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Hydrological data UK



**1981
YEARBOOK**

INSTITUTE OF HYDROLOGY • BRITISH GEOLOGICAL SURVEY

**HYDROLOGICAL DATA
UNITED KINGDOM**

1981

YEARBOOK

HYDROLOGICAL DATA UNITED KINGDOM

1981 YEARBOOK

An account of
rainfall, river flows and groundwater levels
January to December 1981.

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The River Thames, looking upstream from Wallingford Bridge, December 1981.

Photograph: M. Lowing

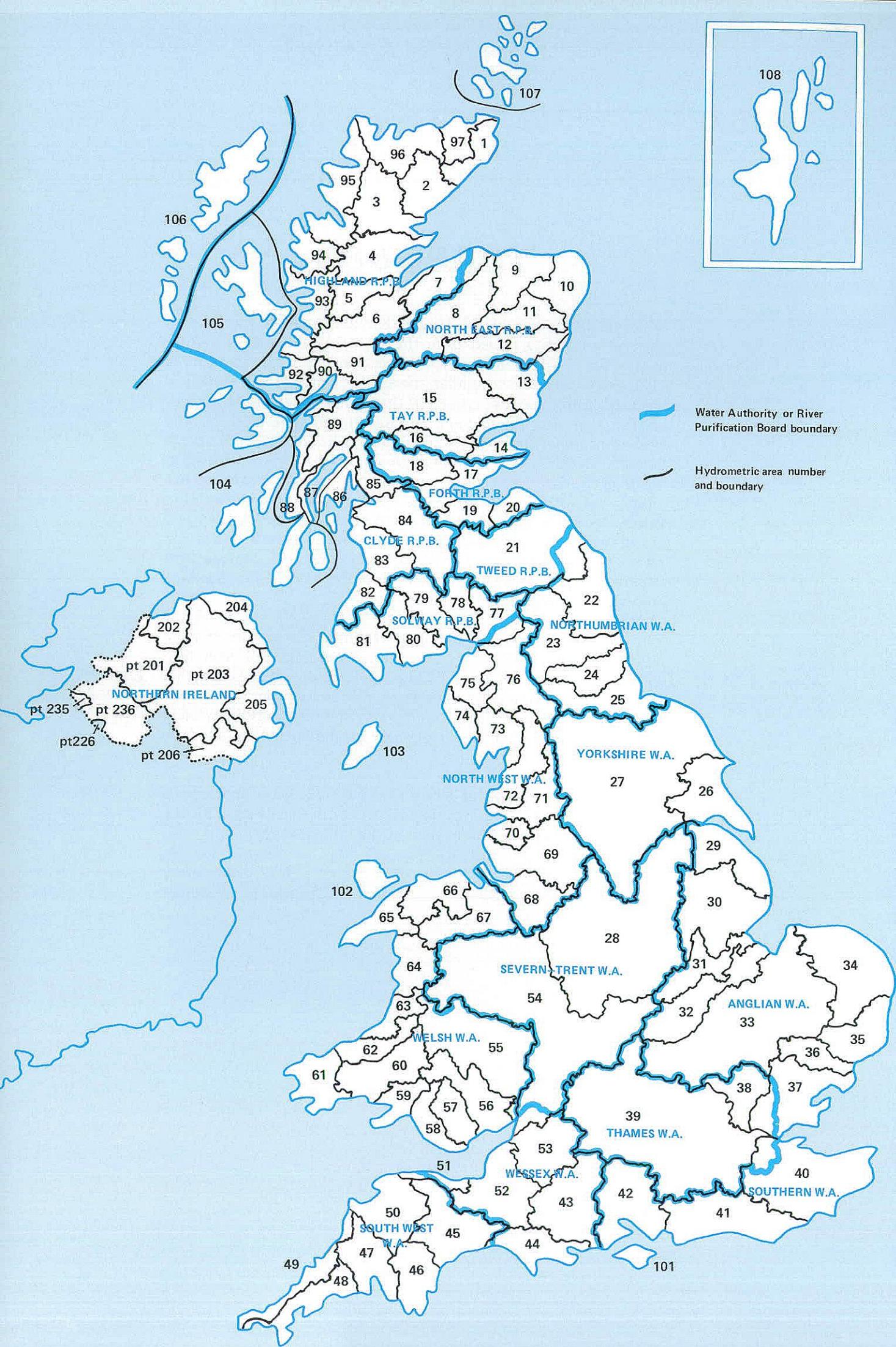
FOREWORD

In April 1982, care of the United Kingdom national archive of surface water data passed from the Department of the Environment's Water Data Unit (which was disbanded) to the Institute of Hydrology (IH). In a similar move, the Institute of Geological Sciences, subsequently renamed the British Geological Survey (BGS), took over the national groundwater archive. Both IH and BGS are component bodies of the Natural Environment Research Council (NERC). The BGS hydrogeologists are located with IH at Wallingford and close cooperation between the two groups has led, among other things, to the decision to publish a single series of yearbooks and reports dealing with nationally archived surface and groundwater data and the use made of them. The work is overseen by a steering committee with representatives of Government departments and the water industry from England, Wales, Scotland and Northern Ireland.

The published series - *Hydrological Data: UK* - will include an annual yearbook and, every five years, a catalogue of river flow gauging stations and groundwater level recording sites together with statistical summaries. These six volumes of the 5-year cycle will be available individually but are also designed to be inserted in a ring binder. Further details of these arrangements are given on page 168.

The series - but not the binder - will also include occasional reports dealing with significant hydrological events and analyses. The first of these reports provides a review of the 1984 drought.

*J.S.G. McCulloch
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INTRODUCTION

This volume is the first Yearbook published in the Hydrological Data: United Kingdom series.

Apart from summary information, surface water and groundwater data on a national basis have been published separately up to now. The 1981 Yearbook brings together the principal data sets relating to river flows, groundwater levels and rainfall throughout the United Kingdom. A description is also given of the surface water and groundwater archives together with the data retrieval facilities which complement this volume. Major changes to the observation borehole network used for national monitoring purposes were recommended in 1981 following a review undertaken on behalf of the Department of the Environment. These changes are outlined within the context of a brief history of groundwater level measurement in the United Kingdom.

Publication of river flow data for Great Britain started with the series of Surface Water Yearbooks. The first edition, which was published in 1938 for the water year (October-September) 1935-36, also included selected data for the previous fifteen years; the edition for 1936-1937 followed in 1939. Both these publications were prepared under the direction of the Inland Water Survey Committee, the fiftieth anniversary of whose founding falls in 1985. Assisted by the Scottish Office, the Committee continued to publish hydrological data after the war; the Yearbook for the period 1937-1945 being published as a single volume in 1952.

Due to economic stringency, the Survey was suspended in 1952 for a period of two years but was then reformed as the Surface Water Survey Centre of Great Britain. A Yearbook covering the years 1945-1953 was published in 1955.

In 1964 the Survey was transferred to the Water Resources Board where it remained until 1974 when the work of collection and publishing surface water information in England and Wales was again transferred, this time to the Water Data Unit of the Department of the Environment.

Yearbooks were published jointly each year by these organisations and the Scottish Office for the water years 1953-54 to 1965-1966, but thereafter information for the five calendar years 1966 to 1970 was published in one volume in 1974. Following editions were renamed 'Surface Water : United Kingdom' to mark the inclusion of the first records from Northern Ireland and in recognition of the move away from single year volumes. Two volumes of Surface Water: United Kingdom, covering the

years 1971-73 and 1974-76 were published jointly by the Water Data Unit, the Scottish Development Department and the Department of the Environment for Northern Ireland.

Following the transfer of the surface water archive to the Natural Environment Research Council in 1982, the final edition of Surface Water: United Kingdom, for the years 1977-80, was prepared by the Institute of Hydrology at the request of the Water Directorate of the Department of the Environment, and published in 1983.

This present volume, the first published by the Natural Environment Research Council, represents the twenty-second edition in the series of surface water publications which began with the 1935-36 Surface Water Yearbook. As a result of the incorporation of groundwater data in the Yearbook, this volume is also the sixth edition in the series of groundwater data publications which began with the 1964-66 Groundwater Yearbook.

A compilation of "Groundwater levels in England during 1963" which was produced by the Geological Survey of Great Britain prior to its incorporation into the Institute of Geological Sciences, was the precursor to the publication of groundwater level data on a national basis. The more formal Groundwater Yearbook series was instigated by the Water Resources Board which published the inaugural edition and a further volume for 1967, both covering England and Wales. In 1975 a third Yearbook, for 1968-70, was published by the Water Data Unit. The Groundwater: United Kingdom series was introduced in 1978 with the production of the 1971-73 volume, also published by the Water Data Unit.

Following the transfer of the groundwater archive to the Institute of Geological Sciences, the second edition of Groundwater: United Kingdom, covering the period 1974-80, was prepared by the Institute of Hydrology at the request of the Water Directorate of the Department of the Environment.

The 1981 Yearbook may be seen as part of the United Kingdom's contribution to UNESCO's International Hydrological Programme in continuing the exchange of hydrological information begun in 1965 for the International Hydrological Decade.

The Natural Environment Research Council acknowledge and extend their appreciation to all who have assisted in the collection of information for this publication.

SCOPE AND SOURCES OF INFORMATION

The format of this yearbook differs substantially from that of its precursors. A greater variety of hydrological information is provided and emphasis is placed upon ready access to basic data both within the yearbook and through the complementary data retrieval facilities.

The contents have been abstracted primarily from the surface water and groundwater archives. Responsibility for the collection and initial processing of the data rests mainly with the ten Water Authorities in England and Wales, the seven River Purification Boards in Scotland and the Department of the Environment (NI) in Northern Ireland. Additional material has been provided by the Greater London Council, the Department of Agriculture in Northern Ireland and by research bodies and public undertakings. The majority of

the rainfall data, and much of the material incorporated in the review of the weather, have been provided by the Meteorological Office.

Some slight variations from the contributors' figures may occur; these may be due to different methods of computation or to the need for uniformity in presentation.

The practice, followed in previous yearbooks, of publishing river water temperature data has been discontinued. Monitoring of water quality, including temperature, is the responsibility of water authorities and river purification boards. Some temperature data are held by the Department of the Environment in association with the Harmonised Monitoring Scheme (contact WQS, Room A4.26, Romney House, 43 Marsham Street, London SW1P 3PY, tel. 01-212-6902).

REVIEW OF THE WEATHER - IN RELATION TO WATER RESOURCES

For the third year in succession the United Kingdom rainfall total exceeded the 1941-70 average. The range of variation about the average was notably less marked than usual (Fig.1). The wetter areas, with greater than 120% of mean rainfall were confined generally to the Hebrides, northern Scotland, parts of Northern Ireland and north west England. Northumberland and eastern Scotland contained the only extensive areas with below average rainfall; the coastal region near Aberdeen was alone in recording less than 90 per cent of normal rainfall. In terms of actual rainfall amounts, the driest location in the United Kingdom was Etton in Cambridgeshire with 504 mm. The overall range can be assessed by comparison with Delta in north Wales where 4687 mm of rainfall was measured. Figure 2 shows the spatial distribution of 1981 rainfall and Table 1 provides a breakdown of monthly rainfall totals both on a countrywide basis and according to the major administration divisions within the water industry (see frontispiece). The rainfall contrasts between seasons were considerable in 1981 with an unusual sequence of a relatively dry winter, wet spring, dry summer and remarkably wet autumn (Fig.3).

Annual potential evaporation was generally close to the average in 1981. Figure 4 shows that significant departures from the mean were recorded only at Milford Haven, South Wales (85%) and Tynemouth, Northumberland (114%). Most places experienced below the seasonal average evaporation through the spring, and more particularly in May, but well above average values through the autumn.

Rainfall during the winter of 1980-81 (December to February) was close to, or above, average throughout Scotland and Northern Ireland and the water resources outlook for the rest of the year was reassuring. Southern Britain, however, had a drier than average winter with some areas recording less than 50 per cent of average rainfall during January and February. Local concern about the adequacy of water stocks persisted until the remarkably sustained and widespread March rainfall.

Soils throughout the UK were generally at field capacity at the beginning of 1981; the only notable exceptions were the Cambridge area and inland from the Thames estuary where soil moisture deficits reached 25 mm.

The winter rainfall deficit was rapidly made up in the spring which was the fourth wettest in 250 years of record for England and Wales, and the second notably wet spring in three years. The exceptional nature of the March to May rainfall in 1981 is emphasised by Table 2 which ranks the ten

wettest spring periods in the United Kingdom this century. March was particularly extreme, most regions of the United Kingdom had more than twice the average rainfall and, over England and Wales it was the second wettest in the 230 years for which rainfall figures are available (1947 was wetter). More than three times the normal March rainfall occurred in many parts of England and Wales. For example, March rainfall at Waen Sychlwrch in the Brecon Beacons totalled 769 mm; considerably greater than the rainfall for the year at most places in eastern England. Waen Sychlwrch also registered the year's highest twenty-four hour rainfall total of 146.1 mm on the 21st March. With an estimated return period of two hundred years, this is classified as 'very rare'. Table 3 identifies all the occasions in 1981 when 'very rare' falls occurred. The intense rainfall on the 21st was associated with a complex frontal system which brought heavy rainfall throughout Wales and the West Country. Rainfall intensities of between 3 and 10 mm per hour were maintained over 36 hours in Gwynedd; the highest rainfall totals were recorded to the west and south of Snowdon. Catchments in this region had generally been saturated by previous rainfall, in some places more than twice the average monthly rainfall had already fallen, and the storm of 20/21 March caused extensive flooding.

The first three weeks of April were mainly dry, although in the early hours of the 14th the heaviest thunderstorm on record for April occurred near Horsham in Sussex when precipitation exceeding 80 mm was recorded in 7 hours. An unusually late wintry spell also occurred in April when blizzards affecting the Scottish border region on the 24th moved steadily south to reach south western England on the 26th. The prolonged and widespread snow, with depths over 200 mm in parts of northern England and Scotland, is unparalleled in late April, at least this century. The precipitation fell as sleet or rain in south eastern England and East Anglia with up to 131 mm being recorded in Lincolnshire. The highest rainfall amounts occurred along the scarp slope of the Lincolnshire Wolds; the modest pre-storm soil moisture deficits were quickly eliminated and the ensuing rapid runoff produced severe local flooding. Lincolnshire experienced its most severe fluvial flooding since 1947. Northern Scotland, on the other hand, missed the blizzards and remained dry for the whole month with less than 10 mm of rainfall being recorded at some places around the Moray Firth. During May, most areas of the United Kingdom recorded above average rainfall with parts of

Northern Ireland and eastern England recording more than twice the average. However, much of Scotland, particularly northern areas, received less than half the average. Generally, the rainfall was frequent rather than heavy although on the 27th a violent thunderstorm over the west of Glasgow caused severe flooding when precipitation totalled 60 mm in four hours.

The very wet March delayed the usual slow build-up of soil moisture deficits until the beginning of April when a steady increase until the third week resulted in deficits being generally above the seasonal average. Towards the end of the month, however, values in England and Wales were quickly reduced and over much of eastern England soils were once again at, or close to, field capacity. Over most of Scotland, deficits remained relatively high and this atypical picture of very low values in England and Wales and rather high values over much of Scotland (see Fig.5) persisted throughout May. All areas south of a line from the Severn estuary to the Wash recorded their lowest end of May deficits since areal comparisons began in 1963 and Lossiemouth in north east Scotland had its highest end of May value since 1961.

In marked contrast to the wet spring, United Kingdom rainfall over the summer (June - August) period was only 70 per cent of average. Most of the June rainfall fell when thundery conditions prevailed during the first two weeks. A particularly violent thunderstorm moved north from France during the early hours of the 2nd June with more than 60 mm rainfall recorded during the period 0900 1st to 0900 2nd in a band between West Sussex and Northamptonshire. Within this band intense rain cells produced short duration rainfall totals which, in many places, exceeded a ten year return period. The most exceptional fall occurred at Bournemouth (Hurn Airport) where slightly over 30 mm fell in 21 minutes with an estimated return period of 200 years. The rest of June and July tended to be rather dry although there were days when local storms did occur, notably in Kent at the end of June, central London, Essex and Derbyshire on the 9 July (102 mm was recorded in just under ten hours at Herongate in Essex) and again in central London on the 22nd and 31st July. In the main, August 1981 was a dry month over the whole of the United Kingdom but a noteworthy storm occurred at the beginning of the month when, after a short heatwave, thunderstorms during the night of the 5th and 6th brought precipitation totals which exceeded 100 mm in parts of Greater Manchester and Cheshire. Three major areas were affected by storms: north west England in a broad band from Shrewsbury towards Huddersfield (a maximum of 148 mm was recorded south east of Chester, local flooding and landslides were recorded in and around Manchester); an area near Northampton where 141 mm was recorded at the

storm centre; and a band from Sussex to north west London where total rainfall reached 60 mm. 'Very rare' rainfall intensities were recorded at several locations most notably East Didsbury (Greater Manchester), near the centre of maximum rainfall, where over 85 mm fell in 2 hours 40 minutes having an estimated return period exceeding 1000 years. During five hours starting at 2218 on the 5th nearly 90 mm fell at Manchester airport (Ringway) with a return period of almost 800 years.

June and July brought rapid increases in soil moisture deficits over most of England and Wales but, with spring values having been so modest, the seasonal averages were not reached until mid July over north east England, the Midlands and Wales, and not until mid to late August over much of south east and north west England. In Scotland, however, apart from eastern coastal regions as far north as the Moray Firth, values increased only slowly and in some places decreased. There was a temporary decrease in early August over England (except Cornwall and Devon) and Wales, due to rather widespread and heavy thunderstorms. The deficits returned to the pre-storm values by the end of August and continued to rise to reach a maximum in mid September.

The sequence of alternating wet and dry seasons continued into the autumn. In Scotland the autumn months (September to November) were the wettest period of three consecutive months since countrywide records began in 1869. Overall, the United Kingdom received 140 per cent of average rainfall for the three autumn months. Soil moisture deficits reached their peak in most areas by the end of the second week of September but then rapidly decreased as the month progressed. The wettest day of the year over Great Britain occurred on the 19th September with a rain day (0900 hrs - 0900 hrs) general value of 27 mm, a remarkable amount for the country as a whole. It was the wettest September in Scotland and Northern Ireland since 1950 and the rainfall totals at Stornoway (Western Isles) and Abbotsinch (Glasgow) were the highest in their areas this century. Early October rainfall was exceptionally heavy in the west of the United Kingdom with flooding in places. On the 2nd October, 116 mm fell at Annalong Valley (County Down) another 'very rare' event just exceeding a return period of 450 years. The highest ever three day rainfall total on record was registered in Scotland with a general value of 77 mm between the 1st and 3rd October. November was generally a drier month with only the uplands in the west of England and Wales recording more than the 1941-70 average. Most of southern England received less than half of the mean monthly rainfall. Stornoway (Western Isles) was again exceptionally wet in November, registering a record monthly rainfall total for the second time in the three month autumn period.

REVIEW OF THE WEATHER

December began with mild weather and mainly light rain, but rain in the west on the 8th turned to snow as it moved eastwards to affect a band covering central Wales and central England. On the 13th, substantial precipitation as snow, accompanied by strong winds spread from the west

producing blizzard conditions. Warmer air moved into all parts during the last week of the year producing a thaw. Snowmelt accompanied by heavy rain caused severe flooding in many places especially in the Severn and Yorkshire Ouse valleys.

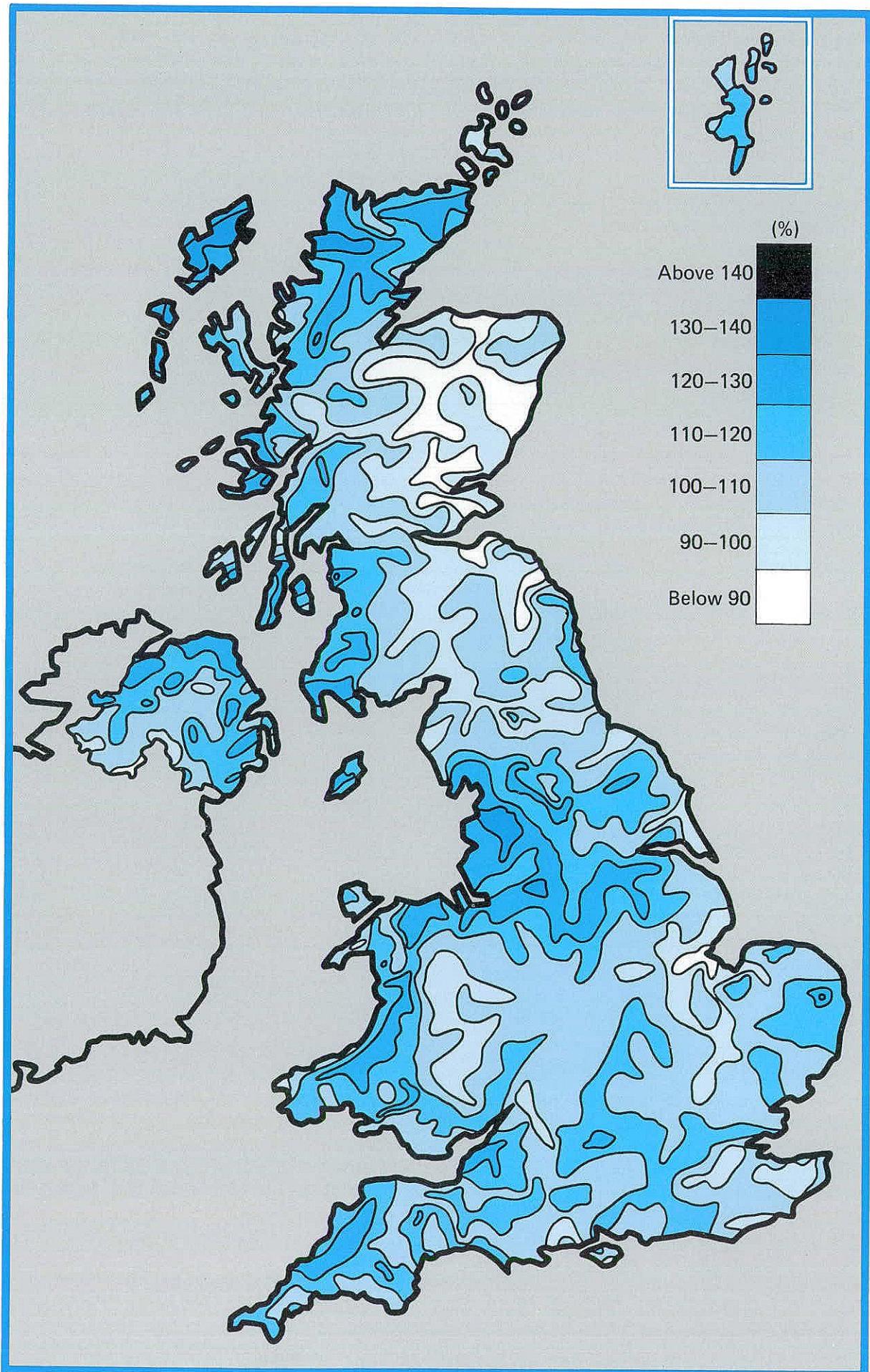


Figure 1. 1981 Annual rainfall as a percentage of the 1941–70 average.

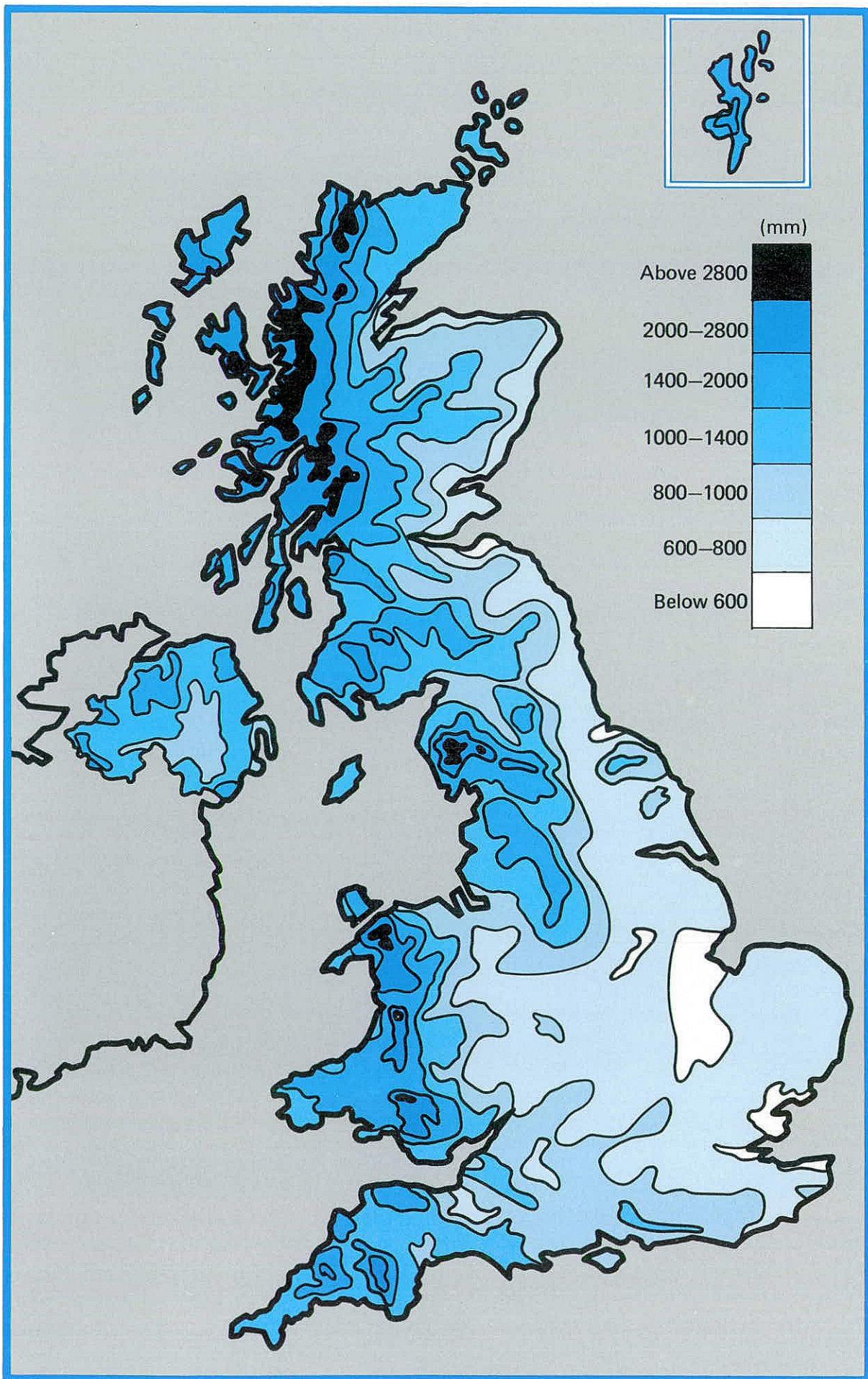


Figure 2. Annual rainfall in 1981.

TABLE I 1981 RAINFALL IN MM AND AS A PERCENTAGE OF THE 1941-70 AVERAGE

		J	F	M	A	M	J	J	A	S	O	N	D	YEAR
United Kingdom	mm	93	66	151	53	93	68	69	49	173	156	117	92	1180
	%	90	85	216	77	124	93	79	48	170	147	105	81	108
England and Wales	mm	58	53	153	64	91	49	55	48	141	124	69	94	999
	%	67	81	259	110	136	80	75	53	170	149	71	104	110
Scotland	mm	156	91	152	33	87	103	92	52	235	218	216	87	1522
	%	114	87	165	37	96	112	82	40	171	146	152	56	106
Northern Ireland	mm	101	68	128	47	141	88	78	43	175	158	94	93	1214
	%	97	91	183	69	193	111	84	42	164	148	92	82	111
North West Water Auth.	mm	127	71	209	50	90	85	78	67	187	197	158	66	1381
	%	110	88	290	65	110	102	76	54	152	167	131	55	113
Northumbrian Water Auth.	mm	47	43	131	55	62	54	71	27	121	121	88	65	885
	%	59	65	252	100	97	89	92	27	153	161	94	87	101
Severn Trent Water Auth.	mm	50	57	122	61	79	35	32	51	129	87	49	82	834
	%	73	107	235	117	123	63	49	63	193	134	62	117	108
Yorkshire Water Auth.	mm	59	70	151	75	69	39	51	60	114	109	73	65	935
	%	77	109	285	134	113	67	73	67	158	158	82	88	112
Anglian Water Auth.	mm	40	30	95	76	64	31	45	37	80	67	34	50	649
	%	77	71	237	190	136	63	79	58	154	129	55	94	106
Thames Water Auth.	mm	36	22	120	45	91	35	51	44	118	78	41	83	764
	%	58	47	261	98	163	67	85	63	190	122	56	129	109
Southern Water Auth.	mm	33	30	135	42	93	47	42	30	143	107	43	94	839
	%	43	53	260	87	169	94	71	41	201	137	46	116	106
Wessex Water Auth.	mm	42	47	149	39	97	41	57	23	145	106	49	130	925
	%	50	80	257	72	143	76	97	28	183	129	51	144	106
South West Water Auth.	mm	75	89	199	44	145	56	71	21	182	191	73	207	1353
	%	58	99	237	62	173	86	85	21	175	169	55	153	113
Welsh Water Auth.	mm	86	86	275	52	119	66	55	41	232	223	120	124	1479
	%	63	90	316	61	131	81	58	35	186	173	84	85	111
Highland R.P.B.	mm	251	133	153	42	65	115	90	77	262	288	361	85	1922
	%	153	100	134	37	63	105	71	52	166	155	214	43	112
North East R.P.B.	mm	101	47	83	21	44	74	70	25	139	168	112	77	961
	%	111	63	134	34	57	106	76	23	160	173	109	75	94
Tay R.P.B.	mm	98	83	145	17	90	68	70	20	230	148	152	87	1208
	%	83	90	177	23	95	82	69	17	200	121	128	65	96
Forth R.P.B.	mm	77	64	139	17	79	77	73	17	193	162	142	55	1095
	%	78	83	201	25	94	103	75	15	179	153	131	51	98
Clyde R.P.B.	mm	222	118	184	29	108	117	115	62	291	234	277	71	1828
	%	138	104	175	28	111	114	89	44	166	128	166	38	110
Tweed R.P.B.	mm	51	45	130	37	78	77	87	21	140	143	104	69	982
	%	55	65	224	61	103	113	98	18	151	163	100	77	98
Solway R.P.B.	mm	147	85	188	46	109	118	99	38	232	208	179	64	1513
	%	105	91	207	52	119	131	90	29	154	144	123	42	106
Western Isles	mm	167	104	121	44	55	88	70	105	185	223	150	111	1523
Orkney & Shetland	mm	123	101	132	49	81	116	88	112	147	155	182	73	118

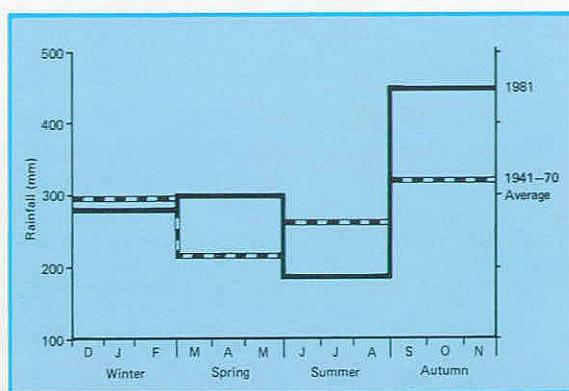


Figure 3. Seasonal rainfall in 1981 compared with the 1941-70 average.

TABLE 2. THE WETTEST SPRINGS (MARCH-MAY INCLUSIVE) IN THE UNITED KINGDOM SINCE 1900

Rank	Year	Rainfall (mm)
1	1979	337
2	1947	328
3	1913	303
4	1981	297
5	1920	295
6	1967	292
7	1932	280
8	1903	275
9	1963	271
10	1951	257

TABLE 3 'VERY RARE' DAILY RAINFALL TOTALS IN 1981

Date (Rain- day)	Station Number	Name	Grid Reference	Amount (mm)	Return Period (1 in x years)*
21. 3.81	502167	Waen Sychlwrch	SN 804 220	146.1	225
13. 4.81	315409	Fulking	TQ 246 114	103.0E	225
5. 8.81	158443	Norton Lock	SP 605 656	89.0	300
5. 8.81	553671	Delamere Power Stn.	SP 562 677	124.0	950
5. 8.81	553821	Tiresford	SJ 557 612	104.2	505
5. 8.81	553849	Eaton Power Stn.	SJ 569 685	132.0	1480
5. 8.81	554163	Northwich, Hunts Lock	SJ 656 729	86.2E	220
5. 8.81	556725	Northwich, S. Wks	SJ 639 742	103.0	550
5. 8.81	556848	Crabtree Green	SJ 584 711	138.0	1750
5. 8.81	560321	East Didsbury	SJ 857 905	100.5	510
5. 8.81	564419	Ringway Met. Office	SJ 821 849	95.9	380
6. 8.81	245166	Crouch End, Priory Park	TQ 300 891	84.9	165
20. 9.81	741369	Ullapool	NH 126 940	106.8	305
20. 9.81	741899	Strath Kanaird Power Stn.	NC 149 013	117.6	250
20. 9.81	741928	Dubh Loch	NH 150 995	142.9E	795
1.10.81	633631	Panure	NX 452 646	97.0	225
1.10.81	903588	Donolly Res.	NT 580 690	94.3	180
1.10.81	903637	Nunraw Abbey	NT 594 700	94.0	210
2.10.81	975486	Annalong Valley	IJ 355 225	116.2	450
2.10.81	975691	Silent Valley W. Wks	IJ 305 216	106.1	375
9.11.81	722623	Skye: Heaste	NG 647 178	121.8	180

*Based on the methods and findings of the Flood Studies Report Vol II¹ (as implemented on the Meteorological Office computer²) whereby a return period can be assigned to the catch at a particular raingauge. Those exceeding a 160 year return period are classified as 'very rare' events.

E - estimated rainfall total

¹Flood Studies Report 1975. Natural Environment Research Council (5 vols).

²Keers J.F. and Wescott P. 1977. A computer-based model for design rainfall in the United Kingdom: Meteorological Office Scientific Paper No.36.

Figure 4. Potential evaporation in 1981 as a percentage of the long term average.

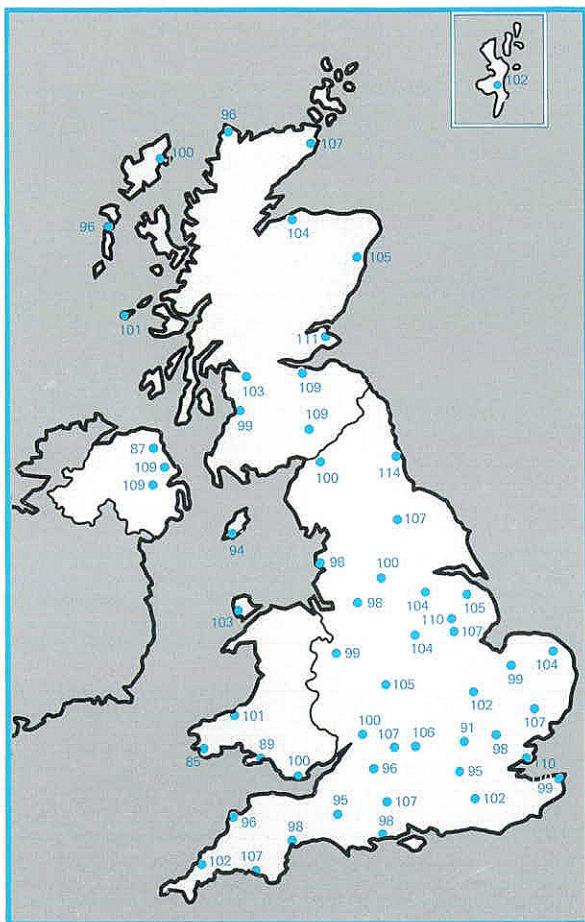
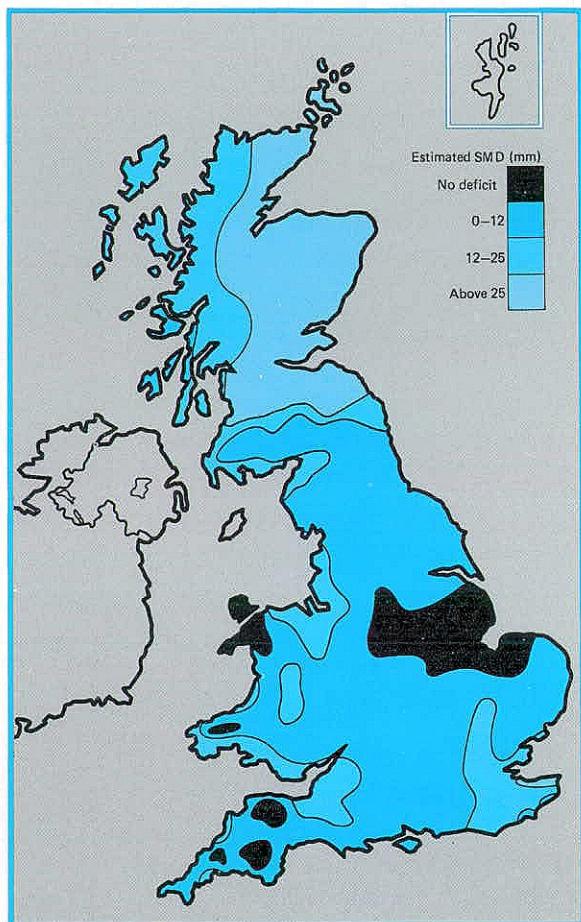


Figure 5. Estimated soil moisture deficits on 26 April 1981.



REVIEW OF RUNOFF

Runoff from the United Kingdom in 1981 was above average continuing the sequence of high runoff years which have followed the 1975/76 drought. Overall, runoff was approximately 640 mm; about twenty per cent above normal with only limited spatial variation from the general pattern. The increased river flows in 1981 reflect both the above average rainfall and its greater hydrological effectiveness; precipitation being substantial in the spring and autumn when evaporation rates are moderate. Although the seasonal contrasts in river flow were particularly marked in 1981, low flows were generally higher than in a typical year, substantially so in those rivers having a high baseflow component. A prevalence of periods of sustained high river flows also characterised 1981 although extensive flooding was uncommon.

Figure 6 provides a guide to runoff, expressed as a percentage of the period of record average, in Great Britain for 1981. The map is based upon discharge data from over 400 gauging stations and is least precise in northern Scotland where the monitoring network is sparse. A considerable measure of spatial uniformity is evident. Runoff exceeded 140 per cent of average only in a few, mainly coastal, areas and, on a regional basis, was nowhere significantly below its mean annual value although much of eastern Scotland and Northumberland registered between 90 and 100 per cent of the mean.

The distribution of river flows throughout 1981 is illustrated by daily and monthly hydrographs (Fig.7 a-d) for individual gauging stations in England, Scotland, Wales and Northern Ireland; the monthly hydrographs are superimposed upon the corresponding maximum, minimum and mean values for the period of record. Also shown is the single year, and period of record flow duration curves, which allow 1981 flows to be compared with the average flow regime. On the River Tay, for instance, the flows exceeded for 50 per cent and 95 per cent of the time, were close to the average in 1981 whereas on the River Thames these measures of medium and low flows were substantially higher than those derived from the previous record.

Throughout most of England and Wales the year began with river flows considerably below the seasonal average. In Scotland, however, January runoff was high particularly in the west and the north where the River Findhorn recorded nearly twice the average runoff. A relatively uniform pattern of below average runoff was maintained throughout February in most regions of the United Kingdom south of the Scottish Highlands.

The heavy and sustained March rainfall was accompanied by a rapid recovery in river discharges and many rivers with relatively short records

registered new maximum March runoff totals in 1981. Unprecedented daily flows were also recorded in mid month for a number of rivers in south Wales and south west England. Total runoff from the River Exe catchment and from the Wye basin approached three times the March average. High discharges characterised March river flows throughout Wales and the storms of the 20/21 March caused flooding in the north and the south of the Principality. In Gwynedd, the flood on the River Gwyrfai was the highest since 1970 and on the Glaslyn, the flood peak was the second highest since 1961. In south Wales the River Usk overtopped its banks and inundated the flood plain downstream of Brecon, a return period of one in ten years being ascribed to this event.

Over much of England and Wales river flows remained high in April and between the 24th and 26th very heavy rainfall combined with melting snow to cause widespread flooding in East Anglia and the Lincolnshire Wolds. Lincolnshire experienced its most severe non-tidal flooding since 1947. Breaches in flood banks were common resulting in widespread inundation, and some 2000 hectares and 250 residential properties were affected. The return period of the flood was estimated at 200 years on the River Bain and 60 years for the discharges in the Rivers Ancholme and Barlings Eau. A similar severity was ascribed to the River Bure flood in Norfolk and flows in the Rivers Wensum and Tud were the highest recorded since 1960. The middle reaches of the Great Ouse carried a flood approaching the 1947 level and, similarly, the discharge recorded at Wansford on the River Nene was the highest for 34 years.

May runoff was very modest in Scotland, particularly in the north. The Findhorn recorded its lowest combined runoff total for April and May in a 23 year record. In contrast, May runoff in the river Exe (Devon) basin was the highest on record; a new monthly maximum had also been established in March. Generally, rivers in England and Wales recorded notably high spring runoff totals; the associated substantial replenishment of reservoirs and aquifers resulted in water stocks being at seasonally high levels entering the summer.

Intense thunderstorms at the beginning of June caused localised flooding in a number of areas. The River Adur in Sussex breached its banks flooding several roads and inundating some 250 houses and several light industrial premises near Worthing. From about mid June, however, river flows receded steadily and the control exercised by catchment geology on the pattern of low flows became increasingly evident. Rivers draining steep impermeable catchments receded quickly with only

limited rainfall and by August the Spey, the Wharfe and the Exe, for example, were below half the normal seasonal flow. On the other hand, flows in the Mimram and the Kennet, both draining chalk catchments with summer discharge maintained predominantly from groundwater storage, remained significantly above average throughout the June to August period; the Kennet recording its second highest summer runoff in a twenty year record.

The low flow sequences in the west and the north of Great Britain were of short duration and not exceptional even though limited restrictions on water use became necessary in south Wales and south west England.

A number of high intensity rainfall events, often associated with thunderstorms, caused serious flooding in local urban and rural sewers and drains but, generally, the summer rainfall was too localised to produce floods in the larger river catchments. Even so, the measured flood peaks in the River Hogsmill at Kingston and the Wye in Buckinghamshire, following a thunderstorm during the 5/6 August, gave estimated return periods of between 25 and 50 years.

River flows increased in the autumn, often markedly. Runoff during October was particularly heavy and many catchments experienced a sequence of high, or very high flows. In Northern Ireland, rivers in the east recorded unprecedented flows early in the month although the significance of the flood discharges needs to take account of the relatively short river flow records in the Province; most are less than ten years. The large month by month variability in runoff which characterised much of the United Kingdom in 1981 continued as flows declined, often rapidly, in November. Nonetheless, total autumn runoff was well above average in all regions particularly in Scotland.

Winter began with rivers close to, or a little above, the seasonal average in England and Wales but they fell quickly in Scotland during December. Regional variations in runoff totals were strongly influenced by the amount and speed of snowmelt following the early and widespread snowfalls in December. In northern England, particularly Yorkshire, the ensuing thaw, accompanied by rainfall, brought widespread and severe flooding the major impact of which occurred in early January 1982.

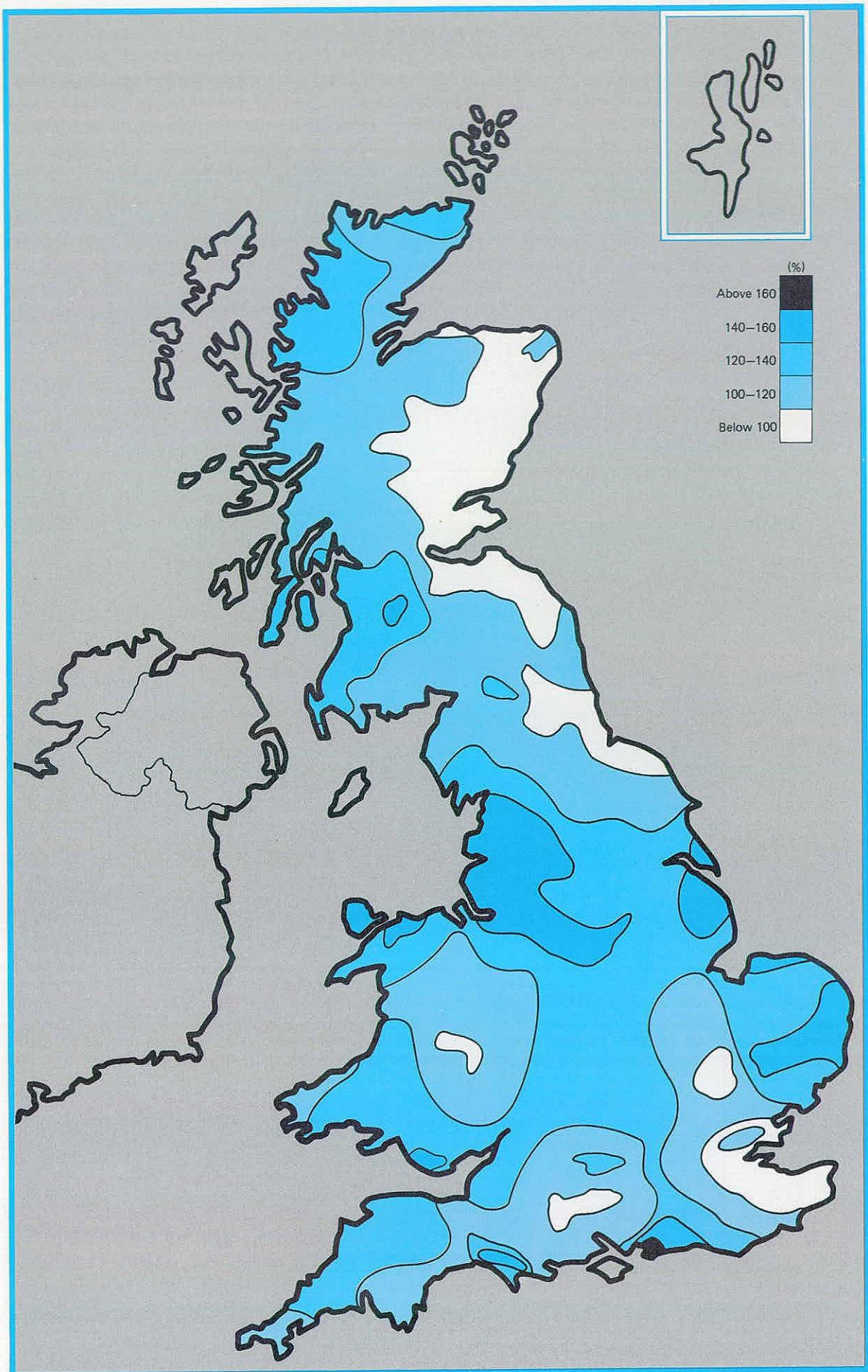


Figure 6. A guide to 1981 runoff expressed as a percentage of the long term average.

15006

TAY AT BALLATHIE

1981

Previous record: 1953-1980

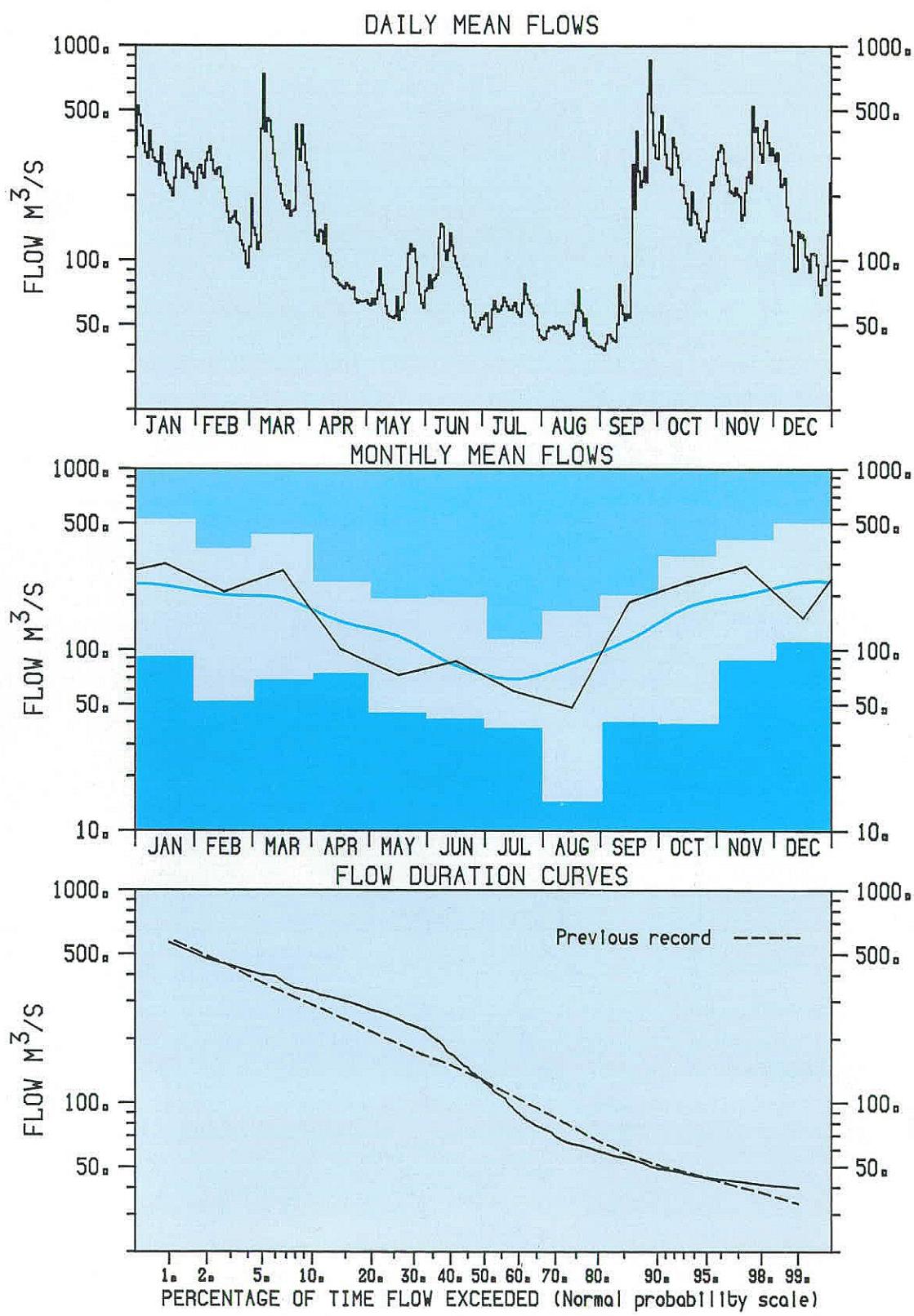
Catchment area: 4587.1 km²

Figure 7(a). 1981 River flow patterns: Tay at Ballathie.

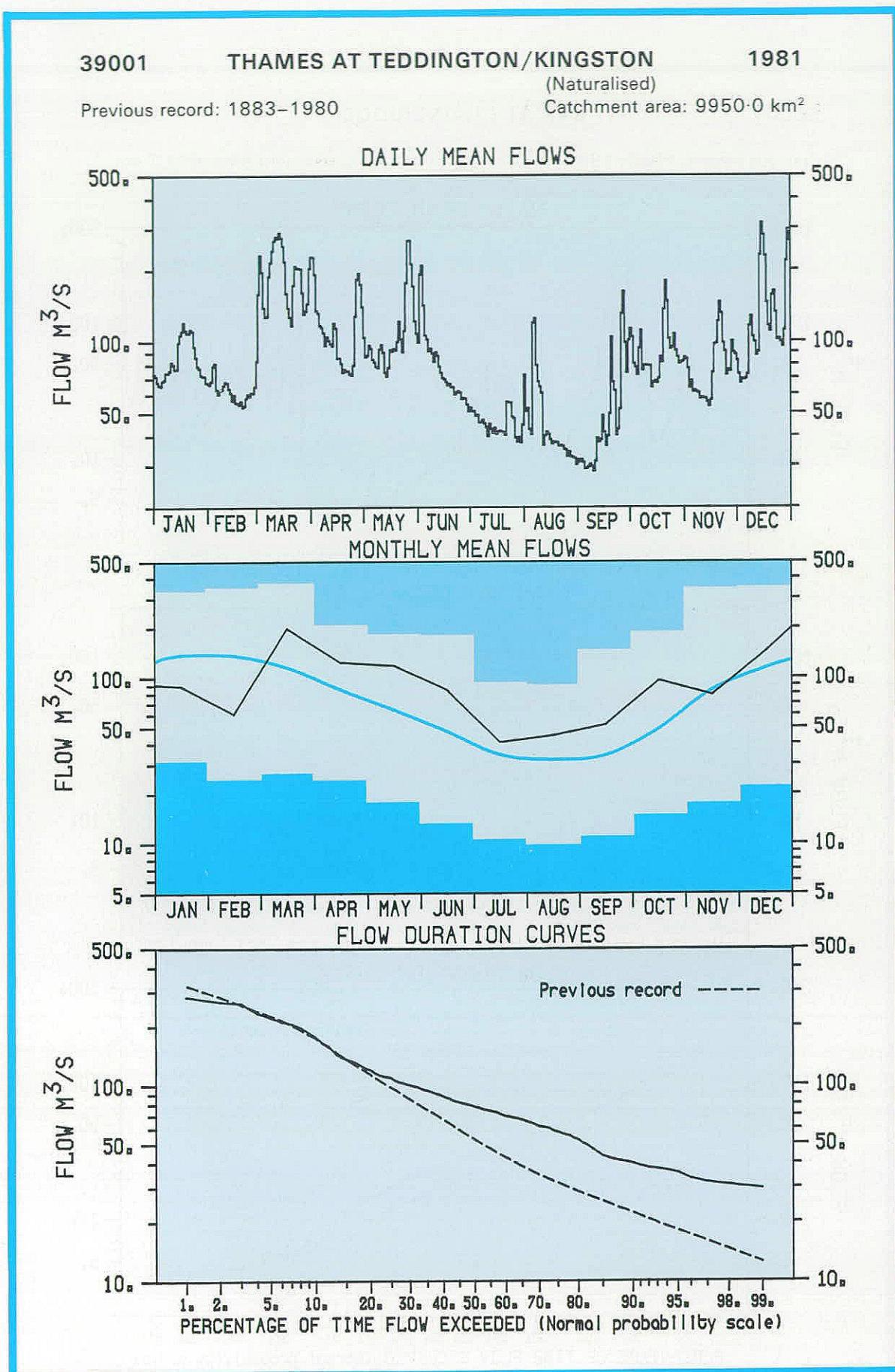


Figure 7(b). 1981 River flow patterns: Thames at Teddington/Kingston.

56001

USK AT CHAINBRIDGE

1981

Previous record: 1958-1980

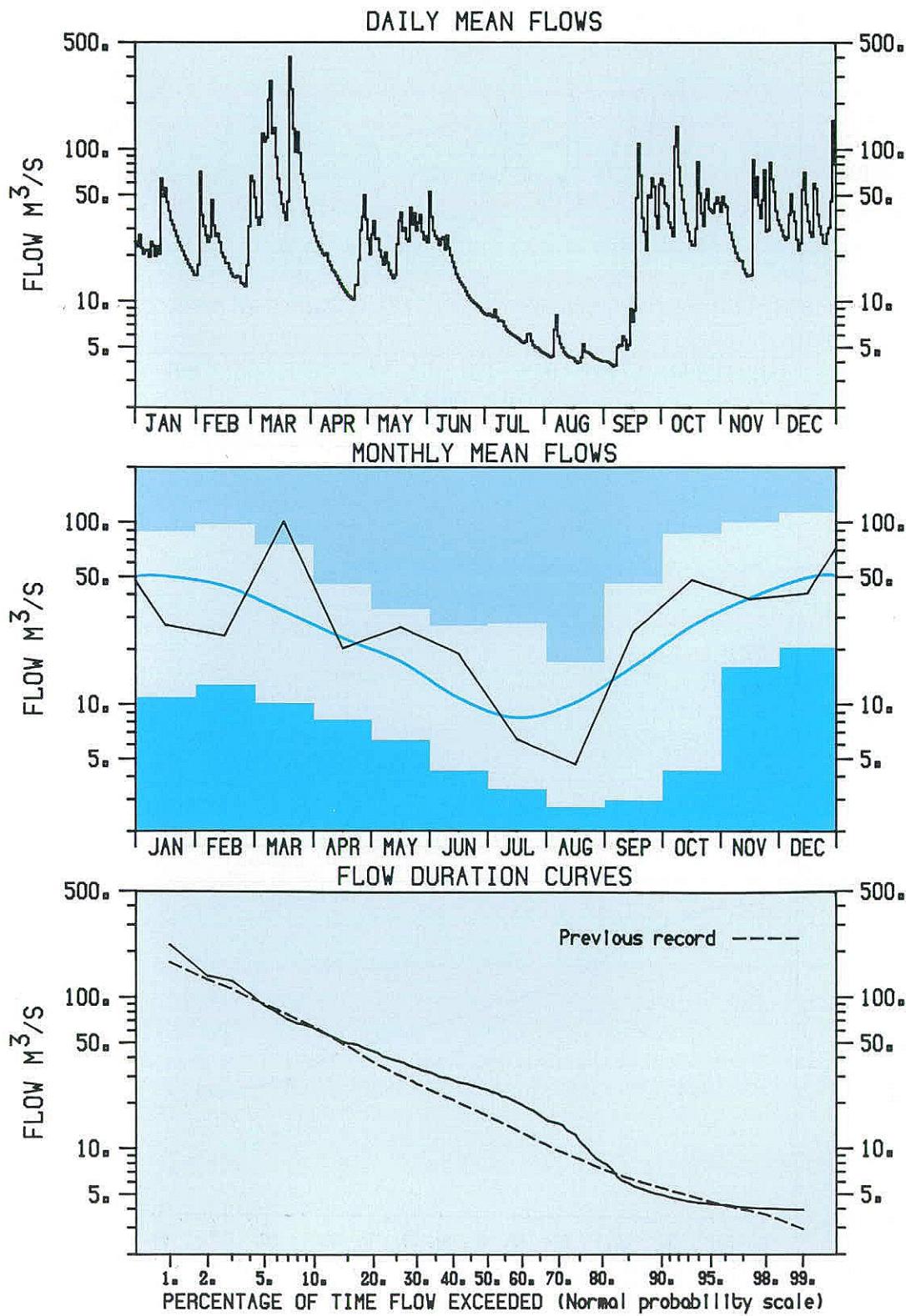
Catchment area: 911.7 km²

Figure 7(c). 1981 River flow patterns: Usk at Chainbridge.

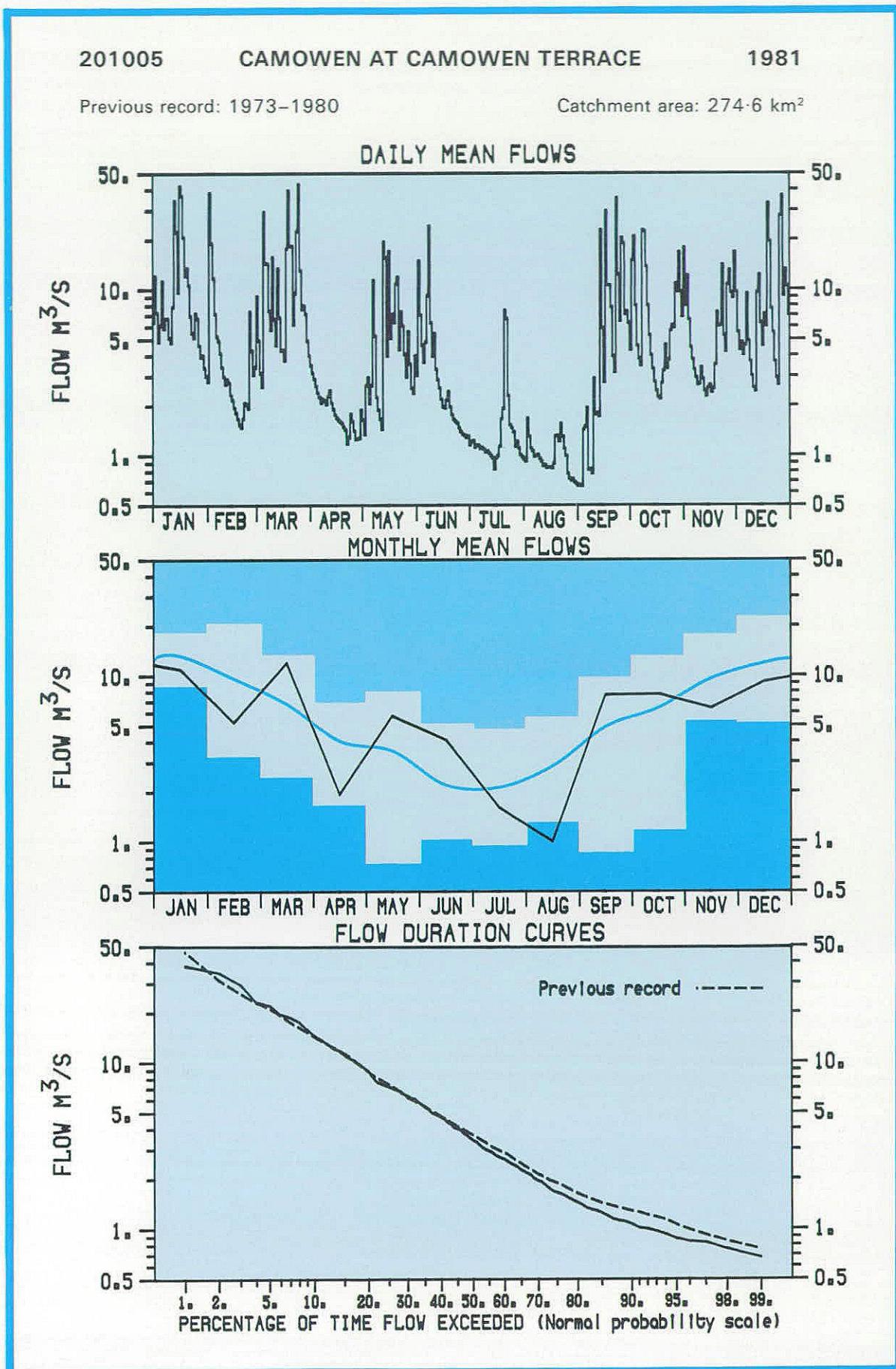


Figure 7(d). 1981 River flow patterns: Camowen at Camowen Terrace.

RIVER FLOW DATA

COMPUTATION AND ACCURACY OF GAUGED FLOWS

Gauged flows are generally calculated by the conversion of the record of stage, or water level, using a stage-discharge relation, often referred to as the rating or calibration. Stage is measured and recorded against time by instruments usually actuated by a float in a stilling well. The instrument records the level either continuously by pen and chart, or digitally on punched tape or solid-state logger, generally at regular (normally 15 minute) intervals. This stage data is normally collected routinely, typically at weekly or monthly intervals, and taken to a regional centre for processing. At some gauging stations provision is made for the routine transmission of river levels directly to the processing centre, by telephone line or, less commonly, by radio; on occasions, satellites have been used to receive and re-transmit the radio signal. Often, both digital and analogue recording devices are deployed at gauging stations to provide a measure of security against loss of record caused by instrument malfunction.

The stage-discharge relation is obtained either by installing a gauging structure, usually a weir or flume with known hydraulic characteristics, or by measuring the stream velocity and cross-sectional area at points throughout the range of flow at a site characterised by its ability to maintain the relationship.

The accuracy of the processed gauged flows therefore depends upon several factors:

- i. accuracy and reliability in measuring and recording water levels,
- ii. accuracy and reliability of the derived stage-discharge relation, and
- iii. concurrency of revised ratings and the stage record with respect to changes in the station control.

Flow data from ultrasonic gauging stations are computed on-site where the times are measured for acoustic pulses to traverse a river section along an oblique path in both directions. The mean river velocity is related to the difference in the two timings and the flow is then assessed using the river's cross-sectional area. Accurate computed flows can be expected for stable river sections and within a range in stage that permits good estimates of mean channel velocity to be derived from a velocity traverse set at a single depth, or at a series of fixed depths.

Flow data from electromagnetic gauging stations may also be computed on site. The technique requires the measurement of the electromotive force (emf) induced in flowing water as it cuts a vertical magnetic field generated by means of a large coil buried beneath the river bed, or constructed above it. This emf is sensed by electrodes at each side of the river and is directly proportional to the average velocity in the cross-section.

British and International Standards are followed as far as possible in the design, installation and operation of gauging stations. Most of these Standards include a section devoted to accuracy, which results in recommendations for reducing uncertainties in discharge measurements and for estimating the extent of the uncertainties which do arise.

The national surface water archive exists to provide not only a central database and retrieval service but also an extra level of hydrological validation. To further this aim, project staff at the Institute liaise with their counterparts in the Water Industry on a regional basis and, by visiting gauging stations and data processing centres, are acquiring the necessary knowledge of local conditions and problems.

SCOPE OF FLOW DATA TABULATIONS

River flow data are presented in two parts. In the first, daily mean gauged flows are tabulated for 49 gauging stations; daily naturalised flows (see p. 25) are also tabulated for the River Thames at Kingston. Monthly flow data for a further 163 gauging stations are given in the second part. The featured gauging stations have been selected to give a broad geographical coverage and to typify a wide range of catchment types found throughout the United Kingdom. A map (Fig. 8) is provided on page 21 to assist in locating the gauging stations featured in this section.

For each gauging station, basic reference information is also given together with comparative average, and extreme, river flow and rainfall figures based upon the archived record.

Explanatory notes precede the two sets of tables and will assist in the interpretation of particular items. The notes relating to the daily flow tables are given on pages 23 to 25; those relating to the monthly data are given on page 76.

STATIONS FOR WHICH DAILY OR MONTHLY DATA ARE GIVEN IN THE RIVER FLOW SECTION

STATION NUMBER	RIVER NAME AND STATION NAME	STATION NUMBER	RIVER NAME AND STATION NAME
3003	OYKEL AT EASTER TURNAIG	28080	TAME AT LEA MARSTON LAKES
4001	CONON AT MOY BRIDGE	29003	LUD AT LOUTH
7002	FINDHORN AT FORRES	30001	WITHAM AT CLAYPOLE MILL.
8006	SPEY AT BOAT O BRIG	30004	PARTNEY LYNN AT PARTNEY MILL.
9002	DEVERON AT MUIRESK	31002	GLEN AT KATES BRIDGE
10002	UGIE AT INVERUGIE	31007	WELLAND AT BARROWDEN
11001	DON AT PARKHILL	31010	CHATER AT FOSTERS BRIDGE
12001	DEE AT WOODEND	32001	NENE AT ORTON
13007	NORTH ESK AT LOGIE MILL	32003	HARPERS BROOK AT OLD MILLS BRIDGE
14001	EDEN AT KEMBACK	32004	ISE BROOK AT HARROWDEN OLD MILL
15006	TAY AT BALLATHIE	33002	BEDFORD OUSE AT BEDFORD
16003	RUCHILL WATER AT CULTYBRAGGAN	33003	CAM AT BOTTISHAM
16004	EARN AT FORTEVIOT BRIDGE	33004	LARK AT ISLEHAM
17002	LEVEN AT LEVEN	33012	KYM AT MEAGRE FARM
17005	AVON AT POLMONTHILL	33013	SAPISTON AT RECTORY BRIDGE
18003	TEITH AT BRIDGE OF TEITH	33014	LARK AT TEMPLE
18005	ALLAN WATER AT BRIDGE OF ALLAN	33024	CAM AT DERNFORD
19001	ALMOND AT CRAIGIEHALL	33032	HEACHAM AT HEACHAM
20001	TYNE AT EAST LINTON	33034	LITTLE OUSE AT ABBEY HEATH
21006	TWEED AT BOLESIDE	34001	YARE AT COLNEY
21009	TWEED AT NORHAM	34006	WAVENY AT NEEDHAM MILL
21012	TEVIOT AT HAWICK	34018	STIFFKEY AT WARHAM ALL SAINTS
21018	LYNE WATER AT LYNE STATION	35002	DEBEN AT NAUNTON HALL
21022	WHITE ADDER WATER AT HUTTON CASTLE	36006	STOUR AT LANGHAM
22001	COQUET AT MORWICK	37001	RODING AT REDBRIDGE
22006	BLYTHE AT HARTFORD BRIDGE	37005	COLNE AT LEXDEN
23001	TYNE AT BYWELL	37008	CHELMER AT SPRINGFIELD
23006	SOUTH TYNE AT FEATHERSTONE	37010	BLACKWATER AT APPLEFORD BRIDGE
23007	DERWENT AT ROWLANDS GILL	37014	RODING AT HIGH ONGAR
24004	BEDBURN BECK AT BEDBURN	38003	MIMRAM AT PANSHANGER PARK
24009	WEAR AT CHESTER LE STREET	38007	CANONS BROOK AT ELIZABETH WAY
25001	TEES AT BROKEN SCAR	38021	TURKEY BROOK AT ALBANY PARK
25006	GRETA AT RUTHERFORD BRIDGE	39001	THAMES AT TEDDINGTON/KINGSTON
25018	TEES AT MIDDLETON IN TEESDALE	39002	THAMES AT DAYS WEIR
25019	LEVEN AT EASBY	39007	BLACKWATER AT SWALLOWFIELD
25020	SKERNE AT PRESTON LE SKERNE	39011	WEY AT TILFORD
26003	FOSTON BECK AT FOSTON MILL	39014	VER AT HANSTEADS
26004	GYPSY RACE AT BRIDLINGTON	39016	KENNEDY AT THEALE
27002	WHARFE AT FLINT MILL WEIR	39019	LAMBOURN AT SHAW
27007	URE AT WESTWICK LOCK	39020	COLN AT BIBURY
27025	ROTHER AT WOODHOUSE MILL	39022	LODDON AT SHEEPBRIDGE
27031	COLNE AT COLNEBRIDGE	39023	WYE AT HEDSOR
27035	AIRE AT KILDWICK BRIDGE	39026	CHERWELL AT BANBURY
27041	DERWENT AT BUTTERCRAMBE	39049	SILK STREAM AT COLINDEEP LANE
27042	DOVE AT KIRKBY MILLS	39069	MOLE AT KINNERSLEY MANOR
27043	WHARFE AT ADDINGHAM	40003	MEDWAY AT TESTON
27053	NIDD AT BIRSTWITH	40004	ROTHER AT UDIAH
27059	LAVER AT RIPON	40005	BEULT AT STILE BRIDGE
28009	TRENT AT COLWICK	40009	TEISE AT STONE BRIDGE
28010	DERWENT AT LONGBRIDGE WEIR	41001	NUNNINGHAM STREAM AT TILLEY BRIDGE
28018	DOVE AT MARSTON ON DOVE		
28031	MANIFOLD AT ILAM		
28039	REA AT CALTHORPE PARK		
28072	GREET AT SOUTHWEI.		

continued on p. 22



Figure 8. Gauging station location map.

41005	OUSE AT GOLD BRIDGE	62001	TEIFI AT GLAN TEIFI
41006	UCK AT ISFIELD	63001	YSTWYTH AT PONT LLOLWYN
41016	CUCKMERE AT COWBEECH	64001	DOVEY AT DOVEY BRIDGE
41025	LOXWOOD STREAM AT DRUNGEWICK	65001	GLASLYN AT BEDDGELERT
42003	LYMINGTON AT BROCKENHURST PARK	65005	ERCH AT PENCAENEWYDD
42006	MEON AT MISLINGFORD	66006	ELWY AT PONT Y GWYDDEL
42008	CHERITON STREAM AT SEWARDS BRIDGE	67008	ALYN AT PONT Y CAPEL
42010	ITCHEN AT HIGHBRIDGE	67015	DEE AT MANLEY HALL
42012	ANTON AT FULLERTON	67025	CLYWEDOG AT BOWLING BANK
43005	AVON AT AMESBURY	68001	WEAVER AT ASHBROOK
43007	STOUR AT THROOP MILL	68003	DANE AT RUDHEATH
44002	PIDDLE AT BAGGS MILL	68020	GOWY AT BRIDGE TRAFFORD
45001	EXE AT THORVERTON	69002	IRWELL AT ADELPHI WEIR
45003	CULM AT WOODMILL	69003	IRK AT SCOTLAND WEIR
45005	OTTER AT DOTTON	69006	BOLLIN AT DUNHAM MASSEY
46002	TEIGN AT PRESTON	69007	MERSEY AT ASHTON WEIR
46003	DART AT AUSTINS BRIDGE	69015	ETHEROW AT COMPSTALL
47001	TAMAR AT GUNNISLAKE	70004	YARROW AT CROSTON MILL
47007	YEALM AT PUSLINCH	71001	RIBBLE AT SAMLESBURY
47008	THRUSHEL AT TINHAY	71004	CALDER AT WHALLEY WEIR
48001	FOWEY AT TREKEIVESTEPS	71010	PENDLE WATER AT BARDEN LANE
48004	WARLEGGAN AT TRENGOFFE	72002	WYRE AT ST MICHAELS
48005	KENWYN AT TRURO	72004	LUNE AT CATON
48011	FOWEY AT RESTORMEL	73002	CRAKE AT LOW NIBTHWAITE
49001	CAMEL AT DENBY	73005	KENT AT SEDGWICK
49002	HAYLE AT ST ERTH	73008	BELA AT BEETHAM
50001	TAW AT UMBERLEIGH	73010	LEVEN AT NEWBY BRIDGE
50002	TORRIDGE AT TORRINGTON	74001	DUDDON AT DUDDON HALL
52005	TONE AT BISHOPS HULL	74002	IRT AT GALESYKE
52006	YEO AT PEN MILL	74005	EHEN AT BRAYSTONES
52007	PARRETT AT CHISELBOROUGH	75002	DERWENT AT CAMERTON
53004	CHEW AT COMPTON DANDO	75004	COCKER AT SOUTHWAITE BRIDGE
53006	FROME (BRISTOL) AT FRENCHAY	76007	EDEN AT SHEEPOUNT
53007	FROME (SOMERSET) AT TELLISFORD	76015	EAMONT AT POOLEY BRIDGE
53009	WELLOW BROOK AT WELLOW	78003	ANNAN AT BRYDEKIRK
53018	AVON AT BATHFORD	78004	KINNE WATER AT REDHALL
54001	SEVERN AT BEWDLEY	79006	NITH AT DRUMLANRIG
54002	AVON AT Evesham	80001	URR AT DALBEATTIE
55008	WYE AT CEFN BRWYN	81003	LUCE AT AIRYHEMMING
55012	IRFON AT CILMERY	82001	GIRVAN AT ROBSTONE
55014	LUGG AT BYTON	83003	AYR AT CATRINE
55023	WYE AT REDBROOK	84001	KELVIN AT KILLERMONT
55026	WYE AT DDOL FARM	84005	CLYDE AT BLAIRSTON
56001	USK AT CHAIN BRIDGE	84009	NETHAN AT KIRKMUIRHILL
56002	EBBW AT RHIWDERYN	85001	LEVEN AT LINNBRANE
56007	SENNI AT PONT HEN HAFOD	85003	FALLOCH AT GLENFALLOCH
56013	YSCIR AT PONTARYSCIR	94001	FWE AT POOLEWE
57005	TAFF AT PONTYPRIDD	95001	INVER AT LITTLE ASSYNT
57008	RHYMMEY AT LLANEDERYN	96001	HALLADALE AT HALLADALE
58001	OGMORE AT BRIDGEND	101002	MEDINA AT UPPER SHIDE
58006	MELLTE AT PONTNEATHVAUGHAN	201005	CAMOWEN AT CAMOWEN
59001	TAWE AT YNYS TANGIWS	201007	BURNDENNET AT BURNDENNET BRIDGE
60003	TAF AT CLOG Y FRAN	203010	BLACKWATER AT MAYDOWN BRIDGE
61003	GWAUN AT CILRHEDYN BRIDGE	205005	RAVERNET AT RAVERNET

Part (i) – the daily mean flow tabulations

Station Number

The gauging station number is a unique six digit reference number which serves as the primary identifier of the station record on the surface water archive. The first digit is a regional identifier being 0 for mainland Britain, 1 for the islands around Britain and 2 for Ireland. This is followed by the hydrometric area number given in the second and third digits. Hydrometric areas are either integral river catchments having one or more outlets to the sea or tidal estuary, or, for convenience, they may include several contiguous river catchments having topographical similarity with separate tidal outlets. In Britain they are numbered from 1 to 97 in clockwise order around the coastline commencing in north east Scotland. Ireland has a unified numbering system from 1 to 40, commencing with the River Foyle catchment and circulating clockwise; not all Irish hydrometric areas, however, have an outlet directly on the coast.

