V8
53005	Midford Brook at Midford	EA-WX	Full period of record	V9
53006	Frome (Bristol) at Frenchay	EA-WX	20/12/1983	V8
53007	Frome (Somerset) at Tellisford	EA-WX	03/08/1965	V9
53008	Avon at Great Somerford	EA-WX	Full period of record	V7
53013	Marden at Stanley	EA-WX	Full period of record	V6, V8
53017	Boyd at Bitton	EA-WX	09/10/1988	V9
53018	Avon at Bathford	EA-WX	Full period of record	V7, V9
53023	Sherston Avon at Fosseway	EA-WX	Full period of record	V6, V8
53028	By Brook at Middlehill	EA-WX	Full period of record	V9
53029	Biss at Trowbridge	EA-WX	Full period of record	V7, V9
54001	Severn at Bewdley	EA-WM	07/01/1983	V9
54002	Avon at Evesham	EA-WM	06/01/1995	V8
54004	Sowe at Stoneleigh	EA-WM	Full period of record	V9
54005	Severn at Montford	EA-WM	24/01/1971	V7
54007	Arrow at Broom	EA-WM	Full period of record	V9
54011	Salwarpe at Harford Hill	EA-WM	24/01/1971	V10
54012	Tern at Walcot	EA-WM	03/12/1972	V8
54014	Severn at Abermule	NRW	22/02/1970	V8
54016	Roden at Rodington	EA-WM	Full period of record	V7
54018	Rea Brook at Hookagate	EA-WM	14/12/1978	V9
54019	Avon at Stareton	EA-WM	Full period of record	V9
54020	Perry at Yeaton	EA-WM	Full period of record	V7

Station Number	Station Name	Measuring Authority	Start date of POT independence change	Released in
54028	Vyrnwy at Llanymynech	NRW	13/12/2011	V6
54028	Vyrnwy at Llanymynech	NRW	Full period of record	V8
54029	Teme at Knightsford Bridge	EA-WM	Full period of record	V7
54034	Dowles Brook at Oak Cottage	EA-WM	Full period of record	V9
54036	Isbourne at Hinton on the Green	EA-WM	Full period of record	V8
54038	Tanat at Llanyblodwel	EA-WM	02/12/1992	V10
54040	Meese at Tibberton	EA-WM	Full period of record	V8
54041	Tern at Eaton upon Tern	EA-WM	28/01/1977	V8
54044	Tern at Ternhill	EA-WM	Full period of record	V9
54052	Bailey Brook at Ternhill	EA-WM	Full period of record	V9
54080	Severn at Dolwen	NRW	22/11/2011	V6
54080	Severn at Dolwen	NRW	Full period of record	V8
54102	Avon at Lilbourne	EA-WM	01/01/2013	V10
54106	Stour (Warks) at Shipston	EA-WM	Full period of record	V9
54114	Avon at Warwick	EA-WM	15/06/2007	V8
54114	Avon at Warwick	EA-WM	Full period of record	V9
55007	Wye at Erwood	NRW	11/03/1981	V8
55012	Irfon at Cilmery	NRW	12/12/1978	V8
55016	Irfon at Disserth	NRW	02/01/1988	V8
55021	Lugg at Butts Bridge	EA-WM	24/11/1984	V7
55023	Wye at Redbrook	NRW	13/03/1981	V9
55025	Llynfi at Three Cocks	NRW	11/03/1981	V9
55026	Wye at Ddol Farm	NRW	22/12/1985	V8
55029	Monnow at Grosmont	NRW	29/04/2012	V6
55029	Monnow at Grosmont	NRW	01/10/2009	V7
55032	Elan at Caban Dam	NRW	Full period of record	V9
56004	Usk at Llandetty	NRW	14/11/2009	V8
56006	Usk at Trallong	NRW	Full period of record	V9
56012	Grwyne at Millbrook	NRW	03/01/1982	V9
56013	Yscir at Pont-Ar-Yscir	NRW	05/01/1985	V9
57004	Cynon at Abercynon	NRW	13/02/1982	V7, V10
57005	Taff at Pontypridd	NRW	12/11/1992	V7
57006	Rhondda at Trehafod	NRW	15/10/1983	V7