The numbers and boundaries of the United Kingdom hydrometric areas are shown in the frontispiece.

The practice followed in the *Surface Water: United Kingdom* publications of using the fourth digit to denote certain characteristics of a gauging station, or of its flow record, has been discontinued. Normally this function is now performed by the station description (see below).

The fourth, fifth and sixth digits comprise the number, usually allocated chronologically, of the gauging station within the hydrometric area.

Where the leading digit, or digits, are zero they may be omitted giving rise to apparent four or five digit reference numbers.

Measuring Authority

An abbreviation referencing the organisation responsible for the operation of the gauging station. A list of measuring authority codes together with the corresponding names and addresses for all organisations currently contributing data to the surface water archive appears on pages 166 and 167.

Grid Reference

Standard two-letter and six figure map reference using the National Grid in Great Britain and the Irish Grid in Northern Ireland. (The Irish Grid has only one prefix letter but it is common practice to precede it with the letter I to make the identification clear).

Catchment Area

The surface catchment area in the horizontal plane of the gauging station in square kilometres. There are a few gauging stations where, because of geological considerations, the groundwater catchment area differs appreciably from the surface water catchment area and, in consequence, the baseflow, whether augmented or diminished, may cause the runoff value to appear anomalous.

First Year

The year in which the station started producing daily mean flow data, usually the first year for which data are held on the surface water archive. Earlier data, often of a sporadic nature, or of poorer quality, may occasionally be available from the measuring authorities or other sources.

Level of Station

The level of the station is, generally, the level of the gauge zero in metres above Ordnance Datum, or above Malin Head Datum for stations in Northern Ireland. Although gauge zero is usually closely related to zero discharge, it is the practice in some areas for an arbitrary height, typically one metre, to be added to the level of the lowest crest of a measuring structure to avoid the possibility of false recording of negative values by some digital recorders.

Maximum Altitude

The level to the nearest metre of the highest point in the catchment area.

Table of daily mean gauged (or naturalised) discharges

The mean flow in cubic metres per second (cumecs) in a water-day, normally 0900 am to 0900 am. The naturalised discharge is the gauged discharge adjusted to take account of net abstractions and discharges upstream of the gauging station.

Peak Flow: The highest flow in cubic metres per second for each month. The day of peak generally refers to the water-day but the calendar day is also used, particularly in Scotland. Normally the peak flow corresponds to the highest fifteen minute flow where water levels are recorded digitally, or the highest instantaneous flow associated with maximum stage where analogue recorders are used.

Runoff: The notional depth of water in millimetres over the catchment equivalent to the mean flow for

the month as measured at the gauging station. It is computed using the relationship:

$$\text{Runoff in mm} = \frac{\text{Average Flow in Cumecs} \times 86.4 \times n}{\text{Catchment Area (km}^2)}$$

where n is the number of days in the month. The runoff total is rounded to the nearest millimetre.

Rainfall: The rainfall over the catchment in millimetres for each month. It is derived by first obtaining the long-period (1941-70) average annual rainfall for each catchment. Then, for each of a selected number of raingauges chosen to represent the catchment, the monthly rainfall is expressed as a percentage of its annual average rainfall. The percentage values of rainfall for each raingauge are summed and their mean obtained to give a catchment percentage value for the month, which is then converted to monthly mean rainfall (mm). Accuracy therefore depends largely on the reliability of the assessment of the areal annual average and on the adequacy of the network of raingauges used to represent an area.

Statistics of monthly data for previous record

Only complete monthly records are used in the derivation of the average, low and high values of river flow, runoff and rainfall. The rainfall and runoff statistics are normally directly comparable but full equivalence will not obtain where the pattern of missing data differs between the archived rainfall and runoff data sets.

Where applicable, a guide to the amount of missing data is given following the section heading.

Summary statistics

Current year flow statistics are tabulated alongside the corresponding values for the previous record. Where appropriate, the current year figures are expressed as a percentage of the preceding average.

Mean Flow: The average of all available daily mean flows during the term indicated.

Lowest Daily Mean: The value and date of occurrence of the lowest mean flow in cubic metres per second in a water-day during the term indicated. In a record in which the value recurs, the date is that of the last occasion.

It should be emphasised that river flow measurement tends to become more imprecise at very low discharges. Minimal velocities, heavy weed growth and the insensitivity of stage-discharge relations combine with difficulties of the accurate measurement of limited water depths to reduce the accuracy of computed flows.

The reliability of both the lowest daily mean flow and the 95 percentile flows (see below) as representative measures of low flow must be considered carefully and the values used with caution in view of the increasing proportional variability between the natural flow and the artificial influences, such as abstractions, discharges, and storage changes as the river flow diminishes.

Peak: The peak flow in cubic metres per second during the term indicated. The date of occurrence, normally the water-day, is also indicated. Generally, the peak flows are derived from the record of monthly instantaneous maximum flows stored on the surface water archive. As a result of particular flow-measurement difficulties in the flood range this peak flow series is often incomplete. Consequently, in some cases, the peak flow from the previous period of record has been abstracted from Volume IV of the Flood Studies Report¹. Reference to this report should be made to check for historical flood events which may exceed the peak falling within the gauged flow record.

10 percentile: The flow in cubic metres per second which was equalled or exceeded for 10 per cent of the specified term - a high flow parameter which, when compared with the mean may give a measure of the variability or 'flashiness' of the flow regime. The 10 percentile is computed using daily flow data only for those years with ten days, or less, missing on the surface water archive.

50 Percentile: The flow in cubic metres per second which was equalled or exceeded for 50 per cent of the specified term - the median value. The same conditions for completeness of the annual records apply as for the 10 percentile flow.

95 Percentile: The flow in cubic metres per second which was equalled or exceeded for 95 per cent of the specified term - a significant low flow parameter relevant in the assessment of river water quality consent conditions. The same conditions for completeness of the annual records apply as for the 10 percentile flow.

Factors affecting flow regime

An indication of the various types of abstractions from, and discharges to, the river operating within the catchment which alter the natural flow is given by a standard set of abbreviated descriptions. In

¹ Flood Studies Report 1975. Natural Environment Research Council (5 vols)

Part (ii) - the monthly flow data - each description is shortened to a code letter. An explanation of the abbreviated descriptions and the code letters is given below. With the exception of the induced loss in surface flow resulting from underlying

groundwater abstraction, these codes and descriptions refer to quantifiable variations and do not include the progressive, and difficult to measure, modifications in the regime related to land-use changes.

CODE EXPLANATION	ABBREVIATED DESCRIPTION
N Natural, i.e., there are no abstractions and discharges or the variation due to them is considered so limited that the gauged flow is within 10% of the natural flow at, or in excess of, the 95 percentile flow.	Natural within 10% at the 95 percentile flow.
Storage or impounding reservoir. Natural river flows will be effected by water stored in a reservoir situated in, and supplied from, the catchment above the gauging station;	Reservoirs in catchment.
Regulated river. Under certain flow conditions the river will be augmented from surface water and/or groundwater storage upstream of the gauging station.	Augmentation from surface water and/or groundwater.
Public water supplies. Natural river flows are reduced by the quantity abstracted from a reservoir or by a river intake if the water is conveyed outside the gauging station's catchment area.	Abstraction for public water supply.
Groundwater abstraction. Natural river flow may be reduced or augmented by groundwater abstraction or recharge. This category includes catchments where minewater discharges influence the flow regime.	Flows influenced by groundwater abstraction and/or recharge.
Effluent return. Outflows from sewage treatment works will augment the river flow if the effluents originate from outside the catchment.	Augmentation from effluent returns.
Industrial and agricultural abstractions. Direct industrial and agricultural abstractions from surface water and from groundwater may reduce the natural river flow.	Flow reduced by industrial and/or agricultural abstraction.
Hydro-electric power. The river flow is regulated to suit the need for power generation.	Regulation for HEP.

Except for a small set of gauging stations for which the net variation, ie. the sum of abstractions and discharges, is assessed in order to derive the 'naturalised' flow from the gauged flow, the record of individual abstractions, discharges and changes in storage as indicated in the code above is not held centrally.

Station description

A concise description of the gauging station. When appropriate, details of the station history are

included together with any factors limiting the availability or accuracy of the associated river flow record.

Comment

A summary of any important factors influencing the accuracy of the current year's flow data specifically; for instance, the reconstruction of a gauging station or the use of extrapolated stage-discharge relations during periods of very low or very high flows.

003003 Oykell at Easter Turnaig**1981**

Measuring authority HRPB
First year 1977

Grid reference NC 403001
Level stn (m OD) 15.62

Catchment area (sq km) 330.7
Max alt. (m OD) 998

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	62 780	12 970	2 882	3 010	8 122	1 860	8 672	2 317	1 168	15 060	27 050	29 920
2	245 500	39 270	3 578	2 676	5 904	1 934	5 801	1 901	1 078	74 200	33 100	34 380
3	48 800	34 160	2 317	2 423	14 020	3 071	3 911	1 871	1 011	143 300	50 290	139 800
4	15 160	14 070	2 958	2 174	6 691	4 892	2 873	1 463	1 006	49 890	29 030	31 120
5	12 220	152 600	2 582	2 057	3 936	4 781	2 185	1 454	1 181	14 470	10 510	26 260
6	9 940	104 200	2 774	1 828	3 660	3 842	2 733	1 396	1 020	16 810	6 493	18 690
7	68 030	101 600	33 230	2 725	3 332	3 201	4 724	1 232	1 005	30 190	4 824	7 895
8	45 110	35 240	30 740	3 529	3 149	19 870	3 921	1 223	0 994	18 600	4 082	5 629
9	25 530	15 440	28 770	2 367	3 036	35 170	2 688	1 243	1 169	35 990	105 600	4 647
10	12 420	9 080	38 430	1 975	2 744	27 990	2 027	1 302	1 478	106 600	150 700	5 131
11	40 770	17 720	48 670	2 007	2 277	11 800	3 108	1 927	1 331	81 030	41 850	5 841
12	14 030	28 910	20 040	2 347	1 792	5 844	2 681	9 185	1 131	100 300	28 570	12 070
13	75 510	12 610	9 443	1 787	1 432	7 524	2 386	8 423	1 021	28 880	42 690	13 930
14	44 560	6 819	7 056	1 390	1 209	7 588	7 605	3 881	2 031	40 750	17 960	11 290
15	11 370	11 310	8 958	1 177	1 036	8 974	6 985	6 349	6 199	50 430	17 520	8 090
16	6 899	6 172	12 580	1 077	0 920	19 420	15 580	4 695	3 198	30 530	15 350	6 688
17	5 508	4 491	27 660	1 007	0 860	11 780	21 800	14 490	8 429	12 290	27 850	6 660
18	24 500	3 317	28 250	0 960	0 744	5 541	7 813	15 890	18 470	23 640	35 440	4 971
19	26 120	3 181	25 230	0 901	0 698	5 687	7 613	32 340	17 320	38 190	42 770	5 178
20	38 760	2 642	11 430	0 763	0 695	4 626	9 613	12 570	320 300	49 080	85 870	11 400
21	98 810	2 404	9 855	0 733	0 675	3 166	4 760	10 510	144 600	31 630	67 820	8 657
22	37 100	1 948	5 874	0 689	0 701	2 370	14 500	16 820	74 930	12 580	113 200	6 038
23	28 610	1 825	7 869	0 689	0 681	1 969	13 130	6 391	26 330	18 820	40 270	4 304
24	39 090	2 520	41 480	0 859	4 254	1 903	6 023	8 973	10 990	25 090	20 150	3 150
25	23 580	2 891	52 540	1 016	5 322	1 829	4 176	4 086	6 622	10 640	32 590	4 479
26	103 800	2 272	23 570	0 979	3 608	1 511	4 140	3 045	81 180	9 889	215 600	6 655
27	20 990	1 759	11 990	1 638	9 574	1 405	4 777	2 742	64 100	12 950	60 460	5 422
28	9 481	1 847	9 088	12 980	8 680	1 252	10 490	2 254	77 290	15 890	34 850	4 599
29	8 279	6 290	103 800	4 576	-1 591	11 750	1 901	55 480	38 600	89 230	4 511	
30	8 589	4 423	22 170	2 837	6 679	4 708	1 590	24 150	34 260	49 610	26 890	
31	6 704		3 596	2 197		3 103	1 336		34 350		38 650	
Average	39 180	22 610	16 750	6 124	3 528	7 302	6 653	5 826	31 870	38 220	49 380	16 220
Lowest	5 508	1 759	2 317	0 689	0 675	1 252	2 027	1 223	0 994	9 889	4 082	3 150
Highest	245 500	152 600	52 540	103 800	14 020	35 170	21 800	32 340	320 300	143 300	215 600	139 800
Peak flow	483 300	466 500	80 920	208 300	23 640	49 660	31 670	55 160	423 400	255 200	407 700	234 100
Day of peak	2	5	8	29	27	8	22	19	20	12	26	3
Monthly total (million cu m)	104 90	54 70	44 85	15 87	9 45	18 93	17 82	15 60	82 61	102 40	128 00	43 45
Runoff (mm)	317	165	136	48	29	57	54	47	250	310	387	131
Rainfall (mm)	310	162	145	76	78	101	81	79	326	401	458	123

Statistics of monthly data for previous record (Nov 1977 to Dec 1980)

Mean flows	Avg	17 390	15 430	17 370	10 220	6 026	10 590	9 627	9 216	24 990	29 040	33 860	20 090
flows	Low	16 030	14 420	6 649	5 445	1 067	6 918	2 853	6 061	21 090	7 328	26 910	8 245
(year)		1980	1979	1980	1980	1980	1978	1978	1978	1979	1979	1980	1977
High		18 920	16 460	28 000	17 720	12 360	14 140	15 690	13 730	28 480	41 100	41 300	38 210
(year)		1978	1978	1979	1979	1980	1979	1980	1978	1980	1977	1980	
Runoff													
Avg		141	114	141	80	49	83	78	75	196	235	265	163
Low		130	105	54	43	9	54	23	49	165	59	211	67
High		153	120	227	139	100	111	127	111	223	333	324	309

Summary statistics

	For 1981	For record preceding 1981	1981	As % of pre-1981
Mean flow (m³ s⁻¹)	20 250	16 970	119	
Lowest yearly mean		16 370	1978	
Highest yearly mean		17 880	1980	
Lowest monthly mean	3 528	May	1 067	May 1980
Highest monthly mean	49 380	Nov	41 300	Nov 1977
Lowest daily mean	0 675	21 May	0 596	18 May 1980
Highest daily mean	320 300	20 Sep	362 200	5 Oct 1978
Peak	483 300	2 Jan	847 500	5 Oct 1978
10 %ile	49 270		40 920	120
50 %ile	7 288		9 419	77
95 %ile	1 003		1 453	69
Annual total (million cu m)	638 60		535 50	119
Annual runoff (mm)	1931		1619	119
Annual rainfall (mm)	2340			
[1941-70 rainfall average (mm)]				

Factors affecting flow regime

• Natural to within 10% at 95 percentile flow

Station description
Velocity-area station Flow contained under cableway up to 3.8 m

008006 Spey at Boat o Brig

1981

Measuring authority: NERPB
 First year: 1952

Grid reference: NJ 318518
 Level stn. (m OD) 43.12

Catchment area (sq km): 2864.2
 Max alt. (m OD): 1309

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	137.200	98.380	39.470	56.750	32.470	24.870	27.120	31.760	16.890	113.500	85.320	129.600
2	254.100	127.300	44.810	51.720	30.080	24.970	27.270	28.890	16.690	407.900	102.600	135.400
3	225.700	110.800	38.260	48.550	33.170	25.470	29.920	27.050	16.510	535.100	91.960	176.200
4	169.400	89.350	36.560	45.400	50.490	25.160	29.720	25.710	16.610	454.300	109.100	185.500
5	125.800	82.610	35.010	45.760	41.790	25.760	27.210	25.660	17.370	279.400	85.940	115.900
6	104.300	127.000	35.490	43.590	34.130	27.340	26.820	25.530	17.320	182.100	68.270	94.270
7	117.200	120.700	87.970	40.830	30.960	27.390	28.760	25.300	17.140	147.200	57.820	78.390
8	237.500	140.700	162.200	38.650	32.270	27.030	29.920	24.610	16.630	120.900	51.090	67.010
9	201.700	111.800	102.400	36.720	32.900	72.020	29.480	23.260	16.120	208.600	48.930	59.140
10	132.000	86.660	96.720	36.290	32.940	111.200	29.480	22.180	16.320	200.200	48.840	53.060
11	121.100	71.220	121.000	37.340	32.840	66.890	29.040	21.480	18.180	178.000	54.540	47.080
12	124.400	69.650	106.800	40.790	32.190	50.890	27.940	21.090	23.720	210.400	57.730	38.770
13	108.800	76.240	84.540	39.140	30.960	44.490	27.740	20.620	23.510	172.900	56.990	36.280
14	211.300	65.550	85.430	35.990	29.520	43.860	26.760	20.330	21.850	117.400	57.630	33.850
15	131.200	58.970	73.150	33.950	28.100	41.590	25.550	20.300	22.700	92.640	52.490	32.670
16	94.200	54.820	84.440	32.510	26.780	38.910	32.780	21.350	23.910	81.010	59.580	32.670
17	83.340	50.780	59.450	31.470	25.940	45.050	45.840	20.950	24.230	73.150	56.040	33.850
18	76.960	48.730	61.030	30.510	25.130	52.320	57.690	20.490	58.890	69.570	65.700	33.850
19	74.290	44.620	55.360	29.750	24.440	44.750	46.260	22.700	64.000	109.800	59.620	33.850
20	72.110	44.840	54.790	28.880	23.990	44.110	37.440	32.970	265.200	81.860	164.700	33.850
21	192.400	40.650	54.570	27.880	24.360	41.650	34.660	31.310	179.300	162.000	155.500	33.850
22	208.900	40.210	49.150	27.800	24.490	36.090	96.870	26.090	140.100	120.700	179.700	32.670
23	191.100	39.320	46.300	27.730	24.640	32.610	153.100	23.430	105.100	87.810	175.200	32.670
24	169.700	38.280	59.390	27.730	25.330	31.290	128.900	21.620	117.100	88.590	133.900	29.220
25	124.700	35.800	170.000	27.870	25.870	33.990	78.660	20.190	101.200	75.640	97.170	32.670
26	177.200	35.690	168.700	27.980	34.020	37.130	57.840	19.410	183.500	65.240	233.800	28.110
27	158.900	35.350	104.500	27.560	34.390	43.000	46.060	19.000	216.500	60.460	254.100	29.220
28	119.600	37.650	106.600	29.310	28.660	35.500	42.080	18.560	163.700	57.110	188.800	29.220
29	117.800		103.600	29.150	27.750	30.940	40.860	18.160	122.200	65.590	135.700	29.220
30	122.500			77.100	32.280	25.820	28.480	37.480	17.650	91.710	68.380	193.600
31	111.700			63.160		25.010		34.170	17.280		84.100	97.170
Average	145.000	70.850	78.970	35.660	30.050	40.490	44.950	23.060	71.140	153.900	106.000	59.930
Lowest	72.110	35.350	35.010	27.560	23.980	24.870	25.550	17.280	16.120	57.110	48.840	28.110
Highest	254.100	140.700	170.000	56.750	50.490	111.200	153.100	32.970	265.200	535.100	254.100	185.500
Peak flow	328.600	152.100	214.200	59.510	55.200	193.200	173.700	35.870	377.900	723.600	332.000	233.700
Day of peak	2	2	25	1	4	9	23	20	20	2	26	4
Monthly total (million cu m)	388.40	171.40	211.50	92.44	80.48	105.00	120.40	61.77	184.40	412.30	274.80	160.50
Runoff (mm)	136	60	74	32	28	37	42	22	64	144	96	56
Rainfall (mm)	131	56	84	20	47	81	86	30	157	205	149	60

Statistics of monthly data for previous record (Oct 1952 to Dec 1980)

Mean flows	80.710	71.170	72.050	69.800	58.950	41.850	41.440	51.090	46.900	64.130	74.390	87.330
Lowest	41.080	26.470	35.790	33.600	26.900	17.920	18.060	11.310	14.090	13.340	30.140	38.760
(year)	1979	1963	1964	1974	1960	1961	1976	1955	1972	1958	1976	
High	142.900	159.100	145.200	135.200	103.500	103.000	79.860	119.600	105.400	116.700	117.600	198.700
(year)	1974	1962	1978	1979	1968	1966	1980	1956	1965	1954	1977	1954
Runoff	Avg	76	61	67	63	55	38	39	48	42	60	67
Low	38	22	34	30	25	16	17	11	13	12	27	36
High	134	135	136	122	97	93	75	112	95	109	107	186
Rainfall	Avg	102	71	77	66	78	75	91	99	89	121	113
Low	38	26	29	19	28	30	21	19	21	30	12	11
High	183	123	179	128	146	181	158	188	168	335	199	211

Summary statistics

	For 1981			For record preceding 1981			1981					
										As % of pre 1981		
Mean flow (m³ s⁻¹)	71.770			63.310			113					
Lowest yearly mean				44.220			1972					
Highest yearly mean				82.810			1954					
Lowest monthly mean	23.060	Aug	11.310		Aug	1955						
Highest monthly mean	153.900	Oct	198.700		Dec	1954						
Lowest daily mean	16.120	9 Sep	9.311		16 Aug	1955						
Highest daily mean	535.100	3 Oct	1089.000		17 Aug	1970						
Pest	723.600	2 Oct	1675.000		17 Aug	1970						
10 %ile	163.800		117.200				140					
50 %ile	44.850		48.800				92					
95 %ile	20.260		19.700				103					
Annual total (million cu m)	2263.00		1998.00				113					
Annual runoff (mm)	791		698				113					
Annual rainfall (mm)	1106		1089				102					
[1941-70 rainfall average (mm)]			1168]									

Factors affecting flow regime

● Regulation for HEP

Comment
 Due to the effects of ice, river flows for the period 12th to 30th December are estimated.

Station description
 Velocity-area station. 399 sq km Developed for hydro-electric power production

012001 Dee at Woodend**1981**

Measuring authority: NERPB
 First year: 1929

Grid reference: NO 635956
 Level stn (m OD) 70 49

Catchment area (sq km): 1370 0
 Max alt (m OD): 1310

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	39 680	51 170	19 240	38 260	16 820	17 870	10 650	10 680	6 116	59 180	35 120	40 620
2	101 900	76 520	23 500	33 340	14 690	18 240	10 840	10 010	5 958	276 100	44 010	60 460
3	71 940	48 490	19 610	30 720	15 990	19 570	11 090	9 913	5 824	346 100	40 120	123 800
4	42 650	36 750	18 580	28 210	20 200	17 480	10 550	9 688	5 785	169 000	43 440	88 180
5	35 440	33 320	17 820	28 340	16 310	16 300	10 050	9 115	6 129	100 300	31 120	52 370
6	32 340	59 240	18 290	26 250	14 670	15 380	12 810	8 686	6 677	93 140	26 530	43 450
7	36 860	46 050	110 700	24 760	14 830	16 570	14 470	8 433	6 025	69 960	24 150	34 960
8	107 900	44 820	198 400	22 980	21 960	17 300	11 480	8 267	5 804	59 040	22 690	27 390
9	79 940	30 740	64 520	21 500	20 340	41 270	10 760	8 144	5 634	130 300	22 830	25 180
10	41 890	26 470	61 390	21 620	19 320	43 050	10 500	7 939	6 280	85 510	27 030	23 060
11	42 110	23 270	103 200	25 670	19 460	25 150	10 460	7 830	13 810	61 250	32 210	21 700
12	44 300	26 760	75 330	27 940	19 150	23 090	12 000	7 738	13 060	52 810	27 970	21 040
13	34 850	39 120	51 260	23 240	17 960	21 220	10 890	7 738	12 270	54 710	24 980	20 380
14	76 850	26 060	46 730	20 740	16 620	21 260	9 921	7 730	9 678	41 510	24 060	19 740
15	41 490	22 790	37 700	19 330	15 630	18 060	9 457	7 554	10 210	35 540	23 450	19 100
16	32 040	20 580	31 560	18 670	14 470	16 850	9 732	7 689	10 430	32 350	37 490	19 00
17	32 040	19 280	28 720	18 210	14 430	19 450	14 720	7 761	14 360	29 560	28 870	19 420
18	28 780	19 040	28 400	17 480	13 720	19 570	17 470	7 442	53 720	27 700	29 940	19 100
19	26 820	17 850	25 320	16 750	16 240	17 170	13 780	7 571	29 340	58 260	23 100	18 480
20	25 740	17 410	25 880	15 840	15 250	16 270	11 800	10 100	134 200	35 690	112 000	18 790
21	74 740	15 240	25 810	15 340	16 130	15 690	10 950	10 630	51 550	72 330	58 000	19 100
22	90 870	15 690	22 430	14 810	18 370	14 140	33 260	8 879	30 890	55 840	76 320	18 480
23	111 800	15 630	21 480	14 730	23 430	13 260	47 420	8 091	31 120	37 880	57 830	16 670
24	80 370	15 390	27 130	15 600	25 470	12 740	31 220	7 575	39 770	38 520	39 020	15 800
25	47 840	14 570	140 700	15 260	25 600	12 750	23 380	7 331	26 830	33 100	34 840	15 520
26	83 210	14 870	80 910	14 880	32 580	12 660	19 390	7 120	237 800	28 740	112 300	14 960
27	71 790	14 140	53 430	13 950	24 080	13 880	15 930	6 890	198 300	27 360	107 800	14 960
28	54 030	15 620	167 200	15 020	19 030	12 970	14 760	6 752	89 380	28 880	54 250	14 960
29	68 210		83 040	15 670	17 620	11 870	14 640	6 619	54 160	37 390	42 230	15 520
30	70 570		52 810	17 400	15 410	11 170	12 720	6 447	41 720	27 720	55 410	31 690
31	59 710		43 060		14 870		11 370	6 264		35 020		81 380
Average	57 710	28 820	55 620	21 080	18 410	18 410	15 110	8 149	38 760	72 280	43 970	31 460
Lowest	25 740	14 140	17 820	13 950	13 720	11 170	9 457	6 264	5 634	27 380	22 690	14 960
Highest	111 800	76 520	198 400	38 260	32 580	43 050	47 420	10 680	237 800	346 100	112 300	123 800
Peak flow - Day of peak	160 700	118 200	295 200	41 820	49 510	83 480	57 650	12 310	464 100	586 400	195 900	148 300
Monthly total (million cu m)	154 60	69 71	149 00	54 63	49 30	47 71	40 48	21 83	100 50	193 60	114 00	84 27
Runoff (mm)	113	51	109	40	36	35	30	16	73	141	83	62
Rainfall (mm)	90	56	95	22	66	66	79	22	193	182	103	97

Statistics of monthly data for previous record (Oct 1929 to Dec 1980)

Mean flows	Avg	47 260	40 670	41 240	44 950	35 510	22 030	18 750	22 800	25 120	37 440	46 600	49 220
	Low	15 450	13 420	15 160	11 370	12 130	7 342	7 765	5 228	6 491	6 798	15 020	22 020
	(year)	1940	1947	1973	1938	1946	1940	1976	1955	1972	1972	1958	1976
	High	127 800	90 110	88 680	113 300	77 100	56 080	36 710	63 860	71 820	96 690	107 200	108 400
	(year)	1937	1945	1977	1947	1951	1948	1958	1948	1930	1976	1951	1954
Runoff	Avg	92	72	81	85	69	42	37	44	48	73	88	96
	Low	30	24	30	22	24	14	15	10	12	13	28	43
	High	250	159	173	214	151	106	72	125	136	189	203	212
Rainfall	Avg	118	77	73	71	81	67	92	96	90	115	112	119
	Low	36	10	16	12	28	16	24	13	13	8	22	43
	High	374	148	149	196	179	160	206	185	227	267	260	282

Summary statistics

	For 1981	For record preceding 1981	1981	As % of pre-1981	Factors affecting flow regime
Mean flow (m³ s⁻¹)	34 230	35 930	—	95	• Natural to within 10% at 95 percentile flow
Lowest yearly mean		24 190	1973	—	Comment
Highest yearly mean		45 340	1960	—	Due to the effects of ice, river flows for the period 8th to 29th December are estimated
Lowest monthly mean	8 149	Aug 5 228	Aug 1955	—	
Highest monthly mean	72 280	Oct 127 800	Jan 1937	—	
Lowest daily mean	5 634	9 Sep 3 536	27 Aug 1976	—	
Highest daily mean	346 100	3 Oct 648 500	24 Jan 1937	—	
Peak	586 400	2 Oct 1133 000	24 Jan 1937	—	
10 %ile	72 900	71 220	—	102	
50 %ile	21 850	25 230	—	87	
95 %ile	7 504	8 628	—	87	
Annual total (million cu m)	1079 00	1134 00	—	95	
Annual runoff (mm)	788	828	—	95	
Annual rainfall (mm)	1071	1111	—	96	
(1941-70) rainfall average (mm)		1156	—	—	

Station description

Velocity-area station. The lowest flows prior to 1971 are considered to be of limited accuracy.

015006 Tay at Ballathie**1981**

Measuring authority: TRPB
First year: 1952

Grid reference: NO 147367
Level stn. (m OD) 26.29

Catchment area (sq km): 4587.1
Max alt. (m OD): 1214

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	339 600	216 900	115 500	224 100	65 150	72 200	53 120	43 580	39 480	297 600	295 400	310 400
2	522 600	269 200	193 600	194 500	62 430	73 940	55 050	42 800	38 850	392 400	322 400	291 000
3	474 200	276 400	140 900	169 800	61 450	85 300	56 670	43 330	38 090	472 500	344 600	317 600
4	420 800	253 900	130 800	130 700	65 970	74 140	46 180	46 780	40 910	387 600	332 100	264 600
5	347 000	241 400	112 700	122 100	62 230	80 850	48 390	48 700	44 850	312 400	283 200	220 900
6	316 600	291 000	121 100	138 300	65 970	82 590	58 880	48 690	45 060	270 300	250 200	226 500
7	297 400	316 900	410 600	135 900	72 320	85 620	64 710	49 210	43 230	267 400	234 500	241 400
8	399 000	337 500	734 800	119 300	91 550	127 300	59 310	47 850	42 250	251 600	210 500	177 700
9	324 200	291 800	396 900	146 600	76 320	147 900	57 630	48 350	41 740	373 200	206 400	153 500
10	298 800	260 500	458 600	107 400	69 630	143 800	58 550	49 500	50 590	336 800	201 200	137 400
11	287 300	251 500	447 500	105 200	60 760	110 800	61 160	49 180	77 220	308 200	217 800	117 900
12	285 000	267 600	375 300	96 850	55 920	100 200	67 270	48 900	61 820	271 100	203 500	88 980
13	248 100	270 500	313 600	83 680	54 820	111 400	64 150	46 820	56 320	225 600	198 700	91 110
14	334 700	243 600	271 200	82 770	54 370	133 900	61 050	45 510	52 620	224 300	154 100	136 300
15	280 900	216 800	245 700	81 230	53 640	116 900	58 780	43 230	55 950	195 700	163 600	127 800
16	254 200	194 900	225 600	78 200	55 000	104 500	58 610	44 240	54 120	184 800	207 100	131 600
17	231 500	168 100	204 100	76 570	67 740	97 300	61 300	44 960	86 950	155 500	244 700	125 200
18	223 200	149 400	191 200	75 430	52 750	91 450	63 380	51 890	279 200	146 600	259 200	103 800
19	215 700	155 900	179 900	74 110	58 360	87 560	57 270	58 590	173 600	208 300	229 900	100 700
20	199 600	159 900	174 400	78 460	60 470	82 910	55 860	73 170	399 500	168 700	523 200	88 270
21	241 900	169 500	189 100	76 230	70 700	77 130	54 590	58 240	259 900	164 800	400 200	107 800
22	305 100	150 000	161 400	73 990	87 790	72 920	63 080	56 800	220 200	148 700	417 100	107 500
23	321 500	147 200	169 700	73 260	107 200	64 210	77 890	49 680	234 400	140 600	354 900	106 400
24	300 200	123 100	172 100	74 810	118 900	62 190	69 440	53 300	271 900	128 200	312 900	95 220
25	241 500	117 800	427 700	65 790	110 300	53 840	65 580	45 850	231 900	123 400	286 400	76 630
Average	298 900	208 600	274 400	100 200	72 340	86 380	58 850	47 980	184 400	237 100	290 300	148 500
Lowest	199 600	92 440	112 700	63 160	52 750	47 270	44 640	39 530	38 090	123 400	154 100	69 180
Highest	522 600	337 500	734 800	224 100	118 900	147 900	77 890	73 170	857 600	472 500	523 200	317 600
Peak flow	658 300	428 700	951 400	243 300	159 000	171 200	80 880	78 100	1134 000	517 900	635 300	351 300
Day of peak	2	7	8	1	25	8	23	20	27	3	20	3
Monthly total ^a (million cu m)	800 50	504 60	735 00	259 70	193 80	223 90	157 60	128 50	477 90	635 10	752 40	400 50
Runoff (mm)	175	110	180	57	42	49	34	28	104	138	164	87
Rainfall (mm)	133	105	163	17	99	72	78	23	266	173	196	88

Statistics of monthly data for previous record (Oct 1952 to Dec 1980)

Mean flows (year)	225 100	200 600	191 800	142 900	118 300	81 420	68 780	84 590	114 600	173 300	202 700	237 200
Lowest (year)	92 910	52 560	69 380	75 210	45 500	42 080	37 470	14 690	40 650	39 680	89 160	112 800
Highest (year)	515 800	353 700	424 800	231 200	186 800	190 400	111 500	161 100	195 900	323 400	398 700	491 400
Runoff (mm)	131	107	112	81	69	46	40	49	65	101	115	139
Lowest	54	28	41	43	27	24	22	9	23	50	56	66
Highest	301	187	248	131	109	108	65	94	111	189	225	287
Rainfall: Avg	151	102	111	76	98	87	98	107	122	142	140	164
Lowest	33	31	39	10	26	52	27	14	11	63	38	64
Highest	393	182	224	150	200	181	144	183	193	254	281	271

Summary statistics

	For 1981	For record preceding 1981	1981 As % of pre 1981
Mean flow (m ³ s ⁻¹)	167 100	153 300	109
Lowest yearly mean	107 300	1955	
Highest yearly mean	207 900	1954	
Lowest monthly mean	47 960	Aug 14 690 Aug 1955	
Highest monthly mean	298 900	Jan 515 800 Jan 1974	
Lowest daily mean	38 090	3 Sep 11 460 6 Aug 1955	
Highest daily mean	857 600	27 Sep 1223 000 27 Nov 1954	
Peak	1134 000	27 Sep 1570 000 30 Jan 1974	
10%ile	331 400	287 400	115
50%ile	123 500	125 600	98
95%ile	44 290	44 440	100
Annual total (million cu m)	5270 00	4838 00	109
Annual runoff (mm)	1149	1055	109
Annual rainfall (mm)	1413	1398	101
(1941-70 rainfall average (mm))		1442]	

Factors affecting flow regime**• Regulation for HEP.****Station description**

Velocity-area station 1980 sq km developed for hydro-electric power production, 73 sq km for water supply purposes.

019001 Almond at Craigiehall

1981

Measuring authority FRPB
First year, 1957

Grid reference NT 165752
Level stn (m OD) 22.90

Catchment area (sq km) 369.0
Max alt (m OD) 518

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	14.410	3.066	2.551	2.898	1.172	1.911	1.014	0.904	0.936	67.080	27.740	10.100
2	29.710	24.280	9.587	2.647	1.173	5.733	1.394	0.897	0.928	99.080	19.610	7.227
3	21.270	25.970	4.799	2.447	2.301	2.986	1.150	0.989	0.906	32.570	17.890	7.537
4	9.770	11.490	3.545	2.195	2.958	2.026	0.983	1.035	0.985	17.870	12.020	13.010
5	6.980	8.137	3.486	1.948	1.824	2.493	1.146	0.925	1.864	11.030	7.556	7.981
6	5.921	8.246	25.180	1.988	1.887	2.010	1.270	0.876	1.201	8.020	5.791	6.330
7	7.385	12.540	39.340	1.971	2.268	3.018	1.115	0.866	0.986	7.668	4.687	5.324
8	10.950	8.258	15.870	1.814	1.880	13.140	1.003	0.885	0.997	18.720	4.058	4.144
9	11.430	5.454	9.958	1.717	1.689	9.025	0.996	0.898	0.952	28.990	3.851	3.054
10	6.301	4.195	46.300	1.645	1.624	3.574	1.555	0.936	1.000	13.360	5.439	2.583
11	5.432	3.641	17.130	1.665	1.615	5.757	1.885	0.949	1.076	7.687	12.880	2.513
12	5.895	3.518	11.760	1.800	1.532	3.551	1.222	0.934	0.926	5.444	6.674	2.629
13	4.629	3.104	8.496	1.643	1.518	12.260	1.155	0.929	0.888	4.359	4.699	2.577
14	10.930	2.778	8.762	1.542	1.485	9.990	1.120	0.888	1.591	3.860	3.882	2.618
15	5.663	2.647	7.765	1.485	1.391	4.204	1.052	0.838	2.170	3.320	4.121	2.206
16	4.079	2.363	5.662	1.459	1.958	2.817	1.074	0.832	1.336	2.932	5.268	3.516
17	4.709	2.236	4.759	1.435	2.004	2.279	1.248	0.974	2.375	2.635	9.721	5.488
18	10.410	2.076	4.498	1.379	1.702	1.981	1.295	0.958	5.197	2.825	16.370	6.703
19	12.400	1.977	3.945	1.378	1.626	1.885	1.059	1.168	3.820	3.860	11.340	5.703
20	7.963	1.996	3.970	1.337	1.761	1.653	1.042	1.245	34.720	3.127	29.300	3.813
21	20.040	1.939	8.989	1.320	1.661	1.447	1.464	0.936	9.520	2.600	14.710	4.001
22	9.974	1.837	9.178	1.306	1.614	1.282	4.785	0.845	3.908	2.299	11.840	2.733
23	7.608	1.752	8.699	1.319	1.563	1.310	5.146	0.872	19.270	2.178	12.660	2.303
24	6.370	1.641	9.288	2.206	1.516	1.415	2.349	0.897	13.570	2.307	7.201	2.117
25	5.025	1.604	16.800	2.184	2.296	1.292	1.534	0.940	5.234	2.255	7.388	2.438
26	5.809	1.606	9.668	2.135	2.398	1.363	1.298	0.943	34.960	2.345	23.730	2.506
27	5.209	1.637	6.177	1.747	2.329	1.224	1.179	0.896	22.950	9.546	21.550	1.974
28	4.470	2.276	5.122	1.667	2.082	1.149	1.344	0.878	15.000	11.360	13.010	2.210
29	4.145	4.269	1.525	1.838	1.137	1.174	0.848	7.019	43.150	9.926	8.884	-
30	3.656	3.583	1.465	1.604	1.127	1.059	0.833	4.468	24.610	19.510	14.190	-
31	3.281	3.286	-	2.054	-	1.023	0.755	-	21.640	-	13.960	-
Average	8.767	5.438	10.400	1.776	1.817	3.502	1.504	0.922	6.692	15.120	11.810	5.238
Lowest	3.281	1.604	2.551	1.306	1.172	1.127	0.983	0.755	0.888	2.178	3.851	1.974
Highest	29.710	25.970	46.300	2.898	2.958	13.140	5.146	1.245	34.960	99.080	29.300	14.190
Peak flow	37.170	66.330	81.770	3.005	4.835	29.310	8.822	1.556	68.890	180.500	53.160	18.660
Day of peak	2	2	10	1	25	13	22	19	26	2	20	31
Monthly total (million cu m)	23.48	13.16	27.86	4.60	4.87	9.08	4.03	2.47	17.35	40.50	30.62	14.03
Runoff (mm)	64	36	75	12	13	25	11	7	47	110	83	38
Rainfall (mm)	58	44	116	18	56	79	64	19	159	161	104	40

Statistics of monthly data for previous record (Jan 1957 to Dec 1980)

Mean flows (year)	8.206	7.442	5.792	4.141	3.042	2.195	2.129	3.155	4.135	5.427	8.965	8.661
Lowest (year)	3.574	1.782	1.918	1.409	1.091	0.817	0.951	0.926	0.668	0.668	1.862	3.016
High (year)	15.810	13.740	14.300	8.374	11.170	8.572	9.224	8.434	12.680	14.920	21.660	16.280
(year)	1963	1963	1973	1974	1961	1961	1960	1976	1959	1972	1972	1975
Runoff (year)	60	49	42	29	22	15	15	23	29	39	63	63
Low	26	12	14	10	8	6	7	5	5	13	22	-
High	115	90	104	59	81	60	67	61	89	108	152	118
Rainfall (year)	75	59	56	52	62	60	74	86	81	82	88	78
Low	28	18	22	8	16	24	25	20	14	23	41	21
High	145	107	94	88	123	136	165	142	148	177	190	154

Summary statistics

	For 1981			For record preceding 1981			As % of pre-1981			Factors affecting flow regime		
Mean flow (m³ s⁻¹)	6.089			5.262			116			● Abstraction for public water supplies		
Lowest yearly mean				2.890			1973			● Flow reduced by industrial and/or agricultural abstractions		
Highest yearly mean				6.888			1979			● Augmentation from effluent returns		
Lowest monthly mean	0.922	Aug		0.668	Sep	1959						
Highest monthly mean	15.120	Oct		21.660	Nov	1963						
Lowest daily mean	0.755	31 Aug		0.241	9 Oct	1959						
Highest daily mean	99.080	2 Oct		120.400	22 Nov	1969						
Peak	180.500	2 Oct		180.600	31 Oct	1977						
10 %ile	14.030			12.020			117					
50 %ile	2.608			2.692			97					
95 %ile	0.914			0.844			108					
Annual total (million cu m)	192.00			166.10			116					
Annual runoff (mm)	520			450			116					
Annual rainfall (mm)	918			853			108					
{1941-70 rainfall average (mm)}				916								

Station description
Velocity-area station

021009 Tweed at Norham**1981**

Measuring authority: TWRP
First year: 1959

Grid reference: NT 898477
Level stn. (m OD) 4.27

Catchment area (sq km): 4390.0
Max alt. (m OD): 839

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	129 800	51 670	45 000	79 440	47 770	37 250	23 030	25 570	13 590	287 100	84 980	174 400
2	157 700	67 670	326 400	72 150	38 480	78 520	23 140	24 370	14 070	961 600	167 600	128 800
3	169 100	218 600	186 700	64 050	37 630	80 840	22 600	23 070	13 760	489 400	102 600	112 500
4	130 800	122 200	111 900	58 300	55 660	51 880	22 410	22 870	12 850	277 500	111 700	179 300
5	105 000	92 880	87 650	54 810	43 820	59 370	21 690	22 440	12 440	198 900	78 320	139 900
6	94 210	88 300	126 900	53 210	39 130	63 140	22 390	21 480	12 430	162 600	66 020	113 600
7	82 850	80 310	424 700	50 230	38 190	68 850	25 420	20 910	12 920	145 200	58 820	97 370
8	93 320	76 160	358 500	47 590	47 700	99 380	23 270	20 690	12 750	166 200	53 790	81 520
9	107 700	65 490	189 800	44 170	49 110	158 100	21 040	21 320	12 980	465 300	49 890	66 380
10	84 010	59 360	216 700	41 440	40 990	95 920	19 490	20 460	12 870	291 900	53 090	61 300
11	73 280	54 180	190 700	41 680	38 310	165 700	21 170	19 150	12 770	187 300	74 460	58 040
12	76 520	56 890	138 500	44 690	35 070	123 300	58 920	18 560	15 220	142 600	67 240	55 180
13	65 420	74 780	111 200	42 770	32 570	97 410	37 660	18 680	14 480	115 300	53 950	54 080
14	83 790	56 880	97 950	38 670	30 460	130 700	28 170	18 590	13 490	95 140	48 030	53 020
15	80 410	51 050	88 790	36 440	28 730	83 900	24 530	17 790	14 290	80 080	45 310	51 340
16	60 780	47 730	76 180	34 980	28 130	66 680	23 170	16 870	17 700	68 730	52 810	49 830
17	64 180	44 230	68 850	33 740	43 480	57 820	22 260	16 460	14 760	61 050	50 140	48 350
18	65 190	42 210	68 480	32 280	31 280	51 470	24 520	16 370	18 570	55 440	52 990	48 600
19	82 980	40 020	61 990	31 480	29 810	47 480	22 680	18 800	26 750	68 010	51 310	45 210
20	67 900	39 490	73 850	30 920	31 150	44 160	20 710	20 090	155 700	59 760	117 900	44 040
21	144 400	38 470	117 700	30 400	57 800	40 110	20 500	21 100	82 430	51 160	93 670	43 440
22	164 300	36 830	129 900	29 990	45 250	36 680	96 390	17 900	37 120	46 080	91 310	43 040
23	114 100	35 350	131 300	29 420	43 830	34 040	309 600	16 580	27 780	42 560	332 400	42 030
24	95 290	33 650	238 600	33 830	46 410	34 090	129 900	15 770	150 600	41 310	194 600	49 600
25	81 830	32 030	326 800	45 430	43 240	37 800	70 310	15 260	74 210	39 840	127 900	47 030
Average	92 900	60 870	154 800	50 550	40 830	66 200	43 650	18 550	57 740	158 700	103 500	81 600
Lowest	55 590	31 040	45 000	29 420	26 730	26 260	19 490	13 680	12 430	35 490	45 310	41 260
Highest	169 100	218 600	424 700	110 400	57 600	165 700	309 600	25 570	360 200	961 600	332 400	238 900
Peak flow	234 400	322 400	598 300	143 900	78 270	268 400	408 300	28 330	551 200	1077 000	582 800	281 400
Day of peak	21	3	7	28	21	11	23	1	26	2	23	31
Monthly total (million cu m)	248 80	147.30	414.50	131.00	109.40	171.60	116.90	49.70	149.70	425.10	268.20	218.80
Runoff (mm)	57	34	94	30	25	39	27	11	34	97	81	50
Rainfall (mm)	50	46	138	39	79	80	95	21	143	145	106	69

Statistics of monthly data for previous record (Oct 1962 to Dec 1980)

Mean flows	Avg	114 700	102 400	100 400	66 280	56 630	34 820	28 950	42 820	53 910	75 140	110 000	110 800
(year)	Low	50 320	37 180	26 290	25 180	17 950	15 550	15 920	9 883	10 990	10 180	24 710	40 700
	High	1973	1963	1973	1974	1980	1974	1976	1976	1972	1972	1973	1975
(year)	1975	1978	1963	1979	1987	1986	1986	1985	1986	1985	1987	1963	1979
Runoff	Avg	70	57	61	39	35	21	18	26	32	46	65	68
Low	31	20	16	15	11	9	10	6	6	6	15	25	
High	124	95	144	84	94	32	41	71	74	108	160	121	
Rainfall	Avg	92	67	75	.80	75	67	71	94	88	98	87	
Low	45	23	21	12	22	25	24	31	19	25	29	23	
High	158	125	138	84	181	129	140	188	184	183	220	175	

Summary statistics

	For 1981	For record preceding 1981	1981	Factors affecting flow regime
			As % of pre-1981	• Reservoir(s) in catchment • Abstraction for public water supplies.
Mean flow (m³ s⁻¹)	77 710	74 820	104	
Lowest yearly mean		33 910	1973	
Highest yearly mean		102 400	1963	
Lowest monthly mean	18 550	Aug 9 883	Aug 1976	
Highest monthly mean	158 700	Oct 271 700	Nov 1963	
Lowest daily mean	12 430	6 Sep 7 427	28 Aug 1976	
Highest daily mean	981 600	2 Oct 1042 000	6 Mar 1963	
Peak	1077 000	2 Oct 1463 000	31 Oct 1977	
10 %ile	163 000	158 100	103	
50 %ile	52 640	50 830	104	
95 %ile	14 680	14 070	104	
Annual total (million cu m)	2451.00	2355.00	104	
Annual runoff (mm)	558	538	104	
Annual rainfall (mm)	1011	964	105	
[1941-70 rainfall average (mm)]		1039]		

Station description
Velocity-area station

022001 Coquet at Morwick**1981**

Measuring authority NWA
First year 1966

Grid reference NU 234044
Level stn (m OD) 5 25

Catchment area (sq km) 569 8
Max alt (m OD) 776

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	6 827	4 724	23 210	8 645	8 103	3 786	1 918	2 591	1 449	39 820	4 093	19 560
2	6 407	8 746	173 000	7 837	6 149	12 770	1 921	2 432	1 432	90 370	5 277	12 250
3	6 851	21 580	41 400	6 158	5 567	6 725	2 055	2 280	1 396	30 640	4 449	10 440
4	5 883	9 486	20 220	5 456	6 454	4 215	2 064	2 113	1 356	21 270	4 192	25 450
5	5 094	7 197	14 690	5 247	5 631	3 590	1 940	2 054	1 332	16 670	3 696	13 440
6	5 019	6 801	26 030	5 581	5 818	3 263	1 898	2 013	1 362	13 450	3 381	10 480
7	4 842	5 947	51 250	5 427	5 234	4 384	1 825	2 085	1 366	15 920	3 188	8 775
8	6 464	5 322	28 440	5 282	1 980	8 637	1 766	2 170	1 341	29 830	3 124	7 124
9	6 767	4 959	15 400	4 635	9 618	6 054	1 709	2 461	1 323	56 190	3 272	5 549
10	5 774	4 600	35 740	4 311	8 130	4 430	1 662	2 154	1 397	29 940	5 652	5 144
11	6 229	4 249	21 810	4 786	6 075	18 880	3 107	1 927	1 624	14 780	5 349	4 276
12	10 870	4 366	15 960	5 479	4 987	9 905	8 589	1 825	1 906	10 550	4 848	4 552
13	6 319	4 301	11 570	4 792	4 405	6 139	4 018	1 841	1 744	8 623	4 014	4 926
14	11 370	3 954	18 980	4 207	4 075	5 763	2 855	1 887	1 610	7 358	3 548	6 973
15	7 751	3 821	11 860	3 870	3 759	4 531	2 408	1 736	2 087	6 512	3 339	5 791
16	5 022	3 765	9 926	3 645	4 695	3 786	2 376	1 655	2 094	5 73	3 259	4 422
17	6 156	3 642	9 076	3 452	5 665	3 733	2 374	1 644	1 774	5 205	3 241	2 949
18	6 345	3 532	8 609	3 209	4 188	3 165	2 356	1 643	1 695	4 846	4 254	3 620
19	7 744	3 441	8 768	3 086	3 975	3 059	2 071	1 630	2 404	4 891	3 830	3 454
20	6 186	3 464	13 740	3 011	3 847	2 951	2 055	1 783	16 050	4 642	7 152	4 424
21	21 390	3 386	17 600	2 897	4 273	2 766	2 154	1 972	5 457	4 443	6 349	4 996
22	14 460	3 177	25 230	2 842	5 178	3 219	16 870	1 692	3 469	4 287	5 047	4 605
23	9 719	3 054	30 270	2 821	4 580	1 779	50 990	1 598	2 729	4 041	45 240	4 125
24	7 892	3 057	39 730	6 062	4 379	2 382	17 830	1 544	4 238	4 064	16 960	5 684
25	6 780	3 068	36 260	15 460	3 578	2 395	8 95	1 517	4 054	4 129	9 834	4 531
26	8 019	3 125	16 360	14 390	3 169	2 387	6 049	1 487	54 020	3 894	9 512	4 132
27	8 078	3 014	11 550	7 600	2 999	2 427	4 633	1 462	22 350	3 685	19 630	5 278
28	6 710	18 230	9 595	27 390	2 908	2 245	3 909	1 463	10 140	3 514	13 120	10 100
29	5 975	7 945	28 270	3 124	2 094	3 463	1 471	6 833	3 823	9 829	38 790	
30	5 382	7 083	13 760	2 854	1 982	2 996	1 467	6 828	3 745	43 300	54 040	
31	5 031	6 471		3 174		2 740	1 446		3 963		46 670	
Average	7 528	5 643	24 770	7 654	5 115	4 781	5 534	1 840	5 562	14 870	8 733	11 180
Lowest	4 842	3 014	6 471	2 821	2 854	1 779	1 662	1 446	1 323	3 514	3 124	2 949
Highest	21 390	21 580	173 000	28 270	31 980	18 880	50 990	2 591	54 020	90 370	45 240	54 040
Peak flow	35 570	37 460	243 600	45 380	22 880	39 120	9 500	2 690	96 340	112 500	84 010	77 810
Day of peak	21	3	2	28	8	11	23	1	26	2	23	30
Monthly total (million cu m)	20 16	13 65	66 34	19 84	13 70	12 39	14 82	4 93	14 42	39 82	22 63	29 94
Runoff (mm)	35	24	116	35	24	22	26	9	25	70	40	53
Rainfall (mm)	38	41	144	55	61	60	95	18	119	111	82	82

Statistics of monthly data for previous record (Sep 1966 to Dec 1980)

Mean flows (year)	15 380	14 520	12 740	7 753	6 136	3 506	3 065	3 68*	4 193	7 777	10 730	12 960
Lowest (year)	5 421	2 673	1 730	2 928	2 155	1 141	1 549	1 651	1 418	1 083	1 926	4 563
Highest (year)	19 73	19 73	19 73	19 74	19 74	19 70	19 75	19 76	19 72	19 72	19 73	19 71
Peak (year)	27 680	26 350	31 390	3 470	14 190	6 355	7 969	9 366	14 170	26 860	21 860	33 340
Rainfall (mm)												
Avg	89	67	77	51	68	55	66	74	72	75	84	83
Low	45	15	18	8	18	8	19	28	15	19	19	31
High	140	120	141	76	127	129	101	132	215	176	165	251

Summary statistics

	For 1981	For record preceding 1981	1981	As % of pre-1981	Factors affecting flow regime
Mean flow ($m^3 s^{-1}$)	8 645	8 515	102		● Natural to within 10% at 95 percentile flow
Lowest yearly mean		3 716	1973		
Highest yearly mean		11 380	1969		
Lowest monthly mean	1 840	Aug 1 083	Oct 1972		
Highest monthly mean	24 770	Mar 33 340	Dec 1978		
Lowest daily mean	1 323	9 Sep 0 721	20 Jun 1970		
Highest daily mean	17 3 000	2 Mar 147 800	5 Nov 1967		
Peak	243 600	2 Mar 218 000	27 Oct 1978		
10%ile	18 700	18 240	103		
50%ile	4 605	4 804	96		
95%ile	1 582	1 304	121		
Annual total (million cu m)	272 60	268 70	101		
Annual runoff (mm)	478	472	101		
Annual rainfall (mm)	906	861	105		
[1941-70 rainfall average (mm)]		880			

Station description
Velocity area station. Informal flat V weir installed 1976

023006 South Tyne at Featherstone**1981**

Measuring authority: NWA
First year: 1966

Grid reference: NY 672611
Level stn. (m OD) 131.70

Catchment area (sq km): 321.9
Max alt. (m OD): 893

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	36 090	4 254	3 244	4 321	7 653	2 918	2 434	2 254	1 325	122 400	44 540	12 750
2	72 590	76 940	13 240	4 088	4 994	15 630	2 346	2 123	1 310	67 140	17 540	9 842
3	31 850	27 200	6 442	3 683	28 580	5 608	2 175	1 985	1 265	23 280	12 150	14 620
4	12 080	11 320	4 567	3 382	15 920	3 838	1 844	1 954	1 212	16 230	9 452	28 190
5	8 052	13 760	4 828	3 202	6 884	4 346	4 127	1 870	1 174	19 410	6 499	9 964
6	7 022	13 600	42 080	3 060	6 336	6 083	4 585	1 769	1 207	13 000	5 455	7 753
7	9 587	9 583	59 700	3 173	5 483	6 235	2 982	1 832	1 216	27 710	4 867	6 413
8	27 930	7 267	26 080	3 100	4 896	9 214	2 248	2 287	1 203	58 150	4 398	4 541
9	27 280	6 070	10 810	2 930	4 119	9 866	1 960	2 350	1 185	79 120	4 114	3 651
10	8 578	5 021	52 390	2 712	4 298	10 070	1 749	1 903	1 168	21 240	20 390	3 085
11	7 617	4 332	30 070	2 569	3 697	43 090	2 063	1 713	2 021	11 040	33 910	2 915
12	13 280	4 802	16 110	3 441	3 087	9 384	2 162	1 665	1 921	8 342	9 470	2 679
13	27 080	4 897	9 744	9 229	2 719	15 970	1 924	1 679	1 561	7 400	6 996	3 074
14	45 600	3 923	12 470	4 938	2 517	21 540	1 734	1 722	1 381	6 280	5 938	3 185
15	10 110	3 641	7 646	3 354	2 534	7 010	1 682	1 637	3 151	5 396	5 808	3 102
16	7 524	3 721	6 049	2 859	5 311	5 140	7 021	1 565	2 233	4 945	7 406	2 650
17	15 830	3 384	5 385	2 542	3 356	4 662	9 874	1 504	2 139	4 518	25 370	2 228
18	13 930	3 031	9 033	2 338	3 140	4 129	4 919	1 798	8 330	4 179	26 840	2 238
19	12 720	2 874	21 280	2 208	3 352	4 412	5 799	17 280	44 370	6 216	13 800	2 407
20	7 938	2 896	13 580	2 147	5 694	3 868	25 690	9 824	21 090	5 141	25 740	3 380
21	44 910	2 700	44 520	2 091	6 272	3 193	11 310	3 929	6 642	4 605	12 760	3 192
22	18 780	2 381	20 820	2 050	4 658	2 811	38 180	2 827	10 210	4 023	10 740	2 815
23	11 230	2 341	67 770	2 023	5 115	2 615	33 480	2 314	33 090	3 632	62 290	2 586
24	10 470	2 252	38 450	2 019	4 428	2 622	13 750	2 054	29 220	5 956	11 890	2 576
25	7 858	2 288	40 150	2 466	3 397	2 597	6 515	1 955	16 090	6 515	29 020	2 532
26	11 060	2 165	17 940	3 415	13 680	2 544	5 735	1 781	67 880	7 064	94 630	2 491
27	8 390	2 166	10 210	3 955	23 800	2 419	4 094	1 569	33 720	25 710	35 840	2 385
28	6 439	2 319	7 456	10 230	7 571	2 246	3 430	1 460	29 760	21 490	16 620	2 477
29	5 596	5 835	39 840	4 327	2 088	2 992	1 415	19 690	16 930	18 120	5 085	
30	5 084	5 148	31 270	3 317	2 084	2 601	1 379	14 780	11 420	51 460	11 730	
31	4 605		4 506		3 029		2 398	1 334		10 150		15 070
Average	17 160	8 237	19 920	5 621	6 586	7 274	6 881	2 669	12 030	20 280	21 140	5 858
Lowest	4 605	2 165	3 244	2 019	2 517	2 084	1 682	1 334	1 168	3 632	4 114	2 228
Highest	72 590	76 940	67 770	39 840	28 580	43 090	38 180	17 280	67 880	122 400	94 630	28 190
Peak flow	115 700	229 000	200 600	55 590	94 360	93 340	93 340	32 280	223 900	238 900	275 200	70 730
Day of peak	2	2	23	29	27	11	22	19	26	1	26	3
Monthly total (million cu m)	45 97	19 93	53 36	14 57	17 64	18 86	18 43	7 15	31 19	54 31	54 78	15 69
Runoff (mm)	143	62	166	45	55	59	57	22	97	169	170	49
Rainfall (mm)	119	63	176	68	99	102	107	55	189	193	192	62

Statistics of monthly data for previous record (Oct 1966 to Dec 1980—Incomplete or missing months total 0 2 years)

Mean flows	Avg	14 950	12 130	12 620	9 012	6 255	4 770	4 637	6 422	9 222	11 690	15 420	14 670
Lowest	Low	10 540	5 122	5 860	1 850	1 311	1 465	1 329	0 960	1 477	1 181	6 793	5 110
(year)		1970	1968	1975	1974	1980	1978	1976	1976	1972	1972	1968	1971
Highest	High	25 510	19 760	30 210	16 210	12 250	12 740	9 385	13 140	17 780	30 330	22 890	28 810
(year)		1975	1974	1979	1979	1967	1980	1968	1967	1968	1967	1974	1974
Runoff	Avg	124	92	105	73	52	38	39	53	74	97	124	122
Low	88	40	49	15	11	12	11	11	8	12	10	55	43
High	212	148	251	131	102	103	78	109	143	252	184	240	
Rainfall	Avg	127	88	110	73	84	87	96	107	124	126	140	124
Low	74	31	44	11	40	44	43	25	40	27	63	42	
High	213	166	199	133	178	215	141	182	239	331	240	215	

Summary statistics

	For 1981	For record preceding 1981	1981	As % of pre-1981	Factors affecting flow regime
Mean flow (m³/s)	11 160	10 140	110		• Natural to within 10% at 95 percentile flow
Lowest yearly mean		7 630	1971		
Highest yearly mean		12 920	1979		
Lowest monthly mean	2 669	Aug 0 960	Aug 1976		
Highest monthly mean	21 140	Nov 30 330	Oct 1967		
Lowest daily mean	1 168	10 Sep 0 713	26 Aug 1976		
Highest daily mean	122 400	1 Oct 168 200	23 Mar 1968		
Peak	275 200	26 Nov 283 700	10 Dec 1980		
10 %ile	28 510	23 420		122	
50 %ile	5 027	5 126		98	
95 %ile	1 595	1 368		117	
Annual total (million cu m)	351 90	320 00		110	
Annual runoff (mm)	1093	994		110	
Annual rainfall (mm)	1425	1286		111	
(1941-70 rainfall average (mm))		1441			

Station description

Compound Crump weir Two crests 15.2 m and 29.6 m broad

025001 Tees at Broken Scar**1981**

Measuring authority NWA
First year 1956

Grid reference NZ 259137
Level stat (m OD) 37 20

Catchment area (sq km) 818 4
Max alt (m OD) 893

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	27 330	12 230	14 680	9 527	19 190	7 340	4 365	3 020	3 646	222 700	33 670	32 970
2	133 600	83 220	69 060	9 124	10 480	32 100	4 037	3 291	3 650	129 700	27 410	20 620
3	77 690	65 170	28 460	6 952	15 710	14 070	3 661	2 858	2 990	56 610	19 160	21 630
4	29 110	28 520	15 470	5 972	26 540	8 005	4 278	3 077	2 905	59 290	19 540	53 480
5	19 510	25 050	11 630	5 430	13 230	7 852	4 272	3 100	2 875	48 270	13 720	22 680
6	17 590	30 280	42 500	4 978	12 120	10 150	5 298	4 067	2 929	36 610	12 310	17 530
7	10 750	22 720	140 600	4 699	9 798	11 850	4 034	3 392	3 138	69 570	11 460	15 760
8	22 270	20 330	66 570	4 441	8 819	25 800	3 504	3 490	3 003	107 100	10 940	12 670
9	74 330	18 920	23 490	3 842	7 487	23 830	3 329	3 422	3 005	102 500	10 870	9 115
10	14 390	17 030	88 280	3 969	10 560	15 180	3 490	3 043	3 086	54 250	11 010	2 777
11	10 560	15 370	55 360	4 342	7 578	35 980	4 098	3 192	3 694	28 660	26 380	9 840
12	20 380	15 660	31 970	13 400	5 546	20 190	4 059	3 392	4 024	21 820	15 170	8 755
13	11 180	16 730	17 840	11 700	4 051	10 460	3 852	3 485	3 089	18 930	11 700	9 963
14	94 470	15 750	13 010	6 085	5 230	14 630	3 898	3 400	3 346	17 160	10 260	11 630
15	24 170	15 450	11 450	4 506	5 147	9 704	3 916	2 998	5 606	15 680	9 882	10 630
16	13 460	13 350	9 145	4 154	8 806	6 786	5 492	2 891	2 808	13 570	8 767	8 613
17	21 660	6 115	8 389	3 936	7 554	4 823	7 128	3 185	3 610	8 568	19 720	7 955
18	21 240	5 446	9 322	3 805	4 815	4 044	6 735	3 511	10 060	8 198	52 810	8 315
19	31 790	4 998	14 630	4 079	6 469	4 336	3 793	8 539	44 780	8 699	19 840	8 597
20	17 010	4 909	30 830	3 502	4 208	4 417	11 530	11 210	48 900	7 923	46 660	10 850
21	76 790	3 884	121 800	3 441	5 877	3 918	14 140	4 392	18 940	7 673	19 100	10 120
22	57 630	3 327	100 100	3 872	9 034	3 801	11 990	4 089	7 859	7 098	18 740	9 620
23	30 580	3 298	105 900	3 943	12 740	3 809	17 420	3 781	5 699	6 668	124 600	9 012
24	21 160	3 463	80 640	6 060	10 070	4 083	10 010	3 865	17 660	7 384	34 910	9 701
25	15 800	3 936	100 300	14 010	7 071	3 873	4 375	3 784	11 150	12 400	22 920	7 462
26	18 220	3 810	50 160	15 690	11 850	3 756	3 947	3 833	104 000	8 099	70 970	8 029
27	15 630	3 444	23 860	28 160	23 610	3 736	3 981	3 730	32 910	6 154	94 570	9 554
28	13 170	6 131	17 900	84 000	18 830	3 536	2 894	3 658	30 110	14 330	44 180	10 090
29	12 230		11 370	74 120	8 948	3 537	3 326	3 166	19 500	22 830	26 240	17 260
30	11 570		9 342	43 070	5 696	4 121	2 834	3 789	3 7280	13 290	90 550	44 530
31	12 430		7 970		5 482		2 830	3 777		16 950		43 870
Average	29 930	16 730	42 970	13 150	10 080	10 320	5 565	3 885	14 880	37 380	31 270	15 600
Lowest	10 560	3 298	7 970	3 441	4 051	3 536	2 830	2 856	2 808	6 154	8 767	2 777
Highest	133 600	83 220	140 600	84 000	26 540	35 980	17 420	11 210	104 000	222 700	124 600	53 480
Peak flow	187 700	290 600	318 000	137 000	44 020	105 100	35 850	24 600	254 900	467 400	298 800	129 400
Day of peak	14	2	21	28	27	2	20	19	26	1	23	30
Monthly total (million cu m)	80 15	40 48	115 10	34 09	26 99	26 76	14 91	10 40	38 56	100 10	81 05	41 79
Runoff (mm)	98	49	141	42	33	33	18	13	47	122	99	51
Rainfall (mm)	86	66	172	80	94	64	53	45	187	176	135	87

Statistics of monthly data for previous record (Oct 1956 to Dec 1980)

Mean flows	Avg	27 410	23 810	22 200	18 640	10 080	5 901	6 328	9 906	11 040	17 020	21 710	27 450
	Low	2 906	2 804	5 482	2 539	2 008	0 502	1 794	0 458	0 638	2 707	4 060	5 778
	(year)	1963	1963	1975	1957	1959	1957	1969	1959	1959	1969	1958	1971
	High	48 070	51 540	68 660	60 870	27 020	15 270	15 090	24 830	24 350	53 940	51 580	50 040
	(year)	1962	1966	1979	1977	1967	1972	1961	1968	1967	1963	1979	
Runoff													
	Avg	90	71	73	59	33	19	21	32	35	56	69	90
	Low	10	8	18	8	7	2	6	2	2	9	13	19
	High	157	152	225	193	88	48	49	81	77	177	163	164
Rainfall													
	Avg	117	90	92	76	80	74	87	102	96	100	110	122
	Low	51	23	29	10	18	22	32	23	19	27	25	43
	High	183	175	224	150	167	182	150	190	222	226	221	268

Summary statistics

	For 1981	For record preceding 1981	1981	As % of pre-1981	Factors affecting flow regime
Mean flow ($m^3 s^{-1}$)	19 350	16 770	115		● Reservoir(s) in catchment
Lowest yearly mean		9 383	1973		● Abstraction for public water supplies
Highest yearly mean		23 220	1979		● Augmentation from surface water and/or groundwater
Lowest monthly mean	3 885	Aug 0458	Aug 1959		
Highest monthly mean	42 970	Mar 68 660	Mar 1979		
Lowest daily mean	2 777	10 Dec 0 023	16 Oct 1959		
Highest daily mean	222 700	1 Oct 317 200	6 Mar 1963		
Peak	467 400	1 Oct 679 300	23 Mar 1968		
10%ile	48 060	42 730	112		
50%ile	10 070	7 551	133		
95%ile	3 101	1 148	270		
Annual total (million cu m)	610 20	529 30	115		
Annual runoff (mm)	746	647	115		
Annual rainfall (mm)	1245	1146	109		
[1941-70 rainfall average (mm)]		1226			

Station description

Compound Crump weir 64 m broad with two low sills each 4.6 m broad. Excess flows from Cocker Beck (R Skerne) diverted into catchment via Baydale Beck. See 025010 Mowden Bridge

027002 Wharfe at Flint Mill Weir

1981

Measuring authority: YWA
First year: 1937

Grid reference: SE 422473
Level sea (m OD): 13.67

Catchment area (sq km): 758.9
Max alt. (m OD): 704

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	30 050	8 281	15 870	14 420	22 270	5 921	2 500	2 443	1 772	99 550	32 840	31 150
2	66 960	25 360	66 280	12 700	13 220	32 640	2 579	2 187	1 671	73 680	54 480	19 670
3	88 850	116 200	39 600	10 480	17 490	17 890	2 466	2 049	1 695	34 560	24 030	15 870
4	39 660	40 750	19 680	9 338	22 050	10 500	2 418	1 807	1 693	37 050	17 760	23 220
5	22 710	24 700	14 360	8 577	12 940	13 960	2 406	1 909	1 689	21 700	13 110	19 370
6	18 690	23 660	53 220	8 091	14 360	11 580	8 252	5 824	1 641	32 070	10 660	14 590
7	14 870	20 880	126 800	7 834	12 220	15 840	5 452	11 920	1 645	59 480	9 159	12 750
8	21 740	29 340	88 460	7 332	9 607	16 360	3 986	6 625	1 705	75 510	8 100	10 840
9	45 630	56 800	42 960	6 990	8 631	14 420	3 613	7 703	1 617	86 410	7 421	9 115
10	23 940	29 890	89 850	6 621	9 068	16 040	3 756	5 984	1 913	67 490	7 766	8 239
11	15 650	19 080	77 250	6 763	8 522	25 690	3 005	3 595	2 278	34 280	40 790	7 570
12	25 110	15 480	51 870	7 075	6 431	24 020	2 439	2 644	2 229	22 090	21 040	8 032
13	17 660	14 120	33 200	6 798	5 527	12 610	2 348	2 622	2 126	17 040	12 450	6 066
14	57 440	12 360	23 830	6 193	4 962	21 120	2 153	2 448	2 018	13 720	9 967	7 517
15	33 320	10 720	19 850	5 602	4 685	17 100	1 908	4 148	5 107	11 430	8 681	6 659
16	19 470	9 991	16 280	5 228	5 344	11 740	1 919	2 976	5 270	9 656	10 220	5 355
17	59 410	9 815	13 770	4 497	6 368	8 718	1 937	2 445	4 643	8 532	9 787	4 487
18	38 560	8 847	21 710	4 405	5 723	7 238	1 970	2 127	21 800	7 783	50 810	4 411
19	50 010	8 027	75 710	4 239	7 178	6 429	2 140	2 246	26 160	14 600	31 480	4 911
20	32 380	7 354	87 200	4 264	6 432	6 090	2 518	10 980	64 170	18 810	36 830	8 870
21	49 680	6 937	114 400	4 114	10 060	5 480	10 590	6 734	25 920	11 690	29 090	6 930
22	42 470	6 628	139 700	3 999	11 700	4 808	9 276	4 167	14 590	8 974	46 920	6 236
23	24 730	6 550	108 300	3 936	15 660	4 364	12 430	3 163	10 020	7 672	45 760	5 725
24	21 010	6 138	97 560	6 400	12 970	3 960	9 304	2 676	10 880	12 030	31 170	5 640
25	17 140	6 012	72 650	21 670	12 030	3 478	5 644	2 427	9 123	26 760	18 430	4 899
26	14 740	5 952	54 330	19 960	17 500	3 180	4 030	2 159	74 610	13 810	33 270	4 365
27	14 620	5 837	33 730	25 400	12 060	2 945	3 707	2 056	59 040	14 160	100 300	5 597
28	12 210	7 775	24 390	41 350	13 140	2 799	3 265	2 058	51 310	29 130	45 130	5 356
29	10 880		19 110	62 220	9 065	2 738	2 853	2 014	25 450	37 970	30 080	14 590
30	9 819		15 770	44 500	7 198	2 635	2 653	1 992	47 320	31 810	38 250	38 230
31	8 981		13 610		6 414		2 426	1 913		52 440		45 400
Average	30 590	19 390	53 940	12 700	10 670	11 080	4 063	3 743	15 870	32 000	27 860	11 860
Lowest	8 981	5 837	13 610	3 936	4 685	2 635	1 908	1 807	1 617	7 672	7 421	4 365
Highest	88 850	116 200	139 700	67 720	22 270	32 640	12 430	11 920	74 610	99 550	100 300	45 400
Peak flow	117 300	265 000	200 900	71 070	41 680	53 880	19 110	18 070	143 600	139 000	164 400	80 770
Day of peak	3	3	22	29	3	2	21	20	26	1	27	30
Monthly total (million cu m)	81 94	46 91	144 50	32 92	28 58	28 71	10 88	10 03	41 14	85 70	72 21	31 77
Runoff (mm)	108	62	190	43	38	38	14	13	54	113	95	42
Rainfall (mm)	100	88	222	77	88	75	58	64	170	178	122	73

Statistics of monthly data for previous record (Jan 1937 to Dec 1980—Incomplete or missing months total 17 7 years)

Mean	Avg	26 530	24 460	20 150	15 750	11 300	7 262	8 303	12 070	13 610	17 430	22 760	27 110
Bows	Low	4 471	2 974	6 741	4 497	2 312	1 546	1 675	0 992	1 420	3 026	5 027	10 230
(year)		1963	1983	1961	1974	1980	1957	1976	1976	1959	1972	1937	1963
High	High	39 260	54 590	53 890	35 240	26 750	18 570	16 440	41 340	33 520	54 000	51 090	82 090
(year)		1961	1966	1979	1970	1967	1972	1963	1956	1968	1967	1963	1965
Runoff. Avg													
Low													
High													
Rainfall. Avg													
Low													
High													

Summary statistics

	For 1981	For record preceding 1981	1981	Factors affecting flow regime
			Avg % of pre 1981	
Mean flow (m³ s⁻¹)	19 510	17 200	113	
Lowest yearly mean		11 420	1975	
Highest yearly mean		23 300	1966	
Lowest monthly mean	3 743	Aug 0 992	Aug 1976	● Reservoir(s) in catchment
Highest monthly mean	53 940	Mar 62 090	Dec 1965	● Abstraction for public water supplies
Lowest daily mean	1 617	9 Sep 0 425	23 Jun 1957	● Flow reduced by industrial and/or agricultural abstractions.
Highest daily mean	139 700	22 Mar 233 600	4 Dec 1960	● Augmentation from surface water and/or groundwater.
Peak	265 000	3 Feb 325 600	31 Mar 1969	
10%ile	49 850	40 620	123	
50%ile	10 650	9 682	110	
95%ile	2 002	2 254	89	
Annual total (million cu m)	615 30	542 80	113	
Annual runoff (mm)	811	715	113	
Annual rainfall (mm)	1315	1125	117	
(1941-70 rainfall average (mm))		1161		

Station description

Broad crested weir, 47.3 m broad, rated by current meter gauging from a cableway 1.5 km upstream of the station. Pre-1/10/65 rating may be less reliable.

027025 Rother at Woodhouse Mill**1981**

Measuring authority YWA
First year, 1961

Grid reference SK 432857
Level stn (m OD) 28 72

Catchment area (sq km) 352 2
Max alt (m OD) 367

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	3 474	2 944	13 650	8 415	9 706	4 213	1 761	1 300	1 371	4 738	3 077	6 086
2	4 090	5 507	26 980	5 772	7 273	9 861	1 852	1 298	1 241	3 862	2 890	4 668
3	4 350	11 120	24 770	4 917	7 037	5 075	1 960	1 318	1 281	3 391	2 767	4 120
4	3 703	6 967	11 550	4 514	6 207	4 012	1 753	1 334	1 213	4 588	2 586	4 554
5	3 456	5 037	8 422	4 231	6 458	3 548	1 762	3 531	1 211	3 208	2 352	3 936
6	4 120	4 370	7 230	4 124	6 433	3 471	1 804	7 705	1 230	3 894	2 224	4 083
7	3 759	4 083	7 841	4 134	5 319	3 424	1 659	6 078	1 356	4 111	2 198	4 022
8	3 743	8 489	6 845	3 968	4 771	3 266	1 642	2 986	1 504	9 449	2 176	3 516
9	3 604	43 120	15 670	3 975	5 909	2 962	2 072	2 445	1 288	10 810	2 099	3 135
10	3 327	20 850	24 950	3 600	8 683	2 933	1 945	2 012	2 770	15 990	2 092	2 966
11	3 079	10 870	31 540	4 037	5 684	3 073	1 751	1 802	2 722	8 428	2 104	2 853
12	4 345	8 661	15 560	3 624	4 665	2 886	1 748	1 685	2 983	5 762	2 161	2 503
13	3 337	7 268	11 400	3 613	4 352	2 526	1 730	1 542	1 601	4 499	2 060	2 617
14	6 063	6 041	18 120	3 182	3 792	3 104	1 682	1 537	2 573	3 800	2 046	3 323
15	5 042	5 337	12 220	3 042	3 696	3 002	1 675	1 464	2 995	3 214	2 047	3 156
16	5 871	4 920	8 745	2 924	4 160	2 440	1 767	1 409	1 671	2 802	2 065	2 696
17	10 560	4 447	7 165	2 824	4 848	2 328	1 739	1 527	1 642	2 566	2 208	2 422
18	7 363	4 120	6 545	2 693	4 385	2 271	1 646	1 500	2 148	2 432	10 640	2 377
19	7 207	3 841	5 914	2 560	3 812	2 275	1 558	1 540	8 037	4 237	5 228	2 231
20	6 037	3 603	5 251	2 470	12 470	2 291	1 661	1 608	4 991	12 390	6 335	2 961
21	11 830	3 476	24 440	2 468	9 035	2 155	1 625	1 423	2 427	5 330	4 767	3 294
22	7 057	3 488	28 630	2 654	5 215	2 126	1 799	1 380	1 942	3 926	3 902	2 969
23	5 704	3 759	24 500	2 610	4 697	2 057	2 069	1 433	1 699	3 242	5 670	2 933
24	4 967	3 348	15 250	7 521	4 053	2 191	1 698	1 410	1 705	7 004	5 324	2 982
25	4 435	3 250	12 440	32 380	11 190	1 953	1 612	1 358	2 145	7 033	4 134	2 667
Average	4 878	7 546	13 500	9 896	6 277	2 961	1 688	1 947	3 111	5 275	3 878	6 067
Lowest	3 009	2 944	4 877	2 468	3 696	1 792	1 263	1 245	1 711	2 432	2 046	2 231
Highest	11 830	43 120	31 540	47 690	12 470	9 861	2 072	7 705	12 500	15 990	10 640	42 610
Peak flow	15 080	51 230	46 120	52 390	19 620	15 450	3 102	13 670	20 310	26 270	16 140	58 680
Day of peak	21	9	2	27	20	2	3	6	30	10	18	31
Monthly total (million cu m)	13 06	18 26	36 16	25 65	16 81	7 68	4 52	5 21	8 06	14 13	10 05	16 25
Runoff (mm)	37	52	103	73	48	22	13	15	23	40	29	46
Rainfall (mm)	55	85	132	109	86	38	27	59	124	91	59	79

Statistics of monthly data for previous record (Oct 1961 to Dec 1980—Incomplete or missing months total 2 6 years)

Mean flows (year)	6 200	7 233	6 354	4 762	3 637	2 350	1 972	2 012	2 195	2 650	4 623	6 123
Low	1 287	1 424	1 830	1 400	1 569	1 166	0 934	0 760	0 712	0 693	1 023	2 393
High	12 020	22 440	14 330	13 160	10 110	3 556	4 907	3 323	7 786	6 596	8 200	18 140
(year)	1977	1977	1979	1966	1967	1979	1968	1966	1965	1966	1969	1965
Runoff	Avg	47	50	48	35	28	17	15	16	20	34	47
Low	10	10	14	10	12	9	7	6	5	8	18	
High	91	154	109	97	77	26	37	25	57	60	138	
Rainfall	Avg	68	63	62	57	60	56	62	63	57	76	71
Low	20	18	13	13	15	11	14	6	18	12	33	13
High	107	180	116	122	157	126	170	101	171	140	150	194

Summary statistics

	For 1981	For record preceding 1981	1981
Mean flow (m³ s⁻¹)	5 576	4 161	134
Lowest yearly mean		2 540	1964
Highest yearly mean		6 364	1966
Lowest monthly mean	1 688	Jul 0 693	Oct 1972
Highest monthly mean	13 500	Mar 22 440	Feb 1977
Lowest daily mean	1 211	5 Sep 0 393	14 Jun 1973
Highest daily mean	47 690	27 Apr 78 320	29 Dec 1978
Peak	58 680	31 Dec 91 460	29 Dec 1978
10%ile	11 190	9 191	122
50%ile	3 586	2 499	143
95%ile	1 340	0 874	153
Annual total (million cu m)	175 80	131 30	134
Annual runoff (mm)	499	373	134
Annual rainfall (mm)	944	757	125
	[1941-70 rainfall average (mm)]	764]	

Factors affecting flow regime

- Reservoir(s) in catchment
- Flow influenced by groundwater abstraction and/or recharge
- Abstraction for public water supplies
- Flow reduced by industrial and/or agricultural abstractions
- Augmentation from effluent returns

Station description
Velocity-area station rated by current meter gauging from a cableway 35m downstream

027035 Aire at Kildwick Bridge

1981

Measuring authority: YWA
First year: 1970

Grid reference: SE 013457
Level stn. (m OD) 87.32

Catchment area (sq km) 282.3
Max alt. (m OD) 594

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	13 830	3 425	12 830	5 220	5 043	1 860	0 825	0 626	0 511	53 370	17 210	13 360
2	29 630	23 950	18 910	4 451	3 564	8 876	0 867	0 588	0 489	39 160	18 210	9 512
3	28 240	39 630	8 811	3 887	5 241	4 136	0 827	0 561	0 492	23 370	10 720	8 009
4	14 440	19 300	5 833	3 413	4 340	3 078	0 749	0 555	0 478	21 180	7 926	12 030
5	9 953	11 770	5 687	3 111	3 091	2 806	1 054	0 555	0 451	13 710	6 200	8 329
6	9 666	9 982	17 570	2 714	3 059	2 809	1 337	4 020	0 440	20 520	5 344	7 080
7	8 052	8 079	46 880	2 414	2 631	2 793	0 980	3 081	0 458	30 760	4 695	6 869
8	10 640	14 060	29 930	2 298	2 326	3 746	0 895	1 850	0 459	46 430	4 258	5 283
9	12 140	19 540	18 800	2 414	2 140	4 808	0 820	2 333	0 398	42 330	3 740	4 359
10	7 818	10 280	40 350	2 341	2 175	6 010	0 738	1 338	0 477	34 950	3 844	3 920
11	6 469	7 579	34 410	2 612	1 849	11 210	0 711	1 006	0 628	18 560	7 952	3 543
12	8 542	6 710	24 900	2 482	1 615	6 576	0 681	0 862	0 906	12 740	5 387	2 969
13	6 821	5 665	14 360	2 213	1 448	4 395	0 651	0 799	0 561	9 576	4 529	2 823
14	23 680	4 801	9 699	1 969	1 401	4 785	0 624	0 933	1 082	7 885	3 926	3 434
15	11 430	4 297	7 855	1 839	1 497	4 695	0 675	0 890	1 962	6 146	3 555	2 944
16	14 750	4 040	6 456	1 730	1 624	3 308	0 633	0 763	0 902	4 964	3 500	2 369
17	40 030	3 629	5 518	1 504	1 402	2 726	0 665	0 658	0 924	4 255	6 171	2 318
18	19 680	3 317	18 750	1 295	1 396	2 280	0 767	1 257	4 318	3 816	26 840	2 280
19	17 340	3 063	46 090	1 729	1 253	2 095	0 700	2 006	8 411	9 536	12 870	2 283
20	11 930	2 836	36 030	1 181	1 380	1 880	1 940	2 879	12 080	10 310	15 050	3 850
21	16 300	2 633	53 030	1 121	1 801	1 592	3 869	1 503	5 611	5 996	11 470	3 661
22	10 890	2 445	58 010	1 157	1 993	1 414	3 016	1 171	3 754	4 614	10 760	2 998
23	8 490	2 388	51 100	1 213	2 274	1 315	2 715	0 987	2 997	3 996	20 490	2 708
24	7 233	2 236	36 850	2 956	2 351	1 288	1 869	0 878	4 696	13 250	11 490	2 505
25	6 050	2 201	28 000	15 480	2 215	1 219	1 368	0 766	3 189	10 340	9 521	1 968
26	6 902	2 075	20 550	9 829	2 220	1 073	1 130	0 684	32 580	6 548	26 640	2 230
27	5 996	2 113	13 220	11 610	3 826	0 997	0 982	0 624	19 090	8 469	44 840	2 120
28	5 098	3 811	9 491	13 020	4 158	0 941	0 871	0 595	16 480	16 540	25 100	2 625
29	4 534		7 331	12 540	2 520	0 859	0 770	0 585	11 840	20 920	14 450	13 960
30	4 143		5 895	8 367	2 094	0 836	0 711	0 562	15 760	21 070	22 020	31 570
31	3 747		5 009		1 966		0 660	0 543		19 230		22 280
Average	12 400	8 066	22 520	4 254	2 448	3 214	1 131	1 176	5 081	12 570	12 290	6 328
Lowest	3 747	2 075	5 009	1 121	1 253	0 836	0 624	0 543	0 398	3 816	3 500	1 968
Highest	40 030	39 630	58 010	15 480	5 241	11 210	3 869	4 020	32 580	53 370	44 840	31 570
Peak flow	55 650	64 750	69 660	24 210	7 505	16 310	6 968	8 166	52 520	61 070	60 370	40 880
Day of peak	17	2	22	25	3	2	20	6	26	1	26	30
Monthly total (million cu m)	33 22	19 51	60 32	11 03	6 56	8 33	3 03	3 15	13 17	47 05	31 86	16 95
Runoff (mm)	118	69	214	39	23	30	11	11	47	167	113	60
Rainfall (mm)	107	88	233	64	72	67	49	57	167	187	133	68

Statistics of monthly data for previous record (Dec 1968 to Dec 1980—Incomplete or missing months total 0.3 years)

Mean flow	Avg	8 763	8 268	6 285	4 540	2 864	2 069	1 802	2 833	3 608	5 895	10 340	9 797
Flows	Low	4 463	4 758	2 652	0 922	0 611	0 605	0 564	0 289	1 147	0 788	3 583	3 175
(year)		1973	1976	1975	1974	1974	1970	1976	1976	1971	1972	1975	1971
High	13 280	12 830	16 100	9 586	6 022	6 133	5 927	7 020	10 370	7 320	15 580	20 820	
(year)		1975	1980	1979	1970	1979	1972	1973	1980	1974	1980	1970	1979
Runoff	Avg	83	72	60	42	27	19	17	27	33	56	95	93
Low	42	41	25	8	6	6	5	3	11	7	33	30	
High	126	114	153	88	57	56	56	67	95	164	143	198	
Rainfall	Avg	115	81	94	69	76	76	84	89	115	103	134	114
Low	67	35	44	3	10	23	47	17	27	37	76	42	
High	169	139	165	135	142	155	151	151	250	213	187	238	

Summary statistics

	For 1981	For record preceding 1981	1981	As % of pre-1981
Mean flow (m³ s⁻¹)	8 060	5 574	145	
Lowest yearly mean		3 652	1971	
Highest yearly mean		7 993	1979	
Lowest monthly mean	1 131	Jul	0 289	Aug 1976
Highest monthly mean	22 520	Mar	20 820	Dec 1979
Lowest daily mean	0 398	9 Sep	0 180	23 Aug 1976
Highest daily mean	58 010	22 Mar	79 900	27 Oct 1980
Peak	69 660	22 Mar	98 130	5 Dec 1977
10 %ile	20 630		13 270	155
50 %ile	3 796	/	2 851	133
95 %ile	0 805		0 545	111
Annual total (million cu m)	254 20		175 90	145
Annual runoff (mm)	900		623	145
Annual rainfall (mm)	1292		1150	112
[1941-70 rainfall average (mm)]			1126	

Factors affecting flow regime

● Reservoir(s) in catchment.
Comment
Flows below 1 m³ s⁻¹ are of limited precision
Low flow calibration under review.

Station description

Velocity-area station with bridge invert as control Current meter gauging from cableway downstream

027041 Derwent at Buttercrambe

1981

Measuring authority YWA
First year 1973

Grid reference SE 731587
Level stn (m OD) 9 50

Catchment area (sq km) 1586 0
Max alt (m OD) 454

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	19 130	15 580	33 800	35 520	26 810	15 080	8 668	8 678	6 684	14 980	15 290	38 510
2	19 070	16 070	45 690	33 650	23 380	15 140	8 574	8 425	6 568	17 530	14 200	22 850
3	18 790	25 830	45 360	29 470	22 960	14 930	9 041	8 137	6 510	16 620	13 460	19 190
4	17 550	20 250	33 020	27 380	25 090	14 010	8 772	7 863	6 399	13 950	12 710	27 300
5	16 680	17 300	26 490	25 590	22 550	13 580	8 544	7 802	6 287	13 070	11 840	28 170
6	16 460	16 400	32 800	24 360	21 080	13 050	8 367	9 796	6 235	20 170	11 410	21 310
7	15 860	15 500	40 700	24 510	19 960	13 040	8 163	19 540	6 166	32 710	11 180	19 260
8	15 770	16 210	39 730	23 470	21 020	13 280	8 277	20 630	6 178	31 910	11 090	17 520
9	16 200	39 530	28 820	22 040	19 340	12 690	10 100	27 040	6 083	36 730	10 900	15 520
10	16 630	41 820	54 000	20 990	18 660	12 280	11 860	16 090	6 136	25 510	10 870	14 190
11	17 550	28 690	74 020	22 110	17 980	12 610	9 276	12 180	6 769	18 870	11 250	13 360
12	19 720	23 530	65 340	22 490	17 080	12 760	8 744	10 540	7 251	16 070	11 020	13 140
13	18 800	21 390	47 230	20 830	16 440	11 860	8 320	9 668	6 885	14 520	10 550	12 250
14	21 570	19 680	43 070	19 410	15 950	11 580	7 938	9 556	6 665	13 460	10 160	13 480
15	20 360	18 540	36 900	18 580	15 540	11 090	7 741	9 148	7 809	12 650	10 030	13 400
16	16 760	17 900	31 890	17 880	16 450	10 760	7 995	8 631	7 967	11 970	10 280	12 700
17	17 220	18 360	34 720	17 210	16 850	10 470	8 914	8 377	6 879	11 430	10 390	10 090
18	18 760	17 330	36 050	16 560	15 830	10 310	11 180	8 349	7 260	11 070	12 510	11 060
19	25 080	16 390	32 390	16 160	16 230	10 400	8 951	8 366	8 928	11 160	19 810	11 770
20	21 990	15 930	30 970	15 730	19 060	10 410	8 196	8 638	19 340	11 400	15 540	12 630
21	23 460	15 650	46 450	15 560	32 490	10 120	7 891	8 368	12 700	10 940	14 050	13 550
22	27 660	15 130	90 330	15 360	31 900	9 784	7 911	7 891	9 150	15 330	12 910	13 550
23	22 040	14 810	109 900	15 430	23 470	9 751	14 330	7 597	7 922	20 490	17 170	12 640
24	20 000	14 280	108 700	28 490	21 600	9 464	45 720	7 349	7 618	21 480	24 930	12 330
25	18 640	14 090	104 500	74 920	18 170	9 408	42 340	7 306	7 592	45 010	15 980	12 150
26	18 920	14 080	90 860	60 870	17 800	9 683	18 260	7 146	27 130	29 680	14 640	11 520
27	20 540	14 470	67 440	44 050	27 350	9 706	12 800	6 981	42 510	20 660	16 190	11 730
28	18 670	28 830	52 960	41 570	27 670	9 565	11 030	6 881	19 340	18 050	15 480	13 110
29	17 670	42 350	42 140	20 290	9 230	10 020	6 842	13 620	18 190	14 900	31 470	
30	16 850	35 670	35 950	17 230	8 949	9 322	6 805	15 430	16 590	32 880	64 160	
31	16 150	32 710	15 940	15 940	8 993	6 742	16 920					77 430
Average	19 050	19 770	51 450	27 610	20 720	11 500	11 810	9 913	10 400	19 000	14 290	20 040
Lowest	15 770	14 080	26 490	15 360	15 540	8 949	7 741	6 742	6 083	10 940	10 030	10 090
Highest	27 660	41 820	109 900	74 920	32 490	15 140	45 720	27 040	42 510	45 010	32 880	77 430
Peak flow	30 540	48 480	114 700	78 040	37 700	15 570	53 760	31 680	50 800	49 340	49 670	78 980
Day of peak	22	9	23	25	22	1	24	9	27	25	30	31
Monthly total (million cu m)	51 02	47 83	137 80	71 56	55 48	29 81	31 64	26 55	26 96	50 90	37 03	53 68
Runoff (mm)	32	30	87	45	35	19	20	17	17	32	23	34
Rainfall (mm)	40	60	143	73	71	32	86	58	107	90	55	68

Statistics of monthly data for previous record (Oct 1973 to Dec 1980)

Mean flows	Avg	31 370	32 710	26 830	17 890	15 340	10 570	7 464	8 451	8 183	15 850	15 260	27 060
(year)	Low	17 710	16 170	8 799	6 927	8 095	5 342	3 884	3 215	4 730	5 554	7 404	13 880
(year)	High	48 190	49 290	56 110	33 670	29 840	21 260	9 847	15 440	14 710	19 75	19 78	19 73
(year)		1977	1978	1979	1979	1979	1980	1980	1980	1976	1980	1980	1978
Runoff	Avg	53	50	45	29	26	17	13	14	13	27	25	46
	Low	26	15	11	14	9	7	5	8	9	12	23	
	High	81	75	95	55	50	35	17	26	24	62	41	72
Rainfall	Avg	82	55	62	43	64	52	66	65	73	83	61	90
	Low	34	21	6	16	22	11	18	10	21	21	28	46
	High	111	101	131	85	142	113	123	126	192	158	88	180

Summary statistics

	For 1981	For record preceding 1981	1981	As % of pre-1981	Factors affecting flow regime
Mean flow (m³ s⁻¹)	19 670	18 030		109	● Abstraction for public water supplies
Lowest yearly mean		11 720	1975		
Highest yearly mean		25 320	1979		
Lowest monthly mean	9 913	Aug	3 215	94	
Highest monthly mean	51 450	Mar	56 110	122	
Lowest daily mean	6 083	9 Sep	2 697	152	
Highest daily mean	109 900	23 Mar	121 400	109	
Peak	114 700	23 Mar	123 700	109	
10 %ile	35 580		37 860	109	
50 %ile	15 760		12 870	109	
95 %ile	7 020		4 608	109	
Annual total (million cu m)	620 30		569 00	109	
Annual runoff (mm)	391		359	109	
Annual rainfall (mm)	883		796	111	
(1941-70 rainfall average (mm))			784		

Station description

Crump wear 19 987 m broad Catchment area includes 33 2 sq km 027033 Sea Cut at Scarborough, but flow data do not include flood diversions

027053 Nidd at Birstwith

1981

Measuring authority: YWA
First year: 1975

Grid reference: SE 230603
Level stat. (m OD) 67.40

Catchment area (sq km): 217.6
Max alt. (m OD): 705

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	9 465	2 989	6 885	3 874	4 538	2 210	1 407	1 104	1 015	19 980	9 099	8 573
2	13 480	20 210	15 290	3 181	2 926	11 740	1 395	1 095	0 992	12 900	8 913	7 997
3	17 770	15 900	5 509	2 879	3 020	7 714	1 365	1 083	0 971	9 320	7 940	7 787
4	9 785	10 090	3 932	2 728	2 745	4 154	1 352	1 085	0 974	8 193	7 461	6 920
5	8 278	8 655	4 598	2 614	2 701	2 815	1 358	1 083	0 957	7 284	5 985	5 463
6	7 882	8 446	10 650	2 546	2 818	2 469	1 353	3 427	0 951	9 986	5 138	5 244
7	7 752	8 489	53 440	2 604	2 566	4 128	1 332	2 071	0 945	12 930	5 011	5 067
8	8 443	11 640	28 500	2 464	2 446	2 918	1 311	1 691	1 029	25 070	3 375	4 759
9	10 220	15 390	14 070	2 382	2 647	2 576	1 311	1 634	1 065	24 960	2 728	3 199
10	8 189	9 628	28 350	2 307	2 839	2 705	1 285	1 314	1 190	19 380	2 972	2 851
11	6 197	8 587	19 340	2 847	2 402	5 884	1 297	1 213	1 179	9 975	4 084	2 762
12	7 329	6 804	11 730	2 706	2 268	5 382	1 279	1 165	1 212	7 010	3 017	2 658
13	5 684	4 326	8 577	2 441	2 452	3 134	1 227	1 157	1 067	8 230	2 763	2 697
14	9 490	3 602	7 708	2 224	2 237	2 689	1 247	1 132	1 324	5 869	2 658	2 720
15	8 010	3 468	7 131	2 114	2 197	2 372	1 243	1 105	1 344	3 589	2 698	2 655
16	6 242	3 440	6 798	2 049	2 246	2 122	1 227	1 089	1 091	3 039	2 763	2 611
17	14 190	3 289	4 239	2 005	1 911	2 087	1 218	1 083	1 138	2 904	4 491	2 623
18	9 932	3 135	5 871	1 950	1 915	2 032	1 214	1 090	1 623	2 837	11 180	3 063
19	12 220	3 022	13 780	1 932	1 800	2 050	1 224	1 108	3 924	3 720	9 002	5 471
20	10 870	2 917	18 110	1 907	2 135	2 019	1 224	1 130	2 668	3 510	12 460	5 509
21	12 820	2 844	95 740	1 884	2 161	1 955	1 269	1 080	1 671	2 926	10 860	3 467
22	9 704	2 781	52 840	1 907	2 001	1 601	1 352	1 064	1 456	2 765	9 157	2 108
23	8 852	2 745	70 730	1 920	2 110	1 472	2 131	1 046	1 352	2 699	11 380	1 829
24	8 549	2 707	30 150	2 363	2 097	1 462	1 446	1 036	1 409	5 276	8 699	1 772
25	8 001	2 694	23 550	5 840	2 472	1 718	1 304	1 037	1 440	5 461	7 138	1 814
26	7 819	2 666	15 090	7 921	2 898	1 784	1 237	1 028	13 730	3 250	13 200	2 423
27	5 268	2 759	10 260	12 900	8 822	1 764	1 193	1 037	3 665	3 337	12 920	1 719
28	3 838	2 510	9 337	15 570	7 705	1 578	1 168	1 040	3 085	7 409	11 340	1 869
29	3 347		5 292	10 870	3 860	1 453	1 135	1 041	3 256	9 766	9 382	4 363
30			4 523	7 722	2 421	1 404	1 119	1 031	3 716	11 320	10 200	7 703
31	3 077		3 422		2 313		1 111	1 029		10 250		6 747
Average	8 540	6 278	19 100	3 948	2 893	2 980	1 301	1 238	2 048	8 489	7 267	4 079
Lowest	3 077	2 510	3 422	1 884	1 800	1 404	1 111	1 028	0 945	2 699	2 658	1 719
Highest	17 770	20 210	95 740	15 570	8 822	11 740	2 131	3 427	13 730	25 070	13 200	8 573
Peak flow	22 400	97 000	169 200	21 580	14 190	28 820	3 108	5 738	29 890	56 570	30 400	10 720
Day of peak	3	2	21	28	27	2	23	6	26	1	28	30
Monthly total (million cu m)	22 87	15 18	51 17	10 23	7 75	7 72	3 48	3 31	5 31	22 74	18 84	10 92
Runoff (mm)	105	70	235	47	36	35	16	15	24	104	87	50
Rainfall (mm)	115	110	243	71	90	75	57	64	170	184	127	80

Statistics of monthly data for previous record (Apr 1975 to Dec 1980—Incomplete or missing months total 0.1 years)

Mean flows (year)	Avg	8 366	8 995	8 794	3 546	3 076	1 617	1 200	1 828	2 342	5 550	6 862	11 320
Low	6 927	3 866	2 497	1 890	1 135	1 015	0 912	0 886	1 263	1 508	1 893	3 612	
High	10 230	14 520	21 140	7 247	5 083	2 397	1 451	2 493	3 920	15 120	10 590	20 280	
(year)	1978	1977	1979	1979	1977	1979	1980	1979	1976	1976	1977	1979	
Runoff	Avg	103	101	108	42	38	19	15	20	28	68	82	139
Low	85	45	31	23	14	12	11	11	15	19	23	44	
High	126	161	260	88	63	29	18	31	47	186	126	250	
Rainfall	Avg	129	115	129	11	27	163	62	144	87	186	147	138
(1980 only)	High	129	115	129	27	163	62	144	87	166	147	138	

Summary statistics

	For 1981	For record preceding 1981	1981	
Mean flow ($m^3 s^{-1}$)	5 693	5 266	As % of pre-1981	
Lowest yearly mean		4 915	1978	
Highest yearly mean		7 148	1979	
Lowest monthly mean	1 236	Aug	0 886	Aug 1976
Highest monthly mean	19 100	Mar	21 140	Mar 1979
Lowest daily mean	0 945	7 Sep	0 617	22 Jun 1975
Highest daily mean	95 740	21 Mar	109 400	28 Dec 1978
Peak	169 200	21 Mar	203 400	8 Mar 1979
10%ile	11 710		13 450	87
50%ile	2 848		2 775	103
95%ile	1 065		1 102	97
Annual total (million cu m)	179 50		166 20	108
Annual runoff (mm)	825		764	108
Annual rainfall (mm)	1388		1338	104
(1941-70 rainfall average (mm))			860	

Factors affecting flow regime

- Reservoir(s) in catchment.
- Abstraction for public water supplies.
- Augmentation from surface water and/or groundwater.

Station description

Velocity-area station with natural rock control

028009 Trent at Colwick**1981**

Measuring authority: STWA
First year: 1958

Grid reference: SK 620399
Level stn (m OD) 16 00

Catchment area (sq km): 7486 0
Max alt. (m OD) 636

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	83 230	72 270	209 000	126 800	196 300	83 720	40 290	31 070	27 870	158 700	97 630	185 700
2	99 630	71 560	222 700	133 600	148 200	129 900	39 960	30 400	28 270	106 200	83 340	135 300
3	166 500	138 700	230 200	110 300	123 900	172 500	40 150	29 110	28 630	88 690	76 560	106 800
4	134 000	141 100	176 900	95 480	139 100	104 600	43 220	29 030	27 450	83 660	71 250	103 000
5	102 000	118 700	136 300	87 560	125 200	80 190	39 880	30 580	27 840	77 480	65 410	103 200
6	103 000	104 600	145 100	84 330	141 200	70 750	38 760	80 270	26 730	72 690	83 040	94 990
7	143 900	95 100	153 600	90 890	121 500	68 690	38 510	136 500	26 920	88 220	60 890	96 750
8	123 600	93 600	151 600	86 820	106 000	66 460	36 780	110 400	27 630	99 890	57 200	100 300
9	105 500	224 500	165 100	86 160	92 680	61 890	53 120	68 940	29 600	127 700	56 650	87 010
10	103 100	309 900	325 600	82 180	96 240	59 780	67 720	52 960	30 390	153 100	54 780	77 440
11	89 250	229 300	477 400	77 480	98 000	62 210	48 240	44 190	42 010	143 800	54 990	74 320
12	89 170	156 400	553 700	72 740	84 340	63 240	40 920	38 430	57 090	123 400	54 690	63 990
13	96 970	126 000	451 900	72 040	77 290	58 490	38 680	35 870	46 260	105 600	52 210	59 100
14	127 100	108 500	332 600	67 000	71 950	54 780	36 080	35 660	37 590	91 330	50 510	66 540
15	238 900	95 930	265 200	64 310	69 090	56 710	36 100	33 460	52 860	78 450	49 220	97 960
16	199 500	87 740	204 900	62 350	90 290	54 610	36 280	31 830	45 580	68 260	51 650	90 060
17	228 500	85 200	163 600	60 370	91 010	52 540	37 050	31 270	39 010	61 530	49 420	73 790
18	272 100	81 820	141 300	58 220	90 270	53 240	38 150	31 430	49 510	58 340	83 850	62 550
19	226 900	77 490	152 200	57 800	90 190	51 310	35 190	31 490	69 040	62 250	151 600	56 580
20	179 400	73 660	134 900	55 420	93 790	51 570	34 110	34 010	134 800	159 000	120 300	61 460
21	175 500	71 040	163 100	53 680	152 500	49 470	35 130	37 840	89 890	194 200	122 000	80 000
22	200 500	70 450	294 800	54 860	117 000	47 490	41 410	34 530	56 700	125 700	95 990	77 630
23	156 500	74 730	309 300	55 460	99 270	46 160	60 420	34 730	45 320	92 170	86 660	66 370
24	130 100	77 450	316 600	80 440	91 820	46 130	54 070	32 850	53 860	84 040	102 000	60 170
25	113 300	72 350	251 100	150 000	107 400	45 450	44 260	31 450	62 330	141 900	87 280	54 750
26	103 100	70 320	228 400	253 400	120 200	44 730	38 470	31 450	149 400	119 600	82 520	50 150
27	95 370	71 220	197 800	324 500	94 580	43 920	39 120	30 030	227 800	95 650	106 600	51 430
28	87 440	152 300	154 400	391 300	107 900	41 750	35 910	29 610	140 500	84 380	130 000	56 030
29	82 850	128 400	384 700	102 500	41 060	34 970	30 690	92 770	81 300	121 400	147 500	
30	79 110	114 000	255 900	85 480	32 460	30 050	184 400	89 160	124 600	308 600		
31	75 150	104 200			80 360	31 670	29 110		117 900		500 700	
Average	135 800	112 600	227 600	121 200	106 600	63 460	40 870	41 910	65 260	104 300	82 140	104 800
Lowest	75 150	70 320	104 200	53 680	69 090	40 880	31 670	29 030	26 730	58 340	49 220	50 150
Highest	272 100	309 900	553 700	391 300	196 300	172 500	67 720	136 500	227 800	194 200	151 600	500 700
Peak flow	277 300	318 900	571 200	418 600	210 800	201 000			142 700	239 000	215 600	603 000
Day of peak	18	10	12	29	1	2			7	27	21	31
Monthly total (million cu m)	363 80	272 30	809 60	314 20	285 60	164 50	109 50	112 30	169 20	279 40	212 90	280 80
Runoff (mm)	49	36	81	42	38	22	15	15	23	37	28	38
Rainfall (mm)	59	62	116	68	78	34	41	61	130	86	50	75

Statistics of monthly data for previous record (Oct 1958 to Dec 1980—Incomplete or missing months total 0 2 years)

Mean flows	Avg (year)	Low (year)	High (year)	For 1981	For record preceding 1981	As % of pre-1981	1981
132 400	1963	1963	1976	100 600	81 270	124	● Reservoir(s) in catchment
45 980	1963	1976	1976	47 020	19 450	18 450	● Flow influenced by groundwater abstraction and/or recharge
207 900	1959	1977	1979	175 800	175 100	100 500	● Abstraction for public water supplies
227 600	1966	1968	1979	387 500	78 870	73 030	● Flow reduced by industrial and/or agricultural abstractions
553 700	1966	1972	1976	12 Mar	815 500	114 700	● Augmentation from surface water and/or groundwater
603 000	1966	1968	1976	31 Dec	1228 000	177 500	● Augmentation from effluent returns
10 %ile	185 200				168 100	124	
50 %ile	82 490				54 560	110	
95 %ile	30 810				26 070	151	
Annual total (million cu m)	3173 00				2565 00	118	
Annual runoff (mm)	424				343	124	
Annual rainfall (mm)	860				772	111	
(1941-70 rainfall average (mm))					776		

Station description

Velocity-area station

028010 Derwent at Longbridge Weir**1981**

Measuring authority: STWA
First year: 1935

Grid reference: SK 356363
Level stn. (m OD) 44.40

Catchment area (sq km): 1054.0
Max alt. (m OD): 636

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	23 190	15 830	27 310	32 000	57 220	18 050	8 844	7 327	5 541	17 160	19 170	45 570
2	55 430	18 370	43 980	26 090	40 410	27 660	8 686	7 407	5 576	15 180	18 770	36 070
3	83 380	47 920	58 790	22 930	36 990	20 100	9 009	7 314	5 392	13 620	18 040	32 000
4	48 450	37 480	36 530	21 320	37 360	18 020	8 616	7 020	5 545	16 270	16 750	33 370
5	33 950	29 610	29 340	19 840	31 600	16 600	8 658	5 927	5 441	13 650	16 400	28 720
6	32 310	28 850	30 990	19 560	36 250	16 860	8 685	7 405	5 569	14 980	18 450	28 200
7	27 290	25 680	40 470	19 190	30 460	16 660	8 352	11 670	5 809	15 410	17 800	31 460
8	25 970	32 630	34 930	18 160	27 210	15 970	8 521	9 329	5 746	37 280	17 230	30 140
9	24 510	84 680	43 820	17 640	24 560	14 990	13 500	7 816	5 713	34 150	18 740	25 810
10	23 440	50 350	81 370	16 510	28 120	14 600	10 120	6 958	7 569	64 090	16 330	24 560
11	20 910	37 680	108 800	15 970	24 420	14 670	8 747	6 383	7 176	45 330	16 160	21 520
12	23 030	31 870	80 710	15 670	20 900	14 560	8 343	6 163	7 329	35 530	15 750	15 720
13	20 310	28 090	58 510	15 110	18 450	13 440	8 393	5 948	5 955	30 320	15 000	15 810
14	64 950	24 310	54 150	14 080	16 850	13 460	8 260	5 793	7 352	26 510	14 610	17 050
15	56 690	21 730	45 680	13 700	16 760	14 540	8 294	5 733	8 837	22 800	14 320	16 650
16	42 750	20 410	36 750	12 740	17 620	12 940	8 528	5 587	6 373	19 270	14 790	15 030
17	72 310	19 470	32 590	12 670	17 080	12 220	8 502	5 740	6 054	17 380	11 550	13 870
18	59 700	18 380	30 310	12 450	16 990	11 800	8 274	5 678	6 809	16 300	41 280	13 150
19	52 650	17 260	60 870	12 380	15 930	11 290	8 140	5 866	14 080	19 620	31 010	12 600
20	40 110	16 400	39 330	12 050	23 510	10 860	8 195	6 694	16 070	39 500	35 300	13 790
21	43 630	15 530	84 920	11 950	19 190	10 800	8 878	6 313	8 490	24 690	31 640	13 580
22	37 430	15 460	100 600	11 790	17 510	10 350	9 447	5 899	7 228	20 750	27 850	12 770
23	30 830	15 050	92 190	11 840	18 280	10 080	10 180	5 905	6 480	18 230	29 370	12 490
24	27 940	14 090	81 930	16 980	17 160	10 020	9 076	6 031	6 706	26 370	28 660	12 010
25	25 810	13 610	67 880	45 080	26 910	9 753	8 562	5 703	6 990	26 070	26 810	11 750
26	23 910	13 410	65 020	59 990	21 120	9 675	8 426	5 520	40 040	21 250	27 800	11 570
27	21 380	13 480	47 890	62 710	21 200	9 419	11 030	5 246	22 040	19 940	44 950	11 610
28	18 560	27 810	40 070	70 350	29 180	9 298	8 096	5 449	14 250	18 720	45 560	12 680
29	17 680			34 480	101 900	22 810	9 037	7 765	5 476	19 710	19 390	37 380
30	16 710			30 060	77 820	20 320	8 796	7 752	5 557	37 570	21 680	48 080
31	16 350			27 100		19 430		7 455	5 661	72 400		81 810
Average	35 860	26 270	53 140	27 350	24 900	13 550	8 818	6 468	10 450	24 160	24 450	25 160
Lowest	16 350	13 410	27 100	11 790	15 930	8 796	7 455	5 246	5 392	13 620	11 550	11 570
Highest	83 380	84 680	108 800	101 900	57 220	27 660	13 500	11 670	40 040	64 090	48 080	102 300
Peak flow	113 600	100 000	122 800	107 600	70 140	32 490		13 920	72 070	83 340	63 480	145 400
Day of peak	14	9	21	28	1	2		7	30	10	18	30
Monthly total (million cu m)	96.04	63.54	142.30	70.89	66.68	35.12	23.62	17.32	27.08	64.70	63.38	67.40
Runoff (mm)	91	60	135	67	63	33	22	16	26	61	60	64
Rainfall (mm)	101	92	185	101	98	49	55	63	154	144	103	92

Statistics of monthly data for previous record (Jan 1938 to Dec 1980—Incomplete or missing months total 61 years)

Mean flows	Avg	28 740	29 270	22 300	16 980	12 440	9 394	8 798	8 690	10 820	13 140	22 130	26 050
Lowest (year)	Low	9 751	8 086	9 110	7 677	5 517	4 530	4 211	3 176	3 399	3 782	4 302	8 480
Highest (year)	High	67 000	78 780	69 410	39 590	26 410	18 010	28 660	33 940	33 170	35 130	54 360	88 680
Runoff	Avg	73	68	57	42	32	23	22	22	27	33	54	66
Low	25	19	23	19	14	11	11	8	8	10	11	22	
High	170	176	176	97	67	44	73	86	82	89	134	225	
Rainfall	Avg	102	81	71	64	69	68	81	84	80	86	106	99
Low	33	8	16	8	15	15	25	10	3	17	16	20	
High	215	236	173	129	163	138	158	185	199	178	232	246	

Summary statistics

	For 1981	For record preceding 1981	1981
Mean flow (m³ s⁻¹)	23 410	17 340	As % of pre-1981
Lowest yearly mean		9 626	135
Highest yearly mean		25 200	
Lowest monthly mean	6 468	Aug 3 176	1976
Highest monthly mean	53 140	Mar 88 680	1966
Lowest daily mean	5 246	27 Aug 1 317	30 Aug 1952
Highest daily mean	108 800	11 Mar 334 100	10 Dec 1965
Peak	145 400	30 Dec	
10 %ile	45 530	34 620	132
50 %ile	17 280	11 940	145
95 %ile	5 754	4 470	129
Annual total (million cu m)	738.30	547.20	135
Annual runoff (mm)	700	519	135
Annual rainfall (mm)	1237	991	125
[1941-70 rainfall average (mm)]		1020]	

Factors affecting flow regime

- Reservoir(s) in catchment
- Flow influenced by groundwater abstraction and/or recharge
- Abstraction for public water supplies
- Flow reduced by industrial and/or agricultural abstractions
- Augmentation from surface water and/or groundwater
- Augmentation from effluent returns

Station description

Velocity-area station with broad crested horseshoe weir for control, long and insensitive

030001 Witham at Claypole Mill**1981**

Measuring authority AWA
First year 1959

Grid reference SK 842480
Level stn (m OD) 16 90

Catchment area (sq km) 297.9
Max alt. (m OD) 158

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1 498	1 533	4 002	3 406	4 782	1 785	1 147	0 621	0 486	1 105	0 981	0 903
2	1 493	1 619	6 801	2 957	4 070	5 501	1 245	0 628	0 525	1 004	0 977	0 915
3	1 491	2 092	7 015	2 836	3 976	3 422	1 208	0 563	0 504	0 832	0 840	0 848
4	1 409	1 817	4 339	2 734	3 742	2 272	1 054	0 526	0 547	1 630	0 901	0 892
5	1 368	1 686	3 541	2 626	3 483	2 035	1 112	0 586	0 555	1 218	0 800	0 888
6	1 400	1 692	3 214	2 565	3 349	1 966	1 015	2 328	0 534	1 014	0 768	0 958
7	1 376	1 590	3 679	2 557	3 197	1 805	1 035	1 838	0 448	0 810	0 741	1 092
8	1 379	1 613	3 374	2 330	3 099	1 821	0 932	1 240	0 530	0 878	0 734	1 048
9	1 363	7 554	5 834	2 412	3 014	1 843	1 552	1 068	0 543	0 826	0 729	0 975
10	1 335	6 401	13 170	2 389	3 319	1 669	1 317	0 987	0 518	0 781	0 719	0 855
11	1 320	3 875	14 790	2 711	3 151	1 715	1 052	0 859	0 584	0 915	0 771	0 795
12	1 425	3 092	8 293	2 235	2 925	1 615	0 947	0 802	0 692	0 860	0 691	0 730
13	1 392	2 582	7 509	2 236	2 773	1 552	0 871	0 762	0 557	0 723	0 732	0 686
14	1 698	2 282	11 630	2 185	2 639	1 534	0 879	0 754	0 540	0 709	0 727	0 836
15	1 668	2 096	8 597	2 063	2 454	1 520	0 966	0 730	0 620	0 636	0 704	1 106
16	1 613	1 920	6 236	2 009	2 584	1 430	0 984	0 729	0 536	0 762	0 711	0 897
17	1 705	1 965	5 287	1 958	2 538	1 405	0 974	0 683	0 552	0 657	0 707	0 846
18	1 990	1 820	4 978	1 836	2 452	1 409	0 912	0 678	0 823	0 620	0 743	0 840
19	2 166	1 825	4 537	1 848	2 236	1 399	0 869	0 662	0 998	0 654	0 755	0 828
20	1 953	1 801	4 247	1 756	3 467	1 439	0 854	0 735	0 940	3 510	0 891	0 862
21	5 700	1 759	4 091	1 784	3 404	1 409	0 840	0 744	0 698	1 819	0 740	0 970
22	4 132	1 805	3 983	1 837	2 778	1 361	0 805	0 745	0 541	1 226	0 713	0 946
23	2 981	1 858	4 341	1 775	2 590	1 299	0 909	0 678	0 565	1 045	0 712	0 856
24	2 483	1 730	4 128	2 229	2 326	1 338	1 049	0 706	0 686	1 178	0 747	0 840
25	2 166	1 664	3 945	3 993	2 930	1 309	0 975	0 718	0 645	1 534	0 716	0 744
Average	1 900	2 375	5 510	4 034	2 933	1 743	0 968	0 796	0 745	1 083	0 778	1 486
Lowest	1 320	1 533	2 894	1 756	1 904	1 244	0 644	0 483	0 448	0 620	0 691	0 686
Highest	5 700	7 554	14 790	21 310	4 762	5 501	1 552	2 328	2 031	3 510	0 981	10 290
Peak flow	7 187	11 200	18 070	29 650	5 912	7 782	2 391	3 540	3 088	5 545	1 181	12 840
Day of peak	21	9	11	26	20	2	9	.6	26	20	27	31
Monthly total (million cu m)	5 09	5 75	14 76	10 46	7 86	4 52	2 59	2 13	1 93	2 90	2 02	3 98
Runoff (mm)	17	19	50	35	26	15	9	7	6	10	7	13
Rainfall (mm)	31	43	92	80	62	34	45	50	92	62	24	45

Statistics of monthly data for previous record (May 1959 to Dec 1980)

Mean flows	Avg	2 770	3 349	2 837	2 161	1 593	0 889	0 730	0 746	0 714	0 926	1 442	2 224
(year)	Low	0 673	0 491	0 453	0 364	0 311	0 184	0 062	0 136	0 232	0 218	0 278	0 311
	High	5 527	10 690	6 995	5 748	4 332	2 089	2 119	2 376	2 886	3 906	6 526	7 879
(year)	Low	1 961	1 977	1 979	1 979	1 969	1 969	1 968	1 980	1 968	1 960	1 960	1 965
Runoff	Avg	25	27	26	19	14	8	7	7	6	8	13	20
	Low	6	4	4	3	3	2	1	1	2	2	2	3
	High	50	87	63	50	39	18	19	21	25	35	57	71
Rainfall	Avg	54	42	46	48	47	50	54	62	49	48	59	59
	Low	20	3	8	10	11	3	14	12	3	5	26	13
	High	117	140	89	81	130	102	132	127	127	137	115	142

Summary statistics

	For 1981	For record preceding 1981	As % of pre-1981	1981
Mean flow (m ³ s ⁻¹)	2 029	1 690	120	
Lowest yearly mean		0 594	1976	
Highest yearly mean		2 807	1979	
Lowest monthly mean	0 745	Sep 0 062	Jul 1976	
Highest monthly mean	5 510	Mar 10 690	Feb 1977	
Lowest daily mean	0 448	7 Sep 0 021	24 Jul 1976	
Highest daily mean	21 310	26 Apr 31 600	11 Feb 1977	
Peak	29 650	26 Apr 37 540	11 Feb 1977	
10 %ile	3 933	3 827	103	
50 %ile	1 356	0 948	143	
95 %ile	0 557	0 311	179	
Annual total (million cu m)	63 99	53 34	120	
Annual runoff (mm)	215	179	120	
Annual rainfall (mm)	660	618	107	
[1941-70 rainfall average (mm)]		622		

Factors affecting flow regime

- Flow influenced by groundwater abstraction and/or recharge
- Abstraction for public water supplies
- Flow reduced by industrial and/or agricultural abstractions
- Augmentation from surface water and/or groundwater

Station description
Compound broad crested weir Range 0 03-42.9 cu m/s

032001 Nene at Orton**1981**

Measuring authority: AWA
First year: 1939

Grid reference: TL 166972
Level stn. (m OD) 3.35

Catchment area (sq km): 1634.3
Max. alt. (m OD): 224

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	9 277	9 949	28 030	11 920	57 940	11 570	5 716	3 671	3 224	8 204	7 386	7 742
2	8 754	8 065	36 970	18 100	31 310	41 100	5 426	3 764	3 250	10 600	7 203	8 130
3	8 004	8 986	44 810	16 840	25 000	42 700	5 104	3 563	3 319	8 880	6 509	6 746
4	8 106	12 130	37 830	12 820	24 850	42 970	5 103	3 655	3 127	5 416	6 168	6 233
5	7 824	11 140	29 790	12 560	15 490	26 720	5 045	3 654	3 136	8 051	5 600	4 850
6	6 675	7 988	25 250	11 380	24 500	16 730	5 018	6 035	3 148	7 626	4 818	5 367
7	7 497	7 727	31 230	10 000	23 490	17 130	4 281	29 380	3 186	7 329	4 358	6 043
8	7 792	7 207	31 470	9 789	15 760	13 930	4 632	28 360	3 200	6 495	4 362	6 364
9	7 278	8 148	35 500	9 400	15 140	9 277	5 146	16 730	3 113	5 780	4 221	7 458
10	6 946	9 600	52 700	6 272	15 540	9 895	5 297	4 938	3 014	2 959	4 381	5 752
11	7 345	16 370	56 060	8 434	24 220	9 884	5 902	7 318	2 933	3 564	4 344	5 476
12	6 993	8 184	59 400	9 000	15 430	9 673	5 446	5 387	3 179	5 132	4 307	3 776
13	7 598	8 182	65 050	7 277	12 160	8 096	4 975	5 570	3 322	5 140	4 273	3 831
14	8 077	7 900	70 080	6 651	11 040	6 406	4 461	4 828	3 301	4 733	4 157	5 283
15	25 680	7 936	63 810	5 650	9 075	7 845	4 227	4 308	3 448	4 264	4 403	25 210
16	24 840	9 028	44 270	5 777	10 440	8 933	4 458	4 115	4 634	4 196	4 297	28 170
17	28 960	5 928	36 510	5 183	11 880	5 468	4 416	4 056	4 559	3 346	4 494	12 020
18	29 930	5 162	28 430	4 871	11 090	6 488	4 604	3 981	3 885	3 395	4 939	9 090
19	26 830	5 428	19 000	4 785	9 919	8 739	4 475	3 939	4 450	3 879	5 074	6 519
20	24 590	6 098	18 400	4 950	10 560	5 739	4 267	3 863	9 437	6 284	7 249	6 345
21	23 170	5 306	23 980	4 094	27 300	6 038	4 219	3 910	11 030	16 930	15 070	6 345
22	39 290	4 853	24 050	5 424	26 180	6 376	4 321	3 871	3 364	10 150	5 582	6 358
23	30 330	3 700	24 450	6 469	19 190	5 648	4 665	3 800	3 670	4 889	7 803	6 372
24	24 210	4 130	24 840	6 289	27 530	6 005	5 416	3 765	3 942	6 258	7 096	6 385
25	17 980	10 930	23 430	6 971	31 430	6 130	5 257	3 684	4 261	8 172	7 043	6 385
26	8 682	3 337	15 070	58 590	32 020	5 392	4 653	3 572	6 823	5 919	6 113	6 377
27	23 070	6 718	12 520	97 170	24 630	5 488	4 141	3 584	18 070	6 823	6 412	6 358
28	11 700	4 392	9 773	107 600	14 340	5 483	4 207	3 488	15 070	6 199	5 908	6 331
29	10 910	13 370	97 870	17 250	5 135	4 120	3 512	3 936	5 446	6 012	28 430	
30	10 830	16 500	82 660	11 690	5 166	3 981	3 224	7 109	5 443	7 203	46 700	
31	10 520	10 710		10 640		3 886	3 079		6 125		52 240	
Average	15 470	7 862	32 690	21 780	19 900	12 070	4 738	6 148	5 071	6 309	5 893	11 250
Lowest	6 675	3 337	9 773	4 094	9 075	5 135	3 886	3 079	2 933	2 959	4 157	3 778
Highest	39 290	16 370	70 080	107 600	57 940	42 970	5 902	29 380	18 070	16 930	15 070	52 240
Peak flow	43 950	33 030	71 420	113 000	75 330	48 410	6 028	32 820	20 490	19 380	19 550	53 700
Day of peak	22	25	14	27	1	2	11	7	27	21	21	31
Monthly total (million cu m)	41 43	18 53	87 55	56 40	53 31	31 29	12 69	16 47	13 14	16 90	15 27	30 13
Runoff (mm)	25	11	54	35	33	19	8	10	8	10	9	18
Rainfall (mm)	37	28	91	72	73	38	26	56	95	53	33	53

Statistics of monthly data for previous record (Oct 1940 to Dec 1980)

Mean flows (yearly)	17 080	19 150	16 440	10 050	6 880	4 580	3 720	3 650	3 210	4 380	9 420	12 870
Lowest yearly mean	2 831	2 207	1 642	1 843	1 444	0 538	0 849	0 481	0 736	1 015	1 144	1 641
Highest yearly mean	1954	1965	1944	1976	1944	1944	1944	1944	1943	1947	1947	1947
Mean flows (monthly)	48 180	48 750	79 640	33 050	28 100	13 010	20 060	20 470	20 090	22 120	40 560	42 550
Lowest monthly mean	1959	1977	1947	1979	1967	1977	1968	1980	1968	1960	1960	1954
Runoff (mm)												
Avg	28	28	27	16	11	7	6	6	5	7	15	21
Low	5	3	3	3	2	1	1	1	1	2	2	3
High	79	69	131	53	43	20	34	34	33	38	64	70
Rainfall (mm)												
Avg	55	43	46	41	52	53	53	65	52	52	61	56
Low	20	3	5	8	10	5	6	3	3	5	10	13
High	109	111	132	86	117	156	123	110	127	130	155	124

Summary statistics

	For 1981			For record preceding 1981			1981		
							As % of pre-1981		
Mean flow (m³ s⁻¹)	12 470			9 283			134		
Lowest yearly mean									
Highest yearly mean									
Lowest monthly mean	4 738			Jul			Aug 1944		
Highest monthly mean	32 690			Mar			Mar 1947		
Lowest daily mean	2 933			11 Sep			29 Jul 1948		
Highest daily mean	107 600			28 Apr			319 800		
Peak	113 000			27 Apr					
10 %ile	28 220								
50 %ile	6 656								
90 %ile	3 345								
Annual total (million cu m)	393 30			293 70			134		
Annual runoff (mm)	241			180			134		
Annual rainfall (mm)	655			629			104		
(1941-70 rainfall average (mm))	624								

- Reservoir(s) in catchment
- Abstraction for public water supplies
- Flow reduced by industrial and/or agricultural abstractions
- Augmentation from effluent returns.

Station description

Group of weirs and sluices with regulated by-pass channels. High flows measured at alternative station Wansford 032010. Some river regulation by sluices. Harwell single path ultrasonic gauging station installed 1975

033002 Bedford Ouse at Bedford**1981**

Measuring authority: AWA
First year: 1933

Grid reference: TL 055495
Level stat (m OD) 24.75

Catchment area (sq km) 1460.0
Max alt (m OD) 247

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	9 600	9 200	19 400	21 900	26 500	12 100	4 500	3 300	2 800	9 200	15 900	14 400
2	8 500	9 200	28 200	31 600	19 100	33 400	4 800	4 100	2 800	12 200	12 200	12 100
3	8 500	10 800	51 800	23 400	15 400	49 400	4 600	4 000	3 100	7 800	9 300	9 600
4	8 000	14 400	60 800	18 300	15 100	23 700	4 900	3 400	2 500	9 500	8 800	9 200
5	7 800	12 400	42 400	15 100	14 100	14 700	4 800	3 300	2 700	13 100	7 800	8 900
6	8 000	10 500	26 700	13 200	13 400	12 000	4 200	5 900	2 600	20 300	6 900	8 700
7	8 200	10 000	28 600	12 000	12 700	8 500	4 200	13 100	2 700	15 100	6 500	8 400
8	8 500	8 500	40 300	11 500	12 800	9 600	4 000	15 700	2 500	10 200	6 400	9 500
9	8 700	8 800	43 600	11 600	11 400	8 700	4 100	6 600	2 600	7 600	6 300	15 100
10	9 200	10 900	54 300	10 800	13 700	8 800	6 700	5 300	2 600	7 300	5 900	13 000
11	10 800	13 000	68 900	10 800	13 400	8 700	4 100	4 900	3 000	6 500	5 900	10 800
12	9 300	11 200	78 900	10 600	11 200	8 000	3 900	4 200	3 600	6 200	5 800	9 300
13	10 800	10 400	84 500	9 300	10 000	7 400	3 700	3 700	3 900	5 600	5 700	8 000
14	11 500	9 300	73 700	8 800	9 800	6 700	3 700	3 500	3 800	5 200	5 400	8 700
15	19 700	8 500	62 100	7 600	8 800	6 700	3 600	3 400	3 700	4 900	5 300	21 000
16	18 500	7 300	44 700	8 100	9 900	6 500	3 800	3 100	4 600	4 600	5 400	39 000
17	26 400	7 300	32 900	8 800	11 500	6 200	3 800	3 000	3 400	4 000	7 200	26 500
18	27 400	7 300	26 500	8 100	10 200	6 000	3 700	3 000	3 400	4 400	7 800	14 600
19	26 700	7 300	23 300	7 800	9 500	5 900	3 800	3 000	3 800	5 200	8 700	7 800
20	23 800	7 100	19 100	7 800	10 600	5 900	3 800	2 700	4 400	9 200	18 600	13 500
21	26 500	6 500	17 600	7 700	21 600	5 800	3 700	3 200	6 900	28 400	33 400	11 400
22	38 700	6 700	26 300	7 700	18 400	5 700	3 700	3 100	5 400	28 400	20 500	11 200
23	30 100	7 200	34 200	8 000	13 700	5 400	4 300	3 200	3 900	17 700	13 700	11 000
24	22 600	7 200	37 600	7 800	14 400	5 800	6 300	3 000	3 700	10 500	12 300	9 400
25	17 900	7 400	37 800	9 800	18 100	5 700	4 500	3 100	3 300	9 500	10 500	8 500
26	14 900	7 400	30 500	37 400	36 900	5 600	4 100	3 000	4 100	9 300	8 800	7 100
27	13 800	7 600	22 600	71 400	48 200	5 400	3 700	3 000	12 600	9 200	8 800	6 900
28	13 000	9 100	19 200	98 200	29 200	4 600	3 800	2 800	11 500	8 500	10 800	8 000
29	12 300		16 500	107 000	22 600	4 600	3 600	2 800	6 200	8 200	19 500	25 800
30	11 600		16 100	55 700	28 300	4 600	3 700	2 800	5 900	8 200	16 100	60 800
31	10 800		18 500		24 900		3 100	2 800		11 700		71 100
Average	15 550	9 018	38 310	22 260	17 210	10 100	4 188	4 258	4 267	10 250	10 540	16 110
Lowest	7 800	6 500	16 100	2 600	8 800	4 600	3 100	2 700	2 500	4 000	5 300	6 900
Highest	38 700	14 400	84 500	107 000	48 200	49 400	6 700	15 700	12 600	28 400	33 400	71 100
Peak flow	40 600	15 300	86 400	119 000	50 000	52 100	8 000	16 800	15 900	34 800	35 500	78 200
Day of peak	22	4	13	29	27	3	8	8	27	21	21	31
Monthly total (million cu m)	41.65	21.82	102.60	57.70	46.09	26.19	11.16	11.40	11.06	27.45	27.32	43.14
Runoff (mm)	29	15	70	40	32	18	8	8	8	19	19	30
Rainfall (mm)	38	26	105	67	78	37	39	54	101	70	37	57

Statistics of monthly data for previous record (Apr 1933 to Dec 1980)

Mean flows (year)	19 350	20 700	16 580	10 510	6 627	4 046	3 110	2 738	2 742	5 044	11 020	15 090
Low (year)	2 606	2 239	2 409	1 994	1 412	0 484	0 098	0 038	0 270	0 452	1 149	1 684
High (year)	55 190	53 300	62 010	31 460	24 060	11 950	18 820	14 400	17 790	26 390	44 440	40 170
Runoff	Avg	36	35	30	19	12	7	6	5	5	9	20
	Low	5	4	4	4	3	1	0	0	0	1	3
	High	101	88	114	56	44	21	35	26	32	48	74
Rainfall	Avg (1936)	59	43	48	43	55	51	55	84	51	58	84
	Low	15	3	5	3	10	8	5	3	3	4	13
	High	124	111	140	84	109	119	120	138	105	137	128

Summary statistics

	For 1981	For record preceding 1981	As % of pre-1981	1981	Factors affecting flow regime
Mean flow (m³ s⁻¹)	13 560	9 744	139		● Reservoir(s) in catchment
Lowest yearly mean		2 401		1934	● Flow influenced by groundwater abstraction and/or recharge
Highest yearly mean		18 890		1937	● Abstraction for public water supplies
Lowest monthly mean	4 168	Jul 0 038		Aug 1934	● Flow reduced by industrial and/or agricultural abstractions
Highest monthly mean	38 310	Mar 62 010		Mar 1947	● Augmentation from effluent returns
Lowest daily mean	2 500	4 Sep 0 008		31 Aug 1934	
Highest daily mean	107 000	29 Apr 278 100		15 Mar 1947	
Peak	119 000	29 Apr			
10%ile	28 430		25 960		
50%ile	8 833		4 301		
95%ile	3 011		0 876		
Annual total (million cu m)	427.60		307.50		
Annual runoff (mm)	293		211		
Annual rainfall (mm)	709		650		
[1941-70 rainfall average (mm)]			650	109	

Station description

Three broad crested weirs, supplemented by three vertically lifting sluice gates for high flows

034006 Waveney at Needham Mill**1981**

Measuring authority: AWA
First year: 1963

Grid reference: TM 229811
Level stn. (m OD) 16.50

Catchment area (sq km): 370.0
Max alt. (m OD): 65

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.427	1.544	4.152	2.121	5.167	1.261	0.560	0.514	0.293	0.525	1.592	1.760
2	1.504	1.450	4.588	1.916	3.752	1.468	0.527	0.512	0.332	0.525	1.321	1.569
3	1.777	1.703	6.730	1.795	3.127	1.300	0.521	0.466	0.315	0.501	1.092	1.349
4	1.567	1.676	5.860	1.772	3.218	1.056	0.490	0.454	0.322	0.762	0.972	1.504
5	1.279	1.343	4.184	1.712	2.443	0.946	0.461	0.425	0.303	0.975	0.876	1.703
6	1.295	1.171	4.373	1.550	2.403	0.881	0.448	0.444	0.290	0.961	0.807	1.761
7	1.174	1.094	5.526	1.428	1.933	0.845	0.448	0.455	0.293	1.141	0.754	1.797
8	1.159	1.060	6.021	1.225	2.119	0.848	0.451	0.472	0.323	0.897	0.709	1.738
9	1.756	1.308	10.710	1.219	2.511	0.806	0.810	0.469	0.324	0.753	0.678	1.414
10	4.503	2.760	27.360	1.192	3.611	0.771	0.972	0.459	0.329	0.665	0.687	1.152
11	3.957	3.175	29.060	1.314	3.034	0.786	0.775	0.453	0.325	0.848	0.754	1.057
12	4.487	2.654	25.310	1.232	2.156	0.763	0.637	0.434	0.321	0.842	0.762	0.936
13	4.563	2.027	18.450	1.006	1.663	0.686	0.583	0.426	0.311	0.731	0.728	0.766
14	11.470	1.689	13.540	0.925	1.432	0.639	0.567	0.425	0.320	0.640	0.665	0.835
15	15.140	1.534	11.370	0.898	1.244	0.623	0.560	0.394	0.356	0.608	0.691	1.182
16	9.131	1.362	9.401	0.874	1.197	0.614	0.547	0.363	0.358	0.531	0.792	1.464
17	8.514	1.244	6.672	0.838	1.098	0.524	0.547	0.368	0.351	0.501	1.231	1.407
18	10.370	1.215	5.540	0.801	1.084	0.521	0.520	0.383	0.361	0.480	1.462	1.241
19	8.636	1.175	4.547	0.803	1.311	0.512	0.498	0.384	0.381	0.528	1.440	1.048
20	6.934	1.127	3.677	0.809	1.211	0.507	0.498	0.425	0.454	2.637	3.561	0.934
21	6.722	1.050	3.095	0.797	1.187	0.494	0.506	0.439	0.405	2.654	3.263	1.117
22	7.348	1.044	3.053	0.830	1.111	0.485	0.513	0.395	0.406	1.420	2.205	1.160
23	5.694	1.234	2.802	0.923	1.154	0.492	0.544	0.365	0.365	1.034	1.887	1.053
24	4.653	1.197	2.778	1.189	1.156	0.604	0.635	0.363	0.375	0.946	1.699	1.060
25	3.704	1.139	2.857	6.625	1.289	0.825	0.689	0.381	0.518	1.823	1.370	2.9370
Average	4.612	1.542	7.665	5.182	2.031	0.750	0.557	0.404	0.393	1.044	1.263	3.609
Lowest	1.159	1.044	2.047	0.797	1.084	0.485	0.443	0.284	0.290	0.480	0.665	0.766
Highest	15.140	3.175	29.060	49.820	5.167	1.468	0.972	0.514	0.738	2.654	3.561	29.630
Peak flow	16.180	3.973	30.300	61.000	5.712	1.556	1.071	0.545	0.782	3.802	6.438	34.400
Day of peak	15	28	10	27	1	2	10	1	26	20	2	30
Monthly total (million cu m)	12.35	3.73	20.53	13.43	5.44	1.94	1.49	1.08	1.02	2.80	3.27	9.67
Runoff (mm)	33	10	55	38	15	5	4	3	3	8	9	26
Rainfall (mm)	57	28	96	81	62	36	59	10	61	86	37	61

Statistics of monthly data for previous record (Dec 1963 to Dec 1980)

Mean flows	Avg	3.574	3.806	2.449	1.644	1.031	0.583	0.497	0.509	1.010	0.826	1.905	2.888
	Low	0.609	0.722	0.591	0.487	0.369	0.286	0.285	0.282	0.261	0.352	0.397	0.492
	(year)	1973	1965	1973	1974	1974	1974	1974	1973	1964	1964	1964	1964
	High	7.132	10.670	5.283	3.851	3.255	1.019	0.880	1.250	9.754	2.912	8.852	8.380
	(year)	1969	1979	1979	1975	1969	1971	1969	1968	1968	1974	1974	1965
Runoff													
Runoff	Avg	26	25	18	12	7	4	4	4	7	6	13	21
	Low	4	5	4	3	3	2	2	2	2	3	3	4
	High	52	70	38	27	24	7	6	9	68	21	62	61
Rainfall													
Rainfall, Avg	50	41	41	42	42	47	86	53	54	46	68	55	
	Low	16	17	10	14	10	10	11	21	2	4	25	18
	High	78	72	72	73	97	104	364	101	161	110	150	100

Summary statistics

	For 1981	For record preceding 1981	1981 As % of pre-1981
Mean flow (m ³ s ⁻¹)	2.434	1.716	142
Lowest yearly mean	0.537	1973	
Highest yearly mean	2.730	1969	
Lowest monthly mean	0.393	Sep	0.261 Sep 1964
Highest monthly mean	7.665	Mar	10.670 Feb 1979
Lowest daily mean	0.284	30 Aug	0.189 23 Aug 1973
Highest daily mean	49.820	27 Apr	89.760 16 Sep 1968
Peak	61.000	27 Apr	113.300 16 Sep 1968
10%ile	4.584		4.133 111
50%ile	1.110		0.723 154
95%ile	0.338		0.319 106
Annual total (million cu m)	76.76		54.16 142
Annual runoff (mm)	207		146 142
Annual rainfall (mm)	674		605 111
[1941-70 rainfall average (mm)]			603]

Factors affecting flow regime

- Flow reduced by industrial and/or agricultural abstractions
- Augmentation from surface water and/or groundwater

Station description
Compound Crump weir in main channel plus single crested Crump in mill bypass

036006 Stour at Langham**1981**

Measuring authority: AWA
First year: 1962

Grid reference: 1M 020344
Level stn. (m OD) 6 40

Catchment area (sq km): 578.0
Max alt. (m OD): 128

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2 045	2 265	2 387	4 438	4 173	2 261	1 447	1 359	1 004	2 122	2 574	8 085
2	2 239	2 473	4 674	3 969	3 553	4 045	1 450	1 481	0 996	2 497	1 440	3 877
3	2 434	2 121	8 464	2 879	3 081	2 961	1 480	1 245	0 921	1 802	1 681	2 898
4	2 753	2 538	6 024	3 169	3 831	2 150	1 552	1 219	1 012	1 720	1 622	2 854
5	2 331	2 225	3 972	3 070	3 094	1 836	1 475	1 345	0 860	2 203	1 329	2 613
6	2 058	2 052	6 071	2 458	2 990	1 790	1 414	2 030	0 891	4 008	1 381	2 433
7	1 927	2 012	6 557	2 743	2 604	1 830	1 259	2 657	0 903	5 463	1 310	4 160
8	1 933	2 243	8 759	2 628	2 710	1 707	1 367	0 984	0 868	3 395	1 537	4 174
9	1 998	1 870	11 820	2 612	3 011	1 655	1 812	1 068	1 095	1 517	1 310	3 541
10	3 139	2 300	22 350	3 035	11 470	1 378	2 792	1 156	1 118	1 840	1 287	2 693
11	3 861	2 444	35 400	2 986	7 576	1 574	1 588	1 183	1 052	1 694	1 333	2 394
12	3 509	2 370	33 460	3 703	3 431	1 585	1 253	1 111	1 179	1 645	1 416	2 017
13	5 325	2 387	27 040	2 882	2 650	1 430	1 261	1 227	1 590	1 455	1 432	1 758
14	5 855	2 159	18 490	2 455	2 667	1 333	1 260	1 273	1 191	1 335	1 405	3 391
15	7 592	2 014	13 800	2 537	2 440	1 296	1 223	1 172	1 534	1 275	1 483	3 745
16	5 138	2 145	11 940	2 360	2 465	1 276	1 249	1 223	1 602	1 171	1 581	6 101
17	5 790	1 838	10 380	2 113	2 254	1 239	1 223	1 303	1 313	1 169	1 890	3 887
18	7 737	1 818	8 432	2 099	2 346	1 241	1 210	1 278	1 164	1 120	2 345	2 787
19	7 494	1 771	7 029	2 029	2 489	1 345	1 170	1 734	1 202	1 113	2 345	2 350
20	6 070	1 697	5 487	2 104	2 259	1 472	1 149	0 937	1 702	5 419	7 298	2 265
21	4 197	1 624	4 545	2 024	3 862	1 444	1 150	1 304	1 799	10 830	6 290	2 545
22	8 510	1 671	4 104	2 041	9 208	1 359	1 325	1 204	1 335	4 015	3 489	2 419
23	6 309	1 850	4 249	2 104	4 218	1 360	1 391	1 210	1 156	2 550	2 967	2 055
24	5 247	1 899	4 198	2 214	3 248	1 568	1 460	1 385	1 323	2 270	2 740	1 881
25	4 148	1 830	6 417	3 088	3 222	1 731	1 462	1 166	1 454	2 773	1 747	1 888
26	3 298	1 795	7 633	9 681	4 698	1 671	1 342	1 048	2 272	2 113	1 720	1 743
27	2 113	1 627	7 548	17 370	4 838	1 733	1 259	0 803	3 466	1 363	1 841	1 787
28	2 832	3 765	5 080	19 230	4 946	1 585	1 232	0 928	2 484	2 464	1 905	2 535
29	2 575		4 055	9 193	2 883	1 429	1 213	1 030	1 812	1 826	1 808	13 800
30	2 447		3 875	5 793	2 415	1 436	1 157	1 007	1 182	0 913	1 799	26 800
31	2 412		3 998		2 160		1 279	1 014		1 571		42 940
Average	4 042	2 100	9 775	4 293	3 767	1 691	1 384	1 261	1 382	2 473	2 146	5 362
Lowest	1 927	1 624	2 367	2 024	2 180	1 239	1 149	0 803	0 860	0 913	1 287	1 743
Highest	8 510	3 765	35 400	19 230	11 470	4 045	2 792	2 657	3 466	10 830	7 298	42 940
Peak flow	8 894	4 396	36 250	22 870	14 650	5 161	3 498	3 693	3 931	14 860	11 410	43 850
Day of peak	22	28	11	28	10	2	10	7	27	20	20	31
Monthly total (million cu m)	10 83	5 08	26 18	11 13	10 09	4 38	3.71	3 38	3 58	6 62	5 58	14 38
Runoff (mm)	19	9	45	19	17	8	6	6	6	11	10	25
Rainfall (mm)	38	20	93	57	79	35	48	27	87	67	38	60

Statistics of monthly data for previous record (Oct 1962 to Dec 1980)

Mean flows	4 996	5 254	4 752	3 307	2 251	1 219	0 872	0 883	1 030	1 320	2 583	3 848
Lowest flows	1 398	0 884	1 597	1 218	0 758	0 453	0 180	0 209	0 395	0 509	0 578	0 693
(year)	1965	1965	1978	1974	1974	1965	1976	1976	1964	1970	1964	1964
Highest flows	9 053	12 980	8 923	7 508	5 527	2 457	1 655	2 080	4 955	5 078	11 340	10 550
(year)	1971	1979	1969	1975	1978	1971	1980	1968	1968	1974	1974	1965
Runoff	Avg	23	22	22	15	10	5	4	4	5	6	18
/	Low	6	4	7	5	4	2	1	1	2	3	3
	High	42	54	41	34	28	11	8	10	22	24	40
Rainfall	Avg	47	37	44	44	43	47	45	52	51	44	52
/	Low	15	16	12	12	10	8	11	1	3	20	13
	High	70	83	82	71	74	91	87	105	118	98	155

Summary statistics

	For 1981			For record preceding 1981			1981			Factors affecting flow regime		
Mean flow (m³ s⁻¹)	3 326			2 678			124			● Flow reduced by industrial and/or agricultural abstractions		
Lowest yearly mean				1 428			1973			● Augmentation from surface water and/or groundwater		
Highest yearly mean				4 077			1979			● Augmentation from effluent returns.		
Lowest monthly mean	1 281	Aug	0 190	Jul 1976								
Highest monthly mean	9 775	Mar	12 980	Feb 1979								
Lowest daily mean	0 803	27 Aug	0 094	9 Jul 1976								
Highest daily mean	42 940	31 Dec	40 020	3 Feb 1979								
Peak	43 850	31 Dec	40 980	3 Feb 1979								
10 %ile	6 122		6 033				101					
50 %ile	2 101		1 448				145					
95 %ile	1 067		0 475				224					
Annual total (million cu m)	104 90		84 51				124					
Annual runoff (mm)	181		146				124					
Annual rainfall (mm)	647		568				114					
[1941-70 rainfall average (mm)]	601											

Station description
Twin-throated trapezoidal critical depth flume. Flow augmented as part of Ely-Ouse transfer scheme.