57008	Rhymney at Llanederyn	NRW	10/03/1982	V7
57009	Ely at St Fagans	NRW	Full period of record	V8
57010	Ely at Lanelay	NRW	10/03/1982	V8
57014	Rhymney at Bargoed	NRW	Full period of record	V7
57017	Rhondda Fawr at Tynewydd	NRW	Full period of record	V7
58006	Mellte at Pontneddfechan	NRW	15/03/1982	V9
58007	Llynfi at Coytrahen	NRW	06/03/1982	V7
58008	Dulais at Cilfrew	NRW	12/02/1982	V10
58009	Ewenny at Keepers Lodge	NRW	22/12/1995	V8
58012	Afan at Marcroft Weir	NRW	Full period of record	V9
59001	Tawe at Ynystanglws	NRW	14/10/2002	V8
59001	Tawe at Ynystanglws	NRW	08/06/1998	V10
59002	Loughor at Tir-y-dail	NRW	06/03/1982	V9

Station	Station Name	Measuring	Start date of POT	Released
Number		Authority	independence change	in
60001	Twyi at Ty Castell	NRW	03/01/1982	V6, V7, V9
60002	Cothi at Felin Mynachdy	NRW	12/02/1982	V7
60003	Taf at Clog-y-Fran	NRW	06/03/1982	V9, V10
60006	Gwili at Glangwili	NRW	03/01/1982	V8
60007	Tywi at Dolau Hirion	NRW	12/02/1982	V7
60009	Sawdde at Felin-y-cwm	NRW	29/12/2012	V6
60009	Sawdde at Felin-y-cwm	NRW	23/08/1985	V7
60012	Twrch at Ddol Las	NRW	12/02/1982	V7
60017	Twrch at Gurnos	NRW	Full period of record	V9
61002	Eastern Cleddau at Canaston Bridge	NRW	10/03/1982	V8, V10
61003	Gwaun at Cilrhedyn Bridge	NRW	24/10/2011	V6
62001	Teifi at Glanteifi	NRW	13/02/1982	V9
62002	Teifi at Llanfair	NRW	08/11/2002	V8
62002	Teifi at Llanfair	NRW	Full period of record	
63001	Ystwyth at Pont Llolwyn	NRW	29/10/1989	V8
63003	Wyre at Llanrystud	NRW	01/10/1999	V7
63003	Wyre at Llanrystud	NRW	Full period of record	V8
64001	Dyfi at Dyfi Bridge	NRW	18/11/2009	V6
64001	Dyfi at Dyfi Bridge	NRW	11/01/1990	V8
64002	Dysynni at Pont-y-Garth	NRW	03/03/1998	V6, V7
64006	Leri at Dolybont	NRW	24/09/1982	V8
64011	Cerist at Llaw'r Cae	NRW	Full period of record	V7
65001	Glaslyn at Beddgelert	NRW	18/08/1982	V10
65004	Gwyrfai at Bontnewydd	NRW	20/07/2010	V6
65004	Gwyrfai at Bontnewydd	NRW	04/01/1982	V7
65005	Erch at Pencaenewydd	NRW	10/03/1982	V7
65006	Seiont at Peblig Mill	NRW	01/10/2013	V7
65007	Dwyfor at Garndolbenmaen	NRW	10/03/1982	V8
66004	Wheeler at Bodfari	NRW	27/01/1977	V8
67005	Ceiriog at Brynkinalt Weir	NRW	24/01/1971	V7
67006	Alwen at Druid	NRW	19/02/1970	V8
67008	Alyn at Pont-y-Capel	NRW	22/01/1970	V7
67009	Alyn at Rhydymwyn	NRW	05/02/1980	V7
67010	Gelyn at Cynefail	NRW	Full period of record	V9
68001	Weaver at Ashbrook	EA-GMMC	05/12/1979	V7
68003	Dane at Rudheath	EA-GMMC	03/02/1977	V6
68003	Dane at Rudheath	EA-GMMC	02/01/1976	V7
68005	Weaver at Audlem	EA-GMMC	22/03/1976	V7
68018	Dane at Congleton Park	EA-GMMC	01/10/2012	V6
68018	Dane at Congleton Park	EA-GMMC	05/12/1979	V7
68020	Gowy at Bridge Trafford	EA-GMMC	Full period of record	V7
68044	Dane at Hug Bridge	EA-GMMC	18/01/2007	V6
68044	Dane at Hug Bridge	EA-GMMC	Full period of record	V9
69005	Glaze Brook at Little Woolden Hall	EA-GMMC	Full period of record	V7
69007	Mersey at Ashton Weir	EA-GMMC	25/09/1976	V7

Station	Station Name	Measuring	Start date of POT	Released
Number		Authority	independence change	in
69008	Dean at Stanneylands	EA-GMMC	02/01/1976	V9
69012	Bollin at Wilmslow	EA-GMMC	02/01/1976	V9
69015	Etherow at Compstall	EA-GMMC	19/10/1971	V9
69017	Goyt at Marple Bridge	EA-GMMC	01/01/1976	V6
69017	Goyt at Marple Bridge	EA-GMMC	02/01/1976	V9
69020	Medlock at London Road	EA-GMMC	01/11/1992	V7
69020	Medlock at London Road	EA-GMMC	01/05/1975	V10
69022	Irwell at Irwell Vale	EA-GMMC	Full period of record	V6, V8
69023	Roch at Blackford Bridge	EA-GMMC	01/01/1976	V10
69024	Croal at Farnworth Weir	EA-GMMC	15/03/1978	V6, V8
69025	Irwell at Manchester Racecourse	EA-GMMC	Full period of record	V9
69028	Mersey at Brinksway	EA-GMMC	11/02/1974	V7, V8
69030	Sankey Brook at Causey Bridges	EA-GMMC	28/12/1978	V10
69032	Alt at Kirkby	EA-CL	28/12/1978	V7
69041	Tame at Broomstairs	EA-GMMC	03/09/1974	V6, V8
69043	Irk at Collyhurst Weir	EA-GMMC	Full period of record	V10
69044	Irwell at Bury Ground	EA-GMMC	06/11/1996	V8
69046	Bradshaw Brook at Bradshaw	EA-GMMC	Full period of record	V9
	Tennis Club			
69047	Roch at Littleborough	EA-GMMC	Full period of record	V6, V8
69048	Tame at Uppermill	EA-GMMC	Full period of record	V10
70002	Douglas at Wanes Blades Bridge	EA-CL	Full period of record	V9
70003	Douglas at Wigan	EA-CL	03/12/1999	V8
70004	Yarrow at Croston Mill	EA-CL	01/10/2013	V5
70004	Yarrow at Croston Mill	EA-CL	Full period of record	V6, V8
70004	Yarrow at Croston Mill	EA-CL	Full period of record	V9
71001	Ribble at Samlesbury	EA-CL	02/01/1976	V8
71004	Calder at Whalley Weir	EA-CL	01/01/1976	V7
71004	Calder at Whalley Weir	EA-CL	02/01/1976	V8
71006	Ribble at Henthorn	EA-CL	02/01/1976	V8
71008	Hodder at Hodder Place	EA-CL	02/01/1976	V9
71009	Ribble at New Jumbles Rock Pendle Water at Barden Lane	EA-CL	26/11/1979	V10
71010 71011	Ribble at Arnford	EA-CL	22/04/1977	V9 V7
71011	Darwen at Ewood	EA-CL EA-CL	Full period of record Full period of record	V7
72002	Wyre at St Michaels	EA-CL EA-CL	22/04/1970	V10
72002	Hindburn at Wray	EA-CL EA-CL	23/11/1977	V10 V6
72003	Hindburn at Wray	EA-CL	01/10/1976	V6 V7, V9,
72003	imiabam at wray	LA-CL	01/10/13/0	V7, V9, V10
72004	Lune at Caton	EA-CL	07/01/1979	V8
72005	Lune at Killington	EA-CL	01/10/1981	V8
72007	Brock at upstream of A6	EA-CL	Full period of record	V10
72009	Wenning at Wennington	EA-CL	14/06/1977	V9, V10
72011	Rawthey at Brigflatts	EA-CL	Full period of record	V10
72014	Conder at Galgate	EA-CL	06/04/1978	V6
72014	Conder at Galgate	EA-CL	29/11/1976	V7
72015	Lune at Lunes Bridge	EA-CL	01/10/1981	V8, V10
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Station Number	Station Name	Measuring Authority	Start date of POT independence change	Released in
72017	Wenning at Hornby	EA-CL	05/05/1997	V9
73002	Crake at Low Nibthwaite	EA-CL	Full period of record	V10
73005	Kent at Sedgwick	EA-CL	02/01/1976	V10