038003 Mimram at Panshanger Park**1981**

Measuring authority: TWA
First year: 1952

Grid reference: TL 282133
Level stn. (m OD) 47 10

Catchment area (sq km): 133 9
Max alt. (m OD): 193

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0 405	0 446	0 502	0 704	0 590	0 783	0 540	0 591	0 411	0 465	0 428	0 452
2	0 411	0 468	0 698	0 645	0 580	0 902	0 543	0 515	0 389	0 434	0 428	0 449
3	0 405	0 466	0 560	0 675	0 726	0 662	0 571	0 490	0 391	0 459	0 425	0 446
4	0 405	0 452	0 491	0 623	0 619	0 638	0 541	0 467	0 401	0 477	0 421	0 459
5	0 410	0 454	0 495	0 625	0 586	0 633	0 542	0 458	0 395	0 464	0 420	0 451
6	0 436	0 453	0 518	0 625	0 562	0 646	0 536	1 034	0 398	0 610	0 415	0 452
7	0 425	0 450	0 548	0 626	0 570	0 632	0 502	0 572	0 406	0 462	0 413	0 541
8	0 425	0 448	0 511	0 625	0 561	0 630	0 487	0 518	0 405	0 446	0 417	0 532
9	0 543	0 486	0 793	0 632	0 642	0 584	0 573	0 504	0 397	0 447	0 413	0 478
10	0 468	0 457	0 767	0 585	0 667	0 631	0 533	0 491	0 428	0 456	0 414	0 468
11	0 443	0 455	0 694	0 623	0 583	0 623	0 504	0 480	0 552	0 444	0 413	0 498
12	0 474	0 456	0 604	0 577	0 569	0 582	0 505	0 475	0 493	0 436	0 415	0 458
13	0 455	0 450	0 680	0 555	0 564	0 578	0 496	0 464	0 432	0 420	0 410	0 481
14	0 476	0 440	0 624	0 546	0 561	0 563	0 493	0 455	0 529	0 417	0 414	0 632
15	0 454	0 446	0 597	0 537	0 671	0 559	0 497	0 447	0 487	0 423	0 412	0 584
16	0 513	0 450	0 596	0 525	0 650	0 554	0 501	0 444	0 432	0 410	0 482	0 536
17	0 465	0 453	0 596	0 523	0 718	0 553	0 503	0 440	0 433	0 448	0 484	0 512
18	0 475	0 448	0 594	0 521	0 626	0 555	0 491	0 436	0 502	0 435	0 474	0 496
19	0 460	0 446	0 580	0 522	0 572	0 558	0 501	0 466	0 855	0 483	0 597	0 490
20	0 460	0 448	0 579	0 536	0 556	0 557	0 497	0 458	0 563	0 785	0 567	0 512
21	0 596	0 445	0 606	0 535	0 619	0 561	0 497	0 438	0 477	0 489	0 468	0 518
22	0 466	0 456	0 874	0 555	0 566	0 552	0 705	0 455	0 461	0 458	0 465	0 490
23	0 450	0 463	0 625	0 543	0 601	0 547	0 641	0 444	0 459	0 448	0 483	0 491
24	0 447	0 450	0 624	0 566	0 577	0 552	0 556	0 440	0 520	0 444	0 445	0 486
25	0 443	0 446	0 628	0 774	0 883	0 546	0 511	0 438	0 581	0 453	0 445	0 479
26	0 436	0 445	0 656	0 790	0 785	0 545	0 500	0 434	0 698	0 438	0 482	0 481
27	0 439	0 465	0 606	0 686	0 670	0 539	0 492	0 426	0 517	0 433	0 471	0 499
28	0 447	0 503	0 618	0 610	0 634	0 545	0 482	0 426	0 488	0 421	0 534	0 546
29	0 442		0 619	0 597	0 621	0 537	0 476	0 427	0 438	0 438	0 485	0 712
30	0 445		0 691	0 597	0 622	0 538	0 473	0 471	0 601	0 485	0 475	0 662
31	0 444		0 660		0 610		0 718	0 413		0 438		0 598
Average	0 454	0 455	0 614	0 601	0 624	0 596	0 529	0 483	0 485	0 463	0 453	0 513
Lowest	0 405	0 440	0 491	0 521	0 556	0 537	0 473	0 413	0 389	0 410	0 410	0 446
Highest	0 596	0 503	0 793	0 790	0 883	0 902	0 718	1 034	0 855	0 785	0 597	0 712
Peak flow	0 726	0 619	1 168	1 257	1 551	1 948	1 383	1 971	1 689	1 392	1 206	0 843
Day of peak	21	28	22	27	15	1	31	6	19	20	19	29
Monthly total (million cu m)	1 22	1 10	1 64	1 56	1 67	1 55	1 42	1 29	1 26	1 24	1 17	1 37
Runoff (mm)	9	8	12	12	12	12	11	10	9	9	9	10
Rainfall (mm)	38	15	101	58	78	31	67	40	87	63	39	53

Statistics of monthly data for previous record (Dec 1962 to Dec 1980)

Mean flows	Avg	0 577	0 648	0 674	0 660	0 612	0 550	0 483	0 449	0 419	0 407	0 444	0 498
	Low	0 245	0 289	0 258	0 260	0 216	0 186	0 163	0 145	0 195	0 175	0 176	0 189
	(year)	1974	1973	1973	1973	1976	1976	1976	1976	1973	1973	1973	1973
	High	1 102	1 167	1 119	1 050	1 084	0 971	0 803	0 764	0 617	0 638	0 739	1 005
	(year)	1961	1961	1961	1979	1979	1979	1979	1968	1968	1960	1960	1960
Runoff	Avg	12	12	13	13	12	11	10	9	8	8	9	10
	Low	5	5	5	5	4	4	3	3	4	4	3	4
	High	22	21	22	20	22	19	16	15	12	13	14	20
Rainfall	Avg	55	45	47	45	47	58	55	60	55	57	62	64
	Low	17	3	3	5	15	5	5	7	5	5	20	13
	High	102	96	116	82	109	122	123	127	121	142	151	119

Summary statistics

	For 1981		For record preceding 1981		1981
Mean flow (m ³ s ⁻¹)	0 523		0 535		98
Lowest yearly mean			0 231		1973
Highest yearly mean			0 767		1961
Lowest monthly mean	0 453	Nov	0 145	Aug 1976	
Highest monthly mean	0 624	May	1 167	Feb 1961	
Lowest daily mean	0 389	2 Sep	0 135	21 Aug 1978	
Highest daily mean	1 034	6 Aug	1 795	30 May 1979	
Peak	1 971	6 Aug	3 541	30 May 1979	
10 %ile	0 639		0 800		80
50 %ile	0 496		0 507		98
95 %ile	0 412		0 225		183
Annual total (million cu m)	16 49		16 87		98
Annual runoff (mm)	173		126		98
Annual rainfall (mm)	670		650		103
[1941-70 rainfall average (mm)]			645		

Factors affecting flow regime

- Flow influenced by groundwater abstraction and/or recharge
- Flow reduced by industrial and/or agricultural abstractions

Station description
Trapezoidal critical depth flume measures up to 11 3 cu m/s

038007 Canons Brook at Elizabeth Way 1981

Measuring authority TWA
First year 1950

Grid reference TL 431104
Level stn (m OD) 37 54

Catchment area (sq km) 21.4
Max alt (m OD) 110

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.066	0.063	0.275	0.570	0.144	0.156	0.069	0.208	0.066	0.196	0.104	0.118
2	0.069	0.119	1.008	0.274	0.131	0.122	0.072	0.080	0.064	0.109	0.088	0.102
3	0.066	0.111	0.394	0.191	0.430	0.089	0.070	0.068	0.063	0.142	0.084	0.097
4	0.063	0.080	0.199	0.154	0.246	0.088	0.068	0.064	0.064	0.190	0.084	0.118
5	0.063	0.069	0.192	0.141	0.220	0.086	0.068	0.066	0.064	0.112	0.081	0.106
6	0.080	0.067	0.193	0.132	0.141	0.181	0.068	0.525	0.070	0.506	0.079	0.107
7	0.052	0.066	0.225	0.127	0.153	0.104	0.068	0.120	0.067	0.165	0.081	0.349
8	0.052	0.068	0.184	0.112	0.100	0.088	0.070	0.089	0.048	0.130	0.081	0.377
9	0.225	0.109	1.008	0.112	0.405	0.083	0.254	0.074	0.050	0.124	0.080	0.222
10	0.079	0.069	1.108	0.271	0.410	0.234	0.068	0.066	0.214	0.156	0.080	0.162
11	0.065	0.066	0.774	0.397	0.174	0.152	0.060	0.062	0.362	0.101	0.081	0.190
12	0.152	0.068	0.326	0.150	0.122	0.077	0.060	0.062	0.101	0.091	0.080	0.183
13	0.128	0.064	0.369	0.131	0.102	0.068	0.058	0.063	0.073	0.069	0.078	0.318
14	0.156	0.062	0.329	0.117	0.088	0.069	0.057	0.064	0.314	0.073	0.078	1.498
15	0.102	0.063	0.253	0.110	0.399	0.069	0.057	0.065	0.119	0.076	0.078	0.871
16	0.302	0.064	0.228	0.111	0.176	0.068	0.057	0.068	0.064	0.068	0.342	0.317
17	0.176	0.063	0.215	0.111	0.222	0.066	0.094	0.069	0.061	0.131	0.182	0.200
18	0.207	0.063	0.165	0.108	0.128	0.067	0.064	0.071	0.378	0.087	0.299	0.148
19	0.155	0.061	0.141	0.110	0.133	0.068	0.060	0.188	0.992	0.460	0.512	0.121
20	0.152	0.060	0.134	0.108	0.133	0.068	0.062	0.069	0.179	0.865	0.447	0.158
21	0.180	0.060	0.146	0.110	0.341	0.065	0.068	0.063	0.080	0.197	0.201	0.208
22	0.190	0.110	0.162	0.165	0.239	0.071	0.218	0.109	0.067	0.123	0.144	0.146
23	0.144	0.086	0.213	0.115	0.292	0.079	0.459	0.063	0.061	0.098	0.201	0.120
24	0.118	0.065	0.319	0.202	0.273	0.080	0.137	0.063	0.726	0.120	0.109	0.129
25	0.096	0.063	0.349	0.619	0.106	0.064	0.061	0.064	0.375	0.144	0.098	0.116
Average	0.122	0.081	0.361	0.214	0.246	0.089	0.119	0.093	0.203	0.170	0.151	0.371
Lowest	0.052	0.060	0.134	0.108	0.088	0.060	0.054	0.061	0.048	0.068	0.078	0.097
Highest	0.380	0.185	1.108	0.662	1.063	0.234	0.958	0.525	0.992	0.865	0.512	2.238
Peak flow	1.427	0.934	3.156	1.679	3.523	1.789	6.408	4.992	3.884	3.996	2.016	3.670
Day of peak	9	27	2	10	15	6	31	6	19	20	16	29
Monthly total (million cu m)	0.33	0.20	0.97	0.55	0.66	0.23	0.32	0.25	0.53	0.46	0.39	0.99
Runoff (mm)	15	9	45	26	31	11	15	17	25	21	18	46
Rainfall (mm)	33	15	86	43	67	23	60	27	113	61	40	63

Statistics of monthly data for previous record (Oct 1985 to Dec 1980—Incomplete or missing months total 0.4 years).

Mean flows (year)	Avg	0.314	0.330	0.256	0.190	0.181	0.121	0.112	0.124	0.117	0.142	0.217	0.254
Lowest (year)	Low	0.059	0.062	0.054	0.074	0.073	0.067	0.060	0.034	0.056	0.043	0.057	0.092
Highest (year)	High	0.470	0.883	0.468	0.385	0.420	0.249	0.210	0.194	0.294	0.332	0.794	0.507
Runoff	Avg	39	38	32	23	23	15	14	15	14	18	26	32
Low	7	7	7	9	9	8	8	4	7	5	7	11	
High	59	100	59	47	53	30	26	24	36	42	96	64	
Rainfall	Avg (1967-80)	54	42	49	39	52	48	44	57	54	49	63	52
Low	14	12	10	13	16	19	14	2	9	3	18	21	
High	91	84	92	58	98	90	90	131	136	114	152	115	

Summary statistics

	For 1981	For record preceding 1981	As % of pre-1981	Factors affecting flow regime
Mean flow (m³ s⁻¹)	0.186	0.196	95	1981
Lowest yearly mean		0.095	1973	
Highest yearly mean		0.241	1979	
Lowest monthly mean	0.081	Feb 0.034	Aug 1976	
Highest monthly mean	0.371	Dec 0.883	Feb 1977	
Lowest daily mean	0.048	8 Sep 0.025	5 Sep 1976	
Highest daily mean	2.238	29 Dec 5.369	5 May 1978	
Peak	6.408	31 Jul 11.700	30 May 1979	
10 %ile	0.384	0.409	94	
50 %ile	0.111	0.103	109	
95 %ile	0.060	0.046	132	
Annual total (million cu m)	5.87	6.18	95	
Annual runoff (mm)	274	289	95	
Annual rainfall (mm)	631	603	105	
(1941-70 rainfall average (mm))		613]		

Station description

Rectangular critical depth flume. Crump weir installed for low flow measurement in 1965 removed 1980

039001 Thames at Kingston**1981**

Measuring authority: TWA
First year: 1975

Grid reference: TQ 177698
Level stat. (m OD) 1.06

Catchment area (sq km) 9948.0
5.0 Max alt. (m OD) 330

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	56 500	46 800	55 900	215 000	85 100	84 600	33 100	55 000	12 100	98 800	71 400	63 800
2	55 100	47 200	137 000	215 000	70 200	176 000	30 600	33 000	12 700	88 900	67 000	50 200
3	51 000	50 100	212 000	177 000	70 500	192 000	30 200	33 700	13 600	64 100	61 100	43 900
4	47 800	56 200	177 000	119 000	80 600	125 000	28 800	22 500	11 500	61 500	47 600	52 200
5	46 900	57 500	128 000	116 000	77 600	88 800	30 600	21 600	9 870	52 200	51 700	48 700
6	49 600	43 400	107 000	101 000	70 500	84 900	27 700	104 000	9 540	74 200	43 200	52 100
7	51 600	41 500	102 000	98 400	64 200	72 900	26 600	106 000	8 810	92 800	41 700	57 800
8	57 000	43 500	162 000	92 700	62 000	80 500	26 300	59 100	9 430	57 600	40 700	101 000
9	55 200	44 800	198 000	81 000	59 800	71 100	23 400	46 800	9 430	63 100	43 300	113 000
10	58 600	48 400	223 000	91 400	75 100	65 300	23 200	46 300	7 440	62 900	40 800	89 800
11	63 600	49 000	244 000	86 100	76 700	70 400	20 200	41 800	11 100	62 800	40 900	82 300
12	62 100	49 100	255 000	83 600	68 700	69 600	23 500	19 200	20 800	62 600	40 100	67 500
13	58 800	46 200	252 000	79 800	55 100	59 900	21 000	21 700	19 600	45 900	38 800	69 600
14	59 500	41 900	264 000	104 000	52 700	54 400	17 700	23 500	15 800	50 200	36 400	214 000
15	80 900	39 400	251 000	95 900	55 300	52 700	20 800	22 000	24 900	50 900	32 500	296 000
16	88 100	38 500	234 000	68 000	72 200	49 100	20 900	19 200	18 400	50 600	38 500	262 000
17	92 900	30 600	189 000	70 200	74 900	49 000	17 900	16 700	13 400	53 000	58 700	212 000
18	102 000	30 800	140 000	64 600	77 300	45 400	19 000	15 300	19 400	68 400	82 100	130 000
19	95 500	31 100	120 000	57 500	78 100	45 800	20 800	13 800	29 500	63 000	83 300	98 600
20	91 000	30 400	108 000	61 600	83 900	44 400	21 600	14 100	84 900	118 000	104 000	92 400
21	92 200	24 400	98 900	60 900	104 000	48 200	21 000	16 500	47 300	162 000	124 000	138 000
22	96 400	26 000	157 000	60 300	83 200	38 300	34 300	16 500	41 100	129 000	109 000	143 000
23	94 200	33 700	187 000	57 000	73 100	40 800	37 700	16 400	20 500	86 000	83 900	114 000
24	78 700	39 700	184 000	56 300	91 700	38 700	37 100	14 900	22 500	75 500	75 900	84 300
25	70 400	39 100	183 000	62 800	155 000	39 100	29 700	14 300	33 000	76 600	56 500	88 600
26	61 100	40 300	182 000	112 000	247 000	33 800	27 900	12 100	114 000	90 500	60 000	82 000
27	60 200	38 500	143 000	164 000	249 000	35 900	20 600	14 200	143 000	74 600	55 700	77 500
28	55 400	37 600	114 000	173 000	194 000	34 300	18 100	13 100	29 700	70 100	77 900	96 800
29	55 100	117 000	153 000	156 000	35 300	21 900	12 000	55 000	65 500	67 500	204 000	
30	54 100	127 000	121 000	106 000	33 300	19 500	11 700	81 900	63 100	71 400	282 000	
31	47 300	191 000	91 800	25 100	25 100	11 500	68 900	251 000				
Average	67 380	40 920	169 400	103 300	95 530	65 320	25 060	28 660	33 340	74 300	61 520	121 400
Lowest	46 900	24 400	55 900	56 300	52 700	33 300	17 700	11 500	7 440	45 900	32 500	48 700
Highest	102 000	57 500	264 000	215 000	249 000	192 000	37 700	106 000	143 000	162 000	124 000	296 000
Peak flow	114 000	96 400	282 000	240 000			61 800	142 000	166 000	184 000	141 000	337 000
Day of peak	19	8	12	1			22	6	27	21	21	15
Monthly total (million cu m)	180 50	98 99	453 80	267 70	255 90	169 30	67 12	76 77	86 42	199 00	159 50	325 20
Runoff (mm)	18	10	46	27	26	17	7	8	9	20	16	31
Rainfall (mm)	38	24	129	48	95	36	45	47	125	80	42	85

Statistics of monthly data for previous record (Jan 1883 to Dec 1980)

Mean flows	Avg	127 400	125 700	105 100	74 460	53 320	36 840	23 900	22 340	23 990	38 410	73 190	101 800
	Low	18 570	12 290	9 426	8 975	4 391	3 302	2 080	1 912	0 688	3 157	7 484	10 210
	(year)	1976	1976	1976	1976	1976	1976	1976	1976	1976	1976	1976	1976
	High	325 300	342 000	359 500	188 800	171 700	171 600	72 280	79 330	123 900	179 800	334 000	333 900
	(year)	1915	1904	1947	1916	1932	1903	1968	1931	1927	1903	1894	1929
Runoff	Avg	34	31	28	20	14	10	7	6	6	11	19	27
	Low	7	4	4	5	2	2	1	1	1	1	2	3
	High	88	66	97	49	46	45	19	21	32	48	87	90
Rainfall	Avg	65	50	51	48	53	52	59	65	57	72	73	72
	Low	18	3	3	3	8	3	8	3	3	5	8	13
	High	137	177	142	104	137	137	147	157	188	188	188	185

Summary statistics

	For 1981	For record preceding 1981	1981 As % of pre-1981
Mean flow (m³ s⁻¹)	74 200	66 930	111
Lowest yearly mean		20 410	1934
Highest yearly mean		120 000	1951
Lowest monthly mean	25 060	Jul 0 688	Sep 1976
Highest monthly mean	169 400	Mar 359 500	Mar 1947
Lowest daily mean	7 440	10 Sep 0 010	11 Oct 1976
Highest daily mean	296 000	15 Dec 1059 000	18 Nov 1984
Peak	337 000	15 Dec	
10 %ile	155 900	163 000	96
50 %ile	59 430	41 850	142
95 %ile	13 900	9 144	152
Annual total (million cu m)	2340 00	2112 00	111
Annual runoff (mm)	235	212	111
Annual rainfall (mm)	794	717	111
	[1941-70 rainfall average (mm)]	682]	

Factors affecting flow regime

• Abstraction for public water supplies

Station description
Ultrasonic gauging station installed 1975. Earlier data derived from the Teddington gauging station, a low flow gauging weir with adjustable crest 21.3 m broad, two roller sluices each 10.7 m broad, 35 vertically lifting gates total breadth, 68.2 m, and 34 radial gates each 3.07 m broad. Naturalised flows are determined by taking account of abstractions for public water supply.

039001 Thames at Kingston**1981**

Measuring authority TWA
First year 1975

Grid reference TQ 177698
Level stat (m OD) 106

Catchment area (sq km) 9948.0
5.0 Max alt (m OD) 330

Daily mean naturalised discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	73 100	67 000	83 100	228 000	104 000	99 200	52 600	72 200	31 700	113 000	85 400	82 800
2	71 700	66 200	159 000	227 000	86 200	192 000	50 700	50 800	31 000	104 000	84 000	72 400
3	67 600	68 300	232 000	192 000	87 300	209 000	50 700	52 200	31 700	80 300	76 600	66 600
4	65 700	79 100	196 000	135 000	96 700	142 000	48 700	42 500	30 900	77 600	63 800	69 100
5	65 200	81 100	139 000	132 000	93 400	106 000	48 900	40 600	29 000	72 100	68 100	68 800
6	68 500	63 000	127 000	117 000	84 000	102 000	45 600	120 000	29 200	93 300	61 100	69 400
7	69 300	60 200	128 000	115 000	81 800	91 100	45 500	125 000	29 600	111 000	61 800	72 400
8	74 300	62 700	189 000	109 000	78 700	93 400	46 600	79 100	30 300	75 400	61 000	116 000
9	74 000	63 200	216 000	96 300	77 600	89 100	45 100	67 600	29 700	79 100	60 600	127 000
10	75 700	65 700	242 000	105 000	92 800	82 000	43 500	64 400	28 300	79 100	57 100	104 000
11	82 300	67 800	267 000	101 000	97 100	90 300	39 800	60 600	31 300	78 900	57 800	98 900
12	80 300	67 300	277 000	97 900	89 900	87 100	44 900	36 500	39 100	78 600	57 500	87 000
13	76 700	63 500	273 000	96 000	74 000	78 300	42 800	40 100	37 700	63 800	57 200	90 100
14	76 800	61 000	289 000	120 000	71 400	73 800	41 200	41 500	38 500	67 200	55 400	230 000
15	99 400	56 700	274 000	114 000	77 700	70 300	43 200	40 800	48 600	67 800	53 100	314 000
16	107 000	59 900	253 000	84 900	92 300	69 300	40 800	38 600	41 300	66 700	56 600	279 000
17	111 000	55 500	218 000	85 100	91 200	67 600	41 600	37 000	36 300	69 600	73 700	228 000
18	121 000	55 300	160 000	80 900	93 100	65 400	42 000	37 700	39 800	85 700	96 800	145 000
19	112 000	54 500	139 000	74 200	92 200	66 300	41 600	37 600	49 600	81 300	97 600	116 000
20	109 000	56 300	127 000	76 500	100 000	64 400	41 400	37 400	104 000	136 000	121 000	110 000
21	109 000	53 100	117 000	75 100	122 000	64 200	40 300	36 200	67 300	179 000	146 000	156 000
22	113 000	53 800	173 000	75 300	102 000	59 800	55 700	36 400	61 800	147 000	131 000	162 000
23	111 000	58 100	208 000	73 100	90 400	61 000	55 400	36 100	40 100	102 000	97 900	132 000
24	95 600	60 100	204 000	72 400	111 000	61 700	55 300	35 100	42 700	92 600	90 400	101 000
25	86 100	59 200	204 000	79 500	177 000	61 000	48 000	34 900	51 900	94 100	72 000	102 000
Average	85 000	62 340	189 500	119 400	113 200	84 110	45 090	48 250	53 250	91 050	79 030	138 100
Lowest	65 200	53 100	83 100	72 400	71 400	50 700	37 500	30 300	28 300	63 800	53 100	66 600
Highest	121 000	81 100	289 000	228 000	267 000	209 000	55 700	125 000	162 000	179 000	146 000	314 000

Monthly total (million cu m) 227.70 150.80 507.40 309.40 303.20 218.00 120.80 129.20 138.00 243.90 204.80 369.90

Nat. used runoff (mm)	23	15	51	31	30	22	12	13	14	25	21	37
Rainfall (mm)	38	24	129	48	95	36				80		85

Statistics of monthly data for previous record (Jan 1883 to Dec 1980)

Mean flow (m³ s⁻¹)	92 690	77 250	34 750	32 220	34 190	48 960	83 430	111 800
Lowest yearly mean flow (year)	32 200	25 080	27 340	26 520	18 700	13 470	10 770	11 030
Highest yearly mean flow (year)	322 900	348 100	370 900	199 800	181 300	178 700	88 840	139 400
Avg flow (year)	1915	1904	1947	1951	1932	1903	1968	1931
Nat. used runoff (mm)	37	33	31	22	17	12	9	9
Lowest yearly mean runoff (mm)	9	6	7	5	4	3	3	4
Highest yearly mean runoff (mm)	90	88	100	52	49	47	24	36
Rainfall Avg (mm)	65	50	51	48	53	52	59	65
Lowest yearly mean rainfall (mm)	18	3	3	3	8	3	8	3
Highest yearly mean rainfall (mm)	137	127	142	104	137	137	130	147

Summary statistics (naturalised flows)

	For 1981	For record preceding 1981	1981 As % of pre 1981	Factors affecting flow regime
Mean flow (m³ s⁻¹)	92 690	77 250	120	• Abstraction for public water supplies
Lowest yearly mean flow (mm)	30 940	1934		
Highest yearly mean flow (mm)	131 800	1951		
Lowest monthly mean flow (mm)	Jul 10 770	Jul 1921		
Highest monthly mean flow (mm)	Mar 370 900	Mar 1947		
Lowest daily mean flow (mm)	28 300	10 Sep 7 370	9 Jul 1934	
Highest daily mean flow (mm)	314 000	15 Dec 1065 000	18 Nov 1894	
10 %ile flow (mm)	175 600	173 400	101	
50 %ile flow (mm)	77 210	52 340	148	
95 %ile flow (mm)	35 460	18 010	197	
Annual total (million cu m)	2923.00	2438.00	120	
Annual runoff (mm)	294	245	120	
Annual rainfall (mm)	794	717	111	
[1941-70 rainfall average (mm)]		682]		

Station description

Ultrasonic gauging station installed 1975. Earlier data derived from the Teddington gauging station: a low flow gauging weir with adjustable crest 21.3 m broad, two roller sluices each 10.7 m broad, 35 vertically lifting gates total breadth 68.2 m, and 34 radial gates each 3.07 m broad. Naturalised flows are determined by taking account of abstractions for public water supply.

039007 Blackwater at Swallowfield**1981**

Measuring authority: TWA
First year: 1952

Grid reference: SU 731648
Level stn. (m OD) 42.28

Catchment area (sq km) 354.8
Max alt. (m OD) 225

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	2 430	2 420	3 800	9 630	3 270	3 630	1 800	4 380	1 430	5 750	2 890	2 920	
2	2 450	2 560	9 840	5 960	2 970	13 400	1 780	7 460	1 420	3 870	2 760	2 720	
3	2 460	3 400	11 700	4 670	3 190	7 170	1 760	1 890	1 420	3 130	2 660	2 660	
4	2 380	2 820	5 890	4 030	3 480	4 590	1 730	1 750	1 390	2 660	2 870	2 700	
5	2 320	2 590	4 740	3 710	3 150	3 720	1 700	1 720	1 380	2 470	2 590	2 660	
6	2 950	2 470	5 040	3 470	3 000	3 330	1 680	6 470	1 400	5 300	2 520	2 650	
7	3 050	2 420	5 390	3 250	2 770	3 090	1 610	5 660	1 440	4 940	2 510	3 130	
8	2 720	2 400	7 110	3 120	2 810	3 050	1 630	3 110	1 430	3 270	2 440	6 450	
9	3 240	2 460	9 110	2 940	3 500	2 890	1 620	2 570	1 400	3 800	2 350	4 230	
10	3 260	2 370	10 100	3 020	3 800	2 820	1 600	2 240	1 380	3 730	2 300	3 520	
11	2 900	2 350	10 600	3 590	3 190	3 630	1 580	2 020	1 730	3 530	2 300	3 510	
12	2 950	2 330	7 910	2 990	2 810	3 040	1 590	1 930	2 850	3 770	2 280	3 240	
13	2 930	2 270	9 470	2 840	2 630	2 650	1 580	1 820	1 860	3 100	2 190	6 320	
14	4 200	2 290	7 390	7 600	2 480	2 420	1 570	1 740	1 860	2 830	2 250	21 000	
15	3 860	2 260	6 820	4 160	2 820	2 300	1 460	1 690	2 890	3 260	2 180	13 000	
16	3 960	2 240	5 050	3 330	3 680	2 230	1 520	1 570	1 980	2 920	2 660	6 950	
17	3 900	2 250	4 430	2 930	3 330	2 160	1 560	1 530	1 800	2 870	4 440	5 010	
18	3 800	2 300	3 990	2 610	3 140	2 160	1 560	1 490	2 120	3 680	4 430	4 010	
19	3 780	2 310	3 650	2 530	3 300	2 120	1 490	1 480	4 300	3 180	5 150	3 510	
20	3 650	2 200	3 430	2 430	4 620	2 090	1 450	1 570	7 760	9 250	5 660	6 480	
21	4 610	2 230	4 440	2 360	3 410	1 990	1 450	1 530	3 210	5 140	4 090	8 520	
22	3 890	2 430	6 900	2 460	3 050	1 980	3 280	1 540	2 390	3 750	3 550	6 500	
23	3 490	2 270	5 640	2 470	3 490	1 940	4 140	1 490	2 160	3 230	3 240	5 000	
24	3 320	2 170	4 800	2 560	3 990	2 000	3 070	1 460	2 490	3 020	3 040	4 310	
25	3 060	2 170	5 190	3 750	15 400	1 960	2 240	1 470	2 960	3 550	2 830	3 810	
26	2 890	2 170	5 190	7 480	13 300	1 970	1 940	1 460	11 900	3 490	2 830	3 630	
27	2 760	2 390	4 170	7 810	6 640	1 970	1 730	1 440	5 630	3 190	3 980	4 320	
28	2 660	3 410	3 680	4 710	5 270	1 890	1 730	1 440	3 540	3 040	3 820	5 880	
29	2 640		3 850	3 930	4 240	1 830	1 650	1 490	3 000	3 410	3 230	14 500	
30	2 540		6 220	3 680	3 790	1 870	1 540	1 390	5 290	3 240	3 190	10 200	
31			2 470	9 750		3 600		2 880	1 340		3 290		6 520
Average	3 146	2 427	6 300	4 001	4 197	3 063	1 868	2 101	2 860	3 731	3 108	5 802	
Lowest	2 320	2 170	3 430	2 360	2 480	1 830	1 450	1 340	1 380	2 470	2 180	2 650	
Highest	4 610	3 410	11 700	9 630	15 400	13 400	4 140	6 470	11 900	9 250	5 660	21 000	
Peak flow	4 930	3 940	15 900	12 000	20 500	15 400	6 970	9 090	14 300	12 300	6 590	21 700	
Day of peak	21	28	2	1	25	2	31	6	26	20	20	14	
Monthly total (million cu m)	8 43	5 87	16 87	10 37	11 24	7 94	5 00	5 63	7 41	9 99	8 06	15 54	
Runoff (mm)	24	17	48	29	32	22	14	16	21	28	23	44	
Rainfall (mm)	35	21	125	49	88	42	59	33	131	77	41	90	

Statistics of monthly data for previous record (Oct 1952 to Dec 1980)

Mean flows	Avg	4 626	4 165	3 688	2 915	2 416	1 886	1 410	1 459	1 788	2 416	3 326	3 878
	Low	1 758	1 687	1 323	1 521	1 081	0 767	0 711	0 723	0 638	0 907	1 262	1 298
	(year)	1954	1965	1953	1976	1956	1953	1953	1953	1959	1959	1964	1953
	High	8 000	7 292	6 898	5 600	5 946	6 472	2 316	2 622	6 609	7 613	8 019	7 022
	(year)	1975	1966	1979	1966	1978	1971	1968	1977	1968	1960	1960	1960
Runoff	Avg	35	29	28	21	18	14	11	11	13	18	24	29
	Low	13	12	10	11	8	6	5	5	5	7	9	10
	High	60	50	52	41	45	47	17	20	48	57	59	53
Rainfall	Avg	67	46	50	45	52	52	56	62	66	68	74	72
	Low	15	5	3	8	8	5	18	17	3	6	18	18
	High	124	108	114	106	128	144	104	117	167	208	179	167

Summary statistics

	For 1981	For record preceding 1981	1981 As % of pre 1981	● Augmentation from effluent returns
Mean flow (m³ s⁻¹)	3 563	2 825	126	
Lowest yearly mean		1 466	1953	
Highest yearly mean		3 730	1979	
Lowest monthly mean	1 868	Jul 0 638	Sep 1959	
Highest monthly mean	6 300	Mar 8 019	Nov 1960	
Lowest daily mean	1 340	31 Aug 0 464	18 Aug 1953	
Highest daily mean	21 000	14 Dec 39 200	16 Sep 1968	
Peak	21 700	14 Dec 41 000	16 Sep 1968	
10 %ile	6 227	5 417	115	
50 %ile	2 952	2 028	146	
95 %ile	1 467	0 842	174	
Annual total (million cu m)	112 40	89 16	126	
Annual runoff (mm)	317	251	126	
Annual rainfall (mm)	791	710	111	
[1941-70 rainfall average (mm)]		708]		

Station description

Critical depth flume and side weir 9 m broad 1970 onwards 2 Crump weirs, main 4.57 m broad, side 2.7 m broad

039020 Coln at Bibury

1981

Measuring authority TWA
First year 1963

Grid reference SP 122062
Level stat (m OD) 100.65

Catchment area (sq km) 106.7
Max alt (m OD) 330

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1 860	1 510	1 350	3 100	2 060	1 990	1 300	0 861	0 634	0 823	1 290	1 320
2	1 860	1 520	1 430	2 960	2 060	2 090	1 270	0 848	0 605	0 836	1 270	1 330
3	1 810	1 570	1 450	2 880	2 100	2 050	1 270	0 832	0 601	0 852	1 270	1 350
4	1 780	1 520	1 400	2 830	2 090	2 010	1 240	0 812	0 592	0 873	1 260	1 340
5	1 750	1 490	1 470	2 780	2 030	2 010	1 210	0 821	0 587	0 888	1 250	1 350
6	1 710	1 470	1 560	2 720	2 010	2 040	1 180	0 866	0 587	0 921	1 240	1 370
7	1 670	1 440	1 750	2 710	1 980	2 040	1 180	0 875	0 587	0 949	1 230	1 410
8	1 630	1 440	1 780	2 680	1 930	2 000	1 160	0 838	0 591	0 960	1 210	1 410
9	1 650	1 460	1 830	2 600	1 920	1 950	1 160	0 819	0 583	0 967	1 200	1 380
10	1 610	1 430	2 050	2 460	1 920	1 940	1 140	0 809	0 589	1 020	1 190	1 350
11	1 560	1 400	2 280	2 410	1 860	1 930	1 120	0 787	0 595	1 030	1 180	1 330
12	1 550	1 380	2 490	2 340	1 830	1 880	1 110	0 770	0 599	1 030	1 170	1 260
13	1 520	1 350	2 690	2 270	1 790	1 860	1 090	0 766	0 593	1 030	1 150	1 260
14	1 560	1 340	2 860	2 240	1 740	1 810	1 070	0 759	0 620	1 040	1 140	1 360
15	1 560	1 320	2 900	2 190	1 720	1 780	1 060	0 749	0 614	1 060	1 130	1 510
16	1 520	1 310	2 900	2 140	1 740	1 740	1 060	0 733	0 600	1 040	1 140	1 550
17	1 520	1 290	2 880	2 110	1 730	1 700	1 050	0 685	0 601	1 020	1 140	1 620
18	1 490	1 270	2 910	2 060	1 740	1 680	1 040	0 748	0 618	1 030	1 160	1 660
19	1 510	1 260	2 820	2 020	1 750	1 650	1 030	0 742	0 667	1 060	1 180	1 720
20	1 510	1 260	2 770	1 980	1 790	1 620	1 010	0 740	0 679	1 180	1 220	1 790
21	1 520	1 250	3 150	1 930	1 780	1 570	1 000	0 719	0 659	1 200	1 190	1 900
22	1 530	1 260	3 230	1 920	1 740	1 540	1 010	0 771	0 668	1 170	1 190	1 790
23	1 520	1 250	3 250	1 870	1 790	1 480	1 010	0 687	0 664	1 190	1 200	1 750
24	1 530	1 220	3 270	1 870	1 770	1 440	0 975	0 705	0 675	1 230	1 250	1 710
25	1 560	1 220	3 350	1 850	1 840	1 430	0 943	0 684	0 686	1 310	1 260	1 680
26	1 570	1 210	3 340	1 930	1 930	1 410	0 927	0 658	0 741	1 270	1 290	1 650
27	1 530	1 220	3 360	2 060	1 890	1 380	0 907	0 656	0 740	1 290	1 340	1 640
28	1 540	1 330	3 340	2 080	1 890	1 350	0 889	0 654	0 728	1 290	1 360	1 760
29	1 530	1 330	3 320	2 120	1 930	1 340	0 880	0 652	0 748	1 320	1 350	2 260
30	1 530	1 320	3 290	2 090	1 950	1 310	0 867	0 643	0 791	1 320	1 340	2 370
31	1 510	1 310	3 140	1 960			0 876	0 648		1 310		2 670
Average	1 597	1 357	2 568	2 307	1 879	1 734	1 066	0 751	0 641	1 081	1 226	1 608
Lowest:	1 490	1 210	1 350	1 850	1 720	1 310	0 867	0 643	0 583	0 823	1 130	1 260
Highest:	1 860	1 570	3 360	3 100	2 100	2 090	1 300	0 875	0 791	1 320	1 360	2 670
Peak flow	1 920	1 680	3 470	3 200	2 320	2 160	1 330	0 909	0 859	1 470	1 410	2 790
Day of peak	1	3	28	1	6	2	3	7	25	29	18	31
Monthly total (million cu m)	4.28	3.28	6.88	5.98	5.03	4.50	2.85	2.01	1.66	2.90	3.18	4.31
Runoff (mm)	40	31	64	56	47	42	27	19	16	27	30	40
Rainfall (mm)	38	38	126	55	92	40	39	55	149	72	44	107

Statistics of monthly data for previous record (Oct 1963 to Dec 1980)

Mean flows (year)	1 955	2 379	2 204	1 742	1 260	1 104	0 847	0 679	0 589	0 643	0 974	1 518
Lowest (year)	0 374	0 380	0 383	0 371	0 334	0 290	0 243	0 207	0 202	0 259	0 344	0 375
High (year)	1 976	1 976	1 976	1 976	1 976	1 976	1 976	1 976	1 976	1 976	1 973	1 975
Runoff (low)	49	54	55	42	32	27	21	17	14	16	24	38
Runoff (high)	9	9	10	9	8	7	6	5	5	7	8	9
Rainfall (low)	78	82	85	83	55	56	34	26	22	33	66	76
Rainfall (high)	126	159	143	90	161	155	120	149	149	171	163	159

Summary statistics

	For 1981	For record preceding 1981	1981 As % of pre-1981	Factors affecting flow regime
Mean flow (m³ s⁻¹)	1 486	1 319	11.3	● Flow influenced by groundwater abstraction and/or recharge
Lowest yearly mean	0 400			
Highest yearly mean	1 771			
Lowest monthly mean	0 641	Sep 0 202	Sep 1976	
Highest monthly mean	2 568	Mar 3 616	Feb 1977	
Lowest daily mean	0 583	9 Sep 0 190	23 Aug 1976	
Highest daily mean	3 360	27 Mar 4 870	22 Dec 1965	
Peak	3 470	28 Mar 5 000	22 Dec 1965	
10 %ile	2 257	2 598	87	
50 %ile	1 363	1 038	131	
95 %ile	0 640	0 371	173	
Annual total (million cu m)	46.86	41.63	11.3	
Annual runoff (mm)	439	390	113	
Annual rainfall (mm)	855	805	106	
[1941-70 rainfall average (mm)]		823		

Station description
Crump weir 9.1 m broad

040005 Beult at Stile Bridge**1981**

Measuring authority: SWA
First year: 1958

Grid reference: TQ 758478
Level stat. (m OD) 11.49

Catchment area (sq km): 277.1
Max alt. (m OD): 160

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.832	0.627	7.813	7.473	0.517	1.222	0.303	0.280	0.102	0.920	2.268	0.773
2	0.783	0.621	9.330	3.948	0.452	2.470	0.293	0.228	0.097	0.575	1.582	0.674
3	0.824	0.878	11.030	1.691	0.546	1.257	0.274	0.173	0.092	0.731	1.205	0.624
4	0.687	0.884	5.761	1.038	1.388	0.718	0.265	0.154	0.090	1.999	1.024	0.665
5	0.542	0.679	3.029	0.819	0.858	0.562	0.235	0.139	0.084	1.174	0.956	0.656
6	0.516	0.569	2.053	0.684	0.599	0.488	0.222	0.181	0.084	3.412	0.814	0.680
7	0.473	0.550	3.862	0.552	0.522	0.445	0.197	0.166	0.084	6.328	0.710	0.790
8	0.448	0.537	8.672	0.452	0.525	0.432	0.186	0.362	0.155	1.758	0.606	8.125
9	0.570	0.561	11.140	0.374	1.715	0.332	0.288	0.252	0.090	1.482	0.543	6.381
10	0.991	0.541	14.410	0.352	4.254	0.346	0.378	0.209	0.083	1.351	0.514	2.298
11	0.802	0.468	10.700	0.562	2.708	0.363	0.299	0.176	0.083	1.785	0.509	7.513
12	0.841	0.474	5.537	0.450	1.150	0.345	0.260	0.151	0.087	2.250	0.440	8.199
13	0.881	0.440	3.358	0.331	0.728	0.324	0.227	0.131	0.089	2.350	0.395	5.415
14	1.563	0.393	4.713	0.303	0.552	0.311	0.196	0.127	0.096	1.244	0.366	29.700
15	3.471	0.371	3.311	0.293	0.631	0.304	0.172	0.123	0.190	1.073	0.359	22.790
16	1.853	0.371	3.973	0.518	3.264	0.290	0.177	0.108	0.183	1.347	0.387	6.206
17	2.379	0.362	2.942	0.481	1.197	0.278	0.168	0.103	0.153	5.497	3.717	2.821
18	1.593	0.381	2.421	0.424	2.204	0.263	0.177	0.097	0.128	13.260	3.568	1.699
19	1.524	0.381	1.821	0.409	6.386	0.268	0.191	0.095	0.266	5.674	8.259	1.175
20	1.230	0.385	1.414	0.413	2.469	0.275	0.178	0.124	1.140	9.025	7.523	1.090
21	2.125	0.391	1.246	0.346	6.173	0.280	0.176	0.124	0.667	6.048	4.355	1.573
22	4.128	0.441	1.480	0.296	3.858	0.237	0.233	0.115	0.402	2.375	2.536	2.347
23	2.260	0.932	2.649	0.286	5.986	0.212	0.293	0.117	0.300	1.354	1.951	2.407
24	1.743	0.832	3.307	0.320	7.804	0.415	0.329	0.116	0.330	1.273	1.554	2.162
25	1.375	0.582	3.307	0.537	3.895	0.492	0.278	0.110	5.773	7.240	1.079	2.462
26	1.058	0.521	6.406	0.704	2.973	0.454	0.237	0.107	8.616	5.475	0.774	2.192
27	0.898	0.537	3.744	0.645	1.625	0.676	0.246	0.103	10.050	3.658	0.877	5.675
28	0.826	7.070	2.024	0.556	1.138	0.668	0.201	0.106	2.435	2.599	0.908	12.930
29	0.804	1.479	0.583	0.892	0.406	0.177	0.097	0.934	5.235	0.773	17.610	
30	0.742	4.869	0.579	1.004	0.314	0.152	0.092	0.641	4.092	0.758	11.700	
31	0.678	14.200		2.316		0.167	0.096		3.605		5.660	
Average	1.272	0.778	5.226	0.881	2.269	0.514	0.231	0.158	1.118	3.425	1.710	5.645
Lowest	0.448	0.362	1.246	0.286	0.452	0.212	0.152	0.092	0.083	0.575	0.359	0.624
Highest	4.128	7.070	14.410	7.473	7.804	2.470	0.378	0.516	10.050	13.260	8.259	29.700
Peak flow	4.933	10.620	18.870	8.231	10.490	3.529	0.404	0.634	14.860	14.760	9.111	36.310
Day of peak	22	28	31	1	23	2	10	7	27	18	19	14
Monthly total (million cu m)	3.41	1.88	14.00	2.28	6.08	1.33	0.62	0.42	2.90	9.17	4.43	15.12
Runoff (mm)	12	7	51	8	22	5	2	2	10	33	16	55
Rainfall (mm)	26	20	91	30	84	43	44	21	113	92	33	79

Statistics of monthly data for previous record (Oct 1958 to Dec 1980—Incomplete or missing months total 0 3 years)

Mean	Avg	4.948	3.804	3.019	1.596	1.059	0.588	0.261	0.338	0.605	1.829	3.413	3.994
Flows	Low	0.733	0.707	0.333	0.180	0.114	0.045	0.028	0.005	0.032	0.081	0.133	0.401
	(year)	1976	1959	1976	1976	1976	1976	1976	1976	1959	1969	1978	1971
	High	8.972	9.241	8.175	4.016	3.417	3.727	1.678	1.607	3.504	9.812	14.390	8.762
	(year)	1975	1966	1975	1966	1978	1964	1980	1966	1974	1960	1960	1959
Runoff	Avg	48	34	29	15	10	6	3	3	6	18	32	39
	Low	7	6	3	2	1	0	0	0	0	1	1	4
	High	87	81	79	38	33	35	16	16	33	95	135	85
Rainfall	Avg	65	46	52	47	47	49	51	54	66	67	83	74
	Low	13	1	0	10	13	5	12	16	3	5	14	24
	High	120	103	116	77	96	119	107	119	141	185	163	157

Summary statistics

	For 1981	For record preceding 1981	1981	As % of pre-1981	Factors affecting flow regime
Mean flow (m³ s⁻¹)	1.955	2.115	92		● Augmentation from effluent returns
Lowest yearly mean		1.120	1962		
Highest yearly mean		3.938	1960		
Lowest monthly mean	0.158	Aug	0.005	Aug 1976	
Highest monthly mean	5.645	Dec	14.390	Nov 1960	
Lowest daily mean	0.083	10 Sep	0.002	20 Aug 1978	
Highest daily mean	29.700	14 Dec	61.450	3 Nov 1960	
Peak	36.310	14 Dec	80.990	4 Nov 1960	
10 %ile	5.718		5.821	98	
50 %ile	0.673		0.515	131	
95 %ile	0.104		0.067	155	
Annual total (million cu m)	61.65		66.75	92	
Annual runoff (mm)	222		241	92	
Annual rainfall (mm)	676		701	96	
[1941-70 rainfall average (mm)]			681]		

Station description

Broad crested weir with low flow notch, and alternative velocity-area station for high flows 45 m upstream

041016 Cuckmere at Cowbeech**1981**

Measuring authority: SWA
First year: 1967

Grid reference: TQ 611150
Level stat. (m OD) 29.78

Catchment area (sq km): 18.7
Max alt. (m OD): 183

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.109	0.070	0.195	0.425	0.064	0.195	0.048	0.027	0.017	0.102	0.374	0.143
2	0.108	0.079	0.421	0.267	0.055	0.203	0.046	0.025	0.018	0.076	0.292	0.138
3	0.101	0.139	0.808	0.224	0.100	0.106	0.055	0.021	0.014	1.589	0.259	0.132
4	0.083	0.079	0.270	0.191	0.090	0.114	0.045	0.025	0.017	0.422	0.229	0.134
5	0.075	0.065	0.211	0.180	0.067	0.106	0.040	0.030	0.017	0.190	0.196	0.128
6	0.075	0.064	0.303	0.161	0.064	0.098	0.036	0.115	0.013	0.792	0.173	0.128
7	0.070	0.062	0.672	0.143	0.060	0.120	0.038	0.053	0.013	0.277	0.159	0.126
8	0.070	0.061	0.632	0.141	0.051	0.146	0.051	0.042	0.016	0.188	0.151	0.582
9	0.104	0.070	2.432	0.122	0.058	0.116	0.061	0.037	0.013	0.319	0.142	0.244
10	0.093	0.063	1.692	0.127	0.272	0.101	0.045	0.034	0.020	0.347	0.133	0.182
11	0.080	0.044	1.123	0.257	0.082	0.111	0.040	0.029	0.015	0.228	0.137	0.667
12	0.087	0.042	0.517	0.144	0.050	0.099	0.034	0.027	0.017	0.207	0.117	0.313
13	0.079	0.042	0.591	0.116	0.059	0.093	0.030	0.026	0.019	0.138	0.108	1.345
14	0.126	0.042	0.431	0.097	0.048	0.090	0.044	0.019	0.047	0.123	0.105	1.186
15	0.099	0.042	0.332	0.086	0.104	0.091	0.034	0.018	0.046	0.132	0.106	0.469
16	0.149	0.042	0.301	0.088	0.092	0.076	0.037	0.014	0.019	0.109	0.165	0.306
17	0.119	0.042	0.255	0.070	0.059	0.052	0.034	0.016	0.022	0.474	0.504	0.244
18	0.128	0.040	0.235	0.070	0.197	0.049	0.026	0.015	0.019	0.300	0.846	0.198
19	0.150	0.041	0.212	0.083	0.131	0.054	0.025	0.019	0.168	0.483	0.645	0.171
20	0.108	0.046	0.191	0.067	0.073	0.050	0.023	0.033	0.114	0.799	0.499	0.378
21	0.230	0.049	0.200	0.064	0.127	0.038	0.028	0.017	0.057	0.288	0.310	0.928
22	0.165	0.126	0.212	0.061	0.076	0.036	0.032	0.028	0.022	0.197	0.256	0.614
23	0.130	0.088	0.848	0.060	0.713	0.062	0.082	0.022	0.022	0.157	0.226	0.378
24	0.116	0.064	0.971	0.072	0.280	0.181	0.054	0.018	0.228	0.559	0.180	0.325
25	0.098	0.061	0.595	0.106	0.166	0.069	0.031	0.015	0.155	0.515	0.185	0.250
26	0.089	0.052	0.779	0.099	0.082	0.130	0.026	0.014	0.064	0.293	0.169	0.257
27	0.085	0.069	0.333	0.169	0.127	0.143	0.021	0.020	0.133	0.541	0.186	0.846
28	0.088	0.212	0.245	0.096	0.204	0.067	0.028	0.015	0.029	1.202	0.175	1.108
29	0.083	0.212	0.084	0.155	0.053	0.030	0.015	0.013	1.286	0.156	1.475	
30	0.075	1.034	0.063	0.162	0.051	0.028	0.013	0.123	1.020	0.167	0.676	
31	0.067	0.548		0.155		0.030	0.015		0.531		0.488	
Average	0.105	0.068	0.574	0.131	0.130	0.097	0.038	0.026	0.068	0.448	0.245	0.470
Lowest	0.067	0.040	0.191	0.060	0.048	0.036	0.021	0.013	0.013	0.076	0.105	0.126
Highest	0.230	0.212	2.432	0.425	0.713	0.203	0.082	0.115	0.604	1.589	0.846	1.475
Peak flow	0.275	0.230	4.215	0.585	1.277	0.816	0.134	0.242	1.012	5.049	2.160	4.376
Day of peak	21	28	9	1	23	1	14	6	24	3	18	13
Monthly total (million cu m)	0.28	0.16	1.54	0.34	0.35	0.25	0.10	0.07	0.18	1.20	0.63	1.26
Runoff (mm)	15	9	82	18	19	13	5	4	9	64	34	67
Rainfall (mm)	29	26	137	37	97	49	33	31	135	152	45	94

Statistics of monthly data for previous record (Apr 1939 to Dec 1980—Incomplete or missing months total 0 2 years)

Mean flows (year)	0.225	0.223	0.166	0.117	0.086	0.053	0.039	0.038	0.054	0.080	0.164	0.165
Low (year)	0.084	0.089	0.045	0.027	0.018	0.009	0.013	0.009	0.011	0.014	0.013	0.030
High (year)	0.785	0.755	0.461	0.299	0.196	0.393	0.322	0.154	0.394	0.482	0.854	0.560
Runoff (mm)	32	29	24	16	12	7	6	5	7	11	23	24
Low	12	12	6	4	3	1	2	1	2	2	2	4
High	112	98	66	41	28	54	46	22	55	69	118	80
Rainfall (mm)	93	72	64	52	60	67	57	68	88	76	105	85
(1967-80) Low	25	29	22	10	21	12	15	7	9	5	19	21
High	166	155	115	86	110	155	119	111	227	181	199	184

Summary statistics

	For 1981	For record preceding 1981	1981 As % of pre 1981	Factors affecting flow regime
Mean flow (m³ s⁻¹)	0.202	0.117	173	● Flow influenced by groundwater abstraction and/or recharge
Lowest yearly mean		0.050	1973	● Abstraction for public water supplies
Highest yearly mean		0.278	1974	
Lowest monthly mean	0.026	Aug 0.009	Jun 1976	
Highest monthly mean	0.574	Mar 0.854	Nov 1974	
Lowest daily mean	0.013	30 Aug 0.003	21 Jun 1976	
Highest daily mean	2.432	9 Mar 8.487	4 Nov 1967	
Peak	5.049	3 Oct 17.790	27 Dec 1979	
10%ile	0.524	0.219	239	
50%ile	0.105	0.077	138	
95%ile	0.017	0.014	128	
Annual total (million cu m)	6.36	3.69	173	
Annual runoff (mm)	340	197	173	
Annual rainfall (mm)	865	887	98	
[1941-70 rainfall average (mm)]	821			

Station description
Compound Crump weir, crest breadths 2.13 m and 2.97 m

042010 Itchen at Highbridge + Albrook

1981

Measuring authority: SWA
First year: 1958

Grid reference SU 467213
Level s.m. (m OD) 17.15

Catchment area (sq km) 360.0
Max alt (m OD) 208

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	4.657	4.823	4.932	7.513	6.357	5.743	5.117	5.171	3.518	5.217	4.978	5.494
2	4.654	4.829	6.149	7.490	6.288	6.267	5.022	4.749	3.533	4.718	4.940	5.493
3	4.549	5.092	6.679	7.022	6.337	5.806	5.021	4.565	3.440	4.589	4.879	5.415
4	4.523	5.119	5.784	6.854	6.469	5.614	5.085	4.625	3.474	4.532	4.988	5.397
5	4.542	4.974	5.427	6.809	6.371	5.717	5.085	4.529	3.501	4.410	5.236	5.350
6	4.652	4.762	5.470	6.736	6.357	5.670	4.999	4.690	3.459	4.961	5.181	5.368
7	4.773	4.655	5.483	6.666	6.332	5.680	4.694	4.693	3.551	4.868	5.098	5.529
8	4.613	4.778	6.084	6.734	6.555	5.754	4.353	4.544	3.642	4.768	5.141	5.819
9	4.692	4.894	6.952	6.730	6.241	5.693	4.274	4.506	3.526	4.828	5.149	5.637
10	4.692	4.849	7.082	6.922	6.198	5.710	4.292	4.369	3.607	4.773	5.203	5.578
11	4.607	4.829	7.026	7.034	6.022	6.273	4.214	4.198	3.755	4.676	5.196	5.735
12	4.708	4.806	6.355	6.949	5.735	6.124	4.214	4.120	4.084	4.794	5.170	5.527
13	4.722	4.729	6.585	7.034	5.623	5.841	4.209	4.036	3.886	4.699	5.156	5.911
14	4.848	4.629	6.731	7.081	5.641	5.659	4.257	3.974	4.005	4.605	5.160	6.831
15	4.896	4.625	6.493	6.945	5.545	5.768	4.216	3.890	4.063	4.750	5.126	6.496
16	4.815	4.612	6.661	6.941	5.734	5.714	4.195	3.873	3.798	4.697	5.512	6.094
17	4.964	4.807	6.306	6.863	5.580	5.653	4.398	3.874	3.869	4.695	5.670	5.846
18	4.987	4.843	6.622	6.672	5.831	5.429	4.466	3.830	3.963	4.801	5.680	5.763
19	5.064	4.732	6.547	6.466	5.910	5.499	4.422	3.789	4.851	4.817	5.703	5.635
20	5.200	4.756	6.534	6.591	6.104	5.519	4.552	4.035	5.435	5.431	5.871	6.535
21	5.278	4.776	6.531	6.559	5.914	5.337	4.278	4.027	4.431	5.025	5.715	6.940
22	5.020	5.203	7.225	6.566	5.799	5.408	4.992	4.047	4.220	4.773	5.556	6.622
23	5.078	4.873	7.168	6.421	6.024	5.302	5.165	3.981	4.130	4.722	5.562	6.390
24	4.917	4.763	6.848	6.472	5.972	5.439	5.358	3.894	4.301	4.931	5.487	6.222
25	5.078	4.724	7.035	6.590	7.039	5.472	4.889	3.854	4.496	5.171	5.413	6.121
Average	4.866	4.824	6.547	6.860	6.128	5.601	4.627	4.118	4.124	4.866	5.348	6.053
Lowest	4.523	4.612	4.932	6.421	5.545	4.870	4.195	3.593	3.440	4.410	4.879	5.350
Highest	5.278	5.203	7.256	7.513	7.039	6.273	5.358	5.171	5.863	5.431	5.871	7.147

Peak flow

Day of peak

Monthly total

(million cu m)

13.03 11.67 17.54 17.78 18.41 14.52 12.39 11.03 10.69 13.03 13.86 16.21

Runoff (mm)

36 32 49 49 46 40 34 31 30 36 38 45

Rainfall (mm)

5.104 7.158 5.949 4.718 3.593 5.052

043005 Avon at Amesbury**1981**

Measuring authority: WWA
First year: 1965

Grid reference: SU 151413
Level stat. (m OD) 67.06

Catchment area (sq km): 323.7
Max. alt. (m OD) 294

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2 679	2 947	3 316	7 279	5 301	3 839	2 882	2 498	1 516	2 314	2 644	3 041
2	2 650	2 934	4 587	7 017	5 014	4 298	2 841	2 498	1 512	2 355	2 615	2 943
3	2 722	3 215	6 246	6 775	5 008	4 455	2 841	2 225	1 504	2 219	2 582	2 925
4	2 672	3 155	4 648	6 607	4 981	4 108	2 783	2 113	1 488	2 137	2 548	2 856
5	2 613	3 070	4 146	6 487	4 871	3 946	2 750	2 044	1 487	2 452	2 520	2 898
6	2 603	3 017	4 475	6 404	4 931	3 832	2 712	2 099	1 486	2 580	2 473	2 896
7	2 626	3 025	4 475	6 248	4 901	3 752	2 659	2 210	1 483	2 337	2 471	2 916
8	2 587	3 010	4 699	6 151	4 747	3 703	2 535	2 182	1 455	2 247	2 469	3 524
9	2 650	3 067	5 470	6 001	4 603	3 633	2 605	2 072	1 461	2 328	2 472	4 132
10	2 725	3 159	6 951	6 004	4 591	3 604	2 568	2 044	1 454	2 318	2 485	3 418
11	2 700	3 080	7 490	6 045	4 493	3 854	2 548	1 977	1 439	2 325	2 443	3 424
12	2 747	3 073	6 791	5 864	4 336	4 067	2 530	1 844	1 465	2 370	2 454	3 173
13	2 749	3 035	8 018	5 779	4 205	3 745	2 518	1 883	1 560	2 319	2 561	3 396
14	2 943	2 999	8 759	5 677	4 070	3 584	2 426	1 778	1 677	2 279	2 435	5 072
15	3 097	2 983	7 283	5 573	3 924	3 513	2 329	1 701	1 648	2 280	2 410	7 120
16	3 020	2 962	7 097	5 363	3 980	3 429	2 281	1 777	1 668	2 396	2 548	5 474
17	3 030	2 965	6 867	5 397	4 314	3 347	2 290	1 713	1 627	2 386	2 680	4 751
18	2 999	2 970	6 733	5 326	4 536	3 318	2 288	1 777	1 664	2 356	2 643	4 458
19	3 075	2 964	6 697	5 281	4 448	3 352	2 221	1 701	2 026	2 352	2 940	4 237
20	3 092	2 961	6 688	5 165	4 666	3 368	2 059	1 747	2 352	2 534	3 067	4 592
21	3 205	2 997	7 153	5 074	4 643	3 228	1 967	1 824	2 222	2 926	3 200	5 659
22	3 298	3 108	9 624	5 102	4 348	3 058	2 348	1 746	1 888	2 652	2 959	5 775
23	3 179	3 207	8 284	5 049	4 159	3 045	2 392	1 723	1 732	2 485	2 88	5 096
24	3 134	3 013	7 722	5 105	4 063	3 100	2 073	1 682	1 738	2 453	2 761	4 851
25	3 074	2 905	7 449	5 249	4 148	3 039	2 155	1 626	1 851	2 540	2 736	4 701
26	3 036	2 952	7 559	6 07	4 443	3 109	2 137	1 617	2 176	2 514	2 718	4 784
27	3 003	2 994	7 181	7 212	4 264	2 962	2 008	1 552	2 460	2 528	2 927	5 451
28	2 952	3 175	6 958	6 646	4 128	2 923	1 867	1 519	2 148	2 640	3 163	6 097
29	3 016	6 872	5 781	4 028	2 947	1 804	1 536	1 941	2 643	3 151	8 332	
30	2 957	7 125	5 560	3 881	2 944	1 748	1 521	2 112	2 596	2 946	10 480	
31	2 951	7 136		3 785		1 747	1 517		2 665		8 691	
Average	2 896	3 034	6 597	5 910	4 445	3 503	2 352	1 860	1 741	2 436	2 695	4 247
Lowest	2 587	2 905	3 316	5 049	3 785	2 923	1 747	1 517	1 439	2 137	2 410	2 856
Highest	3 298	3 215	9 624	7 279	5 301	4 455	2 882	2 498	2 460	2 926	3 200	10 480
Peak flow	3 354	3 437	10 390	7 584	5 420	4 783	3 048	2 737	2 689	3 323	3 623	11 000
Day of peak	22	3	22	27	1	2	1	1	27	2	29	30
Monthly total (million cu m)	7.76	7.34	17.67	15.32	11.91	9.08	6.30	4.98	4.51	6.53	6.99	12.71
Runoff (mm)	24	23	55	47	37	28	19	15	14	20	22	39
Rainfall (mm)	36	34	150	37	82	41	50	22	130	84	47	106

Statistics of monthly data for previous record (Feb 1965 to Dec 1980)

Mean	Avg	5 058	6 014	5 528	4 428	3 388	2 601	2 006	1 721	1 623	1 920	2 652	3 822
Flows	Low	1 199	1 187	1 158	1 039	0 834	0 626	0 475	0 372	0 644	1 149	1 090	1 385
	(year)	1976	1976	1976	1976	1976	1976	1976	1976	1976	1970	1973	1975
	High	7 765	9 686	8 352	7 587	5 146	4 260	3 021	2 362	2 528	3 521	6 440	6 419
	(year)	1977	1977	1972	1979	1979	1979	1979	1979	1974	1966	1974	1974
Runoff	Avg	42	45	46	35	28	21	17	14	13	16	21	32
	Low	10	9	10	8	7	5	4	3	5	10	9	11
	High	64	72	69	61	43	34	25	20	20	29	52	53
Rainfall	Avg	80	60	63	46	59	59	52	67	68	63	76	85
	Low	18	6	14	8	24	3	15	25	11	4	31	26
	High	134	134	133	100	121	143	113	152	179	161	185	160

Summary statistics

	For 1981	For record preceding 1981	1981	As % cl pre 1981	• Natural to within 10% at 95 percentile flow
Mean flow (m ³ s ⁻¹)	3 523	3 383	104		
Lowest yearly mean		1 431	1976		
Highest yearly mean		4 476	1977		
Lowest monthly mean	1 741	Sep	0 372	Aug 1976	
Highest monthly mean	6 597	Mar	9 686	Feb 1977	
Lowest daily mean	1 439	11 Sep	0 175	22 Aug 1976	
Highest daily mean	10 480	30 Dec	15 540	25 Feb 1977	
Peak	11 000	30 Dec	17 280	28 Dec 1979	
10 %ile	6 145		6 483		95
50 %ile	2 981		2 773		108
95 %ile	1 613		1 120		144
Annual total (million cu m)	111.10		106.80		104
Annual runoff (mm)	343		330		104
Annual rainfall (mm)	819		778		105
[1941-70 rainfall average (mm)]			764		

Station description

Crump weir 9.14 m broad with a broad crested weir on both sides

047001 Tamar at Gunnislake**1981**

Measuring authority: SWWA
First year: 1956

Grid reference: SX 426725
Level stat. (m OD) 8.21

Catchment area (sq km) 916.9
Max alt. (m OD) 586

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	23 170	13 590	32 160	20 040	8 497	18 080	5 449	30 050	2 221	137 900	41 210	23 710
2	21 780	13 320	44 890	17 760	12 570	26 200	5 445	9 568	2 216	167 400	34 330	19 980
3	24 110	47 470	32 440	16 150	18 290	26 450	6 112	7 196	2 134	187 900	29 770	18 640
4	19 900	26 050	26 540	14 750	27 630	19 580	5 480	6 391	2 088	86 890	28 070	17 990
5	17 610	20 860	24 500	13 580	17 780	16 720	5 210	5 740	2 063	84 850	22 910	16 950
6	16 670	18 490	23 390	12 710	19 460	15 450	5 510	5 451	2 045	52 600	20 170	18 930
7	15 330	17 960	55 540	12 060	15 440	14 790	4 797	5 163	2 062	38 550	18 310	28 290
8	14 530	18 220	64 420	11 380	13 160	14 130	4 473	4 770	2 100	45 200	16 540	61 680
9	16 520	41 930	252 000	11 070	11 750	12 810	4 293	4 634	2 116	50 200	14 980	45 000
10	18 160	24 770	202 500	10 550	16 960	15 830	4 111	4 198	2 455	41 070	13 980	52 340
11	14 160	21 620	152 400	10 120	12 990	31 870	3 975	3 922	4 107	36 980	13 370	76 010
12	15 190	27 490	96 090	9 305	11 540	17 640	3 985	3 814	3 557	39 800	12 760	39 420
13	19 370	19 170	97 990	8 976	11 800	15 560	4 399	3 744	3 980	29 880	11 610	121 500
14	57 120	17 310	60 200	8 635	17 660	14 270	4 074	3 595	4 153	27 560	10 900	133 400
15	40 090	16 370	44 680	8 119	47 980	13 040	3 881	3 483	6 547	36 720	10 550	62 280
16	42 500	15 270	36 730	7 609	42 360	11 820	3 873	3 317	4 567	24 970	10 800	47 560
17	41 190	14 260	30 790	7 213	62 050	10 960	3 902	2 965	7 590	38 760	12 800	39 490
18	57 150	13 390	26 800	6 845	55 500	10 150	3 887	2 811	36 580	30 440	49 000	31 290
19	42 960	12 540	23 950	6 574	38 760	9 643	5 278	2 883	75 930	39 330	47 690	51 880
20	53 800	11 810	21 730	6 337	34 280	9 154	5 283	4 663	49 270	99 450	71 360	256 600
21	49 230	16 290	109 400	6 024	26 600	8 424	4 577	3 941	24 500	79 680	33 160	87 230
22	36 030	20 940	143 900	5 961	23 220	7 832	18 110	3 311	17 950	54 850	26 940	54 470
23	31 630	54 620	72 140	5 899	25 900	7 555	11 570	3 093	14 260	41 170	25 880	41 430
24	28 900	24 890	59 650	6 069	37 980	7 238	7 503	2 922	27 080	111 400	22 040	32 720
25	26 100	21 410	64 700	6 675	42 240	6 823	5 652	2 768	18 960	107 300	19 670	27 650
Average	27 480	21 890	65 520	10 710	26 680	13 060	6 159	4 808	15 070	65 080	24 990	59 250
Lowest	14 160	11 810	21 730	5 899	8 497	5 485	3 850	2 219	2 045	24 970	10 550	16 950
Highest:	57 150	54 620	252 000	24 520	62 050	31 870	28 090	30 050	75 930	187 900	71 360	256 600
Peak flow	111 600	92 150	411 700	28 020	87 750	54 000	36 990	87 750	173 900	240 600	135 500	383 600
Day of peak	15	3	10	27	16	4	22	1	20	2	20	20
Monthly total (million cu m)	73 60	52 96	175 50	27 77	71 45	33 85	16 50	12 88	39 05	174 30	64 77	158 70
Runoff ^a (mm)	80	58	191	30	78	37	18	14	43	190	71	173
Rainfall (mm)	80	87	219	43	149	52	100	18	191	238	83	199

Statistics of monthly data for previous record (Jul 1956 to Dec 1980— incomplete or missing months total 3 4 years)

Mean flows (year)	47 150	40 420	25 050	16 190	9 570	6 439	5 545	8 687	13 770	19 100	34 970	44 500
Lowest (year)	8 476	9 161	11 250	6 420	3 488	1 995	1 181	0 757	1 118	1 540	4 213	18 350
High (year)	1964	1965	1961	1974	1976	1976	1976	1976	1959	1978	1978	1963
Mean rainfall (year)	89 410	84 270	48 350	31 500	22 860	20 630	21 900	42 100	59 840	63 350	78 760	91 690
Runoff ^a (year)	138	107	73	46	28	18	16	25	39	56	99	130
Lowest (year)	25	24	33	18	10	6	3	2	3	5	12	54
High (year)	261	222	141	89	67	58	64	123	169	185	223	268
Mean rainfall (year)	146	103	91	68	71	71	87	96	104	113	137	141
Lowest (year)	23	3	14	8	25	11	24	33	10	12	58	41
High (year)	301	206	170	151	139	167	160	179	251	258	274	266

Summary statistics

	For 1981	For record preceding 1981	1981 As % of pre 1981
Mean flow (m ³ s ⁻¹)	28 580	22 540	127
Lowest yearly mean		12 520	1964
Highest yearly mean		34 890	1974
Lowest monthly mean	4 808	Aug 0 757	Aug 1976
Highest monthly mean	65 520	Mar 91 690	Dec 1959
Lowest daily mean	2 045	6 Sep 0 580	23 Aug 1976
Highest daily mean	256 600	20 Dec 482 300	27 Dec 1979
Peak	411 700	10 Mar 714 600	28 Dec 1979
10%ile	59 370	55 950	106
50%ile	18 580	11 840	157
95%ile	2 887	1 748	165
Annual total (million cu m)	901 30	711 40	127
Annual runoff (mm)	983	776	127
Annual rainfall (mm)	1459	1228	119
(1941-70 rainfall average (mm))		1230	

Factors affecting flow regime

- Reservoir(s) in catchment
- Flow influenced by groundwater abstraction and/or recharge
- Abstraction for public water supplies
- Flow reduced by industrial and/or agricultural abstractions
- Augmentation from surface water and/or groundwater
- Augmentation from effluent returns

Station description

Velocity-area station. Because of the presence of large boulders, low flows are measured at a ford about 1.6 km upstream

050001 Taw at Umberleigh**1981**

Measuring authority SWWA
First year 1958*

Grid reference SS 608237
Level stn (m OD) 14 14

Catchment area (sq km) 826 2
Max alt (m OD) 604

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	19 190	10 920	37 280	13 900	8 922	16 710	3 008	3 249	1 272	39 130	44 220	33 430
2	19 140	11 980	40 710	12 020	13 230	29 010	3 125	2 242	1 305	63 770	35 000	27 270
3	23 450	43 450	28 700	10 850	18 080	16 470	3 740	1 919	1 235	105 200	29 010	23 180
4	17 580	28 340	23 290	9 823	18 300	15 690	3 109	1 857	1 157	78 200	24 830	20 440
5	15 950	22 470	21 020	8 913	17 550	13 840	3 043	2 091	1 109	58 640	20 230	17 890
6	15 520	19 190	21 440	8 200	19 040	12 160	3 231	8 561	1 078	44 100	17 230	18 600
7	13 830	17 750	33 840	7 679	17 730	11 390	2 662	4 332	1 079	33 600	15 170	31 070
8	12 870	16 930	37 610	7 318	15 710	10 670	2 441	3 192	1 106	30 380	13 280	69 430
9	16 190	20 830	223 400	7 043	13 770	9 451	2 283	2 787	1 096	33 360	11 630	41 100
10	14 200	16 420	173 500	6 694	29 540	10 960	2 174	2 405	1 228	31 090	10 580	40 460
11	11 690	15 290	136 900	7 144	17 620	17 580	2 037	2 200	1 830	30 730	10 360	69 490
12	14 250	15 010	107 300	5 962	14 720	10 980	2 084	2 037	2 238	29 440	9 672	41 850
13	15 650	13 250	95 870	5 422	12 980	9 766	2 115	1 920	2 268	23 360	8 364	104 300
14	80 700	11 940	64 940	5 040	12 020	9 056	2 013	1 846	2 418	21 270	7 645	136 100
15	59 900	11 250	47 040	4 826	18 840	8 388	1 993	1 810	4 032	34 210	7 235	74 980
16	59 230	10 400	36 300	4 583	18 690	7 624	1 997	1 686	2 511	23 060	7 329	48 700
17	59 010	9 654	28 140	4 267	33 340	7 013	1 939	1 564	4 231	28 540	8 770	35 880
18	61 550	8 956	23 000	4 017	28 820	6 398	1 814	1 518	21 100	25 060	31 920	26 640
19	51 280	8 265	19 490	3 848	21 890	5 996	1 918	1 597	42 080	32 680	45 490	22 260
20	51 260	7 799	16 960	3 671	24 980	5 551	1 882	2 931	34 500	76 020	55 820	83 240
21	57 170	13 540	54 130	3 520	18 270	4 922	2 531	2 170	23 510	57 400	41 600	40 630
22	44 360	14 310	57 040	3 454	16 680	4 532	8 875	1 847	17 760	42 990	32 140	29 310
23	36 600	31 930	44 340	3 320	18 970	4 320	5 221	1 727	14 530	32 740	27 840	23 180
24	32 140	16 980	39 990	3 738	23 800	4 180	3 528	1 605	20 270	79 240	22 910	18 880
25	25 910	14 590	38 440	4 100	31 200	3 912	2 786	1 512	16 820	100 000	19 190	16 110
26	21 520	13 620	49 640	10 110	25 570	3 759	2 607	1 422	15 610	63 880	19 850	18 300
27	18 590	24 220	32 660	24 990	24 870	3 541	2 319	1 355	15 740	49 610	35 840	42 330
28	16 460	22 710	26 900	13 750	20 850	3 346	2 151	1 310	12 460	40 030	38 720	65 270
29	14 910		22 310	14 700	18 340	3 165	2 000	1 279	12 950	58 140	30 400	74 130
30	13 190		18 380	10 390	16 400	3 035	1 892	1 246	18 350	60 950	44 110	88 900
31	11 850		15 890		15 370		2 710	1 224		52 860		53 640
Average	29 830	16 860	52 140	7 776	19 550	9 114	2 749	2 208	9 896	47 730	24 210	46 350
Lowest	11 690	7 799	15 890	3 320	8 922	3 035	1 814	1 224	1 078	21 270	7 235	16 110
Highest	80 200	43 450	223 400	24 990	33 340	29 010	8 875	8 561	42 080	105 200	55 820	136 100
Peak flow	149 700	80 990	339 900	32 560	50 860	54 120	14 080	11 550	95 070	123 900	90 340	256 000
Day of peak	15	3	10	27	10	2	22	6	20	24	20	14
Monthly total (million cu m)	79 89	40 78	139 70	20 16	52 37	23 62	7 36	5 91	25 65	127 80	62 76	124 10
Runoff (mm)	97	49	169	24	63	29	9	7	31	155	76	150
Rainfall (mm)	90	76	183	47	126	42	78	35	153	200	85	173

Statistics of monthly data for previous record (Oct 1958 to Dec 1980)

Mean flows	Avg	34 700	30 430	19 180	14 000	8 943	5 324	4 874	5 804	8 152	17 690	28 140	35 640
	Low	6 657	3 244	7 918	3 889	2 073	1 434	0 796	0 423	0 861	1 043	3 653	13 210
	(year)	1963	1959	1962	1974	1976	1976	1976	1976	1959	1978	1978	1963
	High	50 890	54 760	44 410	32 800	22 140	16 630	23 390	4 440	47 670	77 360	58 500	73 670
	(year)	1985	1970	1979	1966	1969	1972	1968	1965	1974	1960	1963	1965
Runoff	Avg	112	90	62	44	29	17	16	19	26	57	88	116
	Low	22	10	26	12	7	5	3	1	3	3	11	43
	High	165	160	144	103	72	52	76	47	150	251	184	239
Rainfall	Avg	129	91	85	71	70	67	74	90	90	108	129	135
	Low	28	5	18	8	28	10	23	33	14	14	56	41
	High	216	173	164	145	144	164	152	140	247	278	239	271

Summary statistics

	For 1981	For record preceding 1981	1981	Factors affecting flow regime
Mean flow (m³ s⁻¹)	22 520	17 890	127	● Reservoir(s) in catchment
Lowest yearly mean		11 310	1964	● Abstraction for public water supplies
Highest yearly mean		27 590	1960	● Augmentation from effluent returns
Lowest monthly mean	2 208	Aug 0 423	Aug 1976	
Highest monthly mean	52 140	Mar 77 360	Oct 1960	
Lowest daily mean	1 078	6 Sep 0 200	28 Aug 1976	
Highest daily mean	223 400	9 Mar 363 800	4 Dec 1960	
Peak	339 900	10 Mar 644 900	4 Dec 1960	
10 %ile	53 090	45 690	116	
50 %ile	15 790	9 240	171	
95 %ile	1 587	1 240	126	
Annual total (million cu m)	710 20	558 30	127	
Annual runoff (mm)	860	676	127	
Annual rainfall (mm)	1288	1139	113	
(1941-70 rainfall average (mm))		1183		

Station description
Velocity-area station

052005 Tone at Bishops Hull**1981**

Measuring authority WWA
First year, 1961

Grid reference: ST 206250
Level stat (m OD) 16.20

Catchment area (sq km), 202.0
Max alt. (m OD) 409

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	3 363	2 316	4 349	3 907	1 976	3 373	1 049	1 133	0 793	4 866	4 628	3 426
2	3 339	2 383	7 899	3 275	2 830	5 966	1 078	0 860	0 776	3 610	4 139	3 205
3	3 467	4 095	8 076	3 120	2 733	3 393	1 086	0 845	0 767	3 369	3 779	3 027
4	2 903	3 243	5 257	2 859	2 483	2 801	1 062	0 829	0 766	3 160	3 398	3 069
5	2 656	2 811	4 390	2 739	2 177	2 617	1 083	0 930	0 766	2 723	3 059	2 902
6	2 588	2 601	4 411	2 563	2 250	2 474	1 079	2 657	0 758	2 552	2 840	2 836
7	2 378	2 534	7 370	2 479	2 153	2 283	0 920	1 231	0 794	2 252	2 655	3 974
8	2 281	2 500	6 613	2 419	2 028	2 143	0 938	1 080	0 781	2 259	2 465	9 673
9	2 423	2 714	34 170	2 305	2 181	2 035	0 971	0 982	0 758	2 281	2 268	5 364
10	2 286	2 667	26 850	2 335	4 063	2 110	0 904	0 890	1 155	2 233	2 182	5 149
11	2 183	2 577	24 100	2 268	2 554	2 698	0 906	0 862	1 131	2 211	2 173	8 078
12	2 328	2 595	16 480	2 096	2 202	2 000	0 904	0 853	1 000	2 257	2 091	5 273
13	2 147	2 422	13 230	2 009	2 105	1 921	0 924	0 845	0 955	2 096	1 958	33 380
14	6 090	2 290	9 729	1 988	2 016	1 813	0 876	0 858	0 946	2 116	1 915	30 570
15	4 518	2 250	8 024	1 941	2 909	1 700	0 866	0 836	0 946	3 824	1 902	11 210
16	5 927	2 203	6 781	1 874	3 016	1 650	0 866	0 801	0 852	2 596	1 969	7 392
17	6 686	2 179	5 858	1 798	3 765	1 619	0 784	0 776	1 388	4 543	2 226	5 956
18	6 830	2 143	5 108	1 753	4 738	1 591	0 794	0 734	2 668	3 751	3 386	6 287
19	5 396	2 091	4 561	1 733	3 615	1 611	0 840	0 719	5 791	3 125	3 208	39 620
20	5 206	2 055	4 114	1 694	3 986	1 563	0 820	0 794	3 288	4 423	4 020	9 646
21	4 964	2 037	11 030	1 678	3 527	1 483	0 840	0 735	1 719	3 486	3 183	7 236
22	4 401	2 969	9 595	1 699	3 376	1 402	1 575	0 755	1 375	3 070	3 033	6 400
23	4 085	5 055	7 955	1 664	3 738	1 364	1 139	0 744	1 222	2 817	3 324	5 903
24	3 954	3 918	7 208	1 892	3 913	1 308	1 015	0 720	2 228	4 798	3 172	5 316
25	3 635	2 995	7 269	1 799	5 576	1 219	0 910	0 789	1 921	10 000	2 991	5 468
26	3 347	2 758	9 629	2 996	3 761	1 215	0 872	0 789	2 579	5 465	2 958	8 126
27	3 065	2 855	6 655	3 925	3 434	1 194	0 828	0 786	1 750	4 899	4 075	9 380
28	2 908	6 351	5 946	2 589	3 161	1 180	0 834	0 781	1 479	4 752	4 329	19 100
29	2 733		5 317	2 438	2 943	1 152	0 826	0 791	1 459	5 638	3 602	52 340
30	2 608		4 713	2 088	2 767	1 099	0 806	0 774	1 945	6 235	3 711	11 700
31	2 425		4 350		2 829		1 110	0 791		5 388		10 570
Average	3 649	2 843	9 259	2 331	3 058	1 999	0 952	0 902	1 492	3 768	3 021	11 020
Lowest	2 147	2 037	4 114	1 664	1 976	1 099	0 784	0 719	0 758	2 096	1 902	2 836
Highest	6 830	6 351	34 170	3 925	5 576	5 966	1 575	2 657	5 791	10 000	4 628	52 340
Peak flow	12 040	9 011	53 310	4 405	9 750	10 520	2 200	5 021	15 030	16 620	5 224	91 770
Day of peak	14	23	9	27	25	2	22	6	19	75	18	29
Monthly total (million cu m)	9 77	6 88	24 80	6 04	8 19	5 18	2 55	2 42	3 87	10 09	7 83	29 51
Runoff (mm)	48	34	123	30	41	26	13	12	19	50	39	146
Rainfall (mm)	62	65	170	43	117	41	56	38	147	139	57	191

Statistics of monthly data for previous record (Feb 1961 to Dec 1980)

Mean flows	Avg	5 744	6 508	4 269	2 865	1 988	1 398	1 265	0 980	1 263	1 984	3 179	4 573
	Low	1 246	1 746	1 552	1 177	0 735	0 455	0 326	0 266	0 501	0 580	0 652	1 821
	(year)	1976	1965	1962	1976	1976	1976	1976	1976	1964	1978	1978	1975
	High	10 580	14 000	7 907	6 616	3 085	2 770	5 628	1 686	4 892	9 872	6 761	11 280
	(year)	1971	1978	1963	1966	1967	1972	1968	1965	1974	1976	1963	1965
Runoff	Avg	76	78	57	37	26	18	17	13	16	26	41	61
	Low	17	21	21	15	10	6	4	4	6	8	8	24
	High	140	168	105	85	41	36	75	22	63	131	87	150
Rainfall	Avg	111	87	80	61	66	60	60	73	79	83	97	105
	Low	25	6	5	8	25	8	16	22	8	8	41	40
	High	202	170	146	150	126	147	144	122	202	249	185	205

Summary statistics**Factors affecting flow regime**

	For 1981			For record preceding 1981			1981		
									As % of pre 1981
Mean flow (m³ s⁻¹)	3 714			2 984			124		
Lowest yearly mean				1 600			1964		
Highest yearly mean				4 084			1974		
Lowest monthly mean	0 902	Aug		0 266			Aug 1976		
Highest monthly mean	11 020	Dec		14 000			Feb 1978		
Lowest daily mean	0 719	19 Aug		0 179			22 Aug 1976		
Highest daily mean	52 340	29 Dec		84 200			23 Feb 1978		
Peak	91 770	29 Dec		112 700			11 Jul 1968		
10 %ile	6 630			6 504			102		
50 %ile	2 548			1 734			147		
95 %ile	0 783			0 617			127		
Annual total (million cu m)	117 10			94 17			124		
Annual runoff (mm)	580			466			124		
Annual rainfall (mm)	1126			962			117		
(1941-70 rainfall average (mm))				1027					

Station description

Velocity area station, improved by Crump weir of breadth 12.2 m in 1968

053006 Frome(Bristol) at Frenchay**1981**

Measuring authority WWA
First year 1961

Grid reference ST 637772
Level stn (m OD) 19.96

Catchment area (sq km) 148.9
Max alt (m OD) 193

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.998	0.653	1.919	1.620	1.293	1.958	0.363	0.353	0.180	1.368	2.486	1.412
2	0.949	2.452	2.062	1.300	1.035	4.249	0.378	0.227	0.173	1.199	2.749	1.229
3	0.903	5.658	1.737	1.151	1.441	1.763	0.506	0.207	0.182	5.923	2.164	1.133
4	0.766	2.380	1.396	1.043	1.205	1.275	0.371	0.199	0.160	5.178	1.693	1.158
5	0.699	1.621	1.588	0.993	1.155	1.046	0.967	0.215	0.166	3.775	1.425	1.092
6	0.715	1.298	2.570	0.957	1.084	1.052	0.612	1.564	0.169	2.722	1.241	1.023
7	0.654	1.144	8.836	0.919	0.930	0.949	0.419	0.501	0.181	2.490	1.082	1.609
8	0.635	1.080	4.939	0.854	0.779	0.843	0.378	0.327	0.178	2.222	0.970	8.338
9	1.048	1.390	16.160	0.819	0.724	0.761	0.618	0.277	0.178	3.039	0.888	3.195
10	0.949	1.649	20.430	0.899	0.753	0.968	0.379	0.256	0.537	2.997	0.838	2.136
11	0.770	1.394	26.530	0.828	0.636	0.912	0.347	0.244	0.749	2.879	0.832	1.977
12	0.859	1.137	13.740	0.753	0.627	0.678	0.341	0.234	0.487	2.613	0.778	1.565
13	0.814	0.991	12.470	0.726	0.618	0.608	0.326	0.224	0.454	1.702	0.710	4.894
14	1.603	0.884	8.008	0.773	0.549	0.582	0.299	0.220	1.030	1.972	0.649	12.680
15	1.443	0.802	4.662	0.710	0.658	0.543	0.282	0.213	0.664	5.257	0.645	6.825
16	1.808	0.752	3.361	0.700	0.809	0.503	0.284	0.203	0.339	2.623	0.722	3.377
17	1.556	0.757	2.592	0.631	1.599	0.481	0.310	0.195	1.720	2.314	0.835	2.225
18	1.498	0.721	2.139	0.627	1.669	0.465	0.268	0.199	2.017	2.191	2.765	1.621
19	1.471	0.679	1.830	0.606	1.302	0.475	0.248	0.228	3.533	3.445	6.381	1.326
20	1.320	0.651	1.579	0.579	3.927	0.460	0.238	0.210	2.145	12.810	10.540	3.295
21	1.850	0.911	7.137	0.582	1.682	0.441	0.242	0.195	0.947	5.184	4.801	7.674
22	1.470	2.114	8.628	0.580	1.505	0.416	0.608	0.189	0.817	2.796	2.986	4.393
23	1.261	1.872	5.120	0.561	2.707	0.404	0.507	0.182	0.516	1.959	2.327	2.972
24	1.108	1.338	4.147	0.637	5.706	0.402	0.293	0.182	0.815	4.338	1.799	2.255
25	0.969	1.070	3.614	0.830	9.754	0.398	0.253	0.194	0.972	3.934	1.465	1.729
26	0.947	0.974	2.685	3.016	6.328	0.398	0.243	0.173	7.375	2.458	1.668	4.310
27	0.870	1.076	2.111	8.765	3.906	0.391	0.237	0.192	3.167	1.990	3.446	5.534
28	0.818	1.578	1.724	4.188	2.543	0.376	0.227	0.194	1.534	1.780	2.824	5.123
29	0.776		1.807	2.802	1.888	0.377	0.213	0.180	1.309	2.841	1.944	15.300
30	0.719		1.790	1.762	1.498	0.376	0.212	0.173	1.765	3.531	1.777	26.630
31	0.679		1.802		1.789		0.390	0.176		7.554		11.670
Average	1.062	1.394	5.762	1.374	1.987	0.818	0.366	0.269	1.142	3.293	2.181	4.879
Lowest	0.635	0.651	1.396	0.561	0.549	0.376	0.212	0.173	0.160	1.199	0.645	1.024
Highest	1.850	5.658	26.530	8.765	9.754	4.249	0.967	1.564	7.375	12.810	10.540	26.630
Peak flow	2.254	11.060	32.700	11.340	16.170	7.078	2.374	3.278	9.940	17.390	15.160	37.190
Day of peak	16	2	11	27	24	1	5	6	26	20	19	30
Monthly total (million cu m)	2.84	3.37	15.43	3.56	5.32	2.12	0.98	0.72	2.96	8.82	5.65	12.93
Runoff (mm)	19	23	104	24	36	14	7	5	20	59	38	87
Rainfall (mm)	30	43	146	4	100	33	52	26	142	118	57	114

Statistics of monthly data for previous record (Oct 1961 to Dec 1980)

Mean	Avg	3.355	3.091	2.191	1.334	1.095	0.805	0.701	0.514	0.792	1.00	1.979	3.014
Flows	Low	0.670	0.613	0.637	0.476	0.290	0.220	0.122	0.139	0.208	0.162	0.211	0.820
(year)		1976	1965	1973	1976	1976	1976	1976	1976	1978	1978	1978	1973
High	6.152	6.040	4.854	3.434	3.179	2.973	3.516	1.191	5.113	4.691	5.434	9.807	
(year)		1962	1977	1979	1966	1979	1971	1968	1971	1974	1987	1983	1985
Runoff	Avg	60	51	39	23	20	14	13	9	14	20	34	54
Low	12	10	11	8	5	4	2	3	4	3	4	4	15
High	111	98	87	60	57	52	63	21	89	84	95	95	176
Rainfall	Avg	74	56	60	49	64	64	56	71	73	62	75	85
Low	18	3	21	9	25	6	17	27	21	5	35	25	
High	137	127	126	97	147	139	129	127	182	183	165	208	

Summary statistics

	For 1981	For record preceding 1981	1981	As % of pre 1981
Mean flow (m³ s⁻¹)	2.052	1.658	124	
Lowest yearly mean	0.635	0.804	1973	
Highest yearly mean	5.658	2.258	1974	
Lowest monthly mean	0.269	Aug 0.122	Jul 1976	
Highest monthly mean	5.762	Mar 9.807	Dec 1965	
Lowest daily mean	0.160	4 Sep 0.075	10 Aug 1976	
Highest daily mean	26.630	30 Dec 53.530	18 Dec 1965	
Peak	37.190	30 Dec 76.500	1 Feb 1979	
10%ile	4.489	4.065	110	
50%ile	1.050	0.754	139	
95%ile	0.194	0.201	96	
Annual total (million cu m)	64.71	52.32	124	
Annual runoff (mm)	435	351	124	
Annual rainfall (mm)	902	789	114	
(1941-70 rainfall average (mm))		791		

Factors affecting flow regime

- Flow influenced by groundwater abstraction and/or recharge
- Abstraction for public water supplies
- Flow reduced by industrial and/or agricultural abstractions

Station description
Trapezoidal critical depth flume Range 0.028/56.6 cu m/s

054001 Severn at Bewdley**1981**

Measuring authority: STWA
First year: 1921

Grid reference: SO 782762
Level stn. (m OD) 17 00

Catchment area (sq km): 4325 0
Max alt. (m OD) 827

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	81 430	34 910	106 600	76 690	58 710	39 400	15 870	10 900	9 574	103 200	127 400	103 000
2	74 240	33 890	128 500	68 620	47 290	82 480	15 420	11 030	10 290	154 600	98 120	86 980
3	72 970	73 470	105 600	58 500	40 580	106 200	15 600	10 080	9 653	135 500	109 100	71 250
4	90 510	198 500	83 480	52 270	47 560	70 580	16 230	9 802	10 010	94 150	94 810	62 070
5	72 300	144 200	73 630	47 620	65 140	51 030	15 870	9 350	10 040	67 810	81 830	63 880
6	65 110	100 500	76 910	43 900	55 030	43 780	16 220	16 420	9 567	53 410	66 780	66 690
7	80 840	80 090	87 710	41 930	67 150	39 530	15 300	21 910	9 678	48 540	58 860	69 930
8	74 220	71 270	137 000	40 890	48 740	37 970	14 400	24 840	10 470	61 030	53 160	80 530
9	85 060	128 900	163 000	44 830	43 200	38 110	13 970	19 870	11 380	153 100	49 600	82 320
10	78 690	215 600	201 800	44 400	38 950	37 060	14 480	16 060	12 160	199 400	44 490	66 690
11	71 070	155 400	288 400	39 440	38 600	36 130	13 950	14 790	14 170	215 500	38 180	58 800
12	62 170	114 300	315 200	36 080	36 400	42 210	13 020	13 620	13 360	194 300	37 910	52 570
13	70 310	98 280	335 300	34 730	32 100	42 400	12 800	12 780	13 390	147 500	44 170	45 600
14	77 950	84 120	275 400	33 640	30 800	35 790	12 330	12 460	12 040	112 500	38 590	52 110
15	188 900	69 950	211 100	31 060	29 790	32 950	11 860	12 610	14 030	89 070	34 890	140 200
16	198 100	62 230	169 100	28 440	33 200	43 930	11 940	12 040	13 120	74 350	33 640	188 800
17	167 400	57 080	130 200	27 180	44 020	33 580	12 250	11 720	15 850	64 100	34 270	116 700
18	155 100	50 810	107 800	25 990	45 530	28 340	13 390	10 930	16 420	58 890	43 350	81 490
19	144 700	45 170	96 700	24 920	51 290	26 180	11 960	11 060	30 080	50 310	151 600	63 300
20	140 600	41 430	88 980	23 950	61 770	24 500	11 880	11 880	53 090	102 800	115 700	62 770
21	125 000	39 070	132 100	23 280	54 700	23 660	11 390	11 650	87 170	176 500	102 800	87 050
22	111 500	39 540	268 200	22 600	46 910	20 690	11 750	11 630	44 650	135 300	83 610	88 020
23	93 380	38 850	320 600	22 120	41 640	19 900	13 360	12 510	32 300	103 500	74 700	70 890
24	80 060	39 810	348 400	23 990	40 520	19 900	16 900	11 910	26 720	87 760	78 300	58 670
25	71 690	39 020	311 300	28 710	52 700	18 800	18 750	11 250	27 260	132 300	71 220	51 080
Average	90 790	79 620	176 100	43 640	46 840	36 040	13 900	12 730	28 180	111 800	77 090	91 040
Lowest	38 240	33 890	73 630	22 120	29 790	15 890	11 390	9 350	9 567	48 540	33 640	44 120
Highest	198 100	215 600	348 400	79 420	67 150	106 200	18 750	24 840	87 170	215 500	156 100	286 400
Peak flow	222 800	225 700	355 900	86 800	17 200	115 500	20 300	26 700	104 500	218 600	177 400	310 700
Day of peak	16	10	24	27	7	3	25	8	21	11	28	30
Monthly total (million cu m)	243 20	192 60	471 80	113 10	125 50	93 41	37 23	34 11	73 04	299 40	199 80	243 80
Runoff (mm)	56	45	109	26	29	22	9	8	17	69	46	56
Rainfall (mm)	66	75	156	51	87	45	34	46	145	124	65	97

Statistics of monthly data for previous record (Apr 1921 to Dec 1980)

Mean flows	Avg	113 400	104 600	72 470	51 790	39 370	29 460	23 690	28 680	37 650	53 000	90 490	100 100
	low	22 050	21 200	23 200	15 890	10 720	9 811	9 592	7 460	7 676	10 500	21 740	17 840
	(year)	1983	1934	1943	1938	1938	1976	1976	1976	1949	1947	1942	1933
	High	250 600	232 300	261 900	112 400	131 600	117 400	91 220	92 360	126 700	140 700	238 300	297 400
	(year)	1939	1946	1947	1947	1969	1931	1968	1927	1946	1967	1940	1965
Runoff	Avg	70	59	45	31	24	18	15	18	23	33	54	62
	low	14	12	14	10	6	6	6	5	5	7	13	11
	High	155	130	162	67	81	70	56	57	76	87	143	184
Rainfall	Avg	92	69	60	60	70	60	74	78	77	83	97	91
	Low	23	8	3	5	18	5	10	13	5	13	13	10
	High	226	170	175	104	186	123	193	160	209	174	244	211

Summary statistics

	For 1981			For record preceding 1981			1981			As % of pre-1981		
Mean flow (m ³ s ⁻¹)	67 450			61 850						109		
Lowest yearly mean				36 460			1964					
Highest yearly mean				94 740			1960					
Lowest monthly mean	12.730		Aug	7 460			Aug 1976					
Highest monthly mean	176 100		Mar	297 400			Dec 1965					
Lowest daily mean	9 350		5 Aug	5 990			4 Sep 1976					
Highest daily mean	348 400		24 Mar	637 100			21 Mar 1947					
Peak	355 900		24 Mar									
10 %ile	141 700			148 700			95					
50 %ile	50 480			37 360			135					
95 %ile	10 960			11 410			96					
Annual total (million cu m)	2127 00			1952 00			109					
Annual runoff (mm)	492			451			109					
Annual rainfall (mm)	991			911			109					
[1941-70 rainfall average (mm)]				952								

Factors affecting flow regime

- Reservoir(s) in catchment.
- Flow influenced by groundwater abstraction and/or recharge.
- Abstraction for public water supplies.
- Flow reduced by industrial and/or agricultural abstractions.
- Augmentation from surface water and/or groundwater.
- Augmentation from effluent returns.

Station description

Velocity-area station. The aqueduct site (SO776783) recorder was superseded in January 1970 by the gauging section recorder. Variations used to derive the natural flow include storage changes in Lakes Vyrnwy and Clywedog and abstractions for public water supplies from the river.

055026 Wye at Ddol Farm**1981**

Measuring authority: WELS
First year: 1969

Grid reference: SN 976676
Level s.m. (m OD) 192.76

Catchment area (sq km) 174.0
Max alt. (m OD) 752

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	8 545	2 390	9 763	3 641	5 829	3 613	0 753	0 636	0 479	33 070	14 770	9 178
2	16 520	25 940	13 910	3 116	3 764	10 310	0 730	0 564	0 460	26 450	19 640	7 611
3	14 640	25 120	10 520	2 759	15 910	5 241	1 106	0 521	0 431	18 890	14 650	6 253
4	10 020	15 910	8 011	2 410	10 850	4 240	0 836	0 484	0 391	12 940	10 940	7 892
5	8 378	14 570	9 377	2 183	12 510	3 548	0 752	0 494	0 347	8 864	8 155	7 744
6	10 370	10 710	9 316	1 968	9 737	3 577	0 805	1 815	0 320	9 107	6 503	8 604
7	7 663	8 570	18 070	1 836	7 223	3 324	0 773	1 161	0 354	13 690	5 205	14 270
8	7 348	13 390	18 250	2 197	5 157	3 172	0 667	0 912	1 002	43 300	4 429	11 010
9	11 810	17 840	42 140	2 084	4 208	3 524	0 624	0 840	0 657	68 440	3 803	8 492
10	7 837	11 200	55 080	1 668	4 491	3 380	0 577	0 692	0 771	39 540	3 308	7 092
11	6 189	9 060	69 640	1 463	3 241	4 081	0 558	0 603	1 077	25 820	5 341	5 931
12	8 307	9 311	27 370	1 432	2 774	3 960	0 573	0 553	1 121	17 240	4 038	4 424
13	11 170	6 748	28 460	1 480	2 403	3 050	0 542	0 520	0 965	11 650	3 249	3 894
14	58 420	5 364	19 690	1 230	2 163	3 432	0 503	0 599	4 089	8 621	2 924	21 270
15	22 760	4 780	13 690	1 131	2 604	3 702	0 495	0 583	5 098	6 465	2 799	16 220
16	23 610	4 422	9 850	1 052	4 417	2 555	0 552	0 522	2 651	4 997	3 002	10 140
17	22 840	3 792	7 345	0 975	6 212	2 149	0 710	0 437	5 281	4 367	2 953	7 479
18	19 050	3 245	6 056	0 911	5 399	1 849	0 725	0 406	9 592	4 378	32 770	5 367
19	17 400	2 889	5 499	0 867	3 733	1 736	0 685	1 515	29 600	48 240	12 510	4 839
20	14 140	2 638	9 020	0 825	4 699	1 560	0 944	3 402	20 640	32 420	11 460	6 433
21	11 910	2 490	54 720	0 783	3 813	1 311	4 591	1 445	12 430	17 010	8 537	5 674
22	9 244	2 377	32 170	0 758	3 646	1 157	8 818	2 212	8 078	10 980	6 930	4 308
23	7 602	2 275	28 130	0 737	3 904	1 080	5 657	1 910	6 371	8 106	9 409	3 467
24	7 650	2 080	17 100	1 077	3 894	1 023	2 728	1 274	7 147	13 740	6 843	3 137
25	5 625	1 872	14 920	1 718	3 764	0 959	1 810	1 039	7 066	13 540	5 847	2 741
26	4 938	1 765	14 510	1 513	2 925	0 928	1 506	0 870	12 690	10 150	14 110	3 293
27	4 293	2 315	10 370	4 629	5 373	0 890	1 169	0 752	23 420	9 659	29 380	3 206
28	3 740	4 372	8 456	9 161	7 148	0 827	1 011	0 659	14 730	10 670	19 650	3 862
29	3 338		6 240	10 790	4 438	0 766	0 879	0 597	19 430	15 690	12 950	5 346
30	2 884		4 922	7 863	3 630	0 752	0 774	0 553	20 520	20 520	13 210	21 170
31	2 581		4 283		3 205		0 699	0 518		15 490		13 370
Average	11 960	7 766	18 930	2 475	5 260	2 723	1 405	0 938	7 240	18 840	9 977	7 862
Lowest	2 581	1 765	4 283	0 737	2 163	0 752	0 495	0 406	0 320	4 367	2 799	2 741
Highest	58 420	25 940	69 640	10 790	15 910	10 310	8 818	3 402	29 600	68 440	32 770	21 270
Peak flow	106 700	92 280	108 700	12 750	24 810	17 170	16 990	9 996	54 230	125 800	75 170	40 730
Day of peak	14	2	11	28	5	2	21	19	19	9	18	14
Monthly total (million cu m)	32 04	18 79	50 71	6 42	14 09	7 06	3 76	2 51	18 77	50 46	25 86	21 06
Runoff (mm)	184	108	291	37	81	41	22	14	108	290	149	121
Rainfall (mm)	159	117	284	72	114	60	61	55	247	269	139	138

Statistics of monthly data for previous record (Oct 1969 to Dec 1980)

Mean flows (year)	10 540	10 730	7 472	5 494	3 144	2 324	2 412	3 148	4 168	6 090	11 700	11 320
Lowest (year)	5 892	5 248	3 802	1 014	0 485	0 497	0 469	0 177	0 948	0 683	6 044	4 974
High (year)	17 720	16 880	18 510	12 460	8 773	5 826	5 543	5 967	12 340	12 030	19 810	17 890
(year)	1973	1975	1974	1980	1975	1976	1974	1973	1980	1970	1970	1974
Runoff (year)	167	150	115	82	48	35	37	48	62	94	174	174
Low	91	73	59	15	7	7	7	3	14	11	90	77
High	273	235	285	166	135	87	85	92	184	185	295	275
Rainfall (year)	186	155	131	97	82	86	84	107	122	124	206	185
Low	98	49	60	13	25	21	35	13	44	39	126	95
High	322	260	261	206	191	183	150	165	260	225	293	314

Summary statistics

	For 1981	For record preceding 1981	1981 As % of pre 1981	Factors affecting flow regime
Mean flow (m³/s)	7 975	6 521	122	● Abstraction for public water supplies
Lowest yearly mean		4 304	1976	
Highest yearly mean		8 231	1974	
Lowest monthly mean	0 938	Aug 0 177	Aug 1976	
Highest monthly mean	18 930	Mar 19 810	Nov 1970	
Lowest daily mean	0 320	6 Sep 0 099	28 Aug 1976	
Highest daily mean	69 640	11 Mar 76 690	21 Feb 1970	
Peak	125 800	9 Oct 252 200	5 Aug 1973	
10 %ile	18 800	15 900	118	
50 %ile	4 413	3 707	119	
95 %ile	0 553	0 466	119	
Annual total (million cu m)	251.50	205.80	122	
Annual runoff (mm)	1445	1183	122	
Annual rainfall (mm)	1715	1565	110	
[1941-70] rainfall average (mm)		1623		

Station description

Velocity-area station. Flat V weir installed 1972. Replaces long term station at Rhayader 055905

056001 Usk at Chain Bridge**1981**

Measuring authority: WELS
First year: 1957

Grid reference: SO 345056
Level stn. (m OD) 22.63

Catchment area (sq km): 911.7
Max alt. (m OD): 886

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	24 510	14 890	66 890	32 980	25 750	24 430	8 257	4 532	4 039	64 280	38 960	34 260
2	22 830	17 460	61 760	29 420	20 370	52 740	8 081	4 450	4 039	57 440	49 100	31 910
3	27 210	71 320	48 500	26 930	27 640	36 020	8 310	4 364	3 990	44 150	43 660	29 350
4	22 300	37 020	35 550	24 780	33 780	29 220	8 092	4 288	3 933	42 610	42 050	26 870
5	20 400	31 380	31 920	23 170	25 820	26 930	7 914	4 352	3 835	33 120	32 450	25 400
6	21 590	27 400	35 890	22 030	25 920	25 760	8 863	6 552	3 738	30 500	28 460	26 330
7	21 660	24 700	126 600	20 800	21 240	23 430	7 853	8 133	3 802	26 920	25 480	27 340
8	19 460	26 580	111 800	20 120	19 530	25 840	7 435	5 887	4 980	104 900	23 030	51 060
9	24 490	46 420	119 300	20 900	17 470	26 560	7 488	5 262	5 179	141 200	20 860	39 190
10	23 110	31 580	210 700	18 410	21 040	21 900	7 405	4 968	5 137	76 820	19 290	33 800
11	19 730	26 850	280 700	17 300	18 050	27 180	6 890	4 650	5 928	58 040	18 640	25 600
12	22 890	27 940	127 100	16 140	15 950	22 540	6 510	4 491	5 582	46 870	18 430	21 720
13	20 510	24 570	137 700	15 590	14 970	20 100	6 310	4 372	4 810	38 010	16 300	24 180
14	64 270	20 970	88 260	14 720	14 210	18 230	6 165	4 279	5 165	32 350	15 260	54 760
15	48 790	19 540	64 210	13 850	14 940	16 770	6 048	4 278	8 949	28 830	14 640	70 690
16	55 590	17 870	52 240	13 140	23 840	15 150	5 944	4 211	7 376	24 960	14 760	43 600
17	44 990	17 850	43 630	12 480	33 960	14 200	5 814	4 034	8 751	23 510	14 940	33 710
18	39 210	16 420	38 500	11 990	38 620	13 450	5 708	3 928	48 120	23 330	85 520	28 540
19	34 190	15 230	34 360	11 520	29 190	12 900	5 560	3 975	109 500	30 210	48 580	26 740
20	31 980	14 600	45 470	11 020	30 530	12 400	5 412	4 287	67 230	82 890	66 240	59 810
21	29 320	14 390	401 800	10 780	25 710	11 700	5 345	5 247	35 400	51 450	43 110	55 070
22	26 820	14 700	247 300	10 450	24 910	10 990	5 465	4 678	28 710	38 090	35 460	37 360
23	24 580	14 590	135 900	10 300	41 510	10 510	6 129	4 638	21 740	31 410	46 560	31 360
24	23 180	13 280	95 680	12 850	32 030	10 170	6 131	4 569	49 960	46 880	73 450	27 560
25	21 500	13 020	129 800	12 920	38 070	9 855	5 502	4 466	48 440	55 240	28 870	24 250
26	19 990	12 550	94 750	18 780	29 220	9 650	5 153	4 337	65 050	40 660	29 580	24 050
27	18 880	17 300	68 720	29 500	33 130	9 356	4 978	4 248	57 230	39 460	81 990	28 160
28	17 640	31 280	81 070	36 190	37 150	9 125	4 974	4 193	36 570	38 400	63 800	30 640
29	16 810		48 080	50 210	28 750	8 691	4 839	4 148	30 290	44 220	52 760	45 810
30	15 900		41 080	34 600	25 450	8 445	4 689	4 083	58 940	48 660	39 520	153 800
31	14 910		36 520	26 890			4 608	4 041		44 570		79 680
Average	27 070	23 630	100 700	20 130	26 330	18 810	6 383	4 643	24 880	48 060	37 730	40 730
Lowest	14 910	12 550	31 920	10 300	14 210	8 445	4 608	3 928	3 738	23 330	14 840	21 720
Highest	64 270	71 320	401 800	50 210	41 510	52 740	8 863	8 133	109 500	141 200	85 520	153 800
Peak flow	126 700	153 600	623 000	55 680	56 350	84 400	9 851	11 470	230 100	182 900	183 300	226 200
Day of peak	14	3	21	29	23	2	6	6	19	9	18	23
Monthly total (million cu m)	72.51	57.17	269.70	52.18	70.51	48.75	17.10	12.44	64.49	128.70	97.78	109.10
Runoff (mm)	80	63	296	57	77	53	19	14	71	141	107	120
Rainfall (mm)	72	90	303	68	138	52	38	41	259	183	112	136

Statistics of monthly data for previous record (Mar 1967 to Dec 1980)

Mean flows	Avg	49 990	44 060	32 030	22 840	16 980	10 690	8 354	10 210	16 160	26 920	38 320	49 720
	Low	10 850	12 690	10 010	8 122	6 301	4 274	3 390	2 699	2 941	4 303	16 030	20 380
	(year)	1964	1963	1962	1974	1980	1957	1976	1976	1958	1978	1975	1963
	High	88 650	95 710	74 270	45 110	32 750	26 740	27 490	16 790	45 680	86 350	99 840	112 700
	(year)	1974	1958	1963	1960	1967	1972	1968	1958	1974	1967	1960	1959
Runoff	Avg	147	118	94	65	50	30	25	30	46	79	109	146
	Low	32	34	29	23	19	12	10	8	8	13	46	60
	High	260	254	218	128	96	76	81	49	130	254	284	331
Rainfall	Avg	156	119	105	85	90	75	83	94	122	127	148	166
	Low	28	11	15	10	31	17	27	25	8	19	74	46
	High	331	223	206	175	221	137	137	168	257	325	323	351

Summary statistics

	For 1981			For record preceding 1981			As % of pre-1981			Factors affecting flow regime		
Mean flow (m³ s⁻¹)	31 720			27 120			117			● Reservoir(s) in catchment		
Lowest yearly mean				14 880			1973					
Highest yearly mean				44 050			1960					
Lowest monthly mean	4 643	Aug	2 699		Aug	1976						
Highest monthly mean	100 700	Mar	112 700		Dec	1959						
Lowest daily mean	3 738	6 Sep	1 607		27 Aug	1976						
Highest daily mean	401 800	21 Mar	585 400		27 Dec	1979						
Peak	623 000	21 Mar	945 000		27 Dec	1979						
10 %ile	61 140		62 500				98					
50 %ile	24 110		16 170				149					
95 %ile	4 284		4 418				97					
Annual total (million cu m)	1000.00		855.80				117					
Annual runoff (mm)	1097		939				117					
Annual rainfall (mm)	1492		1370				109					
[1941-70 rainfall average (mm)]			1415]									

Station description

Velocity-area station. Intake to canal upstream of gauge. Low flows measured accurately at alternative station 056010 Trostrey weir.

062001 Teifi at Glan Teifi**1981**

Measuring authority WELS
First year 1959

Grid reference SN 244416
Level sin (m OD) 5 18

Catchment area (sq km) 893 6
Max alt. (m OD) 595

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	28 220	16 060	44 380	31 230	10 890	20 960	5 538	4 069	2 762	162 100	60 590	51 380
2	24 630	19 450	53 070	27 050	9 737	38 300	5 395	3 808	2 721	211 900	67 750	43 800
3	23 480	47 350	43 120	23 940	12 280	31 340	5 359	3 582	2 678	212 800	65 310	38 390
4	21 360	41 210	37 620	21 270	21 560	26 580	5 180	3 406	2 601	183 300	62 900	34 480
5	19 390	32 800	34 880	19 380	19 570	21 850	5 116	3 281	2 526	115 600	52 310	32 630
6	23 810	27 330	34 790	17 830	17 850	19 220	4 954	3 236	2 453	80 200	45 410	44 180
7	25 630	23 880	57 190	16 370	15 500	18 560	4 777	3 388	2 450	67 350	40 070	72 190
8	21 110	28 510	77 480	16 080	13 630	19 130	4 563	3 623	2 450	143 800	33 920	87 540
9	23 100	47 160	110 900	16 730	11 570	18 120	4 382	3 438	2 519	194 900	27 060	72 800
10	23 700	42 250	182 600	15 000	10 590	17 730	4 274	3 124	2 973	152 400	23 510	54 430
11	20 160	38 250	239 100	13 750	9 976	20 990	4 211	3 020	3 751	119 900	21 840	47 240
12	21 790	35 820	211 500	12 970	9 306	18 150	4 144	2 932	4 236	90 790	21 220	39 280
13	31 870	30 550	171 900	12 280	8 784	16 780	4 058	2 856	4 041	65 650	18 530	42 330
14	43 650	26 100	120 900	11 340	8 575	16 080	3 937	2 856	5 359	53 050	16 640	65 160
15	46 190	23 760	84 530	10 520	12 550	15 020	3 909	2 856	10 990	43 920	15 890	69 630
16	52 710	21 980	66 240	9 875	16 110	13 590	3 850	2 850	8 855	36 220	16 140	52 750
17	44 090	20 070	54 590	9 367	23 090	12 710	3 888	2 756	10 890	29 950	15 240	42 910
18	43 540	18 190	45 910	8 951	22 150	11 960	3 821	2 751	28 580	25 960	55 500	34 620
19	37 870	16 800	40 470	8 615	20 000	11 570	3 918	2 858	64 340	40 850	45 580	39 310
20	36 240	15 640	53 630	8 302	21 530	10 910	3 934	- 4 616	85 190	87 290	45 090	97 520
21	43 620	15 340	198 400	8 002	20 160	10 240	3 999	5 832	57 080	136 100	36 110	72 690
22	42 060	14 940	247 000	7 872	24 410	8 529	6 111	5 002	44 280	124 400	30 300	56 350
23	38 460	17 350	188 200	7 596	30 860	7 879	17 210	6 351	31 630	8 210	41 570	46 150
24	33 800	15 660	131 800	13 260	26 040	7 472	15 610	5 253	32 040	96 140	37 990	40 320
25	29 690	13 760	107 300	10 540	26 890	7 121	13 020	4 172	29 820	124 600	31 580	35 360
26	27 280	12 860	96 220	10 390	29 020	6 808	8 793	3 679	48 990	110 000	33 980	37 980
27	25 160	14 360	74 370	9 626	38 660	6 620	6 850	3 394	48 150	85 260	50 660	40 340
28	22 260	19 040	61 720	10 080	33 740	6 320	5 795	3 145	44 340	73 440	52 540	37 120
29	20 200		49 520	12 850	29 320	5 966	5 064	3 010	48 230	70 720	48 650	44 310
30	18 460		42 480	12 800	25 520	5 716	4 565	2 896	73 800	71 610	55 790	50 060
31	17 060		36 950		23 400		4 318	2 815		70 850		45 840
Average	30 020	24 870	96 730	13 780	19 460	15 070	5 824	3 511	23 690	102 000	38 990	50 620
Lowest	17 060	12 860	34 790	7 596	8 575	5 716	3 821	2 751	2 450	25 960	16 240	32 630
Highest	52 710	47 350	247 000	31 230	38 660	38 300	17 210	6 351	85 190	212 800	67 750	97 520
Peak flow	58 600	55 100	279 100	34 110	40 590	40 640	22 790	6 495	126 700	217 300	70 650	104 800
Day of peak	16	3	22	1	27	2	23	22	30	3	2	20
Monthly total (million cu m)	80 40	60 18	259 10	35 71	52 12	39 07	15 60	9 58	61 41	273 20	101 10	135 60
Runoff (mm)	90	67	290	40	58	44	17	11	69	306	113	152
Rainfall (mm)	86	89	312	49	124	56	71	44	235	293	116	126

Statistics of monthly data for previous record (Jul 1959 to Dec 1980—Incomplete or missing months total 0 3 years)

Mean flows	Avg	47 370	41 010	27 550	22 690	19 440	11 710	8 595	12 150	16 440	31 190	45 780	53 310
Low	Low	7 086	11 140	8 281	7 481	4 301	3 537	1 878	1 128	1 072	3 887	20 040	17 820
(year)	(year)	1963	1965	1962	1974	1980	1976	1976	1976	1959	1972	1964	1963
High	High	106 000	81 100	58 650	35 490	36 780	4 700	24 930	29 350	48 680	83 980	78 080	93 960
(year)	(year)	1974	1974	1963	1966	1979	1972	1968	1966	1974	1967	1977	1965
Runoff	Avg	142	112	83	66	58	34	26	36	48	94	133	160
Low	Low	21	30	25	22	13	10	6	3	3	12	58	53
High	High	318	220	176	103	110	121	75	88	141	252	226	282
Rainfall	Avg	147	98	91	89	80	78	82	98	112	140	155	157
Low	Low	28	12	25	19	29	17	25	16	10	40	76	28
High	High	326	213	180	163	168	147	140	168	242	271	279	315

Summary statistics

	For 1981	For record preceding 1981	As % of pre 1981	Factors affecting flow regime
Mean flow (m³ s⁻¹)	35 610	28 050	127	
Lowest yearly mean		18 860	1964	
Highest yearly mean		38 230	1974	
Lowest monthly mean	3 577	Aug 072	Sep 1959	
Highest monthly mean	102 000	Oct 106 000	Jan 1914	
Lowest daily mean	2 450	7 Sep 0 731	29 Aug 1976	
Highest daily mean	247 000	22 Mar 275 100	27 Dec 1979	
Peak	279 100	22 Mar 303 300	27 Dec 1979	
10 %ile	75 680	61 640	123	
50 %ile	22 470	18 110	118	
95 %ile	2 937	3 273	90	
Annual total (million cu m)	1123 00	885 20	127	
Annual runoff (mm)	1257	991	127	
Annual rainfall (mm)	1601	1327	121	
[1941-70 rainfall average (mm)]		1333]		

Station description
Velocity-area station

065001 Glaslyn at Beddgelert**1981**

Measuring authority: WELS
First year: 1961

Grid reference: SH 592478
Level stn. (m OD) 32 95

Catchment area (sq km): 68.6
Max alt. (m OD) 1090

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	5 315	1 778	1 789	2 416	4 228	2 177	1 656	1 403	1 208	31 910	13 940	6 159
2	11 600	13 940	1 893	2 472	2 745	6 025	1 624	1 022	1 097	22 120	16 030	4 365
3	9 181	11 810	1 720	1 922	14 600	3 347	1 570	0 817	1 061	9 130	16 950	3 734
4	5 073	7 033	1 507	1 302	8 620	5 056	1 292	0 846	0 990	5 612	8 622	3 884
5	4 134	5 471	3 982	1 021	5 404	4 085	5 453	0 721	0 916	4 209	5 172	4 869
6	6 357	4 613	14 050	0 858	4 381	5 433	4 294	0 636	0 810	3 527	3 990	5 575
7	4 832	3 557	49 050	0 781	3 444	9 292	3 574	0 561	1 512	21 960	2 895	7 649
8	4 221	7 136	17 330	0 759	2 839	16 970	2 516	0 521	2 274	49 800	2 014	4 903
9	5 649	9 865	17 900	0 746	2 166	9 720	1 911	0 476	1 642	39 440	1 893	3 998
10	3 832	5 829	70 170	0 683	1 656	7 994	1 796	0 425	1 758	16 530	2 385	3 497
11	2 793	4 526	27 520	0 596	1 469	18 240	3 598	0 406	2 278	8 899	5 059	2 969
12	3 467	5 267	12 580	0 610	1 504	6 882	2 610	0 391	2 237	6 814	4 363	2 076
13	14 120	4 476	7 637	0 560	1 508	9 346	1 857	2 045	1 764	4 938	3 346	1 894
14	22 640	3 117	5 091	0 457	1 453	32 740	1 564	2 314	11 520	4 013	2 464	5 659
15	8 624	2 215	3 643	0 403	1 671	12 310	1 444	1 491	7 727	3 293	2 407	5 049
16	8 748	2 012	3 364	0 367	2 250	4 969	1 546	1 128	4 404	2 680	3 178	3 300
17	8 414	1 953	3 421	0 353	1 997	3 539	2 201	0 889	8 892	2 214	19 980	2 595
18	10 090	1 747	3 566	0 332	2 244	2 953	2 003	0 744	9 549	3 874	33 440	2 231
19	6 325	1 566	9 966	0 321	2 084	3 424	2 393	3 133	31 180	15 320	7 065	1 853
20	6 181	1 432	12 380	0 300	3 151	2 688	6 228	3 773	12 450	14 710	7 720	4 627
21	11 840	1 317	84 430	0 285	3 083	2 059	10 650	4 036	6 463	16 400	6 302	3 969
22	6 155	1 133	24 890	0 282	6 214	1 787	45 280	8 578	4 560	8 043	5 530	3 001
23	4 580	1 065	20 640	0 346	7 372	1 792	24 940	4 567	10 200	5 178	18 310	2 478
24	4 864	1 074	23 070	1 835	3 951	1 792	6 668	2 713	11 970	10 600	6 674	2 323
25	3 559	1 079	22 690	2 946	3 137	1 712	3 955	2 044	18 850	11 760	5 860	1 945
Average	6 569	3 897	15 600	1 600	3 651	6 124	5 037	1 864	7 644	12 390	9 337	3 662
Lowest	2 468	1 049!	1 507	0 282	1 453	1 058	1 292	0 391	0 810	2 214	1 893	1 836
Highest	22 640	13 940	84 430	11 230	14 600	32 740	45 280	8 578	31 180	49 800	34 170	7 649
Peak flow	34 300	34 160	136 200	19 910	25 490	64 520	68 350	31 870				
Day of peak	14	2	21	28	3	14	22	30				
Month/total (million cu m)	17 60	9 43	41 80	4 15	9 78	15 87	13 49	4 99	19 81	33 18	24 20	9 81
Runoff (mm)	256	137	609	60	143	231	197	73	289	484	353	143
Rainfall (mm)	283	146	638	92	195	2/8	239	141	438	563	371	162

Statistics of monthly data for previous record (Dec 1961 to Dec 1980—Incomplete or missing months total 17 years)

Mean flows	Avg	7 458	5 964	5 059	3 912	3 636	3 295	3 494	4 988	5 688	6 135	8 707	8 895
Low	1 535	1 369	1 796	0 814	0 325	1 366	0 779	0 248	0 355	1 984	4 072	1 793	
(year)	1963	1965	1969	1974	1980	1967	1979	1976	1972	1972	1968	1963	
High	12 750	13 040	9 194	8 228	6 790	7 429	7 132	7 972	11 830	13 370	14 460	16 400	
(year)	1975	1977	1979	1975	1979	1971	1978	1978	1980	1980	1980	1965	
Runoff	Avg	291	212	198	148	142	125	136	195	215	240	329	347
Low	60	48	70	31	13	52	30	10	13	77	154	70	
High	498	460	359	311	265	281	278	311	447	522	546	640	
Rainfall	Avg	302	209	214	199	191	200	216	261	282	295	376	340
Low	28	41	127	20	39	78	89	16	62	136	194	74	
High	512	475	444	482	334	358	380	437	508	726	564	700	

Summary statistics**Factors affecting flow regime**

	For 1981	For record preceding 1981	1981	As % of pre-1981
Mean flow (m³ s⁻¹)	6 472	5 602	116	
Lowest yearly mean		4 185	1968	
Highest yearly mean		6 942	1980	
Lowest monthly mean	1 600	Apr 0 248	Aug 1976	
Highest monthly mean	15 600	Mar 16 400	Dec 1985	
Lowest daily mean	0 282	22 Apr 0	7 Sep 1976	
Highest daily mean	84 430	21 Mar 85 850	27 Oct 1980	
Peak	136 200	21 Mar 127 500	21 Nov 1980	
10%ile	15 350	12 730		121
50%ile	3 581	3 198		112
95%ile	0 611	0 591		103
Annual total (million cu m)	204 10	176 80		115
Annual runoff (mm)	2975	2577		115
Annual rainfall (mm)	3546	3085		115
(1941-70 rainfall average (mm))		2966		

Station description

Velocity-area station

067015 Dee at Manley Hall**1981**

Measuring authority WELS
First year 1970

Grid reference SJ 348415
Level stn (m OD) 25 35

Catchment area (sq km) 1019 3
Max alt (m OD) 884

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	46 360	15 040	31 110	34 750	17 730	20 230	8 879	9 309	7 790	97 180	48 250	58 480
2	47 590	22 650	32 340	31 410	15 460	32 520	8 712	9 262	8 005	87 190	58 190	49 890
3	57 500	82 240	30 740	28 710	20 440	24 080	8 780	9 318	8 057	69 960	57 520	43 640
4	51 170	58 140	26 320	25 280	30 600	21 780	8 445	9 161	8 130	50 790	49 160	45 120
5	47 270	45 460	24 940	22 120	27 210	19 900	8 127	8 669	8 118	38 870	40 990	52 160
6	47 990	38 480	27 260	19 390	24 670	17 030	9 575	10 460	8 204	33 810	35 390	55 370
7	42 270	34 050	60 560	16 330	21 940	16 360	8 920	10 130	8 485	33 290	31 460	61 170
8	38 880	64 310	81 190	13 510	20 790	17 930	9 276	8 647	9 014	74 730	28 540	51 840
9	45 580	90 980	74 720	12 640	18 710	20 160	9 694	8 202	8 579	142 800	26 570	45 510
10	43 410	72 720	99 370	12 070	17 840	20 450	9 703	8 073	8 458	147 900	24 620	39 700
11	39 200	60 760	140 600	11 330	15 430	23 740	9 255	7 859	8 368	123 400	24 890	36 420
12	41 630	61 160	125 800	10 980	13 760	28 030	9 365	7 759	8 041	82 100	24 560	33 200
13	38 980	55 900	103 900	10 590	14 430	27 630	9 162	7 871	8 184	60 510	23 190	31 430
14	83 100	48 330	77 130	9 755	15 520	23 970	9 274	8 118	8 531	47 830	21 850	41 890
15	79 950	43 250	64 220	9 138	14 920	29 710	9 623	8 225	9 196	39 840	20 560	54 690
16	77 370	39 940	53 530	9 112	22 690	27 460	10 210	8 058	9 258	33 930	20 110	46 650
17	82 390	33 040	46 760	9 042	19 010	21 620	10 340	7 896	9 593	29 950	22 530	40 750
18	75 850	27 840	43 100	8 778	20 070	17 930	10 080	7 897	14 780	26 900	88 730	35 780
19	66 140	24 100	49 080	8 574	18 770	14 290	9 895	7 998	34 250	31 910	80 270	32 810
20	55 380	21 460	53 870	8 501	19 820	12 060	9 974	8 120	46 770	75 870	72 850	36 490
21	51 460	19 680	135 200	8 279	19 520	11 060	10 190	8 267	41 920	77 110	59 930	34 650
22	43 910	18 230	214 300	8 062	17 670	10 280	11 790	8 246	35 270	61 990	49 380	28 950
23	38 240	16 970	202 900	8 199	19 240	9 831	20 880	8 230	26 380	50 250	56 170	24 530
24	33 890	16 120	150 700	11 700	19 360	9 361	19 730	7 897	24 950	61 540	50 950	21 730
25	30 320	14 430	118 200	11 900	26 860	8 967	16 940	7 786	28 550	67 930	42 730	19 220
26	27 200	13 510	103 100	11 110	26 630	8 396	11 240	8 135	47 250	59 590	49 110	17 880
27	24 570	14 170	78 240	13 140	23 760	9 235	8 900	8 239	48 150	52 390	97 990	18 420
28	22 380	22 530	64 800	19 760	30 670	9 981	8 991	8 261	52 080	50 010	88 620	18 500
29	20 250		52 450	29 030	32 230	9 469	8 951	8 292	44 970	50 250	75 690	26 290
30	18 080		44 650	20 930	24 270	9 067	8 981	8 259	40 970	51 310	67 820	40 840
31	16 490		38 850		21 520		9 152	8 107		52 620		44 080
Average	46 280	38 410	79 030	15 140	21 020	17 750	10 400	8 411	21 010	63 350	47 950	38 330
Lowest	16 490	13 510	24 940	8 062	13 760	8 396	8 127	7 759	7 790	26 900	20 110	17 880
Highest	83 100	90 980	214 300	34 750	32 230	32 520	20 880	10 480	52 080	147 900	97 990	61 170
Peak flow	112 600	127 000	250 000	36 190	34 710	37 900	23 320	10 960	86 600	163 600	121 500	66 650
Day of peak	14	3	22	1	28	2	23	6	19	9	18	1
Monthly total (million cu m)	124 00	92 92	211 70	39 23	56 29	46 01	27 87	22 53	54 46	169 70	124 30	102 70
Runoff (mm)	122	91	208	38	55	45	27	22	53	166	122	101
Rainfall (mm)	115	111	233	57	112	77	67	44	198	221	151	120

Statistics of monthly data for previous record (Feb 1970 to Dec 1980)

Mean flows	47 420	48 630	33 610	25 350	15 110	12 740	11 050	16 080	19 090	28 810	47 910	50 360
Low (year)	18 900	26 020	14 870	8 691	8 308	7 704	8 509	7 086	9 422	8 730	20 130	23 240
High (year)	82 990	83 990	83 610	61 030	27 620	31 240	17 430	25 630	50 150	53 600	78 380	95 000
(year)	1973	1979	1976	1974	1974	1974	1971	1976	1972	1972	1975	1971
Runoff Avg	125	116	88	64	40	32	29	42	49	76	122	132
Low	50	62	39	22	22	20	22	19	24	23	51	61
High	218	199	220	155	73	79	46	67	128	141	199	250
Rainfall Avg	154	118	112	83	78	80	85	100	125	127	169	151
Low	60	37	54	10	39	16	31	9	45	43	93	46
High	287	236	223	182	151	150	144	157	306	218	249	314

Summary statistics

	For 1981	For record preceding 1981	1981
Mean flow (m³ s⁻¹)	33 980	29 580	115
Lowest yearly mean		21 980	1975
Highest yearly mean		38 040	1974
Lowest monthly mean	8 411	7 086	Aug 1976
Highest monthly mean	79 030	95 000	Dec 1979
Lowest daily mean	7 759	12 Aug	4 772
Highest daily mean	214 300	22 Mar	237 700
Peak	250 000	22 Mar	275 600
10%ile	73 060	64 570	113
50%ile	24 570	18 230	135
95%ile	8 114	7 784	104
Annual total (million cu m)	1072 00	933 50	115
Annual runoff (mm)	1051	916	115
Annual rainfall (mm)	1506	1382	109
(1941-70 rainfall average (mm))		1403]	

Factors affecting flow regime

- Reservoir(s) in catchment
- Abstraction for public water supplies
- Flow reduced by industrial and/or agricultural abstractions
- Augmentation from surface water and/or groundwater

Station description
Asymmetrical compound Crump weir, superseding Erbistock, 067902, 1 km downstream. An extended data series by sequential combination with 067902 is available as 067715

068001 Weaver at Ashbrook**1981**

Measuring authority: NWWA
First year: 1937

Grid reference: SJ 670633
Level stn. (m OD) 16.31

Catchment area (sq km) 622.0
Max alt. (m OD) 222

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	6.361	4.570	15.980	7.996	4.017	3.594	2.239	1.667	1.565	7.791	6.229	15.920
2	11.910	5.081	18.130	6.966	3.437	19.060	2.304	1.630	1.525	7.038	5.887	10.330
3	9.672	9.216	10.740	5.785	3.795	10.960	2.514	1.636	1.519	4.375	5.500	8.196
4	6.771	9.570	7.976	5.131	4.176	5.569	2.163	1.649	1.495	3.965	5.551	11.330
5	5.652	9.369	6.604	4.716	4.067	4.132	2.060	2.752	1.450	3.613	4.705	10.540
6	27.700	7.530	6.268	4.567	4.367	3.793	2.207	13.880	1.416	6.087	4.282	12.990
7	23.300	5.981	7.073	4.750	3.807	3.781	2.044	8.456	1.464	6.424	3.970	16.830
8	13.310	6.896	7.733	4.627	3.425	3.377	1.994	4.679	1.558	6.834	3.709	12.630
9	10.920	38.680	11.670	4.814	3.426	3.256	2.030	3.306	1.539	11.300	3.520	9.170
10	9.752	33.400	29.280	4.434	3.408	3.085	1.997	2.764	2.782	10.030	3.343	7.521
11	7.747	17.400	43.650	4.194	3.456	3.245	1.886	2.393	3.084	10.290	3.442	7.522
12	11.010	12.300	32.550	4.028	3.007	3.123	1.908	2.185	3.333	12.310	3.324	6.423
13	10.470	9.443	19.240	3.872	2.939	2.832	1.853	2.115	2.288	13.440	3.193	7.950
14	32.570	7.309	18.660	3.553	2.808	3.648	1.829	2.019	2.491	9.049	3.057	9.696
15	31.400	6.731	17.620	3.363	2.823	4.001	1.834	1.961	2.936	5.740	3.710	15.070
16	24.510	6.920	13.350	3.254	4.082	3.087	2.060	1.836	2.211	4.457	3.146	11.830
17	24.530	6.438	10.670	3.179	3.569	2.846	2.272	1.795	2.198	3.728	3.484	7.815
18	18.780	5.915	8.865	3.039	3.417	2.579	2.064	1.807	3.905	3.479	29.640	5.495
19	15.480	5.250	7.613	2.881	3.304	2.548	1.996	2.088	7.052	6.874	21.980	5.404
20	11.790	4.848	6.418	2.817	7.782	2.545	2.124	2.168	8.959	30.390	13.240	13.330
21	17.490	4.599	16.230	2.767	6.910	2.462	2.459	1.900	3.704	23.260	9.876	18.380
22	13.390	4.582	38.560	2.863	4.504	2.393	3.459	2.926	2.786	12.600	3.077	13.220
23	10.660	4.803	31.420	2.861	4.311	2.311	3.564	2.576	2.418	7.507	14.520	9.059
24	8.707	5.208	22.790	5.684	3.736	2.418	2.500	2.128	2.473	26.620	13.540	6.856
25	7.372	4.795	15.960	8.700	4.448	2.374	2.145	1.900	2.651	32.780	9.007	5.605
Average	13.040	9.152	16.110	4.439	4.095	3.801	2.150	2.731	3.572	10.800	8.101	12.870
Lowest	4.825	4.472	6.268	2.767	2.808	2.155	1.720	1.611	1.416	3.479	3.057	4.980
Highest	32.570	38.680	43.650	8.700	7.782	19.060	3.564	13.880	11.550	32.780	29.640	47.600
Peak flow	39.080	44.800	46.880	10.540	10.900	24.610	4.242	15.760	15.560	40.700	34.830	52.390
Day of peak	6	9	11	25	20	2	22	6	26	24	18	30
Monthly total (million cu m)	34.91	22.14	43.14	11.51	10.97	9.85	5.76	7.31	9.26	28.93	21.00	34.46
Runoff (mm)	56	36	69	19	18	16	9	12	15	47	34	55
Rainfall (mm)	72	53	111	39	70	42	36	67	110	99	67	71

Statistics of monthly data for previous record (Oct 1937 to Dec 1980—Incomplete or missing months total 18 years)

Mean	Avg	10.230	9.635	6.404	4.600	3.779	2.712	2.900	3.123	3.462	4.468	7.809	9.237
Flows	Low	1.965	2.376	2.183	1.490	0.903	1.125	0.736	0.641	0.919	1.184	1.303	2.429
	(year)	1964	1965	1938	1938	1946	1962	1976	1976	1964	1947	1942	1947
	High	21.950	19.860	18.580	9.083	22.720	6.995	12.750	8.404	16.990	15.970	22.540	22.250
	(year)	1939	1980	1947	1965	1959	1954	1958	1971	1957	1954	1954	1965
Runoff	Avg	44	38	28	19	16	11	12	13	14	19	33	40
	Low	8	9	6	4	5	3	3	4	5	5	5	10
	High	95	80	80	38	98	29	55	36	71	69	94	96
Rainfall	Avg	68	52	49	48	51	58	71	73	66	68	77	71
	Low	18	8	18	2	18	13	16	6	5	15	13	10
	High	145	145	127	89	194	142	168	175	169	137	170	152

Summary statistics

	For 1981	For record preceding 1981	As % of pre-1981	Factors affecting flow regime
Mean flow (m³ s⁻¹)	7.585	5.678	134	● Flow influenced by groundwater abstraction and/or recharge
Lowest yearly mean		2.752	1964	● Abstraction for public water supplies
Highest yearly mean		9.209	1954	● Augmentation from effluent returns
Lowest monthly mean	2.150	Jul 0.641	Aug 1976	
Highest monthly mean	16.110	Mar 22.720	May 1969	
Lowest daily mean	1.416	6 Sep 0.394	17 Aug 1976	
Highest daily mean	47.600	30 Dec 84.950	9 Feb 1946	
Peak	52.390	30 Dec 212.400	8 Feb 1946	
10 %ile	16.410	12.340	133	
50 %ile	4.745	3.221	147	
95 %ile	1.743	1.112	157	
Annual total (million cu m)	239.20	179.20	133	
Annual runoff (mm)	385	288	133	
Annual rainfall (mm)	837	762	110	
[1941-70 rainfall average (mm)]		754		

Station description

Velocity-area station In 1978 V shaped bed control of steel piles with capping installed

071001 Ribble at Samlesbury**1981**

Measuring authority: NWWA
First year 1960

Grid reference SD 589304
Level sea (m OD) 6.00

Catchment area (sq km) 1145.0
Max alt (m OD) 680

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	86 940	15 170	29 270	16 850	22 260	13 120	5 874	4 300	5 362	321 700	81 690	144 200
2	365 700	163 400	61 380	15 400	13 800	58 790	5 413	4 003	5 301	140 800	111 500	98 270
3	162 600	156 800	32 140	13 780	56 910	30 300	5 321	3 924	5 372	69 840	46 890	50 240
4	61 410	69 580	18 270	12 130	32 890	17 670	4 998	3 974	5 517	90 520	40 050	78 900
5	39 670	42 220	15 520	11 300	19 300	20 910	10 270	4 024	5 729	42 600	34 090	63 490
6	45 040	37 780	102 800	10 440	29 650	18 660	20 980	31 650	5 609	67 090	28 920	30 710
7	34 040	31 960	218 000	10 040	18 480	21 530	8 848	26 410	5 725	104 600	23 590	79 120
8	40 180	51 250	112 700	9 748	14 810	25 920	6 396	14 600	6 440	198 400	18 730	23 450
9	59 570	94 620	66 480	9 990	12 270	32 230	5 330	12 200	5 698	244 400	15 340	18 390
10	34 710	43 530	229 100	8 970	11 870	44 140	4 645	9 190	6 400	149 800	25 360	17 450
11	24 980	28 490	192 100	10 010	10 870	85 600	4 397	6 794	9 891	123 800	160 600	16 560
12	46 100	24 840	103 600	10 590	9 253	40 640	4 233	5 700	7 266	70 350	139 300	15 680
13	56 210	23 190	50 970	8 710	9 175	22 530	4 082	5 555	5 981	58 030	90 870	12 130
14	216 300	18 560	33 610	7 522	9 640	57 450	3 897	19 000	12 330	47 470	51 270	14 050
15	64 770	16 120	26 890	6 955	8 997	39 910	3 873	16 410	31 320	37 910	26 540	14 050
16	86 110	15 390	21 970	6 604	10 640	21 260	4 341	11 510	12 410	29 980	16 830	14 050
17	211 900	13 980	19 210	6 158	8 939	15 230	7 384	6 916	10 880	22 160	92 020	14 050
18	72 310	12 920	87 790	5 752	8 747	12 410	7 623	26 850	54 750	16 690	148 300	21 210
19	68 230	11 660	288 800	5 489	10 150	12 330	8 583	69 850	93 130	89 460	54 760	19 130
20	45 610	10 730	150 700	5 340	10 130	11 300	45 640	50 740	99 030	90 720	63 990	32 430
21	78 850	9 909	393 000	5 320	13 150	9 260	48 220	20 260	52 160	51 270	50 030	29 720
22	52 820	9 213	261 700	5 384	11 570	8 301	42 820	15 300	34 180	24 440	58 190	20 650
23	38 870	8 923	281 000	5 773	18 960	7 555	28 210	11 720	32 720	16 260	119 400	22 700
24	35 040	8 525	126 400	18 410	22 240	7 141	18 030	8 936	4 960	49 220	68 920	16 430
25	28 070	8 071	105 800	58 180	20 220	6 784	11 470	7 545	26 440	68 420	58 920	13 510
26	47 810	7 885	84 150	27 120	17 290	6 306	9 215	8 765	199 900	32 330	276 700	13 800
27	40 230	7 710	42 930	28 520	21 730	6 024	8 080	6 144	134 400	59 880	189 200	11 850
28	26 880	16 960	30 070	49 390	28 590	5 682	6 916	5 796	112 600	82 520	112 300	15 500
29	21 880		22 920	51 760	15 860	5 724	5 873	5 697	55 770	85 910	53 160	71 310
30	19 170		19 190	38 960	11 790	6 119	5 072	5 484	73 530	106 200	127 600	102 900
31	17 180			16 660	11 870		4 655	5 299		118 300		131 400
Average	71 910	34 260	104 700	16 020	16 840	22 360	11 640	13 950	38 790	87 450	79 500	37 910
Lowest	17 180	7 710	15 520	5 320	8 747	5 692	3 873	3 924	5 301	16 260	15 340	11 850
Highest	365 700	163 400	393 000	58 180	56 910	85 600	48 220	69 850	199 900	321 700	276 700	144 200
Peak flow	502 400	513 100	643 300	81 100	114 900	140 200	110 400	159 100	399 400	402 600	543 200	173 200
Day of peak	2	2	21	25	3	2	20	19	26	1	76	31
Monthly total (million cu m)	192.60	82.89	280.40	41.52	45.11	57.96	31.16	37.37	100.60	234.20	206.10	101.50
Rainfall (mm)	168	72	245	36	39	51	27	33	88	205	180	89
Rainfall (mm)	164	88	280	57	88	72	75	99	217	174	174	74

Statistics of monthly data for previous record (May 1960 to Dec 1980)

Mean flows	Avg	47 020	38 840	30 510	27 710	19 680	13 290	16 910	24 700	30 730	38 670	53 100	53 990
Low	Low	10 610	9 565	11 790	5 601	4 048	5 031	4 578	2 958	5 782	5 716	25 140	15 190
(year)		1963	1965	1975	1974	1980	1975	1976	1976	1972	1972	1962	1971
High	High	75 970	80 890	67 900	54 820	46 460	33 520	40 220	68 920	65 820	118 400	88 610	120 200
(year)		1965	1968	1979	1970	1967	1966	1960	1967	1968	1967	1963	1965
Rainfall	Avg	110	83	71	63	46	30	40	58	70	90	120	126
Low	25	20	28	13	9	11	11	7	13	13	57	57	36
High	178	171	159	124	109	76	94	161	149	277	201	281	
Rainfall	Avg	127	92	97	79	87	90	97	105	138	132	148	142
(1964)	Low	63	17	51	3	16	27	52	20	48	50	88	43
(1980)	High	196	189	181	171	178	166	158	169	277	304	221	278

Summary statistics

	For 1981	For record preceding 1981	1981	As % of pre-1981	Factors affecting flow regime
Mean flow (m³ s⁻¹)	44 760	32 900	136		
Lowest yearly mean		22 040	1971		● Reservoir(s) in catchment
Highest yearly mean		45 070	1967		● Augmentation from effluent returns
Lowest monthly mean	11 640	Jul 2 958	Aug 1976		
Highest monthly mean	104 700	Mar 120 200	Dec 1965		
Lowest daily mean	3 873	15 Jul 2 106	28 Aug 1976		
Highest daily mean	393 000	21 Mar 675 000	27 Oct 1980		
Peak	643 300	21 Mar 810 000	27 Oct 1980		
10%ile	110 500	80 370	137		
50%ile	21 670	16 320	133		
95%ile	5 313	4 583	116		
Annual total (million cu m)	1412.00	1038.00	136		
Annual rainfall (mm)	1233	907	136		
Annual rainfall (mm)	1577	1334	118		
	[1941-70 rainfall average (mm)]	1329]			

Station description

Original a velocity-area station A compound weir for more accurate measurement of low and medium discharges was completed in 1970 with Crump profile flat V centre section and horizontal flank weirs of Crump profile. Velocity-area station became the primary gauging site in 1981 due to vandalism at the weir site.

073010 Leven at Newby Bridge

1981

Measuring authority: NWWA
 First year: 1939

Grid reference: SD 367863
 Level stn. (m OD) 37.28

Catchment area (sq km). 247.0
 Max alt. (m OD): 873

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DLC
1	30 770	6 847	5 833	14 760	7 493	7 799	1 857	3 965	1 607	50 440	24 470	31 160
2	42 220	12 750	9 216	12 340	6 661	8 717	2 054	3 314	1 367	58 870	38 420	26 430
3	55 360	32 670	9 523	10 450	9 411	8 922	2 179	2 765	1 652	55 110	36 920	22 340
4	48 470	33 090	9 137	8 657	12 120	10 690	2 051	2 838	1 359	47 140	34 790	20 980
5	39 780	29 180	9 586	7 504	11 390	13 850	2 672	2 753	1 300	39 440	28 660	19 000
6	33 130	23 960	14 160	6 399	11 540	15 490	4 167	2 826	1 358	31 550	24 220	16 610
7	26 150	21 470	31 420	5 367	11 830	17 570	5 160	2 526	1 248	28 410	20 330	14 440
8	21 630	19 450	46 840	4 788	11 380	23 170	5 127	2 307	1 339	34 080	16 980	12 290
9	20 400	17 060	45 570	4 149	11 220	27 890	4 980	2 317	1 237	62 450	14 020	10 730
10	17 940	14 620	55 960	3 926	10 290	26 260	4 244	1 873	1 340	67 890	13 160	9 340
11	15 030	12 460	62 310	3 823	9 503	27 600	5 072	1 749	2 244	58 060	22 060	7 822
12	13 810	11 370	55 070	4 177	8 078	26 870	5 181	1 731	2 914	47 730	23 620	6 770
13	12 240	10 270	45 580	3 760	7 261	28 190	4 581	1 943	2 611	39 100	21 170	6 232
14	22 400	9 175	36 990	3 352	6 282	32 100	3 982	2 568	3 296	32 130	18 370	6 215
15	26 210	8 262	28 640	2 754	5 901	29 330	3 522	2 593	4 336	24 260	16 050	5 488
16	24 060	7 545	23 000	2 420	5 510	23 450	3 604	2 440	5 333	19 790	15 190	4 823
17	27 160	6 697	18 630	2 232	5 134	19 870	4 605	1 920	6 357	16 350	16 840	4 083
18	27 740	6 062	16 690	2 051	4 970	16 430	5 214	2 245	12 000	14 170	21 210	3 473
19	27 250	5 406	18 070	2 153	5 890	14 170	5 170	3 894	25 770	18 210	21 560	3 051
20	25 490	4 817	19 740	1 625	6 798	12 070	6 160	8 177	42 890	17 920	23 140	5 487
21	24 510	4 448	27 730	1 533	7 612	9 635	8 904	7 883	40 200	16 100	25 020	5 752
22	24 420	4 697	35 800	1 594	7 274	8 105	14 070	6 976	35 170	13 940	27 030	5 141
23	22 030	4 087	37 790	1 603	8 489	6 742	15 230	5 871	33 120	12 160	39 760	4 859
24	20 000	3 711	43 100	4 155	11 980	5 903	13 480	4 883	42 590	11 400	41 070	4 100
25	17 950	3 407	47 650	4 009	13 320	4 975	11 720	4 051	46 160	10 900	36 110	3 881
Average	23 780	11 580	29 970	4 805	9 098	14 680	6 085	3 311	20 000	29 570	27 810	9 376
Lowest	8 220	3 263	5 833	1 533	4 970	2 042	1 857	1 731	1 237	10 690	13 160	3 051
Highest	55 360	33 090	62 310	14 760	13 320	32 100	15 230	8 177	61 480	67 890	50 880	31 160
Peak flow	57 550	35 050	65 440	16 270	13 860	32 970	16 440	8 679	64 540	71 120	52 460	35 210
Day of peak	3	3	11	1	25	14	23	20	27	10	27	1
Monthly total (million cu m)	63 68	28 02	80 27	12 45	24 36	38 06	16 30	8 87	51 84	79 19	72 08	25 11
Runoff (mm)	258	113	325	50	99	154	66	36	210	321	292	102
Rainfall (mm)	220	126	341	65	148	180	142	75	379	328	321	98

Statistics of monthly data for previous record (Jan 1939 to Dec 1980)

Mean flows (year)	19 140	16 740	12 570	11 570	7 724	6 407	7 599	10 710	14 700	16 530	20 150	20 860
Low	1 935	0 974	3 699	1 796	0 641	0 545	0 775	0 722	0 560	1 438	7 200	8 208
1963	1 963	1 962	1 974	1 980	1 978	1 941	1 955	1 959	1 972	1 958	1 963	
High	38 020	31 030	27 550	21 640	16 940	18 730	16 990	25 580	33 920	50 170	36 350	40 110
(year)	1975	1945	1978	1949	1984	1972	1953	1962	1946	1967	1954	1954
Runoff Avg	208	165	136	121	84	67	82	116	154	179	211	226
Low	21	10	40	19	7	6	8	8	6	16	76	89
High	412	304	299	227	184	197	184	277	356	544	381	435
Rainfall: Avg (1984)	225	144	162	112	119	124	136	161	213	207	234	236
Low	67	20	73	12	29	73	81	31	29	91	127	90
High	439	295	291	227	241	225	225	246	319	557	363	401

Summary statistics

	For 1981	For record preceding 1981	1981 As % of pre-1981	Factors affecting flow regime
Mean flow (m³ s⁻¹)	15 880	13 710	116	● Reservoir(s) in catchment.
Lowest yearly mean		9 234	1973	
Highest yearly mean		21 840	1954	
Lowest monthly mean	3 311	Aug 0 545	Jun 1978	
Highest monthly mean	29 970	Mar 50 170	Oct 1967	
Lowest daily mean	1 237	9 Sep 0 108	7 Oct 1972	
Highest daily mean	67 890	10 Oct 115 900	2 Dec 1954	
Peak	71 120	10 Oct		
10 %ile	39 050	29 970	130	
50 %ile	10 600	10 190	104	
95 %ile	1 915	1 285	149	
Annual total (million cu m)	500 20	432 70	116	
Annual runoff (mm)	2025	1752	116	
Annual rainfall (mm)	2423	2073	117	
(1941-70 rainfall average (mm))		2189		

Station description

Compound Crump weir supersedes the original station 073001 in 1970. All flow records from 1939 combined in single sequence

076007 Eden at Sheepmount**1981**

Measuring authority: NWWA
First year: 1967

Grid reference: NY 390571
Level stat (m OD) 6.97

Catchment area (sq km) 2286.5
Max alt (m OD) 950

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	99 660	34 180	27 560	44 340	40 570	27 770	14 620	15 350	9 736	296 900	83 550	105 900
2	207 100	166 100	74 440	41 160	29 140	48 610	14 320	14 460	9 513	455 400	134 300	78 540
3	167 400	247 300	54 160	36 690	49 900	41 700	14 840	13 740	9 403	189 200	72 560	66 980
4	98 680	103 400	36 800	34 840	63 610	29 840	14 320	13 420	9 273	160 300	70 300	96 550
5	74 340	74 290	31 450	31 150	38 510	39 870	13 730	12 940	9 256	128 600	53 510	69 880
6	70 080	71 350	52 300	29 070	31 330	35 610	15 780	12 820	9 488	98 040	45 560	57 030
7	61 060	60 720	220 600	27 710	30 370	46 780	16 260	12 870	9 361	123 900	40 290	51 750
8	75 060	55 610	208 500	26 360	30 910	83 320	15 190	14 270	9 158	195 400	36 250	43 660
9	84 990	47 590	96 670	25 230	30 060	77 070	14 250	15 330	9 265	464 400	33 170	36 280
10	58 920	42 980	214 800	23 600	33 920	55 320	13 690	13 850	9 398	225 500	36 550	31 950
11	50 400	38 610	165 900	23 520	29 500	111 800	14 710	12 590	11 160	128 500	95 720	28 260
12	58 010	36 380	120 000	28 740	26 840	65 770	14 610	11 770	12 790	94 890	56 840	27 200
13	51 810	35 590	83 100	29 160	23 930	90 340	13 960	12 040	11 990	74 800	42 850	29 270
14	157 900	32 540	73 220	23 790	22 150	83 710	13 080	12 250	11 480	62 130	37 090	27 390
15	75 650	30 660	59 750	21 270	71 100	46 790	12 630	12 300	16 180	52 800	34 060	24 710
16	60 000	29 200	50 110	19 890	21 270	38 930	18 830	11 830	15 280	46 120	35 150	22 300
17	147 300	27 600	44 560	18 900	24 680	32 830	30 900	10 980	13 820	40 970	53 660	20 770
18	92 360	26 120	44 920	18 250	20 880	29 200	28 080	10 980	22 720	37 480	120 400	22 670
19	100 900	24 740	60 340	17 440	20 100	28 440	19 960	15 760	51 860	43 220	79 930	40 800
20	73 210	24 220	85 420	17 030	23 000	26 830	32 030	34 530	156 800	41 560	111 300	46 840
21	113 100	23 430	139 900	16 590	36 730	23 470	43 890	20 540	77 040	36 070	77 000	43 660
22	105 900	22 390	247 900	16 030	27 900	21 310	82 490	15 880	54 860	32 440	70 020	28 840
23	81 960	21 400	212 700	16 030	25 680	19 910	71 900	13 650	66 420	29 910	368 000	25 100
24	70 590	20 590	209 700	19 680	30 370	19 250	42 550	12 500	129 800	30 710	139 000	22 930
25	58 760	19 860	240 100	24 910	31 010	18 210	30 780	11 860	97 490	35 930	95 160	20 920
26	66 650	19 800	155 500	31 680	32 020	17 350	26 520	11 410	224 500	33 820	193 400	19 760
27	58 140	19 090	103 400	36 000	55 480	16 490	23 300	10 990	194 800	57 300	246 200	19 530
28	49 100	22 380	86 250	63 320	48 800	15 790	21 000	10 630	151 600	63 050	149 300	19 410
29	44 340		66 450	80 470	33 740	15 080	19 230	10 440	112 500	80 390	106 900	44 250
30	40 640		56 250	64 660	28 750	14 670	17 510	10 240	138 800	56 510	169 800	73 450
31	36 600		48 940		26 360		16 300	9 909		51 610		118 700
Average	83 500	49 220	108 800	30 250	31 830	40 800	23 910	13 610	55 520	111 900	96 260	44 040
Lowest	36 600	19 090	27 560	16 030	20 100	14 670	12 630	9 909	9 156	29 910	33 170	19 410
Highest	207 100	247 300	247 900	80 470	63 610	111 800	82 490	34 530	274 500	464 400	368 000	118 700
Peak flow	238 300	463 500	362 800	91 380	91 030	155 800	121 000	45 300	598 500	630 600	543 100	145 100
Day of peak	2	2	23	29	4	11	22	20	26	2	23	31
Monthly total (million cu m)	223 70	119 10	291 30	78 41	85 24	105 80	64 03	36 45	143 90	299 60	249 50	118 00
Runoff (mm)	98	52	127	34	37	46	28	16	63	131	109	52
Rainfall (mm)	101	62	177	47	88	91	84	38	186	177	163	49

Statistics of monthly data for previous record (Oct 1967 to Dec 1977)

Mean flows (year)	79 810	61 380	45 610	41 490	26 750	20 700	20 590	21 800	35 270	60 290	70 470	66 350
Lowest (year)	42 850	37 540	24 360	13 070	11 050	10 420	9 732	7 026	9 218	7 985	30 420	32 480
High (year)	151 200	100 000	119 700	63 960	43 000	50 380	38 990	54 790	87 320	225 000	108 700	139 200
Runoff Avg (year)	93	65	53	47	31	23	24	26	40	71	80	78
Low (year)	50	40	29	15	13	12	11	8	10	9	34	38
High (year)	177	106	140	73	50	57	43	64	99	264	123	163
Rainfall Avg (1968)	125	76	86	61	65	74	80	95	102	102	134	113
Low (1980)	74	28	43	8	28	37	45	19	26	31	54	43
High (1980)	232	129	163	111	119	168	122	161	156	178	200	210

Summary statistics

	For 1981	For record preceding 1981	1981 As % of pre-1981	Factors affecting flow regime
Mean flow (m³ s⁻¹)	57.550	45 800	126	● Reservoir(s) in catchment. ● Abstraction for public water supplies
Lowest yearly mean		28 180	1973	
Highest yearly mean		59 740	1968	
Lowest monthly mean	13 610	Aug 7 026	Aug 1976	
Highest monthly mean	111 900	Oct 225 000	Oct 1967	
Lowest daily mean	9 156	8 Sep 5 468	7 Sep 1976	
Highest daily mean	464 400	9 Oct 772 900	23 Mar 1968	
Peak	630 600	2 Oct 1357 000	24 Mar 1968	
10 %ile	128 100	93 690	137	
50 %ile	35 780	79 070	123	
95 %ile	11 290	9 365	121	
Annual total (million cu m)	1815 00	1445 00	126	
Annual runoff (mm)	794	632	126	
Annual rainfall (mm)	1263	1113	113	
[1941-70 rainfall average (mm)]		1240]		