73008	Bela at Beetham	EA-CL	15/11/1978	V8
73009	Sprint at Sprint Mill	EA-CL	02/01/1976	V7
73010	Leven at Newby Bridge	EA-CL	29/11/1976	V8
73010	Leven at Newby Bridge	EA-CL	20/10/1971	V9
73011	Mint at Mint Bridge	EA-CL	Full period of record	V9, V10
73014	Brathay at Jeffy Knots	EA-CL	Full period of record	V7, V8, V9
73015	Keer at High Keer Weir	EA-CL	01/01/1991	V6
74001	Duddon at Duddon Hall	EA-CL	03/02/1977	V9
74003	Ehen at Bleach Green	EA-CL	26/11/1976	V9
74005	Ehen at Braystones	EA-CL	19/10/1982	V8
74006	Calder at Calder Hall	EA-CL	17/11/1978	V8
74007	Esk at Cropple How	EA-CL	03/02/1977	V9
75003	Derwent at Ouse Bridge	EA-CL	01/06/2012	V10
75004	Cocker at Southwaite Bridge	EA-CL	27/11/1976	V8
75005	Derwent at Portinscale	EA-CL	01/10/2011	V5
75007	Glenderamackin at Threlkeld	EA-CL	Full period of record	V9
75009	Greta at Low Briery	EA-CL	02/01/1976	V7
75017	Ellen at Bullgill	EA-CL	Full period of record	V10
75018	Derwent at Seaton Mill	EA-CL	Full period of record	V8, V9
76004	Lowther at Eamont Bridge	EA-CL	Full period of record	V9
76007	Eden at Sheepmount	EA-CL	Full period of record	V8
76014	Eden at Kirkby Stephen	EA-CL	02/02/1981	V8
76015	Eamont at Pooley Bridge	EA-CL	Full period of record	V7
76017	Eden at Kirkby Stephen	EA-CL	Full period of record	V8
76019	Roe Beck at Stockdalewath	EA-CL	Full period of record	V10
76021	Eden at Great Musgrave Bridge	EA-CL	Full period of record	V8, V9
76022	Caldew at Cummersdale	EA-CL	Full period of record	V9
76023	Dacre Beck at Dacre Bridge	EA-CL	Full period of record	V9

ANNEX 3 STATIONS WITH CHANGES TO DATUM HISTORY

NRFA Station	Station Name	Measuring Authority
15023	Braan at Hermitage	SEPA-NE
17004	Ore at Balfour Mains	SEPA-NE
18001	Allan Water at Kinbuck	SEPA-NE
18003	Teith at Bridge of Teith	SEPA-NE
18014	Bannock Burn at Bannockburn	SEPA-NE
19005	Almond at Almondell	SEPA-SE
23005	North Tyne at Tarset	EA-NE
23009	South Tyne at Alston	EA-NE
24001	Wear at Sunderland Bridge	EA-NE
24009	Wear at Chester le Street	EA-NE
27021	Don at Doncaster	EA-Y
27023	Dearne at Barnsley Weir	EA-Y
27025	Rother at Woodhouse Mill	EA-Y
27026	Rother at Whittington	EA-Y
27030	Dearne at Adwick	EA-Y
27040	Doe Lea at Staveley	EA-Y
28031	Manifold at Ilam	EA-WM
28046	Dove at Izaak Walton	EA-WM
33046	Thet at Redbridge	EA-EA
33054	Babingley at Castle Rising	EA-EA
33055	Granta at Babraham	EA-EA
37020	Chelmer at Felsted	EA-EA
43810	Avon at East Mills Flume	EA-WX
43811	Avon at East Mills Weir	EA-WX
44013	Piddle at Little Puddle	EA-WX
44810	Frome at East Stoke Flume	EA-WX
44811	Frome at East Stoke Weir	EA-WX
44813	Frome at Stinsford	EA-WX
50008	Lew at Gribbleford Bridge	EA-DC
62003	Teifi at Pont Llanio	NRW
69030	Sankey Brook at Causey Bridges	EA-GMMC
71001	Ribble at Samlesbury	EA-CL
72002	Wyre at St Michaels	EA-CL
72007	Brock at upstream of A6	EA-CL
72014	Conder at Galgate	EA-CL
83003	Ayr at Catrine	SEPA-SW
84040	Clyde at Abington	SEPA-SW