Station description

Velocity-area station

079006 Nith at Drumlanrig**1981**

Measuring authority: SRPB
First year: 1967

Grid reference: NX 858994
Level stn. (m OD) 52.20

Catchment area (sq km): 471.0
Max alt. (m OD): 725

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	50 350	25 420	13 090	9 677	1 202	5 344	4 250	2 351	1 443	138 200	69 750	27 610
2	207 600	61 900	19 040	8 215	1 169	21 260	4 070	2 190	1 414	153 900	40 600	18 670
3	92 330	54 980	8 386	6 984	1 138	8 035	4 011	4 399	1 388	66 600	48 250	20 880
4	34 970	27 930	6 091	6 002	1 460	18 450	3 950	4 847	1 383	34 580	27 860	29 780
5	23 590	30 490	5 589	5 352	2 561	14 540	3 844	2 934	1 587	26 050	16 970	15 620
6	24 530	30 830	44 260	5 075	2 955	12 150	3 624	2 415	1 597	18 020	12 680	13 580
7	25 730	32 110	120 200	4 580	5 561	16 170	3 155	2 198	1 495	29 670	10 330	12 330
8	28 320	20 870	49 850	4 417	13 490	38 950	2 940	2 047	1 439	53 900	8 789	8 631
9	23 200	13 550	21 440	3 998	8 880	35 450	2 950	1 895	1 399	96 220	7 956	8 593
10	13 940	10 300	45 290	3 901	10 500	17 450	2 201	1 787	1 922	57 850	18 070	11 310
11	12 930	8 795	25 520	3 892	5 151	23 630	5 423	1 756	4 619	41 690	32 640	12 680
12	18 790	27 750	19 050	3 878	4 019	12 090	2 888	1 746	2 597	30 610	14 420	12 640
13	33 870	16 660	13 930	3 857	4 285	34 050	2 305	1 903	1 927	21 090	11 660	14 780
14	107 200	10 160	11 190	3 254	3 553	22 900	2 102	1 849	2 019	16 460	11 380	16 440
15	30 150	8 736	12 740	1 926	3 284	12 200	1 979	1 701	6 881	12 540	32 670	15 740
16	19 460	7 438	8 732	1 474	4 241	10 440	2 147	1 618	4 345	11 910	24 980	19 590
17	38 880	6 509	7 604	1 440	4 451	8 377	9 863	1 613	33 420	9 757	22 210	23 820
18	45 610	5 897	11 920	1 335	5 027	6 826	5 485	2 680	40 630	19 700	19 500	24 540
19	35 190	5 152	14 220	1 269	13 700	6 600	3 660	9 824	66 380	27 750	30 390	21 990
20	25 420	4 964	20 840	1 220	6 063	5 680	4 983	8 551	79 950	15 180	53 120	20 170
21	87 690	63 080	43 920	1 202	5 176	4 688	14 450	3 860	25 320	10 770	33 110	18 850
22	41 360	51 610	19 410	1 169	4 015	4 250	46 170	2 774	19 990	8 707	27 840	15 650
23	25 440	22 840	25 810	1 138	13 940	4 070	16 240	2 247	95 390	7 883	106 000	13 400
24	21 540	16 860	43 420	1 460	11 990	4 011	7 617	1 989	45 410	8 201	32 330	12 370
25	19 820	13 110	45 160	2 561	6 958	3 950	5 643	1 926	24 830	8 811	31 590	11 140
Average	37 650	21 660	27 520	4 355	6 021	12 270	6 129	2 674	25 510	34 080	35 300	16 790
Lowest	8 222	4 964	5 589	1 138	1 138	2 940	1 979	1 473	1 383	7 883	7 956	8 593
Highest	207 600	63 080	120 200	13 490	13 940	38 950	46 170	9 824	95 390	153 900	106 000	33 540
Peak flow	276 900	157 900	234 800	20 350	21 600	69 930	61 910	23 560	279 000	366 000	253 500	80 170
Day of peak	2	2	7	28	19	8	21	19	19	1	23	30
Monthly total (million cu m)	100 80	52 40	73 72	11 29	16 13	31 80	16 42	7 16	66 12	91 28	91 49	44 98
Runoff (mm)	214	111	157	24	34	68	35	15	140	194	194	96
Rainfall (mm)	186	98	191	40	108	118	96	43	241	234	223	69

Statistics of monthly data for previous record (Jun 1967 to Dec 1980)

Mean flows	Avg	27 010	19 490	16 240	9 884	7 461	4 918	5 011	6 257	12 720	19 870	26 040	23 010
	Low	14 220	9 269	4 428	2 457	1 389	1 879	1 511	1 074	1 261	2 745	14 890	12 770
	(year)	1980	1979	1969	1974	1980	1978	1976	1976	1972	1972	1967	1971
	High	61 220	30 930	33 190	24 190	16 030	14 660	10 360	21 010	24 820	39 200	39 790	41 980
	(year)	1974	1970	1978	1972	1968	1972	1970	1980	1980	1987	1977	1974
Runoff	Avg	154	101	92	54	42	27	28	38	70	113	143	131
	Low	81	48	25	14	8	10	9	6	7	16	82	73
	High	348	159	180	133	91	81	59	119	137	223	219	239
Rainfall	Avg	175	113	115	74	96	84	95	94	144	162	174	150
	Low	87	32	34	11	19	52	55	23	20	66	94	77
	High	398	170	217	175	213	163	144	179	215	301	252	282

Summary statistics

	For 1981	For record preceding 1981	1981	
Mean flow (m³ s⁻¹)	19 140	14 810	129	
Lowest yearly mean		10 720	1971	
Highest yearly mean		18 380	1977	
Lowest monthly mean	2 674	Aug 1 074	Aug 1978	
Highest monthly mean	37 650	Jan 61 220	Jan 1974	
Lowest daily mean	1 138	23 Apr 0 746	28 Aug 1978	
Highest daily mean	207 600	2 Jan 227 800	30 Jan 1974	
Peak	366 000	1 Oct 449 200	30 Oct 1977	
10 %ile	44 990	37 540	120	
50 %ile	10 890	7 611	143	
95 %ile	1 472	1 344	110	
Annual total (million cu m)	603 60	467 40	129	
Annual runoff (mm)	1282	992	129	
Annual rainfall (mm)	1645	1476	111	
[1941-70 rainfall average (mm)]		1584		

Factors affecting flow regime

- Reservoir(s) in catchment
- Abstraction for public water supplies

Station description
Velocity-area station

084005 Clyde at Blairston**1981**

Measuring authority CRPB
First year 1958

Grid reference NS 704579
Level stn (m OD) 17 60

Catchment area (sq km) 1704.2
Max alt (m OD) 732

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	96 020	26 750	19 780	33 170	15 980	11 970	10 330	11 650	9 725	160 000	150 500	78 120
2	352 500	130 300	57 130	28 760	13 450	20 500	11 350	11 270	9 948	455 700	148 100	60 530
3	208 100	163 000	37 150	25 210	26 860	25 080	10 770	12 220	9 648	196 000	114 300	61 350
4	93 780	79 980	23 180	22 810	29 170	24 850	10 320	14 310	10 700	98 660	98 790	78 800
5	67 240	56 070	23 650	21 080	17 580	33 000	10 980	13 090	17 100	69 730	60 970	57 170
6	64 040	71 480	119 400	19 720	15 210	21 930	13 350	11 600	12 620	51 200	48 990	49 060
7	67 020	103 900	235 000	18 410	12 670	25 100	12 430	11 140	11 350	58 410	40 260	42 180
8	90 830	67 980	177 400	18 010	16 910	76 670	11 050	10 030	10 980	99 340	34 280	32 890
9	87 780	43 920	79 930	17 110	15 530	92 290	10 000	10 720	10 530	200 800	30 980	22 320
10	54 780	36 970	177 200	16 090	14 830	50 260	10 150	10 570	11 390	117 200	51 310	17 780
11	49 250	31 370	101 700	15 640	14 800	58 160	18 020	10 540	11 680	73 110	98 910	16 450
12	61 930	33 220	68 680	16 510	13 670	42 550	20 070	10 390	12 870	51 660	56 750	16 870
13	52 400	33 970	53 560	15 440	14 540	10 500	12 960	10 690	11 350	47 080	40 010	19 740
14	171 000	27 430	46 410	13 680	13 030	109 400	10 620	10 720	14 350	40 330	33 430	20 250
15	74 810	25 180	46 630	13 100	11 810	49 910	9 812	10 290	20 840	33 900	43 380	17 560
16	54 030	23 250	35 610	12 770	13 420	35 410	9 524	10 160	17 260	29 970	61 920	14 760
17	83 230	21 120	28 650	12 500	14 540	28 350	11 330	10 530	37 010	27 460	68 470	11 430
18	97 240	20 060	30 680	11 920	12 410	24 150	12 010	10 830	73 900	32 090	69 640	10 860
19	97 920	18 780	31 860	12 030	12 450	22 670	10 770	16 780	24 480	59 150	87 470	14 700
20	63 760	18 610	42 790	11 790	14 260	20 380	10 240	24 420	199 900	40 420	135 900	20 330
21	136 300	17 880	61 110	11 570	12 620	17 220	11 890	16 580	77 340	28 610	98 980	21 480
22	105 800	16 880	59 150	11 200	11 810	15 810	50 040	12 690	44 670	23 430	87 140	17 370
23	71 730	15 860	63 590	11 180	11 540	14 090	57 060	11 530	151 800	21 440	154 400	14 140
24	62 460	15 010	96 590	12 930	14 880	13 470	25 520	11 050	159 000	22 880	88 160	13 840
25	55 630	14 320	124 400	14 070	15 220	12 710	17 010	10 690	63 280	21 570	70 390	11 860
26	58 690	14 700	88 070	16 990	14 140	11 840	14 610	10 490	206 400	20 400	137 300	13 820
27	52 360	14 040	57 810	16 700	17 720	11 210	13 120	10 340	252 300	48 440	188 400	13 640
28	42 450	16 930	87 430	19 670	19 230	10 850	12 760	10 050	150 100	56 610	108 800	13 370
29	37 610	79 380	21 860	17 270	10 420	11 900	10 020	81 050	138 600	93 310	15 300	
30	33 020	51 730	18 650	13 960	10 240	10 500	9 763	56 960	144 000	150 200	43 800	
31	28 480		39 800		13 690		9 675	9 893		100 700		74 280
Average	86 200	41 390	72 430	17 020	15 490	33 400	15 170	11 810	61 020	82 870	88 380	29 540
Lowest	28 480	14 040	19 780	11 180	11 540	10 240	9 524	9 763	9 648	20 400	30 980	10 860
Highest	352 500	163 000	235 000	33 170	29 170	109 400	57 060	24 420	252 300	455 700	188 400	78 800
Peak flow	461 600	259 000	263 400	36 910	37 520	172 100	69 070	28 640	362 000	525 000	248 00	108 900
Day of peak	2	3	8	1	4	14	23	20	27	2	2	1
Monthly total (million cu m)	230 90	100 10	194 00	44 12	41 49	86 57	40 62	31 63	158 20	222 00	229 10	79 13
Runoff (mm)	135	59	114	26	24	51	24	19	93	130	134	46
Rainfall (mm)	115	59	140	22	67	97	78	29	189	173	156	44

Statistics of monthly data for previous record (Oct 1958 to Dec 1980)

Mean flows	Avg	59 410	49 280	41 520	30 480	23 720	16 700	14 960	23 800	34 190	46 980	62 860	62 570
	Low	11 920	8 855	14 810	10 430	8 832	8 127	8 361	7 654	7 627	8 246	26 620	26 080
	(year)	1963	1963	1969	1974	1980	1961	1976	1976	1972	1972	1958	1963
	High	134 300	80 580	88 940	58 700	51 980	4 190	29 700	57 520	74 550	114 600	119 300	-115 100
	(year)	1975	1962	1979	1972	1967	1972	1965	1962	1962	1967	1979	1974
Runoff													
	Avg	93	71	65	46	37	25	24	37	52	74	96	98
	Low	19	13	23	16	14	12	13	12	12	13	40	41
	High	211	114	140	89	82	63	47	90	113	180	181	181
Rainfall													
	Avg	107	75	72	68	77	74	85	97	106	110	118	112
	Low	25	23	28	9	23	43	39	24	16	33	43	38
	High	237	127	137	125	127	157	125	201	196	231	221	209

Summary statistics

	For 1981	For record preceding 1981	As % of pre 1981	1981	Factors affecting flow regime
Mean flow (m ³ s ⁻¹)	46 230	38 820	119		
Lowest yearly mean		27 090	1973		
Highest yearly mean		49 550	1979		
Lowest monthly mean	11 810	Aug 7627	Sep 1972		
Highest monthly mean	88 380	Nov 134 300	Jan 1975		
Lowest daily mean	9 524	16 Jul 4 502	11 Oct 1959		
Highest daily mean	455 700	2 Oct 643 700	31 Oct 1977		
Peak	525 000	2 Oct 762 600	31 Oct 1977		
10 %ile	102 900	88 510	116		
50 %ile	23 080	22 850	101		
95 %ile	10 330	8 125	127		
Annual total (million cu m)	1458 00	1225 00	119		
Annual runoff (mm)	855	719	119		
Annual rainfall (mm)	1169	1101	106		
[1941-70 rainfall average (mm)]					
1151]					

Station description

Velocity-area station

085003 Falloch at Glen Falloch**1981**

Measuring authority: CRPB
First year: 1970

Grid reference: NN 321197
Level stat. (m OD) 9.50

Catchment area (sq km) 80.3
Max alt. (m OD) 1130

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	34 640	9 774	2 168	1 059	0 300	1 712	1 118	0 399	0 251	9 126	35 010	2 604
2	52 780	13 950	1 968	0 929	0 587	3 965	1 512	0 345	0 225	9 880	11 660	2 437
3	10 010	6 211	0 896	0 750	2 578	9 022	0 876	0 629	0 272	10 370	76 760	9 711
4	2 688	2 689	0 699	0 638	1 094	9 369	1 112	0 419	21 020	2 958	4 239	3 222
5	3 404	18 250	0 680	0 582	0 651	5 326	10 090	0 416	3 550	2 148	2 163	2 140
6	2 601	21 450	4 918	0 558	1 390	9 932	11 750	0 374	1 260	4 040	1 623	1 632
7	8 022	69 150	68 890	0 578	9 802	8 194	6 788	0 273	0 829	3 664	1 340	0 989
8	16 820	4 598	11 080	0 551	3 170	11 790	2 613	0 260	1 029	9 562	1 303	0 626
9	4 010	2 333	3 282	0 471	1 236	4 588	1 585	0 244	5 534	13 950	15 100	0 477
10	1 844	1 553	20 570	0 435	0 953	2 163	2 133	0 245	26 990	12 130	30 110	0 378
11	4 790	5 328	15 380	0 895	0 643	1 691	5 910	1 064	3 854	4 214	5 532	0 299
12	2 360	19 500	4 501	0 708	0 790	8 689	2 425	1 373	1 488	2 739	2 580	0 375
13	37 080	4 003	2 148	0 498	1 166	18 050	1 347	0 829	1 008	1 798	2 490	0 463
14	11 210	2 298	1 557	0 390	0 987	4 557	1 068	0 580	2 551	1 387	3 465	0 484
15	1 944	4 736	1 279	0 339	0 720	3 560	2 839	0 966	2 215	1 784	12 420	0 449
16	1 484	1 859	1 013	0 307	2 878	2 601	2 738	0 515	7 920	2 571	13 410	0 419
17	1 838	1 442	2 064	0 268	2 321	1 604	1 764	1 994	27 390	1 439	12 010	0 445
18	5 020	1 159	2 743	0 241	4 071	1 315	1 097	2 027	10 630	21 190	6 713	0 445
19	2 773	0 976	2 930	0 226	5 368	1 149	1 913	12 790	19 550	4 680	31 270	0 861
20	3 015	0 836	3 291	0 216	3 569	0 787	1 298	1 663	32 790	2 182	18 730	1 802
21	23 800	0 722	2 614	0 197	1 963	0 575	2 663	1 226	24 010	1 624	35 960	0 954
22	12 340	0 723	1 611	0 170	3 288	0 492	4 465	0 755	5 694	1 344	15 330	0 643
23	11 280	0 610	1 685	0 157	13 500	0 458	1 632	0 595	31 460	1 836	5 381	0 569
24	4 627	0 555	20 790	0 198	5 647	0 387	0 933	1 545	6 935	1 572	2 670	0 509
25	2 958	0 556	23 260	0 190	1 668	0 319	1 107	1 364	3 382	1 276	35 030	0 528
26	7 601	0 476	4 840	0 175	2 206	0 274	1 021	0 760	44 260	5 838	24 870	0 584
27	3 215	0 644	14 580	0 157	1 425	0 241	0 791	0 519	24 340	13 320	9 878	0 550
28	2 725	1 798	29 110	0 232	1 373	0 228	2 825	0 433	8 020	16 600	3 492	0 518
29	8 111	3 090	0 809	1 047	0 278	1 241	0 370	3 865	16 810	12 300	0 852	
30	3 949	1 710	0 546	0 813	0 412	0 726	0 318	13 950	7 800	9 034	4 096	
31	3 019	1 290	5 803	0 514	0 276				6 548		3 844	
Average	9 257	7 078	8 279	0 452	2 678	3 79	2 577	1 144	1 210	6 336	13 230	1 416
Lowest:	1 484	0 476	0 680	0 157	0 300	0 228	0 514	0 244	0 225	1 276	1 303	0 299
Highest:	52 780	69 150	68 890	1 059	13 500	18 050	11 750	12 790	44 260	21 190	35 960	9 711
Peak flow	117 600	153 000	124 900	1 363	35 730	43 910	36 490	39 020	133 400	70 840	160 300	21 480
Day of peak	2	/	8	30	8	13	5	19	10	'8	20	3
Monthly total (million cu m)	24 79	17 12	22 17	1 17	7 77	9 63	6 90	3 06	29 05	16 97	34 29	1 79
Runoff (mm)	309	2 3	276	15	89	122	86	38	362	211	427	47
Rainfall (mm)	320	220	301	25	176	177	165	74	457	315	496	111

Statistics of monthly data for previous record (Oct 1970 to Dec 1980—Incomplete or missing months total 0 3 years)

Mean flows	Avg	8 920	5 197	5 482	3 066	2 718	2 741	2 536	3 174	6 014	6 366	8 917	7 507
(year)	Low	3 698	1 840	0 854	0 408	0 133	0 328	1 246	0 492	0 751	1 362	5 679	2 436
(year)	High	19 630	8 139	11 360	6 325	6 422	5 609	3 495	5 149	1 080	11 530	13 830	15 650
(year)	High	19 74	19 74	19 74	19 77	19 76	19 73	19 80	19 80	19 71	19 78	19 74	19 74
Runoff	Avg	298	158	183	99	91	88	85	106	196	212	288	250
Low	123	55	28	13	4	11	42	16	24	45	183	81	
High	655	245	379	204	214	181	117	172	358	385	446	522	
Rainfall	Avg	376	217	188	141	148	162	178	160	262	278	343	329
Low	172	136	100	15	20	67	11	42	40	100	257	162	
High	715	282	358	261	288	249	329	254	453	475	419	637	

Summary statistics

	For 1981			For record preceding 1981			1981			Factors affecting flow regime		
Mean flow (m³/s)	5 592			5 225			107					
Lowest year v. mean				4 440			1972					
Highest yearly mean				6 144			1974					
Lowest monthly mean	0 452	Apr	0 133		May	1980						
Highest monthly mean	13 230	Nov	19 630		Jan	1974						
Lowest daily mean	0 157	23 Apr	0 032		12 Jun	1977						
Highest daily mean	69 150	7 Feb	113 400		2 Mar	1979						
Peak	160 300	20 Nov	226 700		22 Oct	1971						
10%ile	16 240		14 370				13					
50%ile	1 961		1 955				100					
95%ile	0 268		0 214				125					
Annual total (million cu m)	176 30		164 90				107					
Annual runoff (mm)	2 96		2054				107					
Annual rainfall (mm)	2837		2782				102					
	[1941-70 annual average (mm)]		2732]									

Station description

Velocity-area station. Artificial low flow control from 1975

201005 Camowen at Camowen Terrace 1981

Measuring authority DOEN
First year 1972

Grid reference IH 460730
Level stn (m OD) 66.00

Catchment area (sq km) 274.6
Max alt (m OD) 539

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	6 400	2 793	9 098	3 474	1 635	3 042	1 155	0 947	0 657	4 299	17 830	9 646
2	12 140	38 250	4 927	3 143	1 341	14 860	1 204	0 921	0 663	14 940	7 978	5 523
3	7 261	19 050	3 134	2 889	2 639	7 003	1 223	1 675	0 654	20 850	12 100	4 318
4	4 849	11 670	2 605	2 625	2 947	4 599	1 117	1 301	1 434	7 977	6 552	4 799
5	6 098	7 167	29 530	2 391	2 058	3 642	1 151	1 106	1 487	4 559	4 462	4 011
6	11 290	5 223	14 380	2 249	2 641	4 822	1 152	1 063	1 940	3 805	3 763	4 607
7	5 835	4 903	14 320	2 077	11 380	9 176	1 102	0 982	0 818	3 463	3 280	9 425
8	6 738	4 147	7 438	2 178	5 228	24 100	1 116	0 995	0 827	22 830	2 940	4 866
9	6 743	3 398	5 734	2 131	2 244	6 287	1 091	1 008	0 777	22 350	2 650	3 663
10	5 124	2 994	15 780	2 037	1 873	3 964	1 048	0 958	2 913	13 720	2 684	3 012
11	4 803	2 695	6 604	2 276	1 646	5 440	1 061	0 922	1 756	7 995	3 381	2 545
12	7 889	2 885	4 640	2 474	1 441	3 303	1 032	0 863	1 793	5 276	2 881	2 421
13	34 390	2 743	13 400	2 077	19 350	2 859	0 994	0 877	1 720	4 003	2 437	9 620
14	27 300	2 332	6 798	1 892	15 520	2 547	0 963	0 845	22 830	3 317	2 263	12 230
15	9 689	2 184	4 280	1 758	3 975	2 189	0 827	0 848	5 805	2 765	2 552	6 278
16	42 170	1 939	4 337	1 679	17 010	1 957	0 969	0 844	2 755	2 449	2 647	4 557
17	36 870	1 803	3 741	1 631	5 076	1 932	0 995	0 838	29 710	2 239	2 384	7 099
18	20 830	1 660	17 730	1 592	7 087	2 154	1 133	0 894	10 560	2 187	2 528	5 996
19	12 150	1 531	39 610	1 557	6 335	2 432	1 856	1 309	10 570	2 725	3 523	33 020
20	13 530	1 477	18 290	1 483	10 790	1 960	1 917	1 314	7 813	3 240	7 283	19 420
21	10 620	1 671	18 290	1 427	11 920	1 758	7 492	1 215	3 949	4 625	5 999	7 662
22	6 813	2 092	6 155	1 178	4 341	1 641	6 648	1 555	3 162	3 332	6 053	5 494
23	5 468	2 026	9 486	1 286	7 369	1 600	2 292	1 296	35 530	3 740	14 090	3 686
24	5 130	1 924	22 540	1 779	6 028	1 559	1 520	1 101	12 190	5 647	5 274	2 924
25	7 222	7 401	43 130	1 608	4 070	1 462	1 465	0 994	6 429	6 084	4 208	2 648
26	6 715	4 288	13 010	1 404	2 966	1 385	1 381	0 779	20 430	5 862	10 680	27 830
27	4 816	3 072	7 618	1 253	5 581	1 340	1 132	0 725	18 980	10 810	13 040	36 720
28	3 923	3 408	8 028	1 259	3 542	1 319	1 212	0 706	7 047	9 654	9 547	9 135
29	4 010		7 132	1 270	2 530	1 282	1 103	0 722	7 363	16 750	8 886	13 190
30	3 381		4 903	1 881	2 370	1 308	1 005	0 686	6 238	9 654	16 730	10 430
31	3 009		4 000		3 990		0 976	0 671		6 836		6 960
Average	10 910	5 240	11 960	1 932	5 707	4 097	1 585	0 999	7 627	7 677	6 354	9 152
Lowest	3 009	1 477	2 605	1 178	1 341	1 282	0 827	0 671	0 654	2 187	2 283	2 421
Highest	42 170	38 250	43 130	3 474	19 350	24 100	7 492	1 675	35 530	22 830	17 830	36 720

Peak flow	
Day of peak	
Monthly total (million cu m)	29.21
29.21	12.68
32.03	5.01
5.01	15.28
15.28	10.62
10.62	4.25
4.25	2.67
2.67	19.77
19.77	20.56
20.56	16.47
16.47	24.51

Runoff (mm)	106
Rainfall (mm)	142
Rainfall (mm)	76
76	145
145	30
30	142
142	133
133	90
90	90

Statistics of monthly data for previous record (May 1972 to Dec 1980)

Mean flows (year)	13 270	9 626	6 756	4 049	3 527	2 195	2 142	2 869	4 936	6 429	9 641	12 010
Lowest (year)	8 859	3 320	2 504	1 693	0 751	1 053	0 985	1 336	0 873	1 197	5 458	5 295
High (year)	19 79	19 79	19 73	19 80	19 80	19 74	19 79	19 75	19 72	19 72	19 80	19 75
19 78	19 77	19 78	19 77	19 72	19 72	19 72	19 79	19 78	19 76	19 79	19 78	
Runoff (Avg)	129	85	66	38	34	21	21	28	47	63	91	117
Low	86	29	24	16	7	10	9	13	8	12	52	52
High	176	180	129	64	78	48	46	54	91	127	166	219
Rainfall (Avg)	124	83	94	59	74	62	77	87	102	97	121	123
Low	83	34	38	21	20	28	45	20	13	55	78	39
High	163	161	142	100	144	96	102	147	159	171	182	179

Summary statistics

	For 1981	For record preceding 1981	1981	As % of pre-1981	Factors affecting flow regime
Mean flow (m³ s⁻¹)	6 122	6 445	95		● Abstraction for public water supplies
Lowest yearly mean		4 319	1975		● Augmentation from effluent returns
Highest yearly mean		8 710	1978		
Lowest monthly mean	0.998	Aug 0.751	May 1980		
Highest monthly mean	11 960	Mar 22 470	Dec 1978		
Lowest daily mean	0.654	3 Sep 0.582	23 May 1980		
Highest daily mean	43 130	25 Mar 123 300	19 Dec 1973		
Peak					
10 %ile	14 520	14 280	102		
50 %ile	3 393	3 636	93		
95 %ile	0.870	1 057	82		
Annual total (million cu m)	193.10	203.40	95		
Annual runoff (mm)	703	741	95		
Annual rainfall (mm)	1223	1103	111		
[1941-70 rainfall average (mm)]		920]			

Station description

Velocity-area station with cableway, weir control

205005 Ravernet at Ravernet

1981

Measuring authority: DOEN
First year: 1972

Grid reference: IJ 267613
Level stn. (m OD) 31.00

Catchment area (sq km): 69.5
Max alt. (m OD) 163

Daily mean gauged discharges (cubic metres per second)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2 274	1 802	4 202	2 750	1 638	2 024	0 943	0 887	0 592	7 699	2 048	3 273
2	2 524	2 921	3 256	2 409	1 547	3 712	1 011	0 849	0 585	18 640	2 016	2 941
3	2 377	3 413	2 776	2 225	1 814	2 700	0 956	1 018	0 557	14 480	2 171	2 661
4	2 203	3 739	2 521	2 065	2 389	2 827	0 901	0 945	0 550	9 736	2 124	2 464
5	2 128	3 072	4 290	1 917	2 362	2 414	0 886	1 041	0 571	6 850	1 914	2 306
6		2 124	2 742	4 026	1 802	2 337	3 323	0 890	0 975	0 560	5 368	1 811
7		2 098	2 507	4 354	1 689	3 535	3 634	0 870	0 893	0 555	4 777	1 715
8		2 107	2 319	3 695	1 590	3 087	8 842	0 831	0 859	0 550	4 636	1 633
9		2 105	2 149	3 341	1 425	2 516	5 283	0 802	0 825	0 532	5 313	1 558
10		2 029	1 997	3 827	1 397	3 270	4 005	0 790	0 773	0 608	4 476	1 522
11		1 991	1 914	3 444	1 481	2 852	4 065	0 786	0 761	0 629	3 751	1 519
12		1 979	1 848	3 042	1 597	2 512	3 225	0 762	0 757	0 573	3 271	1 484
13		3 641	1 697	2 735	1 460	8 889	2 867	0 746	0 769	0 555	2 894	1 414
14		3 686	1 630	2 546	1 374	6 516	2 575	0 741	0 753	0 653	2 592	1 362
15		3 144	1 539	2 367	1 295	4 180	2 303	0 737	0 739	0 704	2 245	1 341
16		4 039	1 455	2 182	1 275	5 464	2 083	0 826	0 720	0 648	2 054	1 347
17		3 897	1 388	2 036	1 211	4 006	1 913	0 813	0 709	0 982	1 887	1 330
18		4 020	1 323	2 632	1 143	4 470	1 868	0 790	0 697	1 229	1 739	1 267
19		3 684	1 235	7 472	1 091	4 298	1 797	0 786	0 763	1 640	1 695	1 194
20		3 482	1 196	4 301	1 055	4 415	1 664	0 798	0 786	1 808	1 641	4 770
21		3 489	1 721	3 811	1 036	3 645	1 562	1 321	0 761	1 346	1 630	1 312
22		3 039	3 550	3 170	1 008	3 326	1 483	1 811	0 754	1 189	1 631	2 014
23		2 760	2 800	3 243	1 037	3 235	1 401	1 379	0 748	1 442	1 590	9 102
24		2 528	2 731	3 466	3 065	2 903	1 331	1 201	0 730	1 615	1 575	3 972
25		2 454	2 528	3 603	2 762	2 584	1 243	1 139	0 722	1 566	1 521	3 399
26		2 425	2 275	3 095	2 221	2 381	1 193	1 090	0 702	9 624	1 475	3 584
27		2 273	2 671	5 026	1 989	2 249	1 158	1 026	0 645	9 043	1 472	3 781
28		2 143	2 967	5 512	1 872	2 026	1 115	1 009	0 638	4 712	1 435	3 907
29		2 103		4 048	1 745	1 908	1 033	0 972	0 633	4 256	1 346	3 791
30		1 987		3 471	1 738	1 821	0 978	0 943	0 625	4 083	1 333	3 672
31		1 892		3 070		2 104		0 921	0 600		1 366	4 783
Average	2 665	2 255	3 566	1 691	3 234	2 527	0 951	0 777	1 799	3 938	2 352	3 668
Lowest	1 892	1 196	2 036	1 008	1 547	0 978	0 737	0 600	0 532	1 333	1 194	1 851
Highest	4 039	3 739	7 472	3 065	8 889	8 842	1 811	1 041	9 624	18 640	9 102	7 176
Peak flow	5 016	5 135	12 010	4 392	19 190	16 440	2 357	1 163	15 400	21 490	16 340	9 918
Day of peak	13	22	19	24	14	8	22	5	27	2	23	13
Monthly total (million cu m)	7 14	5 45	9 55	4 38	8 66	6 55	2 55	2 08	4 66	10 55	6 10	9 82
Runoff (mm)	103	78	137	63	125	94	37	30	67	152	88	141
Rainfall (mm)	57	63	114	41	156	94	62	50	136	98	76	98

Statistics of monthly data for previous record (Aug 1972 to Dec 1980—Incomplete or missing months total 0 9 years)

Mean flows	Avg (year)	2 944	1 980	1 171	0 737	0 470	0 216	0 101	0 147	0 644	1 831	1 651	3 001
Low	1976	1 092	0 334	0 221	0 085	0 043	0 022	0 009	0 086	0 319	0 947	0 585	
High	1977	1 975	1973	1974	1980	1975	1975	1976	1972	1978	1975	1975	
(year)	1974	1 977	1980	1979	1979	1980	1980	1972	1974	1976	1979	1978	
Runoff	Avg	113	70	45	27	18	8	4	6	24	71	62	116
Low	76	38	13	8	3	2	1	0	3	12	35	23	
High	162	128	80	92	39	20	13	14	89	185	122	450	
Rainfall	Avg	106	59	64	44	62	53	61	63	88	92	80	96
Low	81	21	21	11	21	22	34	14	9	31	44	22	
High	154	108	112	97	90	105	85	95	160	207	123	268	

Summary statistics

	For 1981	For record preceding 1981	1981 As % of pre-1981	Factors affecting flow regime
Mean flow (m³ s⁻¹)	2 457	1 240	198	● Flow reduced by industrial and/or agricultural abstractions
Lowest yearly mean		0 763	1975	
Highest yearly mean		1 749	1978	
Lowest monthly mean	0 777	Aug 0 009	Aug 1976	
Highest monthly mean	3 938	Oct 11 690	Dec 1978	
Lowest daily mean	0 532	9 Sep 0 001	31 Aug 1976	
Highest daily mean	18 640	2 Oct 57 820	28 Dec 1978	
Peak	21 490	2 Oct		
10 %ile	4 299	2 845	151	
50 %ile	2 017	0 594	339	
95 %ile	0 652	0 026	2538	
Annual total (million cu m)	77 48	39 14	198	
Annual runoff (mm)	1115	563	198	
Annual rainfall (mm)	1045	868	120	
[1941-70 rainfall average (mm)]				

Station description

Velocity-area station Flat V weir from 1976 Crest level is 31 535 m O D

Part (ii) - the monthly flow data

The introductory information (measuring authority etc) is as described in Part (i).

Hydrometric statistics for the year

The monthly average, peak flow, runoff and rainfall figures are equivalent to the summary information following the daily mean gauged discharges in Part (i). Because of the rounding of monthly runoff values the runoff for the year may differ slightly from the sum of the individual monthly totals.

Monthly and yearly statistics for previous record

Monthly mean flows (Average, Low and High) and the monthly rainfall and runoff figures are equivalent to those presented in Part (i). Again, due to the rounding of monthly runoff values, the average runoff for the year derived from the previous record may differ slightly from the sum of the individual monthly totals. The peak flow is the highest archived discharge in cubic metres per second for each month. For many stations the archived series of monthly instantaneous maximum flows, from which the preceding record peak is abstracted, is incomplete, particularly for the earlier years, and certain of the peak flows are known to be of limited accuracy. An examination of the quality of the peak flow figures is underway and significant revision may be expected as this review proceeds.

The figures are published primarily to provide a guide to the range of river flows experienced throughout the year at the featured gauging stations.

Factors affecting flow regime

Code letters are used as described in Part (i)

Station type

The station type is coded by the list of abbreviations given below; two abbreviations may be applied to each station relating to the measurement of lower or higher flows.

B	Broad-crested weir
C	Crump (triangular profile) single crest weir
CB	Compound broad-crested weir. The compounding may include a mixture of types such as rectangular and triangular profiles, flumes and flat Vs and with or without divide walls
CC	Compound Crump weir
EM	Electromagnetic gauging station
EW	Essex weir (simple Crump weir modified with angled, sloping, triangular profileflanking crests) in trapezoidal channel
FL	Flume
FV	Flat V triangular profile weir
MIS	Miscellaneous method
TP	Rectangular thin-plate weir
US	Ultrasonic gauging station
VA	Velocity-area gauging station
VN	Triangular (V notch) thin-plate weir

004001 Conon at Moy Bridge**1981**

Measuring authority: HRPB
First year: 1953

Grid reference: NH 482547
Level stn. (m OD) 10.03

Catchment area (sq km) 961.8
Max alt. (m OD) 1052

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³/s)	Avg. 123.100	94.430	58.760	23.050	14.800	25.920	19.250	20.890	46.810	93.980	118.200	74.340	59.461
Peak (m³/s)	Peak 409.60	320.90	153.60	126.60	68.24	124.90	67.93	63.56	223.70	249.90	411.80	226.40	411.80
Runoff (mm)	343	238	164	62	41	70	54	58	126	262	319	207	1942
Rainfall (mm)	316	152	157	43	60	106	79	58	278	353	405	81	2088

Monthly and yearly statistics for previous record (Oct 1953 to Dec 1980) - incomplete or missing months total 5 & 6 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 57.950	53.120	55.810	42.060	34.260	22.310	21.080	25.790	37.740	52.080	61.290	69.870	44.380
Flows	Low 31.690	25.810	28.520	13.940	12.210	8.861	9.527	8.162	12.510	27.560	24.090	27.970	29.991
(m³/s)	High 135.100	121.000	127.900	75.730	53.050	47.560	36.700	45.140	71.360	94.030	121.700	165.100	58.616
Peak flow (m³/s)	342.60	467.20	362.90	203.90	232.20	165.20	247.40	254.90	174.20	324.80	348.30	1076.00	1076.00
Runoff (mm)	161	135	155	113	95	60	59	72	100	145	165	195	1456
Rainfall (mm)	173	127	138	109	108	102	108	123	151	198	211	228	1776

Factors affecting flow regime: H
Station type: VA

1981 runoff is 133% of previous mean rainfall 118%

007002 Findhorn at Forres**1981**

Measuring authority: HRPB
First year: 1958

Grid reference: NJ 018583
Level stn. (m OD) 9.60

Catchment area (sq km) 781.9
Max alt. (m OD) 941

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³/s)	Avg 49.360	17.280	20.420	5.583	6.005	9.271	10.940	3.827	24.620	49.540	31.760	14.740	20.279
Peak (m³/s)	Peak 361.10	144.10	149.70	11.26	24.96	156.00	129.70	16.92	861.10	512.00	237.00	135.60	861.10
Runoff (mm)	169	53	70	19	21	31	37	13	82	70	105	51	820
Rainfall (mm)	132	55	79	24	50	83	86	34	170	223	165	40	1141

Monthly and yearly statistics for previous record (Oct 1958 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 21.910	19.890	22.130	21.620	15.790	10.070	10.170	14.540	13.420	18.860	23.100	24.530	17.998
Flows	Low 9.429	5.759	8.615	5.560	3.836	3.321	2.750	2.478	2.863	3.547	9.701	8.332	11.994
(m³/s)	High 38.180	44.700	54.320	54.170	41.990	41.900	24.650	58.840	37.870	43.130	39.710	61.550	25.482
Peak flow (m³/s)	240.40	537.70	410.00	173.50	294.30	130.20	469.10	2410.00	308.00	377.60	465.20	616.90	2410.00
Runoff (mm)	75	62	76	72	54	33	35	50	44	65	77	84	726
Rainfall (mm)	96	64	80	67	73	78	89	106	90	103	115	103	1064

Factors affecting flow regime: N
Station type: VA

1981 runoff is 113% of previous mean rainfall 107%

009002 Deveron at Muiresk**1981**

Measuring authority: NERPB
First year: 1960

Grid reference: NJ 705498
Level stn. (m OD) 25.30

Catchment area (sq km) 954.9
Max alt. (m OD) 775

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³/s)	Avg 41.720	15.350	19.270	8.879	5.894	6.511	6.034	3.737	5.147	37.920	17.510	23.740	15.976
Peak (m³/s)	Peak 139.10	27.49	51.03	13.57	10.06	50.69	38.14	5.02	75.91	233.30	119.30	192.10	233.30
Runoff (mm)	117	39	54	24	17	18	17	10	14	106	48	67	530
Rainfall (mm)	101	36	71	22	32	83	72	26	103	183	97	76	902

Monthly and yearly statistics for previous record (Oct 1960 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 24.710	20.510	20.000	17.360	14.200	8.340	8.120	11.800	10.890	16.570	21.850	24.170	16.534
Flows	Low 5.726	5.376	6.735	7.460	5.373	3.935	2.738	2.578	2.907	2.706	7.375	5.184	8.890
(m³/s)	High 45.260	38.800	37.190	37.990	46.250	21.770	18.950	36.380	36.540	49.480	43.210	46.390	22.792
Peak flow (m³/s)	214.50	135.20	187.10	131.30	506.60	254.40	222.50	472.90	322.60	332.10	305.60	244.20	506.60
Runoff (mm)	69	52	56	47	40	23	23	33	30	46	59	68	546
Rainfall (mm)	82	58	66	64	71	61	78	95	76	88	99	84	922

Factors affecting flow regime: N
Station type: VA

1981 runoff is 97% of previous mean rainfall 98%

010002 Ugie at Inverugie**1981**

Measuring authority: NERPB
First year: 1971

Grid reference: NK 101485
Level stn. (m OD) 8.50

Catchment area (sq km) 325.0
Max alt. (m OD) 234

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³/s)	Avg 10.880	4.461	6.001	2.941	2.150	2.170	1.523	1.319	2.264	7.345	6.927	9.321	4.775
Peak (m³/s)	Peak 75.97	7.00	21.02	4.14	2.75	7.07	1.95	1.48	13.96	28.24	22.54	46.64	46.64
Runoff (mm)	90	33	49	23	18	17	13	11	18	61	55	77	465
Rainfall (mm)	72	33	81	24	32	84	46	23	104	130	110	91	830

Monthly and yearly statistics for previous record (Feb 1971 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 7.632	6.965	5.237	3.649	2.842	1.832	1.658	1.810	1.983	3.917	6.301	8.549	4.355
Flows	Low 2.285	1.998	1.593	1.245	1.542	0.913	0.903	0.764	0.791	0.869	1.942	1.473	3.003
(m³/s)	High 11.60	14.320	9.29	6.56	5.662	2.824	4.274	3.795	3.940	8.075	10.390	13.280	6.122
Peak flow (m³/s)	61.04	83.56	67.86	30.50	27.50	7.40	23.79	17.91	38.80	87.77	44.77	77.00	87.72
Runoff (mm)	63	52	43	29	23	15	14	15	16	32	50	70	423
Rainfall (mm)	83	44	64	48	49	50	59	64	82	81	90	80	794

Factors affecting flow regime: N
Station type: VA

1981 runoff is 110% of previous mean rainfall 105%

011001 Don at Parkhill**1981**Measuring authority NERPB
First year 1969Grid reference NJ 887141
Level stn. (m OD) 32.44Catchment area (sq km) 1273.0
Max alt. (m OD) 872

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg	41 690	22 460	29 180	14 340	9 558	10 110	9 298	6 357	11 510	34 850	18 390	27 950
	Peak	78 17	39 04	62 09	21 36	15 22	49 43	26 06	8 20	105 40	144 60	57 69	135 50
Runoff (mm)		88	43	61	29	20	21	20	13	23	73	37	59
Rainfall (mm)		91	38	78	20	42	72	70	24	126	144	88	86

Monthly and yearly statistics for previous record (Dec 1969 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg	30 060	29 980	27 260	25 120	17 160	11 380	10 580	13 010	10 650	18 810	20 860	29 780
	Low	9 453	6 846	6 587	9 317	9 672	6 773	4 335	3 346	4 194	3 631	7 018	7 951
	High	46 270	52 550	48 180	47 220	33 850	20 130	21 340	42 320	18 160	60 580	35 260	57 440
Peak flow (m³ s⁻¹)		185 90	165 10	159 80	132 30	110 70	45 46	119 30	251 20	121 20	347 20	158 50	198 30
Runoff (mm)		63	58	57	51	36	23	22	27	22	40	42	63
Rainfall (mm)		102	62	70	67	66	56	73	77	66	78	85	81

Factors affecting flow regime:

Station type VA

1981 runoff is 97% of previous mean rainfall 100%

013007 North Esk at Logie Mill**1981**

Measuring authority TRPB

First year 1976

Grid reference NO 699640

Level stn. (m OD) 10.60

Catchment area (sq km) 730.0

Max alt. (m OD) 939

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg	16 790	9 794	36 290	9 072	7 236	7 566	5 242	3 350	21 660	27 580	17 700	20 790
	Peak												
Runoff (mm)		62	32	133	32	27	27	19	12	77	101	63	76
Rainfall (mm)													

Monthly and yearly statistics for previous record (Jan 1976 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg	21 450	33 820	34 180	25 680	16 810	7 853	6 243	11 490	8 599	27 810	22 400	36 480
	Low	13 770	16 900	22 030	18 290	6 179	5 579	3 718	2 548	4 748	5 691	17 770	21 350
	High	28 700	45 670	42 750	32 180	23 450	8 731	9 362	24 250	11 130	61 640	32 140	59 880
Peak flow (m³ s⁻¹)													
Runoff (mm)		79	114	125	91	62	28	23	42	31	102	80	134
Rainfall (mm)													

Factors affecting flow regime NS P I

Station type CC

1981 runoff is 73% of previous mean rainfall

014001 Eden at Kemback**1981**

Measuring authority TRPB

First year 1967

Grid reference NO 415158

Level stn. (m OD) 6.20

Catchment area (sq km) 307.4

Max alt. (m OD) 522

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg	4 106	3 390	7 104	2 722	2 103	1 757	1 231	1 135	3 166	6 011	3 599	4 737
	Peak	8 34	13 22	18 73	4 29	3 18	3 88	1 73	1 28	29 73	32 23	10 22	31 71
Runoff (mm)		36	27	62	23	18	15	11	10	27	52	30	41
Rainfall (mm)		30	44	100	21	71	55	48	16	156	96	68	63

Monthly and yearly statistics for previous record (Oct 1967 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg	6 273	6 900	4 596	3 412	3 084	1 943	1 409	1 548	1 490	2 616	4 290	5 189
	Low	2 546	2 170	1 408	1 199	1 406	1 077	0 914	0 799	0 749	0 833	0 830	1 731
	High	9 578	19 460	8 096	6 480	8 335	3 807	2 026	2 983	2 983	6 880	8 500	10 730
Peak flow (m³ s⁻¹)		43 03	71 31	38 34	28 27	47 48	11 55	8 00	15 53	8 76	35 97	39 37	43 22
Runoff (mm)		55	55	40	29	27	16	12	13	13	23	36	364
Rainfall (mm)		82	62	55	43	68	49	60	60	62	70	73	68

Factors affecting flow regime NS GEI

Station type VA

1981 runoff is 97% of previous mean rainfall

102%

016003 Ruchill Water at Cultrybraggan**1981**

Measuring authority TRPB

First year 1970

Grid reference NN 764204

Level stn. (m OD) 62.29

Catchment area (sq km) 99.5

Max alt. (m OD) 985

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg	4 719	3 732	8 884	1 045	2 628	3 216	2 103	0 358	10 260	6 521	8 346	1 630
	Peak	35 79	23 89	165 30	2 75	31 21	39 28	30 12	0 67	227 30	68 15	146 50	7 03
Runoff (mm)		127	91	239	27	71	84	57	10	267	176	217	44
Rainfall (mm)		140	122	240	24	174	106	119	24	393	228	222	111

Monthly and yearly statistics for previous record (Oct 1970 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg	7 295	5 976	5 691	2 821	2 620	1 661	1 706	2 244	3 822	4 810	7 356	6 712
	Low	3 442	3 283	1 802	0 758	0 304	0 402	0 512	0 405	0 345	0 789	3 827	2 978
	High	14 770	7 938	11 100	4 690	7 075	4 069	2 800	4 512	7 720	10 230	11 360	11 660
Peak flow (m³ s⁻¹)		250 40	130 20	116 70	61 27	185 00	221 30	160 00	85 89	106 20	123 00	183 30	136 30
Runoff (mm)		196	147	153	73	71	43	46	60	100	129	192	181
Rainfall (mm)		236	164	160	91	110	99	125	130	174	178	252	221

Factors affecting flow regime N

Station type VA

1981 runoff is 101% of previous mean rainfall

98%

016004 Earn at Forteviot Bridge**1981**

Measuring authority: FRPB
First year: 1972

Grid reference: NO 043184
Level stn. (m OD) 7.84

Catchment area (sq km) 782.2
Max alt. (m OD) 985

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	32 990	23 220	44 930	31 470	12 480	13 370	10 510	3 664	36 710	42 370	46 180	19 960	24 821
Peak	65 23	54 96	187 10	34 47	28 29	40 40	25 50	9 21	271 80	153 90	155 20	49 36	271 80
Runoff (mm)	113	72	154	38	43	44	36	13	122	145	153	68	1000
Rainfall (mm)	88	85	182	18	120	83	90	14	279	185	171	84	1399

Monthly and yearly statistics for previous record (Oct 1972 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	42 980	38 620	33 650	18 970	12 420	8 817	6 866	8 911	16 670	23 390	38 790	42 140	24 283
flows Low	25 000	16 070	12 310	8 389	4 906	4 095	4 089	3 709	6 938	5 984	15 120	15 060	15 508
(m³ s⁻¹)	High	85 510	58 640	55 640	28 960	26 630	16 450	11 050	16 530	31 080	54 740	62 930	64 550
Peak flow (m³ s⁻¹)	275 90	214 60	175 00	104 50	155 20	114 90	65 62	95 24	129 50	235 90	328 60	219 80	328 60
Runoff (mm)	147	121	115	63	43	29	24	31	55	80	129	144	980
Rainfall (mm)	163	108	129	55	71	68	90	97	137	121	169	157	1385

Factors affecting flow regime: P H
Station type: VA

1981 runoff is 102% of previous mean rainfall 102%

017002 Leven at Leven**1981**

Measuring authority: FRPB
First year: 1970

Grid reference: NO 369006
Level stn. (m OD) 4.05

Catchment area (sq km) 424.0
Max alt. (m OD) 522

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	10 560	7 837	11 240	3 869	2 756	2 943	1 907	1 681	4 651	10 580	9 662	7 982	6 308
Peak	18 74	24 59	30 42	7 99	4 53	5 70	4 50	2 96	25 39	33 27	33 27	21 49	33 27
Runoff (mm)	67	45	71	24	17	18	12	11	28	67	59	50	469
Rainfall (mm)	51	51	123	20	72	73	57	15	175	123	111	51	922

Monthly and yearly statistics for previous record (Aug 1969 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	9 066	9 880	6 306	4 339	3 028	2 373	1 414	2 579	2 624	4 598	7 233	9 542	5 228
flows Low	4 781	2 882	1 543	1 413	2 012	1 166	0 902	0 822	0 970	0 795	0 972	3 462	2 269
(m³ s⁻¹)	High	15 310	22 660	11 200	8 835	5 414	4 467	2 123	4 841	5 616	11 000	14 570	7 605
Peak flow (m³ s⁻¹)	34 99	128 00	36 54	26 41	12 60	12 31	5 34	24 71	14 25	40 00	39 76	62 69	126 00
Runoff (mm)	57	57	40	27	19	15	9	16	16	29	44	60	389
Rainfall (mm)	86	57	56	42	64	60	65	63	71	69	89	75	707

Factors affecting flow regime: R EI
Station type: VA

1981 runoff is 121% of previous mean rainfall 116%

017005 Avon at Polmonthill**1981**

Measuring authority: FRPB
First year: 1972

Grid reference: NS 952797
Level stn. (m OD) 4.27

Catchment area (sq km) 195.3
Max alt. (m OD) 312

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	4 375	4 005	6 568	1 134	0 975	2 252	1 069	0 559	5 578	8 100	9 494	2 764	3 908
Peak	18 97	40 02	50 99	2 60	1 61	19 86	12 37	0 88	49 09	76 75	31 57	15 18	76 75
Runoff (mm)	60	50	90	15	13	30	15	8	74	111	126	38	629
Rainfall (mm)	69	58	128	20	61	86	69	19	191	157	137	43	1038

Monthly and yearly statistics for previous record (Oct 1971 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	5 962	4 485	4 032	2 598	1 639	1 196	0 741	1 049	2 037	3 188	5 474	5 837	3 181
flows Low	3 566	2 347	1 665	0 962	0 739	0 649	0 667	0 541	0 619	0 670	1 370	2 300	2 080
(m³ s⁻¹)	High	10 610	8 321	8 493	4 945	2 481	2 884	0 920	1 986	4 693	6 552	9 193	10 120
Peak flow (m³ s⁻¹)	60 83	41 80	50 33	31 63	23 56	18 93	3 12	12 47	34 87	68 95	57 74	58 82	68 95
Runoff (mm)	82	56	55	34	22	16	10	14	27	44	73	80	514
Rainfall (mm)	102	59	63	47	63	54	64	67	73	79	95	101	867

Factors affecting flow regime: EI

1981 runoff is 122% of previous mean rainfall 120%

018003 Teith at Bridge of Teith**1981**

Measuring authority: FRPB
First year: 1957

Grid reference: NN 725011
Level stn. (m OD) 14.70

Catchment area (sq km) 518.0
Max alt. (m OD) 1165

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	34 790	27 450	36 850	6 614	10 130	13 200	8 307	4 107	32 190	30 050	51 960	11 790	22 287
Peak	116 20	96 02	151 30	23 09	25 95	39 51	34 00	7 55	160 90	96 02	138 10	43 72	160 90
Runoff (mm)	180	128	191	33	52	66	43	21	161	155	260	61	1362
Rainfall (mm)	197	146	244	17	156	112	110	28	360	268	301	93	2032

Monthly and yearly statistics for previous record (Oct 1983 to Dec 1980—Incomplete or missing months total 0.1 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	32 590	25 850	24 400	14 780	15 040	10 620	9 019	10 510	18 330	25 300	31 720	30 130	20 870
flows Low	14 360	12 880	6 813	5 612	4 017	3 953	4 371	3 659	3 635	5 897	14 690	11 890	15 094
(m³ s⁻¹)	High	72 430	41 340	60 190	25 030	33 160	21 520	15 900	18 460	37 940	66 410	58 090	62 450
Peak flow (m³ s⁻¹)	246 50	207 40	176 00	89 21	158 00	161 70	74 22	68 35	184 10	210 90	245 10	241 10	246 50
Runoff (mm)	169	122	126	74	78	53	47	54	92	131	159	158	1269
Rainfall (mm)	232	140	129	93	136	120	111	114	173	195	198	194	1836

Factors affecting flow regime: S P
Station type: VA

1981 runoff is 107% of previous mean rainfall 111%

018005 Allan Water at Bridge of Allan**1981**

Measuring authority FRPB
First year 1972

Grid reference: NS 786980
Level stn. (m OD) 11 20

Catchment area (sq km) 210.0
Max alt. (m OD) 633

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 8 043	5 222	10 740	2 446	2 476	4 335	1 868	0 935	9 113	10 8°°	12 690	5 693	6 198
	Peak 32 65	28 25	70 88	5 59	9 98	20 39	10 56	1 31	84 13	72 45	51 71	18 02	84 13
Runoff (mm)	103	60	137	30	32	54	24	12	112	138	157	73	930
Rainfall (mm)	89	69	164	16	98	89	79	13	247	176	154	67	1261

Monthly and yearly statistics for previous record (Jul 1971 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 9 832	8 571	7 476	4 260	3 253	2 401	1 748	2 450	3 886	5 563	8 707	9 409	5 616
Flows (m³ s⁻¹)	Low 6 471	4 793	3 152	1 654	1 189	0 945	1 057	0 679	0 907	0 971	3 642	3 709	4 270
	High 16 410	12 960	12 370	6 618	6 827	5 423	2 320	5 921	8 466	9 961	13 560	14 060	6 887
Peak flow (m³ s⁻¹)	98 20	67 84	60 68	32 65	72 11	55 39	44 65	55 83	54 76	79 68	97 89	88 27	98 20
Runoff (mm)	125	100	95	53	41	30	22	31	48	71	107	120	844
Rainfall (mm)	153	92	82	53	85	74	81	69	102	99	120	133	1143

Factors affecting flow regime: N 1
Station type: VA

1981 runoff is 110% of previous mean rainfall 110%

020001 Tyne at East Linton**1981**

Measuring authority FRPB
First year 1961

Grid reference: NT 591768
Level stn. (m OD) 16 50

Catchment area (sq km) 307.0
Max alt. (m OD) 528

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 2 523	2 381	5 245	1 597	1 128	1 037	0 868	0 579	0 928	6 470	3 162	3 584	2 459
	Peak 9 90	25 67	30 18	2 63	1 91	3 43	4 58	1 31	9 00	82 71	20 45	26 08	82 71
Runoff (mm)	22	19	46	13	10	9	8	5	8	56	27	31	253
Rainfall (mm)	26	34	87	21	48	51	59	17	93	141	70	54	701

Monthly and yearly statistics for previous record (Jan 1961 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 4 427	3 993	3 844	2 529	2 274	1 342	1 240	1 734	1 731	2 066	3 644	3 617	2 698
Flows (m³ s⁻¹)	Low 1 032	0 783	0 531	0 644	0 926	0 586	0 500	0 468	0 461	0 451	0 524	0 582	0 709
	High 9 778	8 624	8 789	6 158	7 733	3 861	4 393	9 855	6 711	7 000	11 210	8 405	4 146
Peak flow (m³ s⁻¹)	59 83	39 39	66 17	13 39	67 07	37 13	20 18	112 70	73 34	66 17	64 81	52 02	112 70
Runoff (mm)	39	32	34	21	20	11	11	15	15	18	31	32	277
Rainfall (mm)	64	44	51	44	57	51	60	83	69	66	73	50	712

Factors affecting flow regime:
Station type: VA

1981 runoff is 91% of previous mean rainfall 98%

021006 Tweed at Boleside**1981**

Measuring authority TWRP
First year 1961

Grid reference: NT 498334
Level stn. (m OD) 94 50

Catchment area (sq km) 1500.0
Max alt. (m OD) 839

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 46 830	28 450	66 880	20 020	21 030	32 830	18 810	8 542	35 490	65 730	57 550	30 310	36 039
	Peak 120 10	197 30	337 70	60 88	49 62	117 50	112 80	14 57	318 50	467 20	295 20	89 09	467 20
Runoff (mm)	84	46	119	35	38	57	34	15	61	117	99	54	759
Rainfall (mm)	72	58	160	36	95	97	100	26	179	172	141	70	1206

Monthly and yearly statistics for previous record (Oct 1961 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 52 090	43 640	41 720	29 920	24 630	15 350	13 200	20 970	29 810	38 720	49 060	50 400	34 131
Flows (m³ s⁻¹)	Low 14 300	10 480	14 930	9 896	7 605	7 413	6 900	5 012	4 572	4 435	14 400	22 450	18 578
	High 110 700	70 010	101 000	57 330	64 330	28 920	31 960	44 750	63 090	96 720	119 800	86 540	43 314
Peak flow (m³ s⁻¹)	606 00	483 90	470 10	248 90	182 80	126 00	342 60	444 30	385 10	1019 00	486 30	390 70	1019 00
Runoff (mm)	93	71	74	52	44	27	24	37	52	69	85	91	718
Rainfall (mm)	119	84	91	72	86	77	84	108	119	114	123	112	1189

Factors affecting flow regime: S P
Station type: VA

1981 runoff is 106% of previous mean rainfall 101%

021012 Teviot at Hawick**1981**

Measuring authority TWRP
First year 1963

Grid reference: NT 522159
Level stn. (m OD) 90 10

Catchment area (sq km) 323.0
Max alt. (m OD) 608

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 8 973	6 854	17 090	4 348	5 050	10 500	4 386	1 578	8 247	18 430	12 960	5 906	8 694
	Peak 27 26	97 75	107 10	18 59	32 57	74 79	76 10	2 55	117 90	156 50	137 20	26 69	156 50
Runoff (mm)	74	51	142	35	42	84	36	13	66	153	104	49	850
Rainfall (mm)	55	60	156	40	114	107	114	21	189	171	134	66	1227

Monthly and yearly statistics for previous record (Oct 1963 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 12 610	10 350	8 890	5 853	5 573	3 798	2 772	4 250	6 214	9 101	12 300	12 580	7 848
Flows (m³ s⁻¹)	Low 6 981	4 234	2 991	2 189	1 319	1 099	0 964	0 992	0 915	0 816	2 627	4 522	4 183
	High 28 560	18 510	20 250	10 750	17 340	7 877	8 163	9 075	13 770	25 690	29 930	21 980	10 546
Peak flow (m³ s⁻¹)	185 90	228 60	124 10	86 03	98 31	81 84	99 33	178 60	185 60	273 40	188 60	195 50	273 40
Runoff (mm)	105	78	74	47	46	30	23	35	50	75	99	104	767
Rainfall (mm)	109	77	93	66	88	79	80	102	106	107	123	113	1143

Factors affecting flow regime: N

1981 runoff is 111% of previous mean rainfall 107%

Station type: VA

021018 Lyne Water at Lyne Station**1981**

Measuring authority: TWRP
First year: 1968

Grid reference: NT 209401
Level stn. (m OD) 168.00

Catchment area (sq km) 175.0
Max alt. (m OD) 562

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg. 5 047	3 111	5 058	1 708	1 219	1 833	1 222	0 811	1 383	5 684	5 783	3 152	3 000
	Peak 13 43	16 23	21 48	2 85	3 19	10 72	5 67	1 11	11 34	30 49	18 60	9 63	30 49
Runoff (mm)	77	43	78	25	19	27	19	12	20	87	85	48	541
Rainfall (mm)	66	47	118	18	60	82	73	23	126	149	126	44	932

Monthly and yearly statistics for previous record (Oct 1968 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg. 4 417	4 100	3 386	2 545	1 713	1 298	0 960	1 135	1 570	2 457	4 030	4 095	2 634
	Low 1 682	2 158	1 357	1 127	0 882	0 787	0 724	0 605	0 591	0 597	0 977	1 618	1 428
	High 8 774	5 713	7 325	5 028	3 372	2 373	1 624	2 448	3 139	4 414	6 813	8 374	3 548
Peak flow (m³ s⁻¹)	24 68	28 83	27 65	21 46	17 36	15 58	11 90	11 63	18 68	40 49	36 35	30 56	40 49
Runoff (mm)	68	57	52	38	26	19	15	17	23	38	60	63	475
Rainfall (mm)	85	59	73	53	63	60	64	72	90	82	99	81	881

Factors affecting flow regime: S P
Station type: VA

1981 runoff is 114% of previous mean rainfall 106%

021022 Whiteadder Water at Hutton Castle**1981**

Measuring authority: TWRP
First year: 1969

Grid reference: NT 881550
Level stn. (m OD) 29.00

Catchment area (sq km) 503.0
Max alt. (m OD) 533

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg. 6 164	4 672	12 450	4 319	3 347	3 100	2 466	1 451	3 115	13 670	6 039	6 406	5 600
	Peak 42 47	25 18	64 13	9 63	8 56	13 44	25 70	2 46	42 47	190 00	39 44	36 00	190 00
Runoff (mm)	33	22	66	22	18	16	13	8	16	73	31	34	353
Rainfall (mm)	37	30	103	34	60	56	68	21	103	136	70	84	802

Monthly and yearly statistics for previous record (Sep 1969 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg. 10 730	11 550	9 569	6 291	4 497	3 049	1 856	2 494	2 156	4 169	6 562	8 341	5 912
	Low 2 143	1 557	1 108	1 375	2 132	1 403	1 315	1 162	0 990	1 001	1 100	1 347	1 828
	High 21 100	27 300	19 220	14 980	9 213	7 921	2 486	6 714	4 322	16 670	13 570	20 660	8 494
Peak flow (m³ s⁻¹)	177 30	160 90	133 90	54 80	82 30	64 13	24 35	79 00	43 20	92 04	186 00	108 10	186 00
Runoff (mm)	57	58	51	32	24	16	10	13	11	22	34	44	371
Rainfall (mm)	82	60	70	46	62	54	55	69	59	66	70	69	762

Factors affecting flow regime: S P
Station type: CC

1981 runoff is 95% of previous mean rainfall 105%

022006 Blyth at Hartford Bridge**1981**

Measuring authority: NWA
First year: 1966

Grid reference: NZ 243800
Level stn. (m OD) 24.60

Catchment area (sq km) 269.4
Max alt. (m OD) 259

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg. 2 627	2 001	11 090	2 862	1 028	0 489	0 417	0 175	0 536	3 158	2 217	4 122	2 560
	Peak 10 11	15 74	150 20	23 29	2 44	2 21	4 31	0 24	7 75	14 83	23 89	37 69	150 20
Runoff (mm)	26	18	110	78	10	5	4	2	5	31	21	41	302
Rainfall (mm)	36	43	140	65	53	41	68	15	110	96	66	63	798

Monthly and yearly statistics for previous record (Oct 1966 to Dec 1980—Incomplete or missing months total 0.3 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg. 4 413	4 160	3 604	1 715	1 477	0 627	0 384	0 591	0 742	1 751	2 514	3 721	2 135
	Low 0 587	0 398	0 245	0 359	0 325	0 177	0 108	0 067	0 107	0 111	0 162	0 274	0 537
	High 9 425	7 997	9 756	2 956	4 948	1 871	1 742	2 543	2 695	9 680	5 673	12 500	3 410
Peak flow (m³ s⁻¹)	110 70	59 52	108 40	33 00	38 86	22 60	7 60	39 61	30 02	56 84	69 70	122 30	122 30
Runoff (mm)	44	38	36	17	15	6	4	6	7	17	24	37	260
Rainfall (mm)	64	50	59	39	61	52	55	70	61	61	65	62	699

Factors affecting flow regime: E

1981 runoff is 121% of previous mean rainfall 114%

023001 Tyne at Bywell**1981**

Measuring authority: NWA
First year: 1956

Grid reference: NZ 038617
Level stn. (m OD) 14.00

Catchment area (sq km) 2175.6
Max alt. (m OD) 893

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg. 57 080	35 350	98 300	29 620	20 320	27 610	17 810	9 015	30 600	71 440	78 380	44 340	43 322
	Peak 251 90	922 10	592 30	239 00	109 50	314 50	234 40	38 99	522 50	875 10	982 90	191 50	982 90
Runoff (mm)	70	39	121	35	25	33	22	11	36	88	93	55	829
Rainfall (mm)	70	57	173	65	76	83	85	29	142	141	125	59	1105

Monthly and yearly statistics for previous record (Oct 1956 to Dec 1980—Incomplete or missing months total 0.2 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg. 68 750	58 570	54 130	38 040	25 810	17 730	18 370	29 910	34 830	45 350	62 230	67 030	43 338
	Low 19 270	14 360	20 150	8 461	7 246	4 910	5 199	3 403	4 155	4 727	18 090	23 080	25 849
	High 103 900	98 140	150 900	75 670	58 610	50 010	46 230	58 070	99 450	147 200	147 000	112 000	63 834
Peak flow (m³ s⁻¹)	1130 00	918 00	1472 00	852 30	476 30	440 30	758 90	1282 00	1189 00	1586 00	1382 00	1317 00	1588 00
Runoff (mm)	85	66	67	45	32	21	23	37	41	56	74	83	629
Rainfall (mm)	98	73	78	63	69	68	82	99	90	90	103	100	1013

Factors affecting flow regime: S

1981 runoff is 100% of previous mean rainfall 109%

023007 Derwent at Rowlands Gill**1981**Measuring authority: NWA
First year: 1963Grid reference: NZ 168581
Level stn. (m OD) 29.30Catchment area (sq km) 242.1
Max alt. (m OD) 560

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	2 249	1 923	6 610	2 728	1 670	1 064	0 976	0 833	1 051	2 419	1 381	1 996
(m³ s⁻¹)	Peak	4 50	9 79	27 98	17 65	3 73	2 39	2 55	1.17	5 82	25 23	9 34	14.92
Runoff (mm)		25	19	73	29	18	11	11	9	11	27	15	22
Rainfall (mm)		43	46	127	65	52	35	55	22	120	122	73	70

Monthly and yearly statistics for previous record (Nov 1962 to Dec 1980—Incomplete or missing months total 0.1 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg.	3 637	4 070	4 999	3 160	2 307	1 620	1 430	1 733	1 867	2 213	3 311	3 376
flows	Low	1 148	0 911	0 749	1 258	1 050	0 844	0 796	0 656	0 626	0 791	0 803	0 882
(m³ s⁻¹)	High	7 320	10 490	13 570	6 561	5 051	3 348	4 087	4 667	7 264	8 971	11 780	7 826
Peak flow (m³ s⁻¹)		38 18	34 48	93 73	32 73	33 80	37.15	19.10	60 69	36 41	58 87	97 98	63 02
Runoff (mm)		40	41	55	34	26	17	16	19	20	24	35	37
Rainfall (mm)		81	85	73	58	65	63	62	87	73	64	88	76

Factors affecting flow regime: P

Station type: CC

1981 runoff is 74% of previous mean rainfall 97%

024004 Bedburn Beck at Bedburn**1981**Measuring authority: NWA
First year: 1959Grid reference: NZ 118322
Level stn. (m OD) 109.00Catchment area (sq km) 74.9
Max alt. (m OD) 531

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	1 313	1 013	3 453	1 607	0 998	0 531	0 288	0 189	0 598	2 501	1 237	1 006
(m³ s⁻¹)	Peak	6 03	15 82	16 98	18 86	3 00	2 36	0 64	0 38	11 55	37 82	17 28	5 61
Runoff (mm)		47	33	123	56	36	18	10	7	21	89	43	519
Rainfall (mm)		45	62	133	76	68	43	43	25	152	142	84	86

Monthly and yearly statistics for previous record (Oct 1959 to Dec 1980—Incomplete or missing months total 0.2 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg.	2 027	1 811	1 829	1 298	0 914	0 543	0 439	0 582	0 606	1 137	1 510	1 777
flows	Low	0 515	0 472	0 438	0 518	0 289	0 198	0 177	0 120	0 157	0 146	0 245	0 444
(m³ s⁻¹)	High	3 419	4 011	5 128	2 750	2 117	1 524	1 056	1 465	1 780	4 346	3 722	4 488
Peak flow (m³ s⁻¹)		23 82	21 59	38 51	35 09	20 62	21 68	21 92	22 99	32 30	38 08	34 26	42 93
Runoff (mm)		72	59	66	45	33	19	16	21	21	41	52	507
Rainfall (mm)		88	87	71	58	65	58	67	81	89	75	90	84

Factors affecting flow regime: N

Station type: CC

1981 runoff is 102% of previous mean rainfall 110%

024009 Wear at Chester le Street**1981**Measuring authority: NWA
First year: 1977Grid reference: NZ 283512
Level stn. (m OD) 5.50Catchment area (sq km) 1008.3
Max alt. (m OD) 747

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	15 780	11 360	37 020	14 900	8 858	5 874	4 586	3 336	7 485	26 170	15 870	13 230
(m³ s⁻¹)	Peak	85 31	183 80	161 30	106 20	21 62	22 86	20 58	6 96	92.94	273.40	192 80	112 90
Runoff (mm)		42	27	98	38	24	15	12	9	19	70	41	35
Rainfall (mm)		52	52	126	63	65	43	56	31	137	129	87	72

Monthly and yearly statistics for previous record (Sep 1977 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg.	21 430	29 590	36 250	16 500	11 040	8 559	5 969	7 248	4 961	7 491	16 290	32 110
flows	Low	18 060	20 270	19 150	9 605	4 732	3 945	3 780	5 007	3 777	4 834	8 885	21 490
(m³ s⁻¹)	High	23 570	37 620	64 200	30 120	17 530	13 410	9 731	9 201	6 193	13 350	20 300	50 640
Peak flow (m³ s⁻¹)		175.70	212.70	349.60	94.71	100.70	131.10	82.95	59.19	29.38	55.26	190.80	353.10
Runoff (mm)		57	72	98	42	29	22	16	19	13	20	42	85
Rainfall (mm)		75	74	109	15	32	161	57	103	44	100	91	69

'1980 only

Factors affecting flow regime: G

Station type: FV

1981 runoff is 84% of previous mean rainfall 98%

025006 Greta at Rutherford Bridge**1981**Measuring authority: NWA
First year: 1960Grid reference: NZ 034122
Level stn. (m OD) 223.00Catchment area (sq km) 86.1
Max alt (m OD) 596

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows	Avg.	3 405	1 562	6 530	1 957	1 021	1 243	0 290	0 185	2 628	5 443	4 057	1 257
(m³ s⁻¹)	Peak	23 38	48 68	48 68	37 68	6 80	35 29	1 96	1 08	50 13	93 85	47 04	22 14
Runoff (mm)		106	44	203	59	32	37	9	6	79	169	122	39
Rainfall (mm)		84	70	195	88	81	71	44	43	190	199	140	84

Monthly and yearly statistics for previous record (Oct 1980 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg.	3 600	2 745	3 108	2 186	1 389	0 826	0 708	1 360	1 522	2 353	3 243	3 548
flows	Low	0 291	0 280	0 842	0 424	0 148	0 130	0 095	0 098	0 147	0 195	0 951	0 944
(m³ s⁻¹)	High	7 155	8 881	8 926	4 682	3 951	2 502	2 013	4 107	4 067	6 665	6 878	6 406
Peak flow (m³ s⁻¹)		95.37	88.63	79.00	62.01	56.35	51.74	52.83	110.40	109.00	79.29	68.81	70.79
Runoff (mm)		112	78	97	66	43	25	22	42	46	73	98	110
Rainfall (mm)		115	87	93	78	70	75	98	93	97	110	115	110

Factors affecting flow regime:

Station type: CC

1981 runoff is 112% of previous mean rainfall 116%

025018 Tees at Middleton in Teesdale**1981**

Measuring authority: NWA
First year: 1971

Grid reference: NY 950250
Level stn. (m OD) 211.20

Catchment area (sq km) 242.1
Max alt. (m OD) 893

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg.	14 130	9 049	17 690	2 307	6 358	5 321	4 603	9 590	15 020	15 020	10 070	
	Peak	96.58	186.10	123.20		65.19	29.96	23.33	176.90	135.60	149.70	46.57	
Runoff (mm)		156	90	196	26	68	59	51	103	166	161	111	
Rainfall (mm)		147	95	248	98	114	105	90	50	245	233	240	92

Monthly and yearly statistics for previous record (Jul 1971 to Dec 1980—Incomplete or missing months total 0 2 years)

Mean	Avg.	12 400	10 240	10 860	7 723	5 831	4 882	4 462	5 745	6 198	7 596	10 570	12 550	8 249
Flows	Low	7 078	4 484	3 955	2 619	3 134	3 286	3 119	3 091	2 967	4 499	5 740	3 805	6 092
(m³ s⁻¹)	High	19 420	16 530	23 880	17 810	10 700	10 420	5 918	10 440	7 725	14 440	14 530	24 100	10 632
Peak flow (m³ s⁻¹)		258.80	96.98	255.10	83.28	112.10	86.09	85.11	185.90	184.40	180.40	181.50	151.30	258.80
Runoff (mm)		137	104	120	83	65	52	49	64	66	84	113	139	1076
Rainfall (mm)		175	109	131	83	88	93	89	112	122	119	166	175	1462

Factors affecting flow regime: SR

Station type: VA

1981 runoff is % of previous mean rainfall 120%

025019 Leven at Easby**1981**

Measuring authority: NWA
First year: 1971

Grid reference: NZ 585087
Level stn. (m OD) 101.30

Catchment area (sq km) 14.8
Max alt. (m OD) 335

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg.	0.168	0.166	0.509	0.226	0.157	0.091	0.184	0.101	0.099	0.193	0.164	0.291	0.196
	Peak	0.30	0.59	4.90	1.18	0.43	0.16	2.63	0.48	1.11	1.35	2.16	2.69	4.80
Runoff (mm)		30	27	92	40	28	16	33	18	17	35	29	53	418
Rainfall (mm)		35	47	133	56	67	33	105	45	99	82	60	70	832

Monthly and yearly statistics for previous record (May 1971 to Dec 1980)

Mean	Avg.	0.333	0.366	0.308	0.211	0.172	0.134	0.112	0.132	0.136	0.194	0.192	0.287	0.214
Flows	Low	0.115	0.100	0.076	0.085	0.088	0.075	0.044	0.039	0.061	0.063	0.102	0.132	0.143
(m³ s⁻¹)	High	0.630	0.729	0.821	0.390	0.386	0.239	0.189	0.385	0.532	0.556	0.324	0.543	0.305
Peak flow (m³ s⁻¹)		3.14	4.38	4.83	2.41	4.00	1.87	3.14	3.88	12.83	3.08	3.15	4.51	12.83
Runoff (mm)		60	61	56	37	31	23	20	24	24	35	34	52	457
Rainfall (mm)		88	55	69	50	61	62	67	74	75	77	74	80	832

Factors affecting flow regime: N

Station type: VF

1981 runoff is 92% of previous mean rainfall 100%

025020 Skerne at Preston le Skerne**1981**

Measuring authority: NWA
First year: 1972

Grid reference: NZ 292238
Level stn. (m OD) 67.50

Catchment area (sq km) 147.0
Max alt. (m OD) 222

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg.	0.715	0.487	2.816	0.944	0.434	0.275	0.256	0.216	0.444	1.955	0.844	1.638	0.919
	Peak	2.60	1.64	20.35	11.25	1.18	0.87	0.54	0.88	9.33	21.71	12.05	19.17	21.71
Runoff (mm)		13	8	51	17	8	5	5	4	8	36	15	30	199
Rainfall (mm)		30	24	99	47	51	30	52	40	116	90	53	54	686

Monthly and yearly statistics for previous record (Dec 1972 to Dec 1980—Incomplete or missing months total 0 3 years)

Mean	Avg.	1.532	1.557	1.474	0.722	0.710	0.468	0.435	0.438	0.349	0.969	0.777	1.583	0.917
Flows	Low	0.553	0.481	0.293	0.311	0.348	0.112	0.123	0.086	0.082	0.099	0.204	0.553	0.558
(m³ s⁻¹)	High	3.376	2.731	4.824	1.619	1.853	0.685	0.760	0.732	0.745	4.290	1.612	4.858	1.610
Peak flow (m³ s⁻¹)		18.48	12.93	26.58	6.78	10.63	8.36	9.23	7.85	1.90	14.94	17.40	24.82	26.58
Runoff (mm)		28	26	27	13	13	8	8	8	6	18	14	29	197
Rainfall (mm)		63	43	56	37	54	52	50	59	60	56	52	63	846

Factors affecting flow regime: E

Station type: VA

1981 runoff is 101% of previous mean rainfall 106%

026003 Foston Beck at Foston Mill**1981**

Measuring authority: YWA
First year: 1959

Grid reference: TA 093548
Level stn. (m OD)

Catchment area (sq km) 57.2
Max alt. (m OD) 164

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg.	1.027	0.992	1.350	1.767	1.378	0.969	0.717	0.514	0.393	0.347	0.330	0.438	0.852
	Peak	1.13	1.71	2.09	2.70	1.52	1.17	1.00	0.75	0.54	0.47	0.54	1.10	2.70
Runoff (mm)		48	42	63	80	65	44	34	24	18	16	15	21	469
Rainfall (mm)		39	69	118	81	45	23	71	64	87	86	54	64	801

Monthly and yearly statistics for previous record (Oct 1959 to Dec 1980—Incomplete or missing months total 0 6 years)

Mean	Avg.	0.898	1.195	1.118	0.972	0.806	0.627	0.505	0.400	0.336	0.332	0.460	0.652	0.689
Flows	Low	0.199	0.183	0.174	0.150	0.174	0.110	0.112	0.105	0.101	0.125	0.148	0.195	0.166
(m³ s⁻¹)	High	2.224	2.332	2.242	2.070	1.708	1.231	0.882	0.675	0.567	0.612	1.845	2.379	1.282
Peak flow (m³ s⁻¹)		2.89	3.31	2.69	2.49	1.92	2.01	1.47	0.99	0.80	1.22	2.49	2.86	3.31
Runoff (mm)		42	51	52	44	38	28	24	19	15	16	21	31	380
Rainfall (mm)		74	53	52	50	55	50	58	66	57	69	76	76	736

Factors affecting flow regime: N

Station type: TP

1981 runoff is 123% of previous mean rainfall 109%

026004 Gypsey Race at Bridlington**1981**

Measuring authority: YWA
First year: 1971

Grid reference: TA 165675
Level stn. (m OD) 11 00

Catchment area (sq km) 253.8
Max alt. (m OD) 211

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 0.397	0.430	0.899	1.611	1.200	0.562	0.291	0.147	0.052	0.034	0.012	0.014	0.471
Peak	0.48	0.58	2.09	2.10	1.56	0.86	0.51	0.26	0.09	0.13	0.05	0.12	2.10
Runoff (mm)	4	4	9	16	13	6	3	2	1	0	0	0	58
Rainfall (mm)	35	66	132	81	48	24	69	55	93	87	49	64	803

Monthly and yearly statistics for previous record (Jan 1971 to Dec 1980—Incomplete or missing months total 29 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 0.166	0.486	0.927	0.752	0.408	0.261	0.126	0.071	0.026	0.013	0.021	0.120	0.280
Flows (m³ s⁻¹)	Low 0	0	0.005	0.010	0	0	0	0	0	0	0	0	0.002
Peak	Low 0.827	2.043	2.419	2.240	1.021	0.846	0.458	0.284	0.149	0.060	0.108	0.363	0.633
Peak flow (m³ s⁻¹)	1.36	2.56	3.51	3.19	1.45	0.98	0.66	0.43	0.21	0.10	0.17	0.62	3.51
Runoff (mm)	2	5	10	8	4	3	1	1	0	0	0	1	35
Rainfall (mm)	81	50	57	44	55	53	53	65	57	70	60	78	723

Factors affecting flow regime: G I
Station type: C

1981 runoff is 167% of previous mean rainfall 111%

027007 Ure at Westwick Lock**1981**

Measuring authority: YWA
First year: 1958

Grid reference: SE 356671
Level stn. (m OD) 14 19

Catchment area (sq km) 914.6
Max alt. (m OD) 713

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 30 340	20 540	57 100	16 020	14 580	14 200	4 860	3 869	17 540	36 070	29 990	13 310	21 535
Peak	104 50	180 80	21 000	87 58	45 24	59 23	24 68	11 97	129 30	180 80	142 20	59 23	21 00
Runoff (mm)	89	54	167	45	43	40	14	11	50	106	85	39	744
Rainfall (mm)	93	92	214	81	89	63	56	60	174	166	114	71	1273

Monthly and yearly statistics for previous record (Oct 1958 to Dec 1980—Incomplete or missing months total 0.4 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 31 300	29 520	25 520	20 290	12 880	8 254	11 780	13 900	21 080	28 550	31 970	20 228	
Flows (m³ s⁻¹)	Low 4 009	3 886	10 250	5 674	3 831	3 074	2 421	1 287	1 450	5 856	7 078	11 330	12 946
Peak	High 52 280	84 770	60 330	40 980	29 400	21 400	16 180	31 600	33 030	68 480	65 010	57 370	27 066
Runoff (mm)	246 90	302 30	413 10	263 30	170 80	161 50	144 50	260 20	296 20	266 50	288 80	283 20	413 10
Rainfall (mm)	92	79	75	58	38	23	24	34	39	62	81	94	698

Factors affecting flow regime: S P I
Station type: B VA

1981 runoff is 107% of previous mean rainfall 113%

027031 Colne at Colnebridge**1981**

Measuring authority: YWA
First year: 1964

Grid reference: SE 174199
Level stn. (m OD) 47 95

Catchment area (sq km) 245.0
Max alt. (m OD) 582

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 10 160	7 266	17 800	5 106	3 630	1 845	1 383	3 067	1 899	7 574	8 515	4 117	8 030
Peak	63 46	124 00	143 00	44 86	10 70	14 86	21 17	53 96	20 38	47 01	70 84	22 19	143 00
Runoff (mm)	111	72	195	54	40	20	15	34	20	83	90	45	777
Rainfall (mm)	126	112	231	91	88	50	51	99	123	188	147	91	1397

Monthly and yearly statistics for previous record (Jan 1964 to Dec 1980—Incomplete or missing months total 0.4 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 6 108	7 079	5 861	4 651	2 953	2 020	2 016	2 232	3 155	4 156	6 301	7 500	4 488
Flows (m³ s⁻¹)	Low 2 132	1 873	2 730	1 278	0 843	0 677	0 598	0 369	0 807	0 694	1 321	2 410	2 483
Peak	High 11 510	16 720	16 020	12 180	7 024	4 572	6 420	5 799	13 780	10 750	10 500	21 410	6 678
Runoff (mm)	127 00	93 45	120 80	155 50	93 45	35 89	82 64	73 62	210 60	272 10	121 50	154 60	272 10
Rainfall (mm)	67	70	64	49	32	21	22	24	33	45	67	82	578

Factors affecting flow regime: S PG I
Station type: C VA

1981 runoff is 134% of previous mean rainfall 121%

027042 Dove at Kirkby Mills**1981**

Measuring authority: YWA
First year: 1972

Grid reference: SE 705855
Level stn. (m OD) 35 60

Catchment area (sq km) 51.8
Max alt. (m OD) 429

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 1 145	1 039	3 062	1 370	1 115	0 609	0 892	0 653	0 774	1 370	1 003	1 325	1 196
Peak	2 88	2 72	39 34	5 00	4 20	0 96	9 87	4 01	14 57	5 17	6 96	15 44	39 34
Runoff (mm)	59	49	158	69	58	30	46	34	39	71	50	69	731
Rainfall (mm)	44	62	172	73	96	42	114	64	129	107	73	71	1047

Monthly and yearly statistics for previous record (Feb 1972 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 1 706	1 860	1 621	1 043	0 817	0 633	0 514	0 564	0 706	1 113	1 118	1 719	1 115
Flows (m³ s⁻¹)	Low 0 699	0 541	0 347	0 376	0 446	0 279	0 211	0 161	0 246	0 251	0 543	0 853	0 640
Peak	2 861	3 180	4 701	1 686	1 702	1 099	0 922	1 397	2 743	2 683	1 671	3 237	1 554
Runoff (mm)	23 63	36 68	40 93	4 39	15 44	6 94	19 33	32 36	56 38	24 71	23 85	32 94	56 38
Rainfall (mm)	88	88	84	52	42	32	27	29	35	58	89	88	680

Factors affecting flow regime: N

Station type: F V

1981 runoff is 108% of previous mean rainfall 111%

RIVER FLOW DATA

027043 Wharfe at Addingham

1981

Measuring authority: YWA
First year: 1974

Grid reference: SE 092494
Level stn. (m OD) 79.70

Catchment area (sq km) 427.0
Max alt. (m OD) 704

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg	25.340	17.010	51.080	8.770	8.247	9.523	3.968	3.464	16.340	29.430	25.720	5.971 17.072
	Peak	149.20	342.00	367.20	66.71	42.37	60.62	22.96	21.74	230.60	205.10	300.90	28.96 367.20
Runoff (mm)		159	96	320	53	52	58	25	22	99	185	156	37 1263
Rainfall (mm)		133	102	280	72	94	86	64	63	202	196	160	79 1531

Monthly and yearly statistics for previous record (Jan 1974 to Dec 1980—Incomplete or missing months total 0 3 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg	25.320	18.370	19.930	9.006	7.483	3.758	4.776	8.384	14.490	17.420	24.540	25.890 14.943
Flows (m³ s⁻¹)	Low	18.670	8.801	6.391	2.453	1.766	1.740	2.006	1.143	8.215	6.427	9.858	12.300 10.487
	High	32.470	28.410	52.490	17.500	14.770	5.716	9.543	17.080	23.460	37.310	32.450	44.680 19.543
Peak flow (m³ s⁻¹)		509.00	217.20	552.60	205.10	89.87	45.07	163.80	111.20	244.90	370.00	400.00	320.30 552.60
Runoff (mm)		159	105	125	55	47	23	30	53	88	109	149	162 1105
Rainfall (mm)		140	120	136	6	33	176	79	166	124	234	182	175 1571

'(1980 only)

Factors affecting flow regime: S P

Station type: C VA

1981 runoff is 114% of previous mean rainfall 97%

027059 Laver at Ripon

1981

Measuring authority: YWA
First year: 1977

Grid reference: SE 301710
Level stn. (m OD) 29.60

Catchment area (sq km) 87.5
Max alt. (m OD) 406

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg	1.519	1.457	3.626	1.294	0.729	0.488	0.210	0.225	0.462	1.506	0.959	0.848 1.110
	Peak	13.61	15.76	22.65	8.38	2.66	7.42	0.68	2.05	10.21	13.64	5.94	8.13 22.65
Runoff (mm)		46	40	111	38	22	14	6	7	14	46	28	26 400
Rainfall (mm)		76	85	158	69	73	48	44	55	130	138	85	75 1036

Monthly and yearly statistics for previous record (Nov 1977 to Dec 1980—Incomplete or missing months total 0 2 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg	2.036	2.125	2.356	1.018	0.826	0.489	0.299	0.545	0.308	0.616	1.199	-2.595 1.199
Flows (m³ s⁻¹)	Low	1.713	1.962	1.332	0.626	0.322	0.283	0.189	0.289	0.253	0.167	0.442	-1.431 1.126
	High	2.540	2.289	3.850	1.520	1.233	0.694	0.480	0.841	0.391	1.104	1.930	3.786 1.126
Peak flow (m³ s⁻¹)		17.74	12.27	18.85	7.03	8.28	15.67	6.29	11.48	5.16	9.07	12.91	39.14 39.14
Runoff (mm)		62	59	72	30	25	14	9	17	9	19	36	79 432
Rainfall (mm)		94	96	105	9	24	140	54	113	48	126	99	78 986

'(1980 only)

Factors affecting flow regime: S P

Station type: C

1981 runoff is 93% of previous mean rainfall 105%

028018 Dove at Marston on Dove

1981

Measuring authority: STWA
First year: 1962

Grid reference: SK 235288
Level stn. (m OD) 47.20

Catchment area (sq km) 883.2
Max alt. (m OD) 555

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg	28.970	19.470	36.570	17.130	17.700	10.910	7.659	5.733	13.300	22.820	19.890	23.180 18.444
	Peak	103.70	90.67	129.70	69.22	45.46	42.30	29.28	10.87	90.67	53.33	86.10	202.80 202.80
Runoff (mm)		82	53	111	50	54	32	23	17	39	69	58	70 680
Rainfall (mm)		97	80	146	72	91	48	63	47	145	115	87	87 1078

Monthly and yearly statistics for previous record (Oct 1961 to Dec 1980—Incomplete or missing months total 0 6 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg	22.440	21.730	16.940	13.870	12.550	9.235	8.675	8.573	9.104	10.790	16.630	21.790 14.330
Flows (m³ s⁻¹)	Low	7.822	4.615	8.158	6.195	4.831	3.452	2.434	1.913	2.821	3.495	5.684	7.907 7.655
	High	44.930	55.910	29.730	25.620	25.800	14.700	17.010	18.130	33.240	21.850	31.070	61.220 21.755
Peak flow (m³ s⁻¹)		157.90	194.60	98.26	100.30	109.00	71.64	117.10	101.10	112.10	128.00	130.80	137.10 194.60
Runoff (mm)		68	60	51	41	38	27	26	26	27	33	49	66 512
Rainfall (mm)		89	74	70	65	77	72	70	82	80	77	96	94 946

Factors affecting flow regime: SRPG

Station type: FV

1981 runoff is 129% of previous mean rainfall 114%

028031 Manifold at Ilam

1981

Measuring authority: STWA

First year: 1968

Grid reference: SK 140507

Catchment area (sq km) 148.5

Max alt. (m OD) 513

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg	7.828	4.759	9.455	4.509	4.465	2.669	1.740	1.159	3.472	6.697	6.139	4.695 4.799
	Peak	50.79	27.14	49.89	43.09	27.92	21.48		2.18	45.69	26.87	52.00	43.42
Runoff (mm)		141	78	171	79	81	47	31	21	61	121	107	85 1021
Rainfall (mm)		130	87	177	79	98	54	74	53	159	149	120	95 1276

Monthly and yearly statistics for previous record (May 1968 to Dec 1980—Incomplete or missing months total 0 1 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg	5.821	5.686	4.438	3.409	2.459	1.641	1.535	1.886	1.676	2.744	4.934	5.118 3.435
Flows (m³ s⁻¹)	Low	3.657	2.935	2.528	1.277	0.812	0.745	0.493	0.386	0.535	0.716	1.555	2.135 2.241
	High	7.785	12.710	9.003	5.828	5.713	3.443	3.481	4.517	4.147	6.661	8.198	8.741 4.310
Peak flow (m³ s⁻¹)		54.95	54.82	27.93	35.28	49.48	22.61	37.29	137.00	28.29	75.78	91.61	43.14 137.00
Runoff (mm)		105	93	80	59	44	29	28	34	29	49	86	92 730
Rainfall (mm)		125	98	87	63	78	75	78	70	84	92	118	110 1078

'(1971-1980)

Factors affecting flow regime: P E

Station type: C

1981 runoff is 140% of previous mean rainfall 118%

028039 Rea at Calthorpe Park**1981**

Measuring authority STWA
First year 1967

Grid reference SP 071847
Level stn (m OD) 104.24

Catchment area (sq km) 74.0
Max alt (m OD) 286

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 0.938	1.020	2.101	0.986	1.052	0.711	0.450	0.614	1.423	0.941	0.628	1.811	1.056
Peak	5.85	9.44	21.71	12.97	9.61	25.45		15.49	30.01	16.38	6.27	54.02	
Runoff (mm)	34	33	76	35	38	25	16	22	50	34	22	66	451
Rainfall (mm)	51	56	116	50	98	32	25	54	159	80	43	112	876

Monthly and yearly statistics for previous record (May 1967 to Dec 1980—Incomplete or missing months total 11 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg 1.224	1.232	1.038	0.700	0.767	0.641	0.495	0.631	0.609	0.635	0.823	1.070	0.820
Low	0.601	0.549	0.483	0.316	0.355	0.287	0.258	0.367	0.295	0.320	0.493	0.530	0.602
High	1.634	2.610	1.688	0.954	1.780	1.324	0.779	1.366	1.278	1.408	1.487	1.934	1.041
Peak flow (m³ s⁻¹)	20.73	27.44	27.85	12.88	30.37	37.44	22.85	41.25	40.85	23.28	24.97	29.62	41.26
Runoff (mm)	44	41	38	25	28	22	18	23	21	23	29	39	360
Rainfall (mm)	80	74	66	46	58	61	48	66	71	60	63	82	775

Factors affecting flow regime: E

Station type: C

1981 runoff is 129% of previous mean rainfall 113%

028072 Greet at Southwell**1981**

Measuring authority STWA
First year 1974

Grid reference SK 711541
Level stn (m OD) 20.40

Catchment area (sq km) 46.2
Max alt (m OD):

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 0.345	0.524	0.880	0.965	0.434	0.342	0.192	0.172	0.188	0.217	0.179	0.323	0.397
Peak	1.45	5.46	3.12	19.62	0.97	2.45		0.48	0.53	0.52	0.31	5.99	
Runoff (mm)	20	27	51	54	25	19	11	10	11	13	10	19	270
Rainfall (mm)	34	60	102	79	58	37	17	41	107	67	30	57	689

Monthly and yearly statistics for previous record (Jan 1976 to Dec 1977)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg 0.496	1.255	0.342	0.239	0.191	0.165	0.110	0.107	0.122	0.185	0.185	0.287	0.301
Low	0.232	0.153	0.141	0.132	0.118	0.088	0.068	0.061	0.103	0.153	0.175	0.244	0.163
High	0.759	2.358	0.543	0.347	0.263	0.241	0.153	0.154	0.140	0.217	0.194	0.330	0.448
Peak flow (m³ s⁻¹)	3.41	22.27	3.19	0.69	0.43	0.87	0.69	1.38	0.90	1.04	1.13	2.69	22.27
Runoff (mm)	29	66	20	13	11	9	6	6	7	11	10	17	205
Rainfall (mm)	64	74	54	35	44	59	33	56	43	62	48	85	657

(1976-1980)

Factors affecting flow regime:

Station type: FV

1981 runoff is 131% of previous mean rainfall 105%

028080 Tame at Lea Marston Lakes**1981**

Measuring authority STWA
First year 1981

Grid reference SP 207937
Level stn (m OD) 66.23

Catchment area (sq km) 799.0
Max alt (m OD):

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 15.870	15.660	26.590	18.090	15.680	11.250	9.382	11.090	17.530	15.060	11.820	22.990	15.751
Peak	53	47	89	52	53	36	31	37	57	50	38	77	622
Runoff (mm)													
Rainfall (mm)													

Monthly and yearly statistics for previous record (Oct 1957 to Dec 1980—Incomplete or missing months total 0.3 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg 17.270	17.610	15.090	13.100	12.390	10.880	10.220	10.810	11.030	11.970	13.960	16.280	13.383
Low	8.994	8.855	8.797	7.259	7.321	6.655	6.369	6.978	6.655	7.852	7.876	9.057	9.899
High	24.130	35.140	20.510	21.200	24.680	14.680	17.220	18.970	19.440	25.600	27.880	32.880	17.356
Peak flow (m³ s⁻¹)													
Runoff (mm)													
Rainfall (mm)													

Factors affecting flow regime:

Station type:

1981 runoff is 118% of previous mean rainfall

029003 Lud at Louth**1981**

Measuring authority AWA
First year 1968

Grid reference TF 337879
Level stn (m OD) 15.42

Catchment area (sq km) 55.2
Max alt. (m OD):

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 0.795	0.897	1.201	1.242	1.177	0.669	0.493	0.365	0.290	0.276	0.242	0.295	0.662
Peak	0.98	3.81	2.20	5.06	1.71	1.62	0.83	1.28	1.14	0.54	0.53	2.07	5.06
Runoff (mm)	39	39	58	58	57	31	24	18	14	13	11	14	377
Rainfall (mm)	42	61	130	126	47	32	32	51	101	72	35	52	781

Monthly and yearly statistics for previous record (Aug 1968 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg 0.596	0.815	0.774	0.686	0.529	0.402	0.317	0.274	0.241	0.253	0.329	0.408	0.467
Low	0.139	0.157	0.162	0.150	0.156	0.131	0.112	0.102	0.112	0.130	0.132	0.125	0.178
High	1.279	1.428	1.338	1.289	0.914	0.687	0.507	0.414	0.625	0.719	1.158	0.912	0.703
Peak flow (m³ s⁻¹)	3.68	3.58	3.58	3.60	3.51	3.23	3.40	3.10	3.30	2.96	6.77	3.10	6.77
Runoff (mm)	29	36	38	32	26	19	15	13	11	12	15	20	267
Rainfall (mm)	66	50	58	51	49	54	53	64	51	52	72	69	689

Factors affecting flow regime: PG I

Station type: C

1981 runoff is 141% of previous mean rainfall 113%

030004 Partney Lynn at Partney Mill**1981**

Measuring authority: AWA
First year: 1962

Grid reference: TF 402676
Level stn. (m OD) 14.95

Catchment area (sq km): 61.6
Max alt. (m OD): 142

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg.	0.702	0.794	1.538	1.518	0.670	0.372	0.285	0.306	0.312	0.448	0.405	0.732	0.674
	Peak	2.52	7.33	7.71	13.34	1.39	0.63	0.53	1.59	1.87	1.43	1.09	6.31	13.34
Runoff (mm)		31	31	67	64	29	16	12	13	13	19	17	32	344
Rainfall (mm)		41	50	122	122	55	24	29	44	93	68	30	48	726

Monthly and yearly statistics for previous record (Jun 1982 to Dec 1980—Incomplete or missing months total 0.4 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Mean	Avg.	0.791	0.799	0.691	0.575	0.436	0.298	0.277	0.283	0.284	0.373	0.543	0.725	0.505
Flows (m³ s⁻¹)	Low	0.351	0.300	0.276	0.278	0.200	0.116	0.088	0.107	0.151	0.190	0.193	0.210	0.292
	High	1.475	1.838	1.467	1.072	0.798	0.619	0.862	0.593	0.917	1.144	1.112	1.804	0.754
Peak flow (m³ s⁻¹)		8.44	12.59	9.16	8.91	8.56	8.13	13.38	7.06	6.64	8.07	10.17	8.48	13.38
Runoff (mm)		34	32	30	24	19	13	12	12	12	16	23	32	259
Rainfall (mm)		59	51	57	54	53	57	55	66	53	48	74	66	693

Factors affecting flow regime: G I
Station type: C

1981 runoff is 133% of previous mean
rainfall 105%

031002 Glen at Kates Bridge**1981**

Measuring authority: AWA
First year: 1960

Grid reference: TF 106149
Level stn. (m OD) 6.10

Catchment area (sq km): 341.9
Max alt. (m OD): 129

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg.	0.858	0.891	2.884	2.418	1.639	0.983	0.453	0.226	0.161	0.229	0.160	0.338	0.937
	Peak	4.29	3.60	9.40	23.30	2.88	6.04	1.53	0.45	0.81	1.00	0.21	6.73	23.30
Runoff (mm)		7	6	23	18	13	7	4	2	1	2	1	3	86
Rainfall (mm)		32	36	91	72	67	36	27	46	93	55	26	47	628

Monthly and yearly statistics for previous record (Oct 1980 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Mean	Avg.	1.453	1.863	1.794	1.344	1.069	0.508	0.359	0.359	0.338	0.427	0.713	1.129	0.842
Flows (m³ s⁻¹)	Low	0.094	0.048	0.032	0.018	0.006	0.004	0	0.001	0.008	0.024	0.018	0.075	0.135
	High	3.256	6.994	4.256	3.631	3.604	1.547	1.091	1.367	1.601	1.663	3.250	4.183	1.885
Peak flow (m³ s⁻¹)		15.89	17.05	28.50	11.67	15.14	11.15	5.24	14.16	5.24	5.06	25.98	15.18	28.50
Runoff (mm)		11	13	14	10	8	4	3	3	3	3	5	9	87
Rainfall (mm)		53	44	47	51	51	51	64	48	48	59	60	627	

Factors affecting flow regime: G

Station type: FV

1981 runoff is 99% of previous mean
rainfall 100%**031007 Welland at Barrowden****1981**

Measuring authority: AWA
First year: 1967

Grid reference: SP 948999
Level stn. (m OD) 34.90

Catchment area (sq km): 398.9
Max alt. (m OD): 228

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg.	4.147	2.395	8.724	7.092	3.329	2.691	0.624	0.883	1.049	1.402	1.275	3.615	3.102
	Peak	19.48	8.21	42.86	79.43	8.57	27.44	0.92	8.91	10.36	7.67	3.18	35.85	79.43
Runoff (mm)		28	15	59	46	22	17	4	6	7	9	8	24	246
Rainfall (mm)		42	32	97	67	68	38	25	71	103	54	31	51	679

Monthly and yearly statistics for previous record (Feb 1968 to Dec 1980—Incomplete or missing months total 0.6 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Mean	Avg.	4.400	5.973	4.105	2.160	1.715	0.860	0.892	0.850	0.698	1.309	1.869	3.518	2.346
Flows (m³ s⁻¹)	Low	0.517	0.425	0.353	0.257	0.232	0.159	0.092	0.153	0.271	0.229	0.317	0.411	1.037
	High	8.949	17.030	9.687	7.699	6.030	3.095	4.468	4.501	4.329	5.150	6.430	6.528	3.666
Peak flow (m³ s⁻¹)		21.39	74.42	107.80	48.34	37.55	8.55	38.23	39.91	12.55	22.87	50.37	40.13	107.80
Runoff (mm)		30	37	28	14	12	6	6	6	5	9	12	24	186
Rainfall (mm)		59	49	49	44	53	56	55	67	46	45	58	60	641

Factors affecting flow regime: S E

Station type: C

1981 runoff is 132% of previous mean
rainfall 106%**031010 Chater at Fosters Bridge****1981**

Measuring authority: AWA
First year: 1968

Grid reference: SK 961030
Level stn. (m OD) 38.40

Catchment area (sq km): 68.9
Max alt. (m OD): 230

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg.	0.762	0.528	1.677	1.213	0.742	0.626	0.206	0.207	0.217	0.328	0.255	0.545	0.609
	Peak	4.40	1.72	5.88	14.77	1.54	11.78	0.32	0.71	1.69	1.66	0.73	8.05	14.77
Runoff (mm)		30	19	65	46	29	24	8	8	8	13	10	21	279
Rainfall (mm)		47	34	101	78	69	45	25	65	107	58	32	52	713

Monthly and yearly statistics for previous record (Feb 1968 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Mean	Avg.	0.947	1.096	0.839	0.641	0.442	0.233	0.212	0.204	0.191	0.330	0.444	0.748	0.625
Flows (m³ s⁻¹)	Low	0.147	0.106	0.090	0.065	0.051	0.033	0.024	0.044	0.067	0.048	0.073	0.098	0.202
	High	1.682	3.094	1.642	1.670	1.467	0.649	0.872	0.818	0.998	1.018	1.215	1.465	0.828
Peak flow (m³ s⁻¹)		12.22	16.06	15.77	15.07	16.44	3.45	20.64	20.76	4.25	6.66	12.48	11.00	20.76
Runoff (mm)		37	39	33	24	17	9	8	8	7	13	17	29	240
Rainfall (mm)		59	50	50	47	52	57	53	70	46	47	59	60	666

Factors affecting flow regime:

Station type: CC

1981 runoff is 116% of previous mean
rainfall 110%

032003 Harpers Brook at Old Mill Bridge**1981**

Measuring authority AWA
First year 1938

Grid reference SP 983799
Level stn (m OD) 30.30

Catchment area (sq km) 74.3
Max alt (m OD) 146

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 0.534	0.331	1.453	1.334	0.720	0.606	0.152	0.134	0.141	0.142	0.144	0.475	0.614
Peak	4.96	1.25	7.09	22.00	4.51	17.50	0.35	0.82	0.95	0.56	0.35	9.05	22.00
Runoff (mm)	19	11	52	47	26	21	5	5	5	5	5	17	219
Rainfall (mm)	38	31	97	87	74	46	25	47	84	47	33	56	665

Monthly and yearly statistics for previous record (Dec 1938 to Dec 1980— incomplete or missing months total 0.4 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 0.785	0.851	0.702	0.443	0.298	0.202	0.147	0.156	0.148	0.206	0.436	0.575	0.410
Flows (m³ s⁻¹)	Low 0.097	0.080	0.076	0.065	0.056	0.048	0.053	0.048	0.049	0.057	0.069	0.077	0.159
High	2.766	2.496	2.363	1.307	1.215	1.050	0.685	0.791	1.162	0.980	1.688	1.775	0.692
Peak flow (m³ s⁻¹)	16.06	18.58	17.01	16.06	17.39	10.54	12.49	20.50	6.80	7.73	11.74	15.81	20.60
Runoff (mm)	28	28	25	15	11	7	5	6	5	7	15	21	174
Rainfall (mm)	59	44	47	42	50	51	53	65	49	52	61	57	630

Factors affecting flow regime
Station type CC

1981 runoff is 125% of previous mean rainfall 106%

032004 Ise Brook at Harrowden Old Mill**1981**

Measuring authority AWA
First year 1943

Grid reference SP 898715
Level stn (m OD) 45.31

Catchment area (sq km) 194.0
Max alt (m OD) 197

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 2.185	1.417	4.359	3.020	2.532	2.421	0.680	0.720	0.726	0.857	0.752	1.642	1.778
Peak	7.90	3.37	13.90	20.77	7.11	24.04	1.24	4.10	3.17	4.10	1.61	14.94	24.04
Runoff (mm)	30	18	60	40	35	32	9	10	10	12	10	23	289
Rainfall (mm)	43	31	96	81	80	51	25	48	98	51	34	55	693

Monthly and yearly statistics for previous record (Dec 1943 to Dec 1980— incomplete or missing months total 1.4 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 2.465	2.761	2.289	1.476	1.093	0.695	0.586	0.557	0.510	0.751	1.415	1.954	1.373
Flows (m³ s⁻¹)	Low 0.459	0.324	0.219	0.329	0.143	0.128	0.166	0.110	0.128	0.185	0.176	0.219	0.422
High	6.441	6.949	7.984	3.834	3.640	2.246	3.018	2.655	2.283	4.384	5.331	5.859	2.337
Peak flow (m³ s⁻¹)	17.10	17.51	28.39	15.20	17.73	16.75	19.54	25.10	7.79	13.08	16.00	16.99	28.39
Runoff (mm)	34	35	32	20	15	9	8	8	7	10	19	27	223
Rainfall (mm)	54	44	47	43	52	53	53	66	53	51	59	59	634

Factors affecting flow regime SE
Station type FV

1981 runoff is 130% of previous mean rainfall 109%

033003 Cam at Bottisham**1981**

Measuring authority AWA
First year 1936

Grid reference TL 508657
Level stn (m OD) 2.39

Catchment area (sq km) 803.0
Max alt (m OD) 168

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 2.865	2.168	6.418	5.035	4.273	2.545	2.060	2.082	1.653	3.114	2.319	3.609	3.178
Peak	10	7	21	16	14	8	7	7	5	10	7	12	125
Runoff (mm)	37	16	93	55	67	24	65	38	79	66	32	50	622

Monthly and yearly statistics for previous record (Oct 1936 to Dec 1980— incomplete or missing months total 1.8 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 6.106	6.519	6.100	4.646	3.370	2.285	1.922	1.740	1.691	2.013	3.402	4.247	3.656
Flows (m³ s⁻¹)	Low 1.058	1.441	1.298	1.422	0.944	0.517	0.621	0.471	0.784	0.803	0.880	1.235	1.370
High	19.210	16.410	19.610	18.430	8.775	5.400	6.419	5.471	6.698	5.423	12.120	12.070	8.279
Peak flow (m³ s⁻¹)	35.40	32.00	36.53	43.89	16.85	10.31	6.74	25.83	30.30	17.61	30.58	70.17	70.17
Runoff (mm)	20	20	20	15	11	7	6	6	5	7	11	14	144
Rainfall (mm)	51	37	42	39	45	47	53	58	50	51	59	51	583

Factors affecting flow regime GEI
Station type MIS

1981 runoff is 87% of previous mean rainfall 107%

033004 Lark at Isleham**1981**

Measuring authority AWA
First year 1936

Grid reference TL 648760
Level stn (m OD) 2.44

Catchment area (sq km) 466.2
Max alt (m OD) 125

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 1.645	1.182	3.558	2.410	2.395	1.369	1.228	0.999	0.864	1.114	2.319	2.368	1.114
Peak	9	6	20	13	14	8	7	6	5	14	14	56	670
Runoff (mm)	44	21	103	66	74	29	54	30	75	83	56	670	122

Monthly and yearly statistics for previous record (Oct 1936 to Dec 1980— incomplete or missing months total 1.6 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 2.606	2.937	3.038	2.423	1.877	1.337	1.160	0.992	0.906	1.043	1.565	1.900	1.810
Flows (m³ s⁻¹)	Low 0.741	0.717	0.674	0.696	0.522	0.451	0.308	0.254	0.261	0.409	0.439	0.655	0.606
High	6.137	8.107	9.613	9.502	5.208	3.764	4.430	2.359	2.324	2.620	5.002	5.326	3.850
Peak flow (m³ s⁻¹)	5.95	4.70	3.06	2.01	1.59	0.96	1.27	1.13	2.07	4.05	2.12	2.49	5.95
Runoff (mm)	15	15	17	13	11	7	6	5	6	9	11	122	122
Rainfall (mm)	53	38	43	39	44	50	58	60	52	53	63	53	606

Factors affecting flow regime GEI
Station type MIS

1981 runoff is % of previous mean rainfall 111%

033012 Kym at Meagre Farm**1981**

Measuring authority: AWA
First year: 1960

Grid reference: TL 155631
Level stn. (m OD) 17.22

Catchment area (sq km): 137.5
Max alt. (m OD) 101

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg. 0.927	0.334	2.524	1.728	0.609	0.321	0.039	0.072	0.067	0.222	0.175	1.207	0.686
Peak	8.30	1.34	11.60	24.50	4.59	7.25	0.06	1.01	0.36	1.49	1.15	16.70	24.50
Runoff (mm)	18	6	49	33	12	6	1	1	4	3	24	158	
Rainfall (mm)	37	25	89	86	72	33	28	49	87	57	30	53	646

Monthly and yearly statistics for previous record (May 1960 to Dec 1980—Incomplete or missing months total 0.1 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg. 1.350	1.568	1.179	0.686	0.345	0.182	0.164	0.120	0.051	0.334	0.658	1.001	0.632
Flows (m³ s⁻¹)	Low 0.074	0.047	0.044	0.041	0.024	0.009	0.001	0.004	0.017	0.015	0.022	0.050	0.103
Peak	3.296	5.577	3.751	2.055	1.469	1.489	2.438	1.096	0.158	2.200	4.352	3.328	1.048
Peak flow (m³ s⁻¹)	25.26	22.70	30.24	30.75	20.61	24.10	16.68	23.42	1.34	25.91	34.71	33.98	34.71
Runoff (mm)	26	28	23	13	7	3	3	2	1	7	12	20	145
Rainfall (mm)	50	41	44	46	48	56	52	58	47	49	54	57	602

Factors affecting flow regime: EI

Station type: CB

1981 runoff is 109% of previous mean rainfall 107%

033013 Sapiston at Rectory Bridge**1981**

Measuring authority: AWA
First year: 1960

Grid reference: TL 896791
Level stn. (m OD) 15.62

Catchment area (sq km): 205.9
Max alt. (m OD): 97

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg. 1.205	0.641	2.334	1.551	1.079	0.587	0.415	0.322	0.294	0.535	0.529	1.286	0.898
Peak	4.14	1.82	9.44	8.76	3.61	1.72	1.76	1.08	0.95	1.40	1.71	10.45	10.45
Runoff (mm)	16	8	30	20	14	7	5	4	4	7	7	17	138
Rainfall (mm)	48	24	98	67	69	34	52	19	73	83	37	59	663

Monthly and yearly statistics for previous record (May 1960 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg. 1.203	1.252	1.060	0.792	0.562	0.342	0.259	0.240	0.261	0.308	0.610	0.904	0.847
Flows (m³ s⁻¹)	Low 0.267	0.221	0.244	0.251	0.193	0.133	0.065	0.045	0.051	0.066	0.087	0.139	0.219
Peak	2.417	3.295	2.491	1.880	1.484	0.693	0.469	0.734	1.682	1.008	2.404	2.396	1.071
Peak flow (m³ s⁻¹)	7.51	10.90	10.85	6.20	7.31	1.72	2.39	2.93	8.95	6.26	6.97	6.12	10.90
Runoff (mm)	16	15	14	10	7	4	3	3	3	4	8	12	99
Rainfall (mm)	50	38	42	43	42	47	52	54	55	51	64	56	594

Factors affecting flow regime: GEI

Station type: TP

1981 runoff is 139% of previous mean rainfall 112%

033014 Lark at Temple**1981**

Measuring authority: AWA
First year: 1960

Grid reference: TL 758730
Level stn. (m OD) 8.95

Catchment area (sq km): 272.0
Max alt. (m OD): 113

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg. 1.486	1.162	2.945	2.086	2.020	1.326	1.069	0.951	0.894	1.098	1.065	1.922	1.502
Peak	2.83	1.41	10.03	10.31	3.93	2.52	1.36	3.23	1.19	4.41	2.46	11.22	11.22
Runoff (mm)	15	10	29	20	20	13	11	9	9	11	10	19	175
Rainfall (mm)	45	23	102	69	76	31	54	26	79	82	37	59	683

Monthly and yearly statistics for previous record (Nov 1960 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg. 1.733	1.867	1.768	1.537	1.280	0.983	0.842	0.777	0.817	0.797	1.122	1.424	1.242
Flows (m³ s⁻¹)	Low 0.728	0.645	0.875	0.692	0.641	0.548	0.409	0.385	0.440	0.494	0.509	0.600	0.620
Peak	3.062	3.562	3.614	2.999	2.611	1.709	1.422	1.267	2.893	1.847	2.677	2.662	2.014
Peak flow (m³ s⁻¹)	10.33	12.05	12.12	9.34	9.26	4.14	3.31	5.24	22.06	5.34	10.12	10.19	22.06
Runoff (mm)	17	17	17	15	13	9	8	8	8	8	11	14	144
Rainfall (mm)	51	38	43	45	43	48	52	54	53	51	64	58	600

Factors affecting flow regime: GEI

Station type: CB

1981 runoff is 121% of previous mean rainfall 114%

033024 Cam at Dernford**1981**

Measuring authority: AWA
First year: 1963

Grid reference: TL 466506
Level stn. (m OD) 14.75

Catchment area (sq km): 194.0
Max alt. (m OD): 137

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg. 0.868	0.748	1.872	1.257	1.275	0.882	0.639	0.687	0.593	0.824	0.763	1.325	0.978
Peak	1.90	1.05	7.08	5.87	5.84	1.33	1.20	2.28	0.97	4.42	2.26	9.88	9.88
Runoff (mm)	12	9	26	17	18	12	9	9	8	11	10	18	159
Rainfall (mm)	35	18	101	54	73	23	71	46	86	67	35	54	663

Monthly and yearly statistics for previous record (Mar 1949 to Dec 1980—Incomplete or missing months total 10.8 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg. 1.347	1.529	1.372	1.201	1.006	0.731	0.586	0.583	0.574	0.660	0.895	1.119	0.964
Flows (m³ s⁻¹)	Low 0.448	0.400	0.488	0.436	0.343	0.266	0.156	0.248	0.132	0.314	0.361	0.356	0.416
Peak	2.308	2.674	2.608	2.431	2.144	1.337	0.960	1.457	1.965	1.625	2.789	1.906	1.506
Peak flow (m³ s⁻¹)	9.66	14.09	10.22	9.94	13.63	3.40	3.60	4.79	10.99	6.12	12.50	11.55	14.09
Runoff (mm)	19	19	19	16	14	10	8	8	8	9	12	15	157
Rainfall (mm)	50	40	43	44	46	46	50	58	51	45	58	56	587
(1964-1980)													

Factors affecting flow regime: GEI

Station type: TP

1981 runoff is 102% of previous mean rainfall 113%

033032 Heacham at Heacham**1981**

Measuring authority AWA
First year 1965

Grid reference TF 685375
Level stn (m OD) 9.37

Catchment area (sq km) 89.3
Max alt (m OD) 88

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 0.336	0.363	0.489	0.511	0.636	0.388	0.259	0.185	0.150	0.134	0.120	0.125	0.308
Peak	0.35	0.43	0.65	0.80	0.82	0.51	0.36	0.53	0.24	0.16	0.14	0.16	0.82
Runoff (mm)	10	10	15	15	19	11	8	6	4	4	3	4	109
Rainfall (mm)	49	27	108	99	65	24	53	47	85	76	43	36	712

Monthly and yearly statistics for previous record (Nov 1965 to Dec 1980—Incomplete or missing months total 0 2 years)

Mean flows (m³ s⁻¹)	Avg 0.223	0.319	0.342	0.316	0.256	0.212	0.170	0.145	0.132	0.123	0.122	0.168	0.210
Low	0.064	0.057	0.071	0.072	0.076	0.060	0.043	0.034	0.033	0.047	0.050	0.058	0.063
High	0.435	0.671	0.671	0.776	0.503	0.400	0.284	0.256	0.371	0.399	0.319	0.305	0.331
Peak flow (m³ s⁻¹)	0.60	0.95	1.04	6.24	0.61	0.90	0.68	1.21	0.52	0.47	0.47	0.43	6.24
Runoff (mm)	7	9	10	9	8	6	5	4	4	4	4	5	74
Rainfall (mm)	57	49	48	48	57	57	62	65	54	51	77	69	694

Factors affecting flow regime: G I

Station type: C

1981 runoff is 146% of previous mean rainfall 103%

033034 Little Ouse at Abbey Heath**1981**

Measuring authority AWA
First year 1968

Grid reference TL 851844
Level stn (m OD) 7.23

Catchment area (sq km) 699.3
Max alt (m OD) 98

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 6.913	4.728	10.070	7.599	6.383	3.616	2.507	1.942	1.723	2.564	2.853	4.322	4.602
Peak	14.73	5.97	22.40	23.52	14.36	4.97	3.43	3.43	2.64	4.56	4.67	21.37	23.52
Runoff (mm)	26	16	39	28	24	13	10	7	6	10	11	17	208
Rainfall (mm)	56	25	100	77	66	33	56	15	72	86	37	58	681

Monthly and yearly statistics for previous record (Jun 1968 to Dec 1980—Incomplete or missing months total 0 1 years)

Mean flows (m³ s⁻¹)	Avg 5.900	7.044	5.843	4.799	3.811	2.597	2.088	1.968	1.596	2.245	3.246	4.487	3.786
Low	2.047	2.14	1.932	2.084	1.851	1.166	0.799	0.62	0.901	1.405	1.465	2.133	1.780
High	9.885	12.010	9.553	8.237	7.676	4.411	3.582	3.347	2.148	6.222	9.033	7.049	5.671
Peak flow (m³ s⁻¹)	20.50	23.81	23.85	16.03	18.30	6.95	7.03	7.62	4.85	12.23	19.41	16.09	23.85
Runoff (mm)	23	25	22	18	15	10	8	8	6	9	12	17	171
Rainfall (mm)	57	41	46	40	44	49	49	50	49	37	65	57	584

Factors affecting flow regime: GEI

Station type: C

1981 runoff is 122% of previous mean rainfall 117%

034001 Yare at Colney**1981**

Measuring authority AWA
First year 1959

Grid reference TG 182082
Level stn (m OD) 8.18

Catchment area (sq km) 231.8
Max alt (m OD) 69

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 2.943	1.736	4.284	3.442	2.108	0.914	0.825	0.546	0.554	0.952	1.062	1.758	1.802
Peak	7.29	3.08	16.90	20.51	5.68	1.46	1.78	0.79	0.93	2.53	1.75	7.68	20.51
Runoff (mm)	34	18	55	38	24	10	10	6	6	11	12	20	246
Rainfall (mm)	61	31	102	104	56	34	75	14	68	83	42	54	724

Monthly and yearly statistics for previous record (Oct 1959 to Dec 1980)

Mean flows (m³ s⁻¹)	Avg 2.596	2.750	2.007	1.638	1.058	0.651	0.567	0.571	0.702	0.838	1.514	2.254	1.422
Low	0.779	0.947	0.842	0.623	0.462	0.285	0.189	0.200	0.272	0.330	0.440	0.714	0.770
High	5.181	4.931	3.568	3.032	2.487	1.267	1.041	1.607	3.420	2.190	3.971	5.905	2.230
Peak flow (m³ s⁻¹)	18.97	18.63	12.01	6.63	10.10	3.46	4.54	6.34	21.61	7.48	11.20	21.15	21.61
Runoff (mm)	30	29	23	18	12	7	7	7	8	10	17	26	194
Rainfall (mm)	57	46	43	46	44	47	56	60	54	56	72	66	647

Factors affecting flow regime: G I

Station type: MIS

1981 runoff is 127% of previous mean rainfall 112%

034018 Stiffkey at Warham All Saints**1981**

Measuring authority AWA
First year 1972

Grid reference TF 944414
Level stn (m OD) 5.30

Catchment area (sq km) 77.1
Max alt (m OD) 95

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 0.937	0.800	1.228	1.417	0.912	0.522	0.452	0.343	0.337	0.434	0.423	0.536	0.895
Peak	2.17	1.54	2.94	10.55	1.50	0.76	1.13	0.65	0.84	1.59	0.85	1.45	10.55
Runoff (mm)	33	25	43	48	32	18	16	12	11	15	14	19	284
Rainfall (mm)	63	34	95	97	57	24	71	24	76	71	46	41	699

Monthly and yearly statistics for previous record (Jan 1976 to Dec 1980—Incomplete or missing months total 0 4 years)

Mean flows (m³ s⁻¹)	Avg 0.812	1.124	0.747	0.561	0.472	0.395	0.489	0.515	0.278	0.334	0.422	0.636	0.563
Low	0.572	0.454	0.353	0.286	0.227	0.125	0.059	0.083	0.206	0.245	0.285	0.430	0.335
High	1.310	2.186	1.031	0.765	0.651	0.617	1.216	0.984	0.339	0.471	0.606	0.864	0.716
Peak flow (m³ s⁻¹)	5.47	12.49	4.90	1.05	1.55	1.44	5.76	3.29	0.49	1.26	1.68	2.72	12.49
Runoff (mm)	28	36	26	19	16	13	17	18	9	12	14	22	230
Rainfall (mm)	72	60	59	37	45	50	47	82	41	53	60	81	687

Factors affecting flow regime: G I

Station type: FV

1981 runoff is 123% of previous mean rainfall 102%

035002 Deben at Naunton Hall**1981**Measuring authority: AWA
First year: 1964Grid reference: TM 322534
Level stn. (m OD) 5.49Catchment area (sq km) 163.1
Max alt. (m OD) 62

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg.	1.575	0.627	3.366	1.627	0.571	0.249	0.211	0.166	0.191	0.409	0.533	1.925
	Peak	6.82	5.75	14.80	16.10	1.77	0.70	0.44	0.87	0.66	2.08	3.82	16.11
Runoff (mm)		26	9	55	26	9	4	3	3	3	8	32	186
Rainfall (mm)		49	33	89	73	57	46	54	13	64	72	40	62

Monthly and yearly statistics for previous record (Aug 1964 to Dec 1980—Incomplete or missing months total 0.6 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg.	1.755	1.690	1.000	0.651	0.385	0.181	0.168	0.172	0.364	0.396	0.977	1.288
	Low	0.259	0.247	0.228	0.176	0.107	0.052	0.044	0.054	0.076	0.139	0.173	0.192
	High	2.894	4.252	2.004	1.251	1.148	0.326	0.405	0.484	2.825	1.222	3.113	3.585
Peak flow (m³ s⁻¹)		17.78	16.71	13.31	13.49	12.80	1.50	3.39	2.61	29.45	8.24	16.86	14.76
Runoff (mm)		29	25	16	10	6	3	3	3	6	6	16	21
Rainfall (mm)		53	41	41	40	41	43	50	48	58	46	67	55

Factors affecting flow regime: R G I

Station type: CC

1981 runoff is 128% of previous mean rainfall 112%

037001 Roding at Redbridge**1981**Measuring authority: TWA
First year: 1950Grid reference: TQ 415884
Level stn. (m OD) 5.72Catchment area (sq km) 303.3
Max alt. (m OD) 117

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg.	1.398	0.825	4.840	2.091	2.502	0.675	0.562	0.650	0.970	1.840	1.800	5.271
	Peak	3.65	2.25	17.40	7.74	11.70	3.94	8.27	6.81	4.98	8.68	9.03	25.20
Runoff (mm)		12	7	43	18	22	6	5	6	8	16	15	47
Rainfall (mm)		32	18	94	44	76	28	62	33	98	66	40	66

Monthly and yearly statistics for previous record (Feb 1950 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg.	3.708	3.707	2.749	1.738	1.177	0.791	0.594	0.611	0.900	1.165	2.129	2.801
	Low	0.675	0.608	0.537	0.482	0.323	0.226	0.280	0.224	0.197	0.283	0.412	0.412
	High	7.282	10.670	6.858	4.484	4.045	2.953	1.975	1.315	4.012	6.834	10.340	9.454
Peak flow (m³ s⁻¹)		34.74	30.80	38.08	27.72	32.70	21.70	24.50	19.81	25.62	30.52	62.41	36.40
Runoff (mm)		33	30	24	15	10	7	5	5	8	10	18	25
Rainfall (mm)		51	45	44	42	46	50	52	59	59	53	64	57

Factors affecting flow regime: S EI

Station type: EW

1981 runoff is 107% of previous mean rainfall 106%

037005 Colne at Lexden**1981**Measuring authority: AWA
First year: 1959Grid reference: TL 962261
Level stn. (m OD) 8.23Catchment area (sq km) 238.2
Max alt. (m OD) 114

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg.	0.982	0.679	3.015	1.338	1.816	0.631	0.431	0.348	0.435	0.785	0.856	2.683
	Peak	2.37	2.19	14.49	7.81	7.85	1.64	0.73	1.00	1.00	3.94	4.47	20.58
Runoff (mm)		11	7	34	15	20	7	5	4	5	9	9	155
Rainfall (mm)		28	20	83	49	86	36	44	23	82	63	37	65

Monthly and yearly statistics for previous record (Oct 1959 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg.	1.965	1.911	1.706	1.125	0.723	0.414	0.333	0.315	0.377	0.634	1.149	1.448
	Low	0.460	0.346	0.380	0.358	0.229	0.146	0.100	0.095	0.119	0.221	0.288	0.352
	High	3.737	4.640	3.671	2.451	1.635	0.857	0.687	0.554	1.098	3.930	5.521	4.200
Peak flow (m³ s⁻¹)		13.92	22.02	23.80	13.34	12.56	4.74	4.00	2.38	10.50	7.89	20.34	11.48
Runoff (mm)		22	20	19	12	8	5	4	4	4	7	13	133
Rainfall (mm)		48	37	42	41	40	44	47	51	53	49	61	54

Factors affecting flow regime: EI

Station type: FL

1981 runoff is 117% of previous mean rainfall 109%

037008 Chelmer at Springfield**1981**

Measuring authority: AWA

First year: 1965

Grid reference: TL 713071

Catchment area (sq km) 190.3

Max alt. (m OD) 125

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg.	0.822	0.549	2.494	1.074	1.322	0.562	0.409	0.358	0.423	0.723	0.714	2.337
	Peak	2.08	0.81	11.67	5.09	8.06	1.51	1.41	0.89	1.11	4.42	3.81	20.85
Runoff (mm)		12	7	35	15	19	8	6	5	6	10	10	164
Rainfall (mm)		31	18	86	44	81	31	56	25	88	61	36	64

Monthly and yearly statistics for previous record (Dec 1965 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg.	1.986	2.003	1.590	1.006	0.763	0.458	0.361	0.382	0.442	0.606	1.023	1.516
	Low	0.395	0.406	0.376	0.378	0.310	0.200	0.183	0.178	0.291	0.264	0.302	0.387
	High	3.378	3.891	3.067	1.964	1.972	0.810	0.507	0.705	1.264	2.152	4.536	4.006
Peak flow (m³ s⁻¹)		14.30	26.61	21.75	10.92	18.78	3.95	1.56	3.22	9.75	9.24	25.30	15.43
Runoff (mm)		28	26	22	14	11	6	5	5	6	9	14	167
Rainfall (mm)		51	41	44	39	44	46	43	53	50	45	63	56

Factors affecting flow regime: EI

Station type: EW

1981 runoff is 98% of previous mean rainfall 108%

037010 Blackwater at Appleford Bridge 1981

Measuring authority: AWA
First year: 1962

Grid reference: TL 845158
Level stn. (m OD) 14.55

Catchment area (sq km): 247.3
Max alt. (m OD): 127

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 0.966	0.687	3.082	1.334	1.606	0.675	0.571	0.471	0.557	0.946	0.983	2.874	1.228
	Peak 2.91	1.49	13.00	8.41	7.79	1.64	1.47	0.92	1.22	4.68	4.05	19.00	18.00
Runoff (mm)	10	7	33	14	17	7	6	5	6	10	10	31	158
Rainfall (mm)	30	20	85	46	84	34	51	26	85	63	38	64	826

Monthly and yearly statistics for previous record (Oct 1962 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg 1.994	2.110	2.015	1.401	0.970	0.681	0.501	0.457	0.520	0.637	1.108	1.559	1.158
	Low 0.532	0.460	0.479	0.479	0.341	0.356	0.182	0.161	0.215	0.296	0.325	0.379	0.822
	High 3.916	4.696	3.583	2.698	2.185	1.271	1.007	0.837	1.538	1.955	4.532	4.307	1.627
Peak flow (m³ s⁻¹)	14.10	19.00	21.71	11.19	12.80	5.74	2.63	3.28	11.44	8.39	19.60	11.80	21.71
Runoff (mm)	22	21	22	15	11	7	5	5	5	7	12	17	148
Rainfall (mm)	46	37	46	44	43	50	46	52	51	43	62	51	571

Factors affecting flow regime: EI

Station type: FL

1981 runoff is 107% of previous mean rainfall 110%

037014 Roding at High Ongar 1981

Measuring authority: TWA
First year: 1963

Grid reference: TL 561040
Level stn. (m OD) 41.00

Catchment area (sq km): 95.1
Max alt. (m OD): 113

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 0.260	0.160	1.298	0.476	0.680	0.152	0.056	0.060	0.114	0.326	0.356	1.909	0.487
	Peak 0.83	0.32	9.29	2.74	5.66	0.66	0.10	0.24	0.60	1.97	2.20	21.90	21.80
Runoff (mm)	7	4	37	13	19	4	2	2	3	9	10	54	183
Rainfall (mm)	35	18	95	46	78	30	53	38	97	61	38	64	853

Monthly and yearly statistics for previous record (Dec 1963 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg 1.168	1.110	0.882	0.444	0.316	0.108	0.049	0.070	0.168	0.225	0.556	0.749	0.484
	Low 0.081	0.077	0.066	0.065	0.034	0.015	0.002	0.004	0.013	0.029	0.044	0.065	0.071
	High 1.980	2.598	1.982	0.973	1.471	0.291	0.075	0.297	1.320	1.983	4.637	2.745	0.926
Peak flow (m³ s⁻¹)	8.50	25.40	15.87	10.69	25.60	2.65	0.30	12.20	20.02	9.25	36.05	17.70	38.05
Runoff (mm)	33	28	25	12	9	3	1	2	5	6	15	21	161
Rainfall (mm)	51	41	48	45	45	50	45	56	50	47	65	55	588

Factors affecting flow regime: G

Station type: EW

1981 runoff is 102% of previous mean rainfall 109%

038021 Turkey Brook at Albany Park 1981

Measuring authority: TWA
First year: 1971

Grid reference: TQ 359985
Level stn. (m OD) 16.60

Catchment area (sq km): 42.2
Max alt. (m OD): 127

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 0.157	0.043	0.655	0.238	0.327	0.104	0.059	0.062	0.136	0.231	0.168	0.558	0.228
	Peak 0.97	0.41	5.08	3.01	4.43	5.17	1.95	2.36	2.51	5.65	2.18	4.58	5.65
Runoff (mm)	10	2	42	15	21	6	4	4	8	15	10	35	172
Rainfall (mm)	37	18	110	48	85	31	79	37	106	69	42	75	737

Monthly and yearly statistics for previous record (Sep 1971 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg 0.410	0.453	0.367	0.181	0.197	0.062	0.042	0.053	0.058	0.100	0.220	0.302	0.203
	Low 0.037	0.042	0.024	0.020	0.014	0.021	0.013	0.008	0.019	0.016	0.019	0.086	0.057
	High 0.760	0.988	0.811	0.626	0.626	0.120	0.087	0.171	0.228	0.410	1.158	0.605	0.339
Peak flow (m³ s⁻¹)	10.51	9.74	5.14	6.59	20.69	3.35	2.12	2.08	7.55	4.39	12.75	10.51	20.69
Runoff (mm)	26	26	23	11	13	4	3	3	4	6	14	19	151
Rainfall (mm)	60	51	58	44	52	47	39	52	64	50	63	64	644

Factors affecting flow regime: G

Station type: FV

1981 runoff is 114% of previous mean rainfall 114%

039002 Thames at Days Weir 1981

Measuring authority: TWA
First year: 1938

Grid reference: SU 568935
Level stn. (m OD) 46.02

Catchment area (sq km): 3444.7
Max alt. (m OD): 330

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 30.780	20.260	88.670	45.500	40.040	26.400	10.660	9.677	11.930	30.270	25.930	46.200	32.193
	Peak 24	14	69	34	31	20	8	8	9	24	20	36	286
Runoff (mm)	38	28	128	48	93	33	39	55	127	73	40	82	784
Rainfall (mm)	67	49	51	46	58	54	55	70	60	62	72	68	712

Monthly and yearly statistics for previous record (Oct 1938 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg 55.500	58.910	46.070	30.250	19.990	14.100	8.671	7.359	9.063	15.350	31.900	44.980	28.357
	Low 6.250	5.554	5.620	4.253	2.855	1.502	0.399	0.296	1.741	2.778	4.040	5.312	10.095
	High 133.600	120.800	163.200	85.070	41.930	41.560	48.820	18.690	38.630	74.570	128.100	128.700	51.292
Peak flow (m³ s⁻¹)	43	42	36	23	16	11	7	6	7	12	24	35	260
Runoff (mm)	67	49	51	46	58	54	55	70	60	62	72	68	712

Factors affecting flow regime: PEI

Station type: MIS

1981 runoff is 114% of previous mean rainfall 110%

039011 Wey at Tilford**1981**

Measuring authority: TWA
First year: 1954

Grid reference: SU 874433
Level stn. (m OD) 48.20

Catchment area (sq km): 396.3
Max alt. (m OD) 280

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 2.737	2.311	5.670	3.262	3.581	2.882	1.973	1.877	2.707	3.769	2.897	4.693	3.196
Peak	4.37	4.22	17.30	7.94	18.90	19.30	3.91	5.67	15.10	13.20	6.36	15.50	19.30
Runoff (mm)	18	14	38	21	24	19	13	13	18	25	19	32	255
Rainfall (mm)	43	32	159	45	110	47	62	30	169	104	45	107	953

Monthly and yearly statistics for previous record (Oct 1954 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 5.339	4.736	4.231	3.621	3.432	2.641	2.059	1.912	2.270	2.800	3.864	4.493	3.444
Flows (m³ s⁻¹)	Low 1.808	1.954	1.662	1.524	1.400	1.214	1.089	0.885	0.905	1.327	1.261	1.898	1.686
Peak	9.943	9.423	7.083	5.902	5.884	6.084	3.220	3.081	7.383	9.631	11.590	9.745	5.267
Peak flow (m³ s⁻¹)	43.10	42.60	41.60	26.00	31.30	36.00	34.60	12.40	79.00	44.50	38.70	52.10	79.00
Runoff (mm)	36	29	29	24	23	17	14	13	15	19	25	30	274
Rainfall (mm)	91	59	63	52	61	53	61	70	81	79	94	94	858

Factors affecting flow regime: G
Station type: C

1981 runoff is 93% of previous mean rainfall 111%

039014 Ver at Hansteads**1981**

Measuring authority: TWA
First year: 1956

Grid reference: TL 151016
Level stn. (m OD) 61.34

Catchment area (sq km): 132.0
Max alt. (m OD) 243

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 0.288	0.235	0.416	0.372	0.408	0.360	0.252	0.274	0.232	0.282	0.278	0.350	0.312
Peak	0.66	0.41	0.97	0.85	0.93	1.06	0.66	0.58	0.73	1.09	0.86	0.70	1.09
Runoff (mm)	6	4	8	7	8	7	5	6	5	6	5	7	75
Rainfall (mm)	41	19	121	55	88	38	64	40	100	74	47	69	756

Monthly and yearly statistics for previous record (Oct 1956 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 0.491	0.565	0.602	0.576	0.509	0.435	0.377	0.336	0.299	0.310	0.370	0.421	0.440
Flows (m³ s⁻¹)	Low 0.126	0.190	0.138	0.114	0.069	0.045	0.028	0.016	0.025	0.057	0.039	0.048	0.095
Peak	0.981	1.336	1.312	1.254	1.028	0.857	0.652	0.564	0.660	0.668	0.791	0.977	0.752
Peak flow (m³ s⁻¹)	1.77	1.91	1.88	1.90	2.07	1.65	1.44	1.13	2.34	1.35	2.31	2.64	2.64
Runoff (mm)	10	10	12	11	10	9	8	7	6	6	7	9	105
Rainfall (mm)	63	50	55	50	51	58	54	60	62	62	67	74	706

Factors affecting flow regime: G
Station type: CC

1981 runoff is 71% of previous mean rainfall 107%

039016 Kennet at Theale**1981**

Measuring authority: TWA
First year: 1961

Grid reference: SU 649708
Level stn. (m OD) 43.37

Catchment area (sq km): 1033.4
Max alt. (m OD) 297

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 8.355	7.927	17.100	15.890	14.670	12.260	9.154	7.163	7.085	8.445	8.306	12.370	10.727
Peak	10.50	9.45	29.40	25.50	20.00	17.40	11.40	13.60	27.20	15.90	13.80	25.80	29.40
Runoff (mm)	22	19	44	40	38	31	24	19	18	22	21	32	328
Rainfall (mm)	37	32	162	44	94	39	58	32	132	87	49	102	868

Monthly and yearly statistics for previous record (Oct 1961 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 12.590	14.500	14.670	12.580	10.210	8.453	6.407	5.755	5.375	6.023	7.974	9.940	9.513
Flows (m³ s⁻¹)	Low 4.144	4.401	4.190	3.429	2.739	2.041	1.620	1.377	2.787	3.897	3.943	5.159	4.056
Peak	22.680	22.720	22.010	19.790	15.430	18.600	11.120	9.542	10.000	13.970	17.710	18.240	12.882
Peak flow (m³ s⁻¹)	48.30	44.80	44.30	31.70	30.10	20.80	19.00	19.40	33.40	29.40	43.50	47.30	70.80
Runoff (mm)	33	34	38	32	26	21	17	15	13	16	20	26	290
Rainfall (mm)	73	53	66	52	61	63	49	71	67	61	75	79	770

Factors affecting flow regime: R G I
Station type: C

1981 runoff is 113% of previous mean rainfall 113%

039019 Lambourn at Shaw**1981**

Measuring authority: TWA
First year: 1962

Grid reference: SU 470682
Level stn. (m OD) 75.59

Catchment area (sq km): 234.1
Max alt. (m OD) 261

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 1.627	1.721	2.248	2.925	2.881	2.764	2.310	1.798	1.471	1.488	1.562	1.897	2.058
Peak	1.94	1.90	2.91	3.54	3.40	3.14	2.81	3.20	2.38	1.92	2.08	3.08	3.54
Runoff (mm)	19	18	26	32	33	31	26	21	16	17	17	22	277
Rainfall (mm)	34	29	161	47	102	35	63	34	124	85	47	108	869

Monthly and yearly statistics for previous record (Oct 1962 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 1.625	2.074	2.431	2.402	2.120	1.827	1.507	1.296	1.177	1.156	1.237	1.391	1.684
Flows (m³ s⁻¹)	Low 0.826	0.796	0.743	0.695	0.639	0.573	0.538	0.485	0.681	0.683	0.757	0.855	0.739
Peak	3.410	3.618	3.583	3.550	2.979	2.607	2.359	2.048	1.699	1.921	2.392	2.551	2.151
Peak flow (m³ s⁻¹)	3.93	4.20	4.39	4.08	3.76	4.34	3.06	3.54	3.75	3.17	5.07	3.72	5.02
Runoff (mm)	19	22	28	27	24	20	17	15	13	13	14	18	227
Rainfall (mm)	66	52	64	50	60	62	50	68	62	56	74	74	738

Factors affecting flow regime: R G
Station type: C

1981 runoff is 122% of previous mean rainfall 118%

039022 Loddon at Sheepbridge**1981**

Measuring authority TWA
First year 1965

Grid reference SU 720652
Level stn (m OD) 42 36

Catchment area (sq km) 164.5
Max alt (m OD) 225

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 2 065	1 642	4 216	2 378	2 296	1 796	1 282	1 205	1 474	2 058	1 998	3 575	2 165
Peak	3 33	2 55	11 90	7 47	10 60	6 94	1 78	2 68	7 18	7 00	4 08	14 50	14 50
Runoff (mm)	34	24	69	37	37	28	21	20	23	34	31	58	417
Rainfall (mm)	40	25	139	44	93	40	59	33	140	82	45	94	834

Monthly and yearly statistics for previous record (Oct 1965 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg 3 300	3 330	2 919	2 359	2 067	1 646	1 242	1 198	1 310	1 547	2 098	2 660	2 134
Low	1 230	1 266	1 160	988	873	0 730	0 661	0 590	0 777	0 839	0 863	1 225	1 207
High	5 366	5 067	4 495	4 026	3 433	4 166	1 563	1 544	3 487	3 021	5 989	4 348	2 599
Peak flow (m³ s⁻¹)	22 40	21 20	16 40	13 70	14 90	24 90	3 55	6 58	26 40	14 30	22 70	16 80	26 40
Runoff (mm)	54	49	48	37	34	26	20	20	21	25	33	43	409
Rainfall (mm)	77	60	59	49	60	55	49	62	67	62	80	78	758

Factors affecting flow regime: GEI

Station type: C

1981 runoff is 102% of previous mean rainfall 110%

039023 Wye at Hedsor**1981**

Measuring authority TWA
First year 1964

Grid reference SU 896867
Level stn (m OD) 26 82

Catchment area (sq km) 137.3
Max alt (m OD) 244

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 0 905	0 926	1 195	1 214	1 286	1 356	1 261	1 314	1 176	1 121	1 035	1 100	1 157
Peak	1 64	1 29	1 90	1 86	2 15	2 74	2 60	4 17	4 43	2 73	2 23	1 63	4 43
Runoff (mm)	18	16	23	23	25	26	25	26	22	22	20	21	286
Rainfall (mm)	54	23	133	55	109	39	50	57	121	85	45	88	858

Monthly and yearly statistics for previous record (Dec 1964 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg 0 897	1 003	1 103	1 148	1 137	1 086	0 988	0 943	0 849	0 797	0 801	0 828	0 965
Low	0 419	0 484	0 488	0 470	0 432	0 380	0 370	0 314	0 381	0 395	0 375	0 340	0 442
High	1 506	1 675	1 800	1 891	1 842	1 531	1 434	1 317	1 182	1 180	1 329	1 260	1 365
Peak flow (m³ s⁻¹)	3 04	2 76	3 21	3 26	3 10	2 94	2 94	3 79	3 13	2 87	2 79	2 85	3 79
Runoff (mm)	17	18	22	22	22	21	19	18	16	16	15	16	222
Rainfall (mm)	71	55	58	52	61	63	60	70	68	59	70	77	764

Factors affecting flow regime: G I

Station type: C

1981 runoff is 120% of previous mean rainfall 112%

039026 Cherwell at Banbury**1981**

Measuring authority TWA
First year 1966

Grid reference SP 458411
Level stn (m OD) 88 85

Catchment area (sq km) 199.4
Max alt (m OD) 222

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 1 561	0 957	3 919	1 737	1 245	0 757	0 161	0 980	0 833	1 523	1 095	2 382	1 428
Peak	8 01	6 24	14 70	12 00	5 64	9 08	0 34	17 20	7 25	9 00	3 53	24 00	24 00
Runoff (mm)	21	12	53	23	17	10	2	13	11	20	14	32	227
Rainfall (mm)	44	31	105	54	86	30	23	107	127	73	36	61	777

Monthly and yearly statistics for previous record (Dec 1966 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg 2 537	2 633	2 087	0 892	0 798	0 435	0 276	0 382	0 237	0 432	0 809	1 897	1 113
Low	0 074	0 049	0 031	0 012	0 010	0 008	0 004	0 009	0 016	0 013	0 018	0 056	0 269
High	5 019	5 320	4 781	2 030	2 076	1 434	1 869	1 343	1 532	1 715	2 828	3 967	1 672
Peak flow (m³ s⁻¹)	23 60	45 90	46 40	8 86	11 20	16 90	27 20	7 91	7 08	8 47	18 20	54 10	64 10
Runoff (mm)	34	32	28	12	11	6	4	5	3	6	11	25	178
Rainfall (mm)	67	50	62	36	53	64	57	71	51	45	58	68	682

(1970-1980)

Factors affecting flow regime: P

Station type: CC

1981 runoff is 129% of previous mean rainfall 114%

039049 Silk Stream at Colindale Lane**1981**

Measuring authority GLC
First year 1973

Grid reference TQ 217895
Level stn (m OD) 39.90

Catchment area (sq km) 29.0
Max alt (m OD) 146

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 0 204	0 102	0 613	0 265	0 408	0 163	0 187	0 200	0 276	0 376	0 233	0 422	0 287
Peak	1 95												
Runoff (mm)	19	8	57	24	38	15	17	18	25	35	21	39	315
Rainfall (mm)	35	16	113	45	91	40	63	37	106	77	43	74	740

Monthly and yearly statistics for previous record (Dec 1973 to Dec 1980)—incomplete or missing months total 4.0 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 0 363	0 416	0 435	0 267	0 236	0 179	0 130	0 105	0 071	0 278	0 465	0 311	0 271
Low	0 200	0 353	0 197	0 030	0 035	0 105	0 047	0 079	0 057	0 154	0 143	0 143	0 216
High	0 564	0 474	0 677	0 573	0 584	0 280	0 213	0 120	0 086	0 350	1 086	0 659	0 216
Peak flow (m³ s⁻¹)	9 00	4 85	8 89	10 26	11 80	7 59	16 53	10 11	3 83	16 56	24 27	36 31	38 31
Runoff (mm)	34	35	40	24	22	16	12	10	6	28	42	29	296
Rainfall (mm)	59	50	60	43	55	53	38	56	70	59	62	68	673

Factors affecting flow regime:

Station type: FV

1981 runoff is 107% of previous mean rainfall 110%

039069 Mole at Kinnersley Manor**1981**

Measuring authority: TWA
First year: 1972

Grid reference: TQ 262462
Level stn. (m OD) 48.00

Catchment area (sq km): 142.0
Max alt. (m OD): 178

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	1.434	0.830	4.668	1.611	3.230	1.276	0.432	0.979	2.061	2.912	1.865	4.340	2.138
Peak	3.32	2.42	17.40	10.30	28.40	17.70	1.60	26.10	18.40	16.20	11.20	30.00	30.00
Runoff (mm)	27	14	88	29	61	23	8	18	38	55	34	82	478
Rainfall (mm)													

Monthly and yearly statistics for previous record (Dec 1972 to Dec 1980—Incomplete or missing months total 1.5 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	3.627	3.647	2.429	1.447	1.489	0.892	0.642	0.680	1.201	1.153	2.078	3.431	1.885
Flows Low	1.364	1.302	0.833	0.388	0.305	0.221	0.296	0.169	0.281	0.207	0.260	1.100	0.850
(m³ s⁻¹) High	5.578	5.883	4.082	3.397	3.552	1.874	1.709	1.763	5.419	2.644	5.668	5.474	2.244
Peak flow (m³ s⁻¹)	41.30	46.50	20.10	47.00	32.90	23.30	14.90	29.80	40.70	23.90	56.10	68.50	68.50
Runoff (mm)	68	62	46	26	28	16	12	13	22	22	38	65	419
Rainfall (mm)													

Factors affecting flow regime:
Station type: MIS

1981 runoff is 114% of previous mean

040003 Medway at Teston**1981**

Measuring authority: SWA
First year: 1956

Grid reference: TQ 708530
Level stn. (m OD) 7.01

Catchment area (sq km): 1256.1
Max alt. (m OD): 267

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	7.560	5.259	25.040	9.096	13.040	5.286	3.055	3.836	8.708	15.420	10.000	27.060	11.113
Peak													
Runoff (mm)	16	10	53	19	28	11	7	8	18	33	21	58	281
Rainfall (mm)	31	19	113	31	95	41	45	40	134	101	44	92	786

Monthly and yearly statistics for previous record (Oct 1956 to Dec 1980—Incomplete or missing months total 1.5 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	22.800	20.870	14.790	10.070	6.729	4.705	2.880	3.217	5.385	6.934	16.430	19.030	11.102
Flows Low	4.910	5.628	3.382	2.326	1.749	1.139	1.116	0.577	1.066	1.402	2.341	4.362	7.584
(m³ s⁻¹) High	45.370	49.150	31.600	21.370	20.820	21.690	7.550	7.888	30.090	37.860	66.830	37.330	19.327
Peak flow (m³ s⁻¹)	162.50	148.70	169.30	105.90	58.90	128.60	23.82	60.60	86.93	154.00	294.50	202.50	294.50
Runoff (mm)	49	41	32	21	14	10	6	7	11	15	34	41	279
Rainfall (mm)	72	54	54	49	51	55	55	61	73	68	84	81	757

Factors affecting flow regime: S PG
Station type: MIS

1981 runoff is 101% of previous mean
rainfall 104%**040004 Rother at Udiham****1981**

Measuring authority: SWA
First year: 1962

Grid reference: TQ 773245
Level stn. (m OD) 1.94

Catchment area (sq km): 206.0
Max alt. (m OD): 197

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	1.270	0.792	5.434	1.907	2.567	1.029	0.512	0.819	1.724	3.990	2.292	4.577	2.226
Peak	2.85	2.76	19.26	6.05	11.92	3.47	2.11	8.04	15.57	14.15	11.56	21.02	21.02
Runoff (mm)	17	9	71	24	33	13	7	8	22	52	29	60	343
Rainfall (mm)	29	27	148	39	100	50	44	31	149	135	48	99	899

Monthly and yearly statistics for previous record (Oct 1962 to Dec 1980—Incomplete or missing months total 1.8 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	3.563	3.745	3.164	2.176	1.376	1.079	0.499	0.604	0.932	1.307	3.080	3.227	2.053
Flows Low	0.945	0.919	0.657	0.343	0.338	0.268	0.231	0.182	0.245	0.179	0.184	0.427	0.756
(m³ s⁻¹) High	6.957	10.370	6.927	4.533	2.433	4.157	0.834	1.823	3.952	5.708	12.360	9.547	3.322
Peak flow (m³ s⁻¹)	37.96	44.74	49.84	25.43	24.09	23.08	12.74	14.36	33.98	29.17	50.43	51.82	51.82
Runoff (mm)	46	44	41	27	18	14	6	8	12	17	39	42	314
Rainfall (mm)	82	68	68	57	57	66	53	65	79	74	103	87	859

Factors affecting flow regime: S GE
Station type: VA

1981 runoff is 109% of previous mean
rainfall 105%**040009 Teise at Stone Bridge****1981**

Measuring authority: SWA
First year: 1961

Grid reference: TQ 718399
Level stn. (m OD) 24.50

Catchment area (sq km): 136.2
Max alt. (m OD): 201

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	0.897	0.940	2.480	1.203	1.542	0.875	0.834	0.949	1.486	1.844	1.249	2.979	1.440
Peak	1.66	2.21	21.24	4.09	8.56	2.09	1.42	10.40	15.58	7.90	7.95	19.72	21.24
Runoff (mm)	18	17	49	23	30	17	16	19	28	36	24	59	335
Rainfall (mm)	30	22	133	37	98	44	51	39	157	111	45	97	864

Monthly and yearly statistics for previous record (Oct 1961 to Dec 1980—Incomplete or missing months total 0.2 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	2.491	2.278	1.948	1.397	1.065	0.770	0.451	0.438	0.619	0.896	1.813	1.930	1.337
Flows Low	0.553	0.522	0.413	0.323	0.239	0.130	0.231	0.100	0.170	0.128	0.276	0.471	0.559
(m³ s⁻¹) High	5.757	6.241	3.928	2.781	2.306	2.628	0.977	1.021	2.359	3.173	6.344	5.334	2.101
Peak flow (m³ s⁻¹)	41.63	48.27	34.43	24.78	38.95	29.22	13.87	10.61	23.88	29.17	47.12	48.29	48.29
Runoff (mm)	49	41	38	27	21	15	9	9	12	18	35	38	310
Rainfall (mm)	76	58	64	53	56	59	49	60	75	68	91	82	791

Factors affecting flow regime: PGE
Station type: B VA

1981 runoff is 108% of previous mean
rainfall 109%

041001 Nunningham Stream at Tilley Bridge 1981

Measuring authority SWA
First year 1950

Grid reference TQ 662129
Level stn (m OD) 3 80

Catchment area (sq km) 16.9
Max alt. (m OD) 137

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg	0.115	0.100	0.562	0.228	0.168	0.072	0.033	0.018	0.061	0.439	0.238	0.508	0.212
	Peak	0.67	0.67	4.97	1.04	1.52	0.34	0.10	0.04	1.30	6.77	4.88	8.67	8.67
Runoff (mm)		18	14	89	35	27	11	5	3	9	70	36	80	398
Rainfall (mm)		27	26	127	38	95	51	28	33	120	150	44	91	830

Monthly and yearly statistics for previous record (Apr 1950 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Mean flows (m³ s⁻¹)	Avg	0.403	0.350	0.239	0.140	0.080	0.055	0.035	0.042	0.059	0.114	0.308	0.334	0.178
	Low	0.076	0.094	0.054	0.034	0.023	0.012	0.011	0.008	0.009	0.013	0.019	0.033	0.053
	High	0.865	0.958	0.577	0.296	0.195	0.319	0.210	0.125	0.359	0.576	1.017	1.082	0.306
Peak flow (m³ s⁻¹)		8.82	8.60	8.49	5.94	6.20	7.92	1.89	9.32	8.92	8.82	11.90	8.84	11.80
Runoff (mm)		64	50	38	21	13	8	5	7	9	78	47	53	334
Rainfall (mm)		79	73	60	54	55	61	58	73	78	75	98	90	854

Factors affecting flow regime: N

Station type: MIS

1981 runoff is 119% of previous mean rainfall 97%

041005 Ouse at Gold Bridge 1981

Measuring authority SWA
First year 1960

Grid reference TQ 429214
Level stn (m OD) 11.43

Catchment area (sq km) 180.9
Max alt. (m OD) 203

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg	1.916	1.442	6.888	2.475	3.215	1.556	0.714	0.949	2.536	3.979	2.716	4.749	2.761
	Peak	3.35	3.19	29.10	8.62	10.35	9.50	1.99	10.20	112.00	9.92	9.40	109.30	112.00
Runoff (mm)		28	19	102	35	48	22	11	14	36	59	39	70	484
Rainfall (mm)		33	26	147	38	111	40	39	68	175	113	46	93	929

Monthly and yearly statistics for previous record (Mar 1960 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Mean flows (m³ s⁻¹)	Avg	4.209	3.733	2.911	2.201	1.684	1.071	0.618	0.674	1.075	1.601	3.539	3.393	2.217
	Low	1.142	1.240	0.793	0.611	0.451	0.283	0.217	0.157	0.230	0.275	0.384	0.846	0.934
	High	7.762	8.214	5.672	4.318	3.657	3.829	1.903	2.088	4.296	6.602	12.030	7.657	3.261
Peak flow (m³ s⁻¹)		46.80	71.85	29.86	31.57	26.35	27.91	16.52	33.15	49.01	47.59	86.92	81.06	86.92
Runoff (mm)		62	50	43	32	25	15	9	10	15	24	51	50	387
Rainfall (mm)		87	62	64	61	59	64	55	67	85	79	106	89	878

Factors affecting flow regime: SRPGE

Station type: CBVA

1981 runoff is 125% of previous mean rainfall 106%

041006 Uck at Isfield 1981

Measuring authority SWA
First year 1964

Grid reference TQ 459190
Level stn (m OD) 11.28

Catchment area (sq km) 87.8
Max alt. (m OD) 221

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg	0.776	0.643	3.317	1.016	1.403	0.589	0.365	0.400	1.790	1.904	1.219	2.936	1.363
	Peak	1.87	1.43	39.12	3.48	9.44	2.11	1.21	10.72	36.40	16.08	7.60	47.49	47.49
Runoff (mm)		24	18	101	30	43	17	11	12	53	58	36	90	493
Rainfall (mm)		29	25	135	37	104	42	44	37	156	123	42	94	868

Monthly and yearly statistics for previous record (Oct 1964 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Mean flows (m³ s⁻¹)	Avg	2.059	2.010	1.289	1.014	0.724	0.506	0.353	0.318	0.546	0.736	1.540	1.766	1.066
	Low	0.579	0.627	0.413	0.324	0.252	0.170	0.142	0.106	0.170	0.160	0.211	0.342	0.480
	High	4.020	4.195	2.385	2.162	1.420	1.657	-1.489	0.827	2.868	2.527	6.536	4.034	1.945
Peak flow (m³ s⁻¹)		40.75	75.63	31.96	23.68	21.86	29.59	46.63	9.72	35.86	37.31	64.43	55.58	75.83
Runoff (mm)		63	56	39	30	22	15	11	10	16	22	45	54	383
Rainfall (mm)		83	67	61	50	55	69	53	65	78	70	95	85	831

Factors affecting flow regime: E

Station type: C

1981 runoff is 129% of previous mean rainfall 104%

041025 Loxwood Stream at Drungewick 1981

Measuring authority SWA
First year 1972

Grid reference TQ 060309
Level stn (m OD) 13.15

Catchment area (sq km) 91.6
Max alt. (m OD) 260

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg	0.810	0.419	3.832	1.639	2.527	1.334	0.096	0.488	1.204	1.901	0.881	2.843	1.488
	Peak	2.21	2.75	21.38	27.33	27.54	36.90	0.15	19.38	25.29	17.68	4.17	30.86	36.90
Runoff (mm)		24	11	112	46	74	38	3	14	34	56	25	83	520
Rainfall (mm)		34	26	134	57	113	50	43	58	153	100	44	92	899

Monthly and yearly statistics for previous record (Jan 1972 to Dec 1980—Incomplete or missing months total 0.1 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Mean flows (m³ s⁻¹)	Avg	2.362	1.948	1.525	0.870	0.711	0.176	0.112	0.156	0.509	0.781	1.283	2.334	1.061
	Low	0.266	0.375	0.196	0.116	0.078	0.041	0.032	0.018	0.043	0.044	0.062	0.618	0.311
	High	4.264	3.497	3.133	2.680	2.799	0.469	0.227	0.685	2.470	2.641	4.748	4.536	1.493
Peak flow (m³ s⁻¹)		34.88	36.49	31.33	41.61	32.73	4.07	5.66	22.48	36.44	35.26	34.58	56.75	58.75
Runoff (mm)		69	52	45	25	21	5	3	5	14	23	36	68	366
Rainfall (mm)		88	59	67	46	54	60	49	57	77	71	78	92	798

Factors affecting flow regime: N

Station type: CC

1981 runoff is 142% of previous mean rainfall 113%

042003 Lymington at Brockenhurst Park**1981**

Measuring authority: SWA
First year: 1960

Grid reference: SU 318019
Level stn. (m OD) 6.10

Catchment area (sq km) 98.9
Max alt. (m OD) 114

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	0.849	1.182	3.089	1.169	1.484	0.709	0.257	0.135	0.872	1.454	0.862	1.883	1.162
Peak	2.97	8.11	8.44	8.32	8.07	6.85	5.10	1.95	8.47	8.24	4.11	8.33	8.47
Runoff (mm)	23	29	84	31	40	19	7	4	23	39	23	51	371
Rainfall (mm)	30	48	146	46	91	42	58	9	171	85	39	104	869

Monthly and yearly statistics for previous record (Oct 1960 to Dec 1980—Incomplete or missing months total 0 2 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	1.871	1.807	1.385	0.991	0.805	0.448	0.258	0.290	0.498	1.033	1.428	1.520	1.024
Low	0.330	0.439	0.327	0.168	0.128	0.042	0.013	0.014	0.084	0.128	0.198	0.541	0.407
High	3.773	3.459	2.957	2.169	1.569	1.247	1.603	0.847	2.308	4.841	5.283	3.294	1.340
Peak flow (m³ s⁻¹)	9.91	13.62	8.64	7.85	13.98	7.85	11.38	8.16	4.16	11.28	13.54	14.91	14.91
Runoff (mm)	51	45	38	26	22	12	7	8	13	28	37	41	327
Rainfall (mm)	91	63	65	53	61	57	43	66	77	81	95	89	841

Factors affecting flow regime: N
Station type: VN

1981 runoff is 114% of previous mean rainfall 103%

042006 Meon at Mislingford**1981**

Measuring authority: SWA
First year: 1958

Grid reference: SU 589141
Level stn. (m OD) 29.33

Catchment area (sq km) 72.8
Max alt. (m OD) 233

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	0.990	0.841	1.848	1.988	1.381	1.120	0.800	0.501	0.443	0.905	1.181	1.330	1.111
Peak	1.21	1.17	2.58	2.83	1.93	1.50	1.18	0.77	0.96	1.50	1.41	1.98	2.83
Runoff (mm)	36	28	68	71	51	40	29	18	16	33	42	49	482
Rainfall (mm)	45	48	181	47	124	39	48	20	191	123	45	113	1024

Monthly and yearly statistics for previous record (Oct 1958 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	1.493	1.812	1.678	1.353	1.023	0.741	0.535	0.407	0.366	0.546	0.861	1.112	0.989
Low	0.463	0.480	0.427	0.335	0.164	0.120	0.079	0.068	0.102	0.110	0.124	0.186	0.334
High	3.470	3.300	2.820	1.878	1.738	1.220	0.827	0.657	0.882	2.309	4.126	3.917	1.807
Peak flow (m³ s⁻¹)	3.25	4.02	3.26	2.55	2.06	1.42	1.16	1.08	0.96	0.72	2.83	2.59	4.02
Runoff (mm)	55	61	62	48	38	26	20	15	13	20	31	41	429
Rainfall (mm)	99	64	71	59	64	60	55	74	83	86	104	101	920

Factors affecting flow regime: G
Station type: FL

1981 runoff is 112% of previous mean rainfall 111%

042008 Cheriton Stream at Seward's Bridge**1981**

Measuring authority: SWA
First year: 1970

Grid reference: SU 574323
Level stn. (m OD) 55.80

Catchment area (sq km) 75.1
Max alt. (m OD) 234

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	0.592	0.529	0.824	1.000	0.813	0.698	0.564	0.483	0.452	0.672	0.701	0.741	0.672
Peak	0.69	0.64	1.02	1.28	1.09	0.82	0.73	0.66	0.77	0.89	0.85	0.95	1.28
Runoff (mm)	21	17	29	35	29	24	20	17	16	24	24	26	283
Rainfall (mm)	45	39	177	48	108	40	78	21	180	109	51	109	1005

Monthly and yearly statistics for previous record (Jul 1970 to Dec 1980—Incomplete or missing months total 0 1 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	0.772	0.958	0.919	0.812	0.664	0.555	0.428	0.404	0.375	0.402	0.500	0.664	0.619
Low	0.521	0.495	0.409	0.320	0.271	0.218	0.183	0.165	0.207	0.279	0.278	0.320	0.408
High	1.179	1.443	1.410	1.065	0.857	0.959	0.532	0.708	0.560	0.561	0.980	1.169	0.761
Peak flow (m³ s⁻¹)	1.36	1.83	1.68	1.39	1.26	2.02	1.75	1.28	0.76	0.64	1.23	1.20	2.02
Runoff (mm)	28	31	33	28	24	19	15	14	13	14	17	24	260
Rainfall (mm)	101	71	73	46	56	60	55	65	76	68	103	98	872

Factors affecting flow regime: N
Station type: C

1981 runoff is 109% of previous mean rainfall 115%

042012 Anton at Fullerton**1981**

Measuring authority: SWA
First year: 1973

Grid reference: SU 379393
Level stn. (m OD) 40.51

Catchment area (sq km) 185.0
Max alt. (m OD) 253

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	1.671	1.637	2.236	2.500	2.237	2.147	1.669	1.480	1.536	1.888	1.918	2.155	1.923
Peak	24	21	32	35	32	30	24	21	22	27	27	31	328
Runoff (mm)	41	39	159	41	86	42	53	17	161	78	48	110	875
Rainfall (mm)	76	61	79	37	54	46	46	68	56	62	61	104	750

Monthly and yearly statistics for previous record (Jan 1975 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	2.113	2.502	2.564	2.496	2.145	1.836	1.524	1.356	1.263	1.305	1.396	1.668	1.843
Low	1.301	1.215	1.047	0.948	0.830	0.691	0.626	0.548	0.688	1.015	1.003	1.417	1.010
High	2.907	3.691	3.382	3.135	2.842	2.817	2.196	1.784	1.498	1.544	1.687	1.896	2.200
Peak flow (m³ s⁻¹)	3.55	2.89	2.90	2.81	2.96	2.56	2.18	2.27	1.67	1.81	2.14	2.27	3.55
Runoff (mm)	31	33	37	35	31	26	22	20	18	19	20	24	314
Rainfall (mm)	76	61	79	37	54	46	46	68	56	62	61	104	750

Factors affecting flow regime: N

Station type: C

1981 runoff is 104% of previous mean rainfall 117%

043007 Stour at Throop Mill**1981**

Measuring authority WWA
First year 1972

Grid reference SZ 113958
Level stn (m OD) 4 35

Catchment area (sq km) 1073.0
Max alt (m OD) 277

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 13 620	10 540	32 460	14 780	1 400	8 972	5 417	4 140	5 721	13 290	12 100	31 400	13 820
Peak	36 29	39 83	90 87	24 82	35 67	18 48	10 24	5 80	18 79	27 70	23 51	91 69	91 69
Rainfall (mm)	34	24	81	36	33	22	14	10	14	33	29	78	408
Rainfall (mm)	44	49	143	41	96	41	57	13	48	89	47	124	892

Monthly and yearly statistics for previous record (Jan 1973 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 23 570	28 460	21 650	13 200	9 528	6 652	4 269	4 650	6 132	9 388	12 460	21 540	13 388
Flows (m³ s⁻¹)	Low 4 319	6 826	7 548	4 483	3 157	2 231	1 614	1 358	2 455	2 716	2 823	6 386	6 138
Peak	35 150	42 200	12 620	22 660	18 900	16 410	6 141	8 998	20 340	29 770	36 370	40 210	17 377
Peak flow (m³ s⁻¹)	116 60	131 50	85 58	61 56	161 20	159 20	13 81	32 41	90 33	101 90	131 40	190 70	190 70
Rainfall (mm)	59	65	54	32	24	16	11	12	15	23	30	54	394
Rainfall (mm)	88	82	77	36	59	56	62	69	86	72	78	108	863

Factors affecting flow regime I
Station type CC

1981 runoff is 104% of previous mean rainfall 103%

044002 Piddle at Baggs Mill**1981**

Measuring authority WWA
First year 1963

Grid reference SY 913876
Level stn (m OD) 2 06

Catchment area (sq km) 183.1
Max alt (m OD) 275

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 2 387	2 214	5 344	4 337	2 933	2 329	1 682	1 180	1 361	2 147	2 247	3 213	2 615
Peak	2 77	4 57	8 26	5 50	3 51	3 38	2 07	1 61	4 19	3 77	3 75	6 05	8 26
Rainfall (mm)	35	29	78	61	43	33	25	17	19	31	32	47	451
Rainfall (mm)	44	65	176	51	115	48	56	11	95	114	94	133	1062

Monthly and yearly statistics for previous record (Oct 1963 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 3 550	4 522	3 999	2 944	2 165	1 662	1 257	1 123	1 150	1 348	2 050	2 687	2 360
Flows (m³ s⁻¹)	Low 1 045	1 020	1 093	0 945	0 757	0 549	0 483	0 433	0 604	0 676	0 721	0 853	1 327
High	5 889	6 616	6 202	4 782	3 376	2 907	1 755	1 526	2 300	2 581	5 047	5 504	3 233
Peak flow (m³ s⁻¹)	11 87	9 18	9 37	6 48	8 11	9 23	4 79	4 50	8 18	9 29	9 20	8 44	11 87
Rainfall (mm)	52	60	58	42	32	24	18	16	16	20	29	39	407
Rainfall (mm)	110	89	81	49	69	61	51	64	86	85	108	108	961

Factors affecting flow regime I
Station type FL

1981 runoff is 111% of previous mean rainfall 111%

045001 Exe at Thorverton**1981**

Measuring authority SWWA
First year 1956

Grid reference SS 936016
Level stn (m OD) 25 85

Catchment area (sq km) 600.9
Max alt (m OD) 519

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 23 640	15 390	49 630	7 959	17 680	10 850	3 399	2 738	8 824	34 520	22 040	41 370	19 837
Peak	117 40	64 51	265 60	20 78	46 40	55 24	7 30	13 23	103 60	89 36	72 94	157 50	265 60
Rainfall (mm)	105	62	221	34	79	47	15	12	38	154	95	164	1047
Rainfall (mm)	96	92	222	57	140	56	65	35	182	202	95	207	1449

Monthly and yearly statistics for previous record (May 1956 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 27 930	27 010	17 740	12 910	8 322	5 593	4 756	6 666	9 684	15 720	21 650	29 610	15 582
Flows (m³ s⁻¹)	Low 5 438	6 451	6 376	4 340	2 593	1 989	1 153	0 696	1 699	1 561	5 297	12 460	9 698
High	42 750	47 220	35 690	28 800	15 890	15 870	19 770	17 140	35 830	59 830	44 000	68 440	22 601
Peak flow (m³ s⁻¹)	229 30	213 50	101 90	139 40	55 52	94 62	202 00	88 47	236 50	250 10	200 60	492 60	492 60
Rainfall (mm)	125	110	79	56	37	24	21	30	42	70	93	132	818
Rainfall (mm)	140	107	97	74	76	72	84	101	109	117	129	150	1256

Factors affecting flow regime PGEI
Station type VA

1981 runoff is 128% of previous mean rainfall 115%

045003 Culm at Wood Mill**1981**

Measuring authority SWWA
First year 1962

Grid reference ST 021058
Level stn (m OD) 43 97

Catchment area (sq km) 226.1
Max alt (m OD) 293

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 4 203	3 744	9 184	3 131	4 881	2 767	1 589	1 342	2 230	4 721	2 925	11 880	4 383
Peak	20 08	22 01	50 11	18 42	15 67	20 63	7 94	1 004	18 21	22 13	8 80	11 450	114 50
Rainfall (mm)	50	40	109	36	58	32	19	16	26	56	34	141	615
Rainfall (mm)	63	69	151	50	125	46	46	28	152	126	50	203	1109

Monthly and yearly statistics for previous record (Oct 1962 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 6 432	6 860	5 010	3 175	2 716	2 020	1 874	1 691	1 984	2 863	4 270	5 454	3 681
Flows (m³ s⁻¹)	Low 1 930	2 251	2 392	1 318	1 085	0 803	0 650	0 569	0 971	0 971	1 287	2 479	2 277
High	10 740	11 820	8 241	6 649	4 303	4 449	5 200	2 787	7 328	11 430	8 137	10 440	4 840
Peak flow (m³ s⁻¹)	78 23	100 10	40 70	41 63	33 82	30 58	202 20	58 67	94 16	45 87	34 50	142 80	202 20
Rainfall (mm)	76	74	59	36	32	23	22	20	23	34	49	65	514
Rainfall (mm)	110	89	85	56	69	65	63	69	76	82	98	105	987

Factors affecting flow regime PGEI
Station type VA

1981 runoff is 120% of previous mean rainfall 115%

045005 Otter at Dotton**1981**

Measuring authority: SWWA
First year: 1963

Grid reference: SY 087885
Level stn. (m OD) 14.52

Catchment area (sq km): 202.5
Max alt. (m OD): 299

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg. 2.974	3.846	7.293	2.423	5.354	2.930	1.420	1.214	1.786	3.521	2.153	9.874	3.732
Peak	15.26	64.38	65.25	11.56	80.38	25.79	4.52	4.01	15.14	21.21	5.67	97.77	97.77
Runoff (mm)	39	46	96	31	71	38	19	16	23	47	28	131	584
Rainfall (mm)	53	86	140	56	155	47	46	18	128	112	41	208	1090

Monthly and yearly statistics for previous record (Mar 1963 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg. 5.860	5.756	4.361	2.668	2.317	1.792	1.644	1.466	1.733	2.648	3.725	4.739	3.215
Flows (m³ s⁻¹)	Low 1.502	1.308	1.908	1.150	0.941	0.716	0.587	0.542	0.980	1.051	1.257	1.758	2.071
Peak	9.989	10.880	6.685	5.392	3.659	3.080	4.771	2.568	4.580	9.655	8.772	9.121	3.846
Runoff (mm)	100.80	73.08	49.70	69.68	45.87	45.87	346.90	35.98	66.91	47.58	84.95	123.60	346.90
Rainfall (mm)	78	69	58	34	31	23	22	19	22	35	48	63	501
Rainfall (mm)	123	95	85	53	71	65	62	66	77	87	98	108	980

Factors affecting flow regime: SRPGEI
Station type: VA

1981 runoff is 116% of previous mean rainfall 110%

046002 Teign at Preston**1981**

Measuring authority: SWWA
First year: 1956

Grid reference: SX 856746
Level stn. (m OD) 3.83

Catchment area (sq km): 380.0
Max alt. (m OD): 604

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg. 9.288	8.426	27.430	7.038	13.340	5.937	2.233	1.449	3.619	12.120	7.959	28.160	10.583
Peak	54.25	71.00	146.60	14.75	42.28	26.33	4.27	4.44	71.12	33.32	36.96	168.70	168.70
Runoff (mm)	65	54	193	48	94	41	16	10	25	85	54	199	884
Rainfall (mm)	74	106	227	48	181	47	40	35	192	175	81	266	1472

Monthly and yearly statistics for previous record (May 1956 to Dec 1980—Incomplete or missing months total 0 1 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg. 19.330	19.740	12.960	8.265	5.156	3.600	2.500	2.559	3.733	7.733	10.580	16.030	9.301
Flows (m³ s⁻¹)	Low 3.341	5.534	4.878	3.514	1.827	1.114	0.731	0.472	0.752	0.917	1.976	4.954	5.212
Peak	36.080	38.750	29.940	21.960	10.110	9.522	7.334	5.549	14.080	41.570	28.960	37.820	15.681
Runoff (mm)	172.70	198.20	82.59	122.50	86.08	81.35	98.87	72.64	312.80	190.00	153.60	248.40	312.80
Rainfall (mm)	136	127	91	56	36	25	18	18	25	55	72	113	772
Rainfall (mm)	161	124	106	74	79	67	72	89	101	1.6	1.30	154	1273

Factors affecting flow regime: SRPGEI
Station type: VA

1981 runoff is 114% of previous mean rainfall 116%

046003 Dart at Austins Bridge**1981**

Measuring authority: SWWA
First year: 1958

Grid reference: SX 751659
Level stn. (m OD) 22.43

Catchment area (sq km): 247.6
Max alt. (m OD): 604

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg. 11.660	9.513	33.520	8.057	14.290	8.135	2.531	1.477	6.301	17.000	10.780	21.890	11.930
Peak	85.21	79.91	192.60	15.17	51.88	54.40	7.71	3.15	180.10	69.53	69.53	183.60	192.60
Runoff (mm)	126	93	363	63	155	85	27	16	66	184	113	237	1528
Rainfall (mm)	119	144	386	53	244	82	57	21	269	257	128	309	2069

Monthly and yearly statistics for previous record (Oct 1968 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg. 19.850	18.260	13.680	10.080	7.308	5.037	4.023	4.817	6.145	10.170	14.510	18.990	11.042
Flows (m³ s⁻¹)	Low 5.435	4.270	5.731	3.568	2.220	1.456	0.996	0.713	0.905	1.229	5.048	8.650	7.304
Peak	36.680	37.760	28.710	22.720	11.960	14.260	10.930	8.490	26.290	28.000	32.960	35.540	15.682
Runoff (mm)	284.00	309.40	218.30	187.40	98.88	253.00	206.50	190.30	327.60	168.20	295.50	549.70	549.70
Rainfall (mm)	215	180	148	106	79	53	44	52	64	110	152	205	1407
Rainfall (mm)	230	169	156	118	104	91	97	123	130	163	198	226	1805

Factors affecting flow regime: SRPGEI
Station type: VA

1981 runoff is 109% of previous mean rainfall 115%

047007 Yealm at Puslinch**1981**

Measuring authority: SWWA
First year: 1962

Grid reference: SX 574511
Level stn. (m OD) 5.49

Catchment area (sq km): 54.9
Max alt. (m OD): 492

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg. 1.778	1.541	5.290	0.975	1.685	2.093	0.463	0.220	1.040	2.401	1.647	3.563	1.891
Peak	12.04	10.99	24.11	2.29	7.96	22.45	0.74	0.63	20.69	20.14	6.26	23.13	24.11
Runoff (mm)	87	68	258	46	82	99	23	11	49	117	78	174	1091
Rainfall (mm)	86	129	311	38	204	116	66	9	231	187	80	269	1726

Monthly and yearly statistics for previous record (Oct 1963 to Dec 1980—Incomplete or missing months total 0 2 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg. 2.959	3.162	2.058	1.335	1.019	0.792	0.631	0.671	0.850	1.283	2.153	2.783	1.634
Flows (m³ s⁻¹)	Low 0.563	1.318	0.659	0.572	0.327	0.171	0.095	0.057	0.183	0.121	0.373	1.171	1.052
Peak	4.603	5.806	3.747	3.646	1.997	2.377	1.863	1.778	3.630	3.808	4.872	6.108	2.210
Runoff (mm)	23.22	23.24	22.94	20.53	17.53	23.47	25.22	23.79	21.33	22.29	26.62	23.10	26.62
Rainfall (mm)	144	141	100	63	50	37	31	33	40	63	102	136	939
Rainfall (mm)	165	140	119	79	92	90	89	104	108	116	159	160	1421

Factors affecting flow regime: PGEI

1981 runoff is 116% of previous mean rainfall 121%

047008 Thrushel at Tinhay**1981**

Measuring authority SWWA
First year 1969

Grid reference SX 398856
Level stn (m OD) 55.47

Catchment area (sq km) 112.7
Max alt (m OD) 299

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 3.278	2.508	7.477	1.059	3.300	1.026	0.447	0.277	1.521	6.878	2.421	6.476	3.056
Peak	30.96	18.46	61.46	6.52	18.83	6.60	7.82	21.48	32.92	29.53	15.09	68.85	68.85
Rundoff (mm)	78	54	178	24	78	24	11	7	35	163	56	154	881
Rainfall (mm)	73	81	194	47	139	39	97	20	170	208	71	190	1329

Monthly and yearly statistics for previous record (Nov 1969 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 5.400	4.756	2.990	1.412	0.852	0.817	0.421	0.626	1.139	1.712	3.623	4.485	2.341
Flows (m³ s⁻¹)	Low 1.317	1.879	1.428	0.481	0.237	0.110	0.028	0.019	0.116	0.069	0.442	2.405	1.840
High	9.701	8.826	5.398	2.240	2.072	2.491	1.095	1.386	6.671	5.399	6.238	8.122	3.750
Peak flow (m³ s⁻¹)	53.32	61.78	42.06	27.72	19.16	57.13	9.89	27.33	75.12	55.86	57.07	124.40	124.40
Rundoff (mm)	128	103	71	32	20	19	10	15	26	41	83	107	656
Rainfall (mm)	162	115	96	56	61	78	70	91	91	95	138	134	1187
(1970-1980)													

Factors affecting flow regime: GE
Station type: CC

1981 runoff is 131% of previous mean rainfall 112%

048001 Fowey at Trekeivesteps**1981**

Measuring authority SWWA
First year 1969

Grid reference SX 227698
Level stn (m OD) 187.86

Catchment area (sq km) 36.8
Max alt (m OD) 420

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 1.606	1.414	3.324	0.961	1.483	1.288	0.598	0.367	0.832	3.135	1.708	3.077	1.649
Peak	7.41	7.04	20.68	1.82	9.39	9.20	3.84	0.91	13.37	12.43	7.04	35.81	35.81
Rundoff (mm)	117	93	242	68	108	91	44	27	59	228	120	224	1420
Rainfall (mm)	117	131	281	43	209	109	123	18	263	294	107	294	1989

Monthly and yearly statistics for previous record (Oct 1967 to Dec 1980—Incomplete or missing months total 0.8 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 2.431	2.190	1.496	1.137	0.831	0.591	0.559	0.717	0.881	1.288	1.910	2.377	1.384
Flows (m³ s⁻¹)	Low 0.866	0.799	0.908	0.499	0.315	0.226	0.238	0.230	0.122	0.223	0.313	1.478	0.843
High	4.347	4.692	2.584	1.942	1.324	1.424	1.751	2.579	3.217	3.367	3.578	4.551	1.915
Peak flow (m³ s⁻¹)	31.08	31.57	12.86	15.01	9.12	18.32	16.29	21.51	27.65	26.34	34.26	38.75	38.75
Rundoff (mm)	177	145	109	80	60	42	41	52	62	94	135	173	1169
Rainfall (mm)	204	137	125	99	96	90	111	128	132	155	183	200	1660

Factors affecting flow regime: SRPG
Station type: CC

1981 runoff is 121% of previous mean rainfall 120%

048004 Warleggan at Trengoffe**1981**

Measuring authority SWWA
First year 1969

Grid reference SX 159674
Level stn (m OD) 70.26

Catchment area (sq km) 25.3
Max alt (m OD) 308

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 1.007	0.855	1.557	0.860	0.808	0.904	0.446	0.254	0.424	1.510	0.999	1.597	0.918
Peak	2.06	2.15	4.77	1.20	2.41	4.00	1.28	0.76	3.72	3.99	2.17	8.44	8.44
Rundoff (mm)	107	82	165	68	86	93	47	27	43	160	102	169	1148
Rainfall (mm)	102	121	223	41	181	93	121	13	236	250	83	263	1727

Monthly and yearly statistics for previous record (Oct 1969 to Dec 1980—Incomplete or missing months total 0.3 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 1.551	1.635	1.083	0.702	0.486	0.379	0.324	0.366	0.487	0.587	0.957	1.350	0.822
Flows (m³ s⁻¹)	Low 0.744	0.982	0.805	0.489	0.310	0.216	0.169	0.118	0.208	0.208	0.233	0.907	0.643
High	2.584	2.906	1.588	1.068	0.763	0.790	0.688	0.563	1.677	1.557	1.696	1.949	1.228
Peak flow (m³ s⁻¹)	14.31	14.85	5.27	4.59	3.19	5.96	4.36	8.60	14.85	7.86	15.38	11.25	15.38
Rundoff (mm)	164	158	115	72	51	39	34	39	50	62	98	143	1025
Rainfall (mm)	189	134	123	63	75	81	89	102	125	123	158	173	1435

Factors affecting flow regime: G
Station type: CC

1981 runoff is 112% of previous mean rainfall 120%

048005 Kenwyn at Truro**1981**

Measuring authority SWWA

First year 1968

Grid reference SW 820450
Level stn (m OD) 7.16

Catchment area (sq km) 19.1
Max alt (m OD) 152

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 0.408	0.417	0.917	0.315	0.310	0.220	0.122	0.073	0.120	0.562	0.391	0.939	0.398
Peak	0.69	7.19	2.74	0.66	1.41	0.51	0.37	0.47	1.21	3.15	0.73	6.11	7.19
Rundoff (mm)	57	53	129	43	43	30	17	10	16	79	53	132	662
Rainfall (mm)	62	108	149	36	131	41	67	5	173	166	54	226	1218

Monthly and yearly statistics for previous record (Oct 1968 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 0.857	0.916	0.583	0.298	0.183	0.140	0.089	0.090	0.123	0.225	0.441	0.734	0.387
Flows (m³ s⁻¹)	Low 0.283	0.517	0.341	0.162	0.128	0.071	0.043	0.026	0.037	0.034	0.046	0.436	0.264
High	1.322	1.536	0.883	0.524	0.277	0.358	0.162	0.122	0.564	0.633	0.747	1.091	0.544
Peak flow (m³ s⁻¹)	5.88	5.74	5.74	2.93	3.32	3.71	2.79	1.99	4.10	5.94	8.61	13.35	13.35
Rundoff (mm)	120	117	82	40	26	19	12	13	17	32	60	103	640
Rainfall (mm)	153	118	95	53	62	63	58	78	87	96	133	136	1132

Factors affecting flow regime: G
Station type: CC

1981 runoff is 103% of previous mean rainfall 108%

048011 Fowey at Restormel two**1981**

Measuring authority: SWWA
First year: 1972

Grid reference: SX 098624
Level stn. (m OD) 9.24

Catchment area (sq km). 169.1
Max alt. (m OD) 420

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	5 954	4 907	12 130	3 374	4 875	4 916	1 786	0 894	2 293	11 720	5 935	13 270	6 005
Peak	14 32	12 32	45 62	7 22	16 00	19 07	6 08	2 66	21 70	29 88	14 16	84 94	84 94
Runoff (mm)	94	70	192	52	77	75	28	14	35	186	91	210	1125
Rainfall (mm)	99	116	235	38	176	85	107	13	240	257	86	264	1716

Monthly and yearly statistics for previous record (Nov 1972 to Dec 1980)

	Avg	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
flows (m³ s⁻¹)	9 014	10 660	6 339	3 791	2 194	1 453	1 127	1 360	2 851	4 451	5 476	9 571	4 830	
Low	3 901	6 218	4 075	2 062	1 359	0 750	0 575	0 343	0 723	0 617	0 921	5 796	3 847	
High	17 330	21 780	9 850	6 063	3 468	3 120	1 857	2 368	10 490	9 371	9 708	14 260	7 440	
Peak flow (m³ s⁻¹)	56 44	95 15	27 55	21 74	14 04	9 25	4 95	31 81	70 02	35 07	57 51	126 60	126 60	
Runoff (mm)	143	154	100	58	35	22	18	22	44	71	84	152	901	
Rainfall (mm)	179	151	158	70	65	80	98	103	100	104	141	204	1453	
(1972-1980)														

Factors affecting flow regime: SRPGEI
Station type: CC

1981 runoff is 125% of previous mean rainfall 118%

049001 Camel at Denby**1981**

Measuring authority: SWWA
First year: 1964

Grid reference: SX 017682
Level stn. (m OD) 4.61

Catchment area (sq km). 208.8
Max alt (m OD) 420

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	7 070	5 903	16 420	4 290	6 168	5 216	2 584	1 599	3 462	16 640	7 444	17 190	7 832
Peak	18 61	22 29	94 75	8 61	16 98	27 62	11 44	8 30	30 07	92 14	17 13	118 20	118 20
Runoff (mm)	91	68	211	53	79	65	33	21	43	213	92	220	1190
Rainfall (mm)	78	103	216	44	156	70	111	12	228	243	78	250.	1589

Monthly and yearly statistics for previous record (Sep 1984 to Dec 1980)

	Avg	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
flows (m³ s⁻¹)	4 833	4 249	2 835	2 091	0 960	0 888	0 582	0 421	0 798	0 882	1 371	6 552	4 081	
Low	19 600	20 940	11 040	7 608	4 935	5 463	7 323	5 947	11 920	11 970	13 760	19 110	8 165	
High	65.19	80.21	40.86	35.42	23.32	40.02	40.59	45.14	125.80	68.30	79.29	227.90	227.90	
Peak flow (m³ s⁻¹)	146	123	85	51	39	28	30	31	38	58	87	136	852	
Runoff (mm)	179	120	113	73	82	86	101	106	117	121	154	163	1416	
Rainfall (mm)														

Factors affecting flow regime: PGE

Station type: VA

1981 runoff is 140% of previous mean rainfall 112%

049002 Hayle at St Erth**1981**

Measuring authority: SWWA
First year: 1968

Grid reference: SW 549342
Level stn. (m OD) 7.00

Catchment area (sq km). 48.9
Max alt (m OD) 238

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	1 165	1 028	2 337	1 305	0 818	0 856	0 571	0 359	0 342	0 918	1 102	2 083	1 074
Peak	1 50	2 24	3 84	2 22	1 27	1 68	0 76	0 49	0 62	1 44	1 37	4 08	4 08
Runoff (mm)	64	51	128	69	45	45	31	20	18	50	58	114	694
Rainfall (mm)	67	90	174	42	117	63	45	4	188	154	52	208	1204

Monthly and yearly statistics for previous record (Oct 1957 to Dec 1980—Incomplete or missing months total 9.3 years)

	Avg	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
flows (m³ s⁻¹)	1 871	2 238	1 654	0 987	0 611	0 463	0 399	0 354	0 376	0 434	0 827	1 455	0 986	
Low	0 746	0 863	0 810	0 573	0 475	0 335	0 237	0 167	0 204	0 179	0 181	0 503	0 653	
High	2 849	3 426	2 582	1 641	0 789	0 669	1 063	0 743	1 067	1 140	1 809	2 473	1 245	
Peak flow (m³ s⁻¹)	6 20	6 73	5 83	3 07	1 04	1 72	1 99	2 27	1 88	2 32	3 00	6 31	6 73	
Runoff (mm)	102	112	91	52	33	25	22	19	20	24	44	80	624	
Rainfall (mm)	131	108	99	61	64	61	68	82	89	107	128	136	1134	
(1957-1980)														

Factors affecting flow regime: G

Station type: CC

1981 runoff is 111% of previous mean rainfall 106%

050002 Torridge at Torrington**1981**

Measuring authority: SWWA

First year: 1962

Grid reference: SS 500185

Level stn. (m OD) 13.95

Catchment area (sq km). 663.0

Max alt (m OD) 621

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	19 860	13 800	51 280	6 366	17 090	6 801	2 571	2 224	11 140	49 230	21 200	36 640	19 860
Peak	145.20	89.01	535.60	26.68	58.37	38.64	19.43	14.42	122.90	145.60	113.40	197.60	536.60
Runoff (mm)	80	50	207	25	69	27	10	9	44	199	83	148	961
Rainfall (mm)	80	77	227	42	127	41	91	32	172	242	92	164	1387
(1962-1980)													

Monthly and yearly statistics for previous record (Oct 1982 to Dec 1980)

	Avg	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
flows (m³ s⁻¹)	27 780	26 120	16 790	10 500	7 726	5 063	5 066	4 919	7 342	11 910	24 750	28 960	14 690	
Low	5 018	4 695	8 703	3 082	1 594	1 136	0 443	0 253	0 954	0 668	3 798	10 270	8 868	
High	45 050	47 590	34 840	28 120	19 250	14 960	21 540	14 280	45 910	42 990	49 410	64 530	21 036	
Peak flow (m³ s⁻¹)	271.80	294.40	150.40	153.00	107.20	181.30	310.60	228.50	415.00	225.00	313.20	730.00	730.00	
Runoff (mm)	112	96	68	41	31	20	20	20	29	48	97	117	889	
Rainfall (mm)	124	95	90	66	73	75	77	85	92	96	135	123	1131	
(1982-1980)														

Factors affecting flow regime: SRPGEI

Station type: VA

1981 runoff is 136% of previous mean rainfall 123%

052006 Yeo at Pen Mill**1981**

Measuring authority: WWA
First year: 1962

Grid reference: ST 573162
Level stn. (m OD) 23.85

Catchment area (sq km) 213.1
Max alt. (m OD) 252

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg	2.371	2.243	7.060	1.513	2.298	1.744	0.601	0.494	1.295	3.336	2.038	7.073
	Peak	5.90	16.78	28.57	3.18	17.47	26.01	1.75	2.82	10.13	15.65	6.48	40.81
Runoff (mm)		30	25	89	18	29	21	8	6	16	42	25	89
Rainfall (mm)		44	59	141	33	106	48	48	33	149	94	46	148

Monthly and yearly statistics for previous record (Nov 1963 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg	5.421	4.968	3.654	1.771	1.614	1.039	0.665	0.729	1.028	2.060	3.400	4.339
	Low	0.485	1.168	0.909	0.532	0.356	0.229	0.193	0.166	0.316	0.372	0.492	1.079
	High	8.612	10.060	6.462	4.223	4.887	2.358	1.909	1.607	5.174	9.808	12.800	9.099
Peak flow (m³ s⁻¹)		99.93	119.30	41.90	21.80	130.00	32.57	35.74	21.95	27.64	54.94	71.25	138.90
Runoff (mm)		68	57	46	22	20	13	8	9	13	26	41	55
Rainfall (mm)		99	77	76	47	69	60	56	68	76	74	90	94

Factors affecting flow regime:

Station type: C VA

1981 runoff is 105% of previous mean rainfall 107%

052007 Parrett at Chiselborough**1981**

Measuring authority: WWA
First year: 1966

Grid reference: ST 461144
Level stn. (m OD) 20.72

Catchment area (sq km) 74.8
Max alt. (m OD) 219

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg	0.738	0.854	3.055	0.632	0.982	0.699	0.343	0.393	0.808	1.596	0.835	3.917
	Peak	1.64	7.64	15.01	1.33	8.11	7.91	0.39	5.58	10.54	10.28	2.4	30.05
Runoff (mm)		26	28	109	22	35	24	12	14	28	57	29	140
Rainfall (mm)		37	58	148	26	114	45	46	54	154	96	44	162

Monthly and yearly statistics for previous record (Aug 1966 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg	2.406	2.184	1.563	0.735	0.717	0.511	0.362	0.338	0.455	1.031	1.161	1.756
	Low	0.258	0.593	0.523	0.285	0.206	0.130	0.106	0.090	0.193	0.186	0.218	0.523
	High	4.019	3.865	2.871	1.581	1.718	1.053	0.921	0.591	2.225	4.819	2.601	3.560
Peak flow (m³ s⁻¹)		36.38	18.84	18.55	12.34	21.73	12.81	16.14	7.92	15.29	24.58	114.30	44.94
Runoff (mm)		86	71	56	25	26	18	13	12	16	37	40	63
Rainfall (mm)		111	85	80	42	72	66	55	70	78	83	83	92

Factors affecting flow regime: N

Station type: C

1981 runoff is 113% of previous mean rainfall 107%

053004 Chew at Compton Dando**1981**

Measuring authority: WWA
First year: 1958

Grid reference: ST 648647
Level stn. (m OD) 16.76

Catchment area (sq km) 129.5
Max alt. (m OD) 305

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg	0.783	0.754	2.793	0.901	1.027	0.954	0.506	0.478	0.740	1.824	1.318	2.853
	Peak	1.21	2.34	20.93	1.50	6.22	13.00	1.35	1.23	4.39	12.42	6.46	63.78
Runoff (mm)		16	14	58	18	21	19	10	10	15	38	26	59
Rainfall (mm)		45	49	184	48	119	55	76	42	170	166	73	157

Monthly and yearly statistics for previous record (Oct 1958 to Dec 1980)—incomplete or missing months total 1.0 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg	1.744	1.747	1.273	0.958	0.746	0.565	0.456	0.429	0.551	0.775	1.130	1.611
	Low	0.444	0.557	0.416	0.469	0.057	0.288	0.251	0.195	0.232	0.302	0.272	0.626
	High	3.765	4.166	2.289	2.185	2.215	1.211	0.811	0.638	2.135	3.251	3.898	5.017
Peak flow (m³ s⁻¹)		25.49	48.99	11.77	14.19	67.50	10.73	6.23	6.08	59.26	49.56	38.83	61.16
Runoff (mm)		36	33	26	19	15	11	9	9	11	16	23	33
Rainfall (mm)		98	74	74	62	69	68	73	88	89	84	103	110

Factors affecting flow regime: SRPGEI

Station type: FL

1981 runoff is 126% of previous mean rainfall 119%

053007 Frome(Somerset) at Tellisford**1981**

Measuring authority: WWA
First year: 1961

Grid reference: ST 805564
Level stn. (m OD) 35.05

Catchment area (sq km) 261.6
Max alt. (m OD) 305

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg	3.885	3.078	12.690	3.262	3.646	2.569	1.326	0.989	1.653	5.725	3.957	9.287
	Peak	17.52	15.05	68.83	12.38	14.10	12.00	6.32	6.32	11.88	23.39	11.25	36.00
Runoff (mm)		40	28	130	32	37	25	14	10	16	59	39	95
Rainfall (mm)		53	49	195	45	102	46	73	24	148	128	57	140

Monthly and yearly statistics for previous record (Sep 1961 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg	6.418	6.639	5.349	3.537	2.729	1.881	1.483	1.541	1.824	2.459	4.352	6.044
	Low	1.684	2.072	1.938	1.510	0.843	0.518	0.329	0.290	0.649	0.612	0.962	2.795
	High	10.440	12.460	10.540	8.314	6.010	4.812	4.931	4.605	7.459	8.841	10.730	14.860
Peak flow (m³ s⁻¹)		54.37	64.75	38.43	57.51	98.80	37.52	108.10	82.49	71.03	40.24	84.58	83.64
Runoff (mm)		66	62	55	35	28	19	15	16	18	25	43	62
Rainfall (mm)		93	74	82	62	76	66	65	84	86	74	97	100

Factors affecting flow regime: PGEI

Station type: FL

1981 runoff is 119% of previous mean rainfall 111%

053009 Willow Brook at Willow**1981**

Measuring authority: WWA
First year: 1966

Grid reference: ST 741581
Level stn. (m OD) 43.74

Catchment area (sq km): 72.6
Max alt. (m OD): 220

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg.	1.115	1.076	3.708	1.311	1.260	0.987	0.531	0.344	0.611	1.778	1.466	2.875	1.422
(m³ s⁻¹)	Peak	2.16	2.95	13.71	2.41	3.34	2.83	2.14	0.96	3.08	4.11	2.98	13.63	13.71
Runoff (mm)		41	36	137	47	47	35	20	13	22	66	52	106	620
Rainfall (mm)		52	56	203	41	116	53	67	27	168	142	65	152	1142

Monthly and yearly statistics for previous record (Jan 1966 to Dec 1980)

Mean	Avg.	2.186	2.498	1.817	1.191	0.938	0.645	0.481	0.403	0.499	0.862	1.360	1.943	1.229
Flows (m³ s⁻¹)	Low	0.641	0.895	0.688	0.600	0.328	0.244	0.157	0.119	0.199	0.274	0.274	1.104	0.762
(m³ s⁻¹)	High	3.142	4.429	3.406	2.111	1.907	1.306	1.680	0.727	2.008	2.686	2.916	3.542	1.561
Peak flow (m³ s⁻¹)		15.11	22.36	13.19	11.08	23.16	6.84	29.54	3.79	15.07	7.88	14.59	24.43	29.54
Runoff (mm)		81	84	67	43	35	23	18	15	18	32	49	72	534
Rainfall (mm)		101	94	83	61	79	71	64	82	89	81	101	102	1008

Factors affecting flow regime: PGEI

Station type: FL

1981 runoff is 116% of previous mean
rainfall 113%**053018 Avon at Bathford****1981**

Measuring authority: WWA
First year: 1969

Grid reference: ST 786671
Level stn. (m OD) 18.00

Catchment area (sq km): 1552.0
Max alt. (m OD): 305

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg.	16.380	14.230	54.230	17.470	16.770	11.980	5.904	4.503	6.942	22.380	17.950	40.090	19.069
(m³ s⁻¹)	Peak	32.19	32.57	171.00	39.38	41.71	32.51	12.08	14.06	23.59	63.46	48.69	148.70	171.00
Runoff (mm)		28	22	94	29	29	20	10	8	12	39	30	69	389
Rainfall (mm)		39	44	163	38	89	39	63	18	148	135	53	121	950

Monthly and yearly statistics for previous record (Dec 1969 to Dec 1980)

Mean	Avg.	31.140	35.850	25.130	16.160	11.980	10.480	6.226	6.177	7.168	10.110	17.080	26.410	16.897
Flows (m³ s⁻¹)	Low	9.225	11.370	10.080	7.718	5.047	3.898	2.411	1.715	3.748	3.117	4.407	12.120	10.361
(m³ s⁻¹)	High	45.300	64.340	46.910	22.690	25.870	30.110	9.955	10.600	25.450	28.180	33.120	48.270	22.133
Peak flow (m³ s⁻¹)		146.30	226.50	119.90	119.60	227.00	165.60	54.93	64.71	191.90	88.98	163.10	300.50	300.50
Runoff (mm)		54	56	43	27	21	18	11	11	12	17	29	46	344
Rainfall (mm)														

Factors affecting flow regime: RPGE

Station type: VA

1981 runoff is 113% of previous mean
rainfall 113%**054002 Avon at Evesham****1981**

Measuring authority: STWA
First year: 1937

Grid reference: SP 040438
Level stn. (m OD) 19.50

Catchment area (sq km): 2210.0
Max alt. (m OD): 320

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg.	20.820	17.230	50.250	26.090	18.550	11.360	5.859	10.800	17.880	17.630	13.910	37.630	20.667
(m³ s⁻¹)	Peak	44.44	49.32	219.40	138.70	55.64	54.56	8.52	70.47	111.80	67.46	30.29	262.80	262.80
Runoff (mm)		25	19	61	31	22	13	7	13	21	21	16	46	296
Rainfall (mm)		37	35	97	50	68	27	25	80	127	61	33	73	713

Monthly and yearly statistics for previous record (Dec 1935 to Dec 1980)

Mean	Avg.	27.440	28.460	21.720	13.860	10.850	7.851	6.464	6.529	6.477	9.070	17.250	21.890	14.756
Flows (m³ s⁻¹)	Low	5.140	4.869	2.261	3.240	2.220	1.935	2.253	2.038	1.970	2.484	2.677	3.548	6.895
(m³ s⁻¹)	High	73.520	77.930	75.600	35.160	35.980	27.380	42.230	16.100	24.210	45.410	55.910	65.160	25.025
Peak flow (m³ s⁻¹)		242.40	202.50	224.80	130.00	132.50	178.70	371.00	96.84	108.70	140.70	142.70	216.60	371.00
Runoff (mm)		33	31	26	16	13	9	8	8	8	11	20	27	211
Rainfall (mm)		61	44	47	42	55	53	58	72	54	57	65	60	668

'1937-'1980

Factors affecting flow regime: PGEI

Station type: VA

1981 runoff is 140% of previous mean
rainfall 107%**055008 Wye at Cefn Brwyn****1981**

Measuring authority: JH

First year: 1951

Grid reference: SN 829838

Level stn. (m OD) 341.01

Catchment area (sq km): 10.4

Max alt. (m OD): 752

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg.	1.076	0.635	1.735	0.184	0.492	0.375	0.327	0.200	0.843	1.753	1.078	0.552	0.771
(m³ s⁻¹)	Peak	17.89	19.20	14.87	1.03	4.24	2.18	5.86	3.11	8.34	15.84	20.22	3.65	20.22
Runoff (mm)		277	148	447	46	127	94	84	51	210	452	269	142	2348
Rainfall (mm)		282	186	517	91	169	104	136	92	320	526	310	186	2919

Monthly and yearly statistics for previous record (Aug 1951 to Dec 1980)—incomplete or missing months total 25 years

Mean	Avg.	0.894	0.778	0.603	0.552	0.426	0.343	0.470	0.594	0.668	0.747	1.036	1.112	0.685
Flows (m³ s⁻¹)	Low	0.519	0.158	0.290	0.064	0.054	0.074	0.095	0.036	0.050	0.092	0.376	0.198	0.447
(m³ s⁻¹)	High	1.398	1.486	1.599	1.312	1.144	0.844	1.264	1.478	1.478	2.031	1.600	2.655	0.994
Peak flow (m³ s⁻¹)		19.04	18.09	16.97	19.12	17.89	25.49	19.11	48.87	16.93	24.32	29.15	32.00	48.87
Runoff (mm)		230	182	155	138	110	86	121	153	167	192	258	286	2078
Rainfall (mm)		242	175	174	163	144	143	166	183	193	222	276	307	2388

Factors affecting flow regime:

Station type: CC

1981 runoff is 113% of previous mean
rainfall 122%

055012 Irfon at Cilmery**1981**

Measuring authority: WELS
First year: 1966

Grid reference: SN 995507
Level stn (m OD): 136.29

Catchment area (sq km): 244.2
Max alt. (m OD): 645

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg	12.370	9.404	31.790	2.817	6.501	4.961	-1.260	0.985	11.710	23.780	14.010	11.670	10.936
	Peak	90.37	109.50	211.50	7.40	21.65	41.50	8.05	6.50	136.00	116.70	103.50	56.37	211.50
Runoff (mm)		136	93	349	30	71	53	14	11	124	261	149	128	1418
Rainfall (mm)		133	125	364	55	129	67	57	54	273	291.	150	150	1848

Monthly and yearly statistics for previous record (Oct 1966 to Dec 1980—Incomplete or missing months total 1.2 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Mean flows	Avg	15.780	13.610	9.615	6.550	5.554	3.475	2.745	4.765	6.165	9.948	14.710	17.510	9.185
	Low	6.295	6.251	5.134	1.359	0.806	0.725	0.671	0.248	1.177	1.217	9.149	8.730	6.155
	High	25.570	23.750	21.880	16.010	10.650	9.737	5.820	8.124	16.200	29.760	29.070	29.320	11.769
Peak flow (m³ s⁻¹)		174.10	196.20	169.40	122.70	.88.82	116.10	71.01	249.50	116.80	219.00	185.90	256.90	266.90
Runoff (mm)		173	136	105	70	61	37	30	52	65	109	156	192	1187
Rainfall (mm)		189	140	129	90	98	84	91	111	131	148	189	195	1695

Factors affecting flow regime:
Station type: FVVA

1981 runoff is 119% of previous mean rainfall 116%

055014 Lugg at Byton**1981**

Measuring authority: WELS
First year: 1966

Grid reference: SO 364647
Level stn (m OD): 124.07

Catchment area (sq km): 203.3
Max alt. (m OD): 660

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg	4.533	4.200	13.980	4.006	5.070	3.301	1.389	0.963	1.558	4.606	3.568	4.848	4.335
	Peak	6.83	7.31	33.25	7.07	10.95	8.91	1.84	2.03	7.81	8.22	5.40	22.26	33.28
Runoff (mm)		60	50	184	51	67	42	18	13	20	81	45	64	875
Rainfall (mm)		53	83	189	57	115	40	25	37	181	105	54	118	1057

Monthly and yearly statistics for previous record (Oct 1966 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Mean flows	Avg	7.222	7.380	5.860	3.677	3.182	1.996	1.497	1.179	1.308	2.655	4.206	6.207	3.849
	Low	2.991	2.630	2.947	2.016	1.207	0.772	0.557	0.414	0.678	0.657	1.219	2.878	2.321
	High	10.180	12.870	11.570	7.106	7.994	3.989	5.253	1.992	3.079	7.962	8.836	10.350	4.954
Peak flow (m³ s⁻¹)		54.27	37.53	24.20	16.93	45.56	10.72	26.16	9.52	8.37	28.51	19.98	37.49	54.27
Runoff (mm)		95	89	77	47	42	25	20	16	17	35	54	82	597
Rainfall (mm)		118	93	87	58	81	60	62	76	89	86	100	110	1020

Factors affecting flow regime:
Station type: FVVA

1981 runoff is 113% of previous mean rainfall 104%

055023 Wye at Redbrook**1981**

Measuring authority: WELS
First year: 1969

Grid reference: SO 528110
Level stn (m OD): 9.20

Catchment area (sq km): 4010.0
Max alt. (m OD): 752

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg	82.830	67.450	245.200	55.960	71.880	51.890	19.950	14.590	46.490	121.700	78.570	116.600	81.092
	Peak	334.70	278.60	671.30	142.10	114.80	178.00	30.68	25.93	261.30	341.40	203.10	501.70	671.30
Runoff (mm)		55	41	184	36	48	34	13	10	30	81	51	78	641
Rainfall (mm)		59	70	195	62	109	45	32	40	193	130	70	131	1137

Monthly and yearly statistics for previous record (Oct 1969 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Mean flows	Avg	125.700	137.400	95.990	60.050	39.020	29.920	20.840	25.110	26.730	42.770	84.430	114.100	88.495
	Low	56.630	46.880	37.490	25.450	18.470	10.980	7.433	5.178	14.870	12.230	38.260	46.890	45.669
	High	200.700	234.000	202.300	100.200	64.870	63.490	30.850	40.110	74.490	133.800	163.600	204.100	84.075
Peak flow (m³ s⁻¹)		453.30	640.60	406.80	302.60	247.40	199.80	77.66	373.20	185.00	335.30	413.70	768.90	768.90
Runoff (mm)		84	84	64	39	26	19	14	17	17	29	55	76	523
Rainfall (mm)		120	92	85	56	70	62	56	79	82	72	107	111	992

Factors affecting flow regime: S P E
Station type: VA

1981 runoff is 122% of previous mean rainfall 115%

056002 Ebbw at Rhiwderyn**1981**

Measuring authority: WELS

First year: 1957

Grid reference: ST 259889

Catchment area (sq km): 216.5

Max alt. (m OD): 610

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg	5.588	5.125	25.000	5.776	8.477	6.421	2.650	1.745	8.608	12.580	10.210	9.820	8.500
	Peak	33.07	35.91	104.80	18.39	23.47	36.08	7.05	4.11	123.90	41.97	46.11	54.79	123.90
Runoff (mm)		69	57	309	69	105	77	33	22	103.	156	122	121	1243
Rainfall (mm)		63	92	343	68	177	69	35	39	310	204	143	153	1696

Monthly and yearly statistics for previous record (Oct 1957 to Dec 1980—Incomplete or missing months total 0.1 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Mean flows	Avg	11.770	10.670	7.832	5.939	4.625	3.336	2.785	2.989	4.212	7.198	8.711	11.980	6.820
	Low	3.050	3.324	2.957	2.386	2.026	1.826	1.263	1.098	1.269	1.317	2.857	3.345	3.492
	High	19.820	20.440	18.230	11.060	9.545	6.809	9.019	5.295	11.940	23.210	19.940	29.440	9.829
Peak flow (m³ s⁻¹)		123.60	125.60	79.29	55.22	32.79	37.95	66.26	72.07	98.00	201.60	102.80	246.50	246.50
Runoff (mm)		145	120	97	71	57.	40	34	37	50	89	104	148	984
Rainfall (mm)		164	121	108	92	95	82	88	104	129	137	152	177	1449

Factors affecting flow regime: S G

1981 runoff is 125% of previous mean rainfall 117%

056007 Senni at Pont Hen Hafod**1981**

Measuring authority: WELS
First year: 1967

Grid reference: SN 928255
Level stn. (m OD) 219.60

Catchment area (sq km): 19.9
Max alt. (m OD) 663

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	0.950	1.021	3.693	0.466	1.010	0.730	0.162	0.100	1.215	2.058	1.547	1.063	1.168
Peak	9.75	18.37	33.47	2.12	7.45	3.89	0.69	0.21	20.34	15.99	21.75	6.83	33.47
Runoff (mm)	128	124	497	61	136	95	22	13	158	277	202	143	1856
Rainfall (mm)	107	143	534	68	207	90	51	36	336	286	217	134	2209

Monthly and yearly statistics for previous record (Dec 1967 to Dec 1980—Incomplete or missing months total 0 3 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	1.596	1.336	1.047	0.669	0.566	0.397	0.309	0.490	0.675	0.903	1.532	1.593	0.924
Flows (m³ s⁻¹)	0.567	0.707	0.509	0.168	0.121	0.111	0.095	0.066	0.181	0.171	0.772	0.827	0.587
Peak	3.278	2.478	2.039	1.334	1.176	1.077	0.605	0.916	2.111	1.795	2.336	3.224	1.260
Runoff (mm)	24.71	21.85	21.64	20.32	14.17	19.18	10.78	24.56	14.76	30.73	32.97	48.83	48.83
Rainfall (mm)	215	164	141	87	76	52	42	66	88	122	200	214	1466
(1967-1980)	241	161	151	95	118	88	101	129	159	174	215	204	1836

Factors affecting flow regime: N
Station type: C

1981 runoff is 127% of previous mean rainfall 120%

056013 Yscir at Pontaryscir**1981**

Measuring authority: WELS
First year: 1972

Grid reference: SO 003304
Level stn. (m OD) 161.18

Catchment area (sq km): 62.8
Max alt. (m OD) 474

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	2.376	1.924	6.303	0.884	1.358	1.199	0.329	0.234	1.937	4.182	2.659	2.716	2.175
Peak	19.98	23.76	39.41	2.63	3.62	14.52	0.60	0.92	21.41	21.03	15.94	14.31	39.41
Runoff (mm)	101	74	269	37	58	50	14	10	80	178	110	116	1096
Rainfall (mm)	100	93	329	56	119	47	44	43	256	211	109	137	1544

Monthly and yearly statistics for previous record (May 1972 to Dec 1980—Incomplete or missing months total 0 2 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	3.073	3.097	2.317	1.184	0.958	0.673	0.485	0.620	0.968	1.564	2.962	3.582	1.784
Flows (m³ s⁻¹)	1.146	1.868	1.170	0.431	0.269	0.214	0.166	0.104	0.283	0.214	1.520	2.196	1.286
Peak	5.578	4.959	4.662	1.863	1.957	1.788	1.117	1.250	3.947	3.432	4.902	6.324	2.465
Runoff (mm)	26.43	31.78	17.90	12.19	11.92	74.33	11.06	28.81	17.44	26.86	30.35	59.93	74.33
Rainfall (mm)	131	120	99	49	41	28	21	26	40	67	122	153	896
(1976-1980)	126	130	151	60	77	73	65	81	103	137	170	209	1382

Factors affecting flow regime: N
Station type: C

1981 runoff is 122% of previous mean rainfall 112%

057005 Taff at Pontypridd**1981**

Measuring authority: WELS
First year: 1968

Grid reference: ST 079897
Level stn. (m OD) 45.15

Catchment area (sq km): 454.8
Max alt. (m OD) 886

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	16.830	16.840	72.660	10.650	17.900	14.230	5.240	4.057	22.720	36.020	28.180	21.580	22.242
Peak	113.90	167.00	365.10	27.65	74.57	65.33	10.03	7.29	279.70	184.50	190.00	118.80	365.10
Runoff (mm)	99	90	428	61	105	81	31	24	130	212	161	127	1548
Rainfall (mm)	106	124	460	63	190	82	45	31	337	285	199	165	2087

Monthly and yearly statistics for previous record (Oct 1970 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	28.880	27.200	19.470	12.000	9.031	7.435	6.046	9.280	11.350	14.620	26.340	30.650	16.809
Flows (m³ s⁻¹)	11.800	12.700	10.800	5.287	4.731	3.618	2.989	2.287	4.745	3.539	11.030	14.100	10.279
Peak	53.460	48.500	38.170	22.230	19.680	19.540	11.030	19.000	41.590	39.380	47.780	60.590	22.610
Runoff (mm)	267.10	219.00	183.20	126.80	112.80	124.60	86.21	210.30	153.30	231.80	335.70	652.00	652.00
Rainfall (mm)	170	146	115	68	53	42	36	55	65	86	150	180	1166
(1971-1980)	221	159	148	84	98	89	93	131	156	140	205	221	1745

Factors affecting flow regime: S EI

1981 runoff is 133% of previous mean rainfall 120%

057008 Rhymney at Llanederyn**1981**

Measuring authority: WELS
First year: 1972

Grid reference: ST 225821
Level stn. (m OD) 11.78

Catchment area (sq km): 178.7
Max alt. (m OD) 617

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	4.619	4.664	20.960	3.575	6.167	4.604	1.448	0.931	6.801	10.190	8.412	7.481	6.654
Peak	29.08	41.55	105.80	9.64	21.59	32.92	4.67	2.22	101.60	37.91	53.41	43.20	105.80
Runoff (mm)	69	63	314	52	92	67	22	14	99	153	122	112	1179
Rainfall (mm)	71	89	327	57	161	68	35	34	292	205	127	142	1608

Monthly and yearly statistics for previous record (Jan 1973 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	7.769	8.815	6.038	3.404	2.305	1.499	1.394	2.044	3.377	4.540	6.643	8.338	4.660
Flows (m³ s⁻¹)	3.313	3.199	3.064	1.841	1.302	0.873	0.602	0.571	0.914	0.748	2.355	3.218	2.903
Peak	12.830	15.670	9.863	5.079	3.587	2.163	2.332	3.812	11.500	13.700	12.560	15.730	6.203
Runoff (mm)	79.89	72.22	68.06	23.12	14.17	11.25	27.39	79.72	61.59	64.27	85.42	147.30	147.30
Rainfall (mm)	116	120	90	49	35	22	21	31	49	68	96	125	823
(1973-1980)	147	131	112	54	71	55	75	97	138	109	139	157	1286

Factors affecting flow regime: P E

1981 runoff is 143% of previous mean rainfall 125%

Station type: FVVA

058001 Ogmore at Bridgend**1981**

Measuring authority WELS
First year 1962

Grid reference SS 904794
Level stn (m OD) 13.80

Catchment area (sq km) 158.0
Max alt (m OD) 568

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 6 997	5 858	23 080	2 687	5 911	5 647	1 347	0 757	9 847	15 010	9 753	7 311	7 850
Peak	29 42	50 01	168 00	13 53	29 67	35 37	3 41	3 27	152 00	85 26	46 27	20 37	168 00
Rundoff (mm)	119	90	391	44	100	93	23	13	162	254	160	124	1572
Rainfall (mm)	111	99	385	47	199	89	52	34	352	328	168	152	2016

Monthly and yearly statistics for previous record (Oct 1963 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 9 403	8 067	5 617	4 635	4 112	3 258	3 219	4 013	4 489	6 209	9 302	10 440	6 056
Flows	Low 2 584	2 343	3 606	1 603	1 228	0 908	0 02	0 647	1 409	1 294	4 101	4 217	3 956
(m³ s⁻¹)	High 16 850	15 440	9 449	8 268	6 884	7 628	8 748	8 132	16 920	20 800	21 810	27 710	8 236
Peak flow (m³ s⁻¹)	115 00	96 84	73 42	59 75	41 91	111 60	110 70	83 74	73 29	117 20	146 00	155 20	155 20
Rundoff (mm)	159	125	95	76	70	53	55	68	74	105	153	177	1209
Rainfall (mm)	185	134	125	98	115	109	119	132	150	153	198	201	1719

Factors affecting flow regime P EI
Station type FVVA

1981 runoff is 130% of previous mean rainfall 117%

058006 Mellte at Pontneathvaughan**1981**

Measuring authority WELS
First year 1971

Grid reference SN 915082
Level stn (m OD) 29.10

Catchment area (sq km) 65.8
Max alt (m OD) 734

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 2 772	2 851	10 670	1 437	3 184	1 979	0 478	0 329	3 617	6 305	5 016	3 263	3 492
Peak	17 52	66 12	72 93	5 83	13 35	13 27	0 94	0 47	47 71	37 44	59 47	20 94	72 93
Rundoff (mm)	113	105	434	57	130	78	19	13	142	257	198	133	1678
Rainfall (mm)	114	150	552	71	213	92	56	34	352	314	242	157	2347

Monthly and yearly statistics for previous record (Oct 1971 to Nov 1980—Incomplete or missing months total 0.3 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 4 521	4 224	3 180	1 921	1 527	0 997	1 058	1 549	2 275	2 320	4 651	5 158	2 774
Flows	Low 1 932	2 567	1 442	0 497	0 394	0 322	0 18	0 248	0 562	0 548	2 859	2 641	1 985
(m³ s⁻¹)	High 8 274	7 231	6 082	3 812	3 169	3 559	2 608	3 357	6 876	5 520	7 875	8 739	3 814
Peak flow (m³ s⁻¹)	54 62	45 27	41 12	39 02	21 45	32 54	39 14	58 52	35 54	57 57	79 67	127 60	127 60
Rundoff (mm)	184	156	129	76	62	39	43	63	90	94	183	210	1330
Rainfall (mm)	237	169	157	95	108	99	108	143	162	154	235	246	1913

Factors affecting flow regime S P
Station type FVVA

1981 runoff is 126% of previous mean rainfall 123%

059001 Tawe at Ynys Tanglws**1981**

Measuring authority WELS
First year 1957

Grid reference SS 685998
Level stn (m OD) 9.31

Catchment area (sq km) 227.7
Max alt (m OD) 802

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 4 427	5 182	33 830	1 571	6 043	4 911	2 532	1 896	17 940	25 230	16 460	11 130	10 929
Peak	55 18	168 40	245 60	11 14	42 33	36 02	6 56	2 34	236 00	167 20	218 30	42 74	245 60
Rundoff (mm)	52	55	398	18	71	56	30	22	204	297	187	131	1521
Rainfall (mm)	101	126	451	64	192	104	59	54	374	312	170	168	2175

Monthly and yearly statistics for previous record (Oct 1957 to Dec 1980—Incomplete or missing months total 0.7 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 18 710	14 400	10 010	8 770	7 441	4 923	5 271	7 456	9 584	12 200	16 530	17 920	11 089
Flows	Low 1 479	2 445	3 175	2 145	1 650	1 354	1 280	0 574	2 587	8 358	3 931	7 613	
(m³ s⁻¹)	High 36 580	29 040	23 370	15 370	17 980	15 960	9 480	14 200	26 290	43 430	33 320	43 650	15 158
Peak flow (m³ s⁻¹)	275 10	322 80	176 10	188 60	147 50	214 10	131 90	261 80	286 00	314 30	290 60	461 30	461 30
Rundoff (mm)	220	154	118	100	88	56	62	88	109	144	188	211	1537
Rainfall (mm)	201	141	125	115	114	108	120	140	159	177	206	214	1820

Factors affecting flow regime GEI
Station type VA

1981 runoff is 99% of previous mean rainfall 120%

060003 Taf at Clog-y-fran**1981**

Measuring authority WELS
First year 1965

Grid reference SN 238160
Level stn (m OD) 7.01

Catchment area (sq km) 217.3
Max alt (m OD) 385

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 5 803	5 635	26 610	4 242	4 747	4 670	1 560	0 854	5 303	22 310	9 425	12 920	8 673
Peak	18 40	23 55	85 73	8 82	16 19	17 79	2 43	1 70	58 02	84 98	32 18	63 59	85 73
Rundoff (mm)	72	63	328	51	59	56	19	11	63	275	112	159	1267
Rainfall (mm)	60	93	365	54	143	64	49	26	267	271	109	149	1650

Monthly and yearly statistics for previous record (Oct 1965 to Dec 1980—Incomplete or missing months total 0.8 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 13 340	12 180	7 256	5 538	4 080	2 686	1 840	2 434	3 805	8 284	11 460	13 720	7 196
Flows	Low 4 835	5 454	3 796	2 267	1 441	0 814	0 527	0 363	0 983	1 018	4 587	9 027	4 672
(m³ s⁻¹)	High 25 900	27 200	12 410	11 800	7 483	8 821	5 330	4 785	15 340	19 960	22 690	25 520	9 662
Peak flow (m³ s⁻¹)	73 43	73 97	51 13	60 03	31 15	45 11	19 86	32 90	53 11	79 05	80 82	65 55	80 82
Rundoff (mm)	164	136	89	66	50	32	23	30	45	102	137	169	1045
Rainfall (mm)	165	117	101	83	84	77	76	99	118	151	155	172	1398

Factors affecting flow regime N

Station type VA

1981 runoff is 121% of previous mean rainfall 118%

061003 Gwaun at Cilrhedyn Bridge**1981**

Measuring authority: WELS
First year: 1968

Grid reference: SN 005349
Level stn. (m OD) 70 31

Catchment area (sq km) 31 3
Max alt. (m OD) 468

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 0.859	0.751	3.668	0.680	0.706	0.807	0.308	0.185	0.840	3.462	1.377	1.586	1.269
Peak (m³ s⁻¹)	3.23	2.83	16.70	2.04	2.99	3.15	0.81	1.09	15.64	13.05	6.12	11.95	16.70
Runoff (mm)	73	58	314	56	60	67	26	16	70	296	114	136	1287
Rainfall (mm)	69	94	346	63	134	72	66	38	256	308	115	178	1739

Monthly and yearly statistics for previous record (Apr 1969 to Dec 1980—Incomplete or missing months total 0 1 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg 2.004	1.892	1.196	0.795	0.570	0.499	0.299	0.568	0.575	1.102	1.809	1.971	1.103
Low	0.887	0.790	0.576	0.352	0.231	0.191	0.116	0.073	0.288	0.271	1.080	1.487	0.802
High	3.898	4.108	1.801	1.298	1.248	1.600	0.712	1.366	1.630	2.674	3.080	2.851	1.392
Peak flow (m³ s⁻¹)	22.52	21.10	9.04	13.51	7.23	18.35	5.56	23.48	6.56	16.13	20.03	20.59	23.48
Runoff (mm)	171	148	102	66	49	41	26	49	48	94	150	169	1112
Rainfall (mm)	196	143	118	77	71	60	82	103	149	182	163	181	1525

Factors affecting flow regime:
Station type: VA

1981 runoff is 116% of previous mean rainfall 114%

063001 Ystwyth at Pont Llolwyn**1981**

Measuring authority: WELS
First year: 1963

Grid reference: SN 591774
Level stn. (m OD) 11 98

Catchment area (sq km) 169 6
Max alt. (m OD) 611

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 9.564	5.896	18.470	1.950	4.905	2.818	2.422	1.724	8.534	19.800	8.850	7.893	7.736
Peak (m³ s⁻¹)	43.91	32.67	126.70	8.92	23.72	18.45	27.63	22.31	54.16	82.43	65.78	38.07	126.70
Runoff (mm)	151	84	292	30	77	43	38	27	130	313	135	125	1446
Rainfall (mm)	134	89	320	57	133	66	96	66	238	308	136	120	1783

Monthly and yearly statistics for previous record (Oct 1963 to Nov 1980—Incomplete or missing months total 0 2 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg 8.939	7.476	5.310	4.447	3.638	2.467	2.600	3.368	3.880	6.302	9.417	11.030	5.734
Low	2.268	2.283	2.901	0.961	0.583	0.625	0.422	0.181	0.882	0.535	4.069	2.219	3.783
High	15.110	15.200	12.440	10.080	10.100	6.012	5.461	6.934	10.670	14.930	18.320	22.600	7.737
Peak flow (m³ s⁻¹)	105.60	88.63	84.88	90.32	105.10	129.70	68.24	174.30	71.02	129.90	128.10	210.40	210.40
Runoff (mm)	141	108	84	68	57	38	41	53	59	100	144	174	1067
Rainfall (mm)	150	108	103	86	96	86	99	104	122	135	169	177	1435

Factors affecting flow regime:
Station type: VA

1981 runoff is 136% of previous mean rainfall 123%

064001 Dovey at Dovey Bridge**1981**

Measuring authority: WELS
First year: 1962

Grid reference: SH 745019
Level stn. (m OD) 5 89

Catchment area (sq km) 471 3
Max alt. (m OD) 905

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 36.580	24.480	75.790	5.801	12.900	15.300	4.868	2.392	21.650	64.830	44.260	20.620	27.456
Peak (m³ s⁻¹)	283.60	315.70	360.70	13.67	46.27	101.60	41.71	9.88	166.90	344.00	355.70	100.00	360.70
Runoff (mm)	208	126	431	32	73	84	28	14	119	368	243	117	1843
Rainfall (mm)	183	130	437	56	140	112	94	59	271	369	211	123	2185

Monthly and yearly statistics for previous record (Oct 1962 to Jan 1974—Incomplete or missing months total 2 8 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg 29.530	23.170	20.530	20.470	15.070	11.240	9.573	12.720	16.750	25.870	33.240	44.370	21.885
Low	6.245	5.174	11.770	8.288	5.643	2.518	3.350	6.944	6.595	10.770	17.940	7.501	18.588
High	64.210	46.080	40.020	42.490	23.600	21.710	14.080	24.050	28.780	26.960	62.790	88.280	25.620
Peak flow (m³ s⁻¹)	350.20	340.00	317.80	271.30	337.20	402.10	162.00	187.30	254.90	337.90	375.50	580.50	580.50
Runoff (mm)	168	119	117	113	86	62	54	72	92	147	183	252	1465
Rainfall (mm)	183	131	136	117	115	105	112	132	160	161	215	231	1798

Factors affecting flow regime: N
Station type: VA

1981 runoff is 126% of previous mean rainfall 122%

065005 Erch at Pencaenewydd**1981**

Measuring authority: WELS

First year: 1972

Grid reference: SH 400404

Level stn. (m OD) 56.13

Catchment area (sq km) 18.1

Max alt. (m OD) 564

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg 0.698	0.487	1.804	0.432	0.371	0.539	0.216	0.140	0.245	0.387	0.642	1.018	1.023	0.578
Peak (m³ s⁻¹)	3.71	2.57	19.78	2.84		6.99	0.88	0.21	7.42	11.84	13.37	5.43		
Runoff (mm)	103	65	267	62	55	77	32	19	88	257	131	123	1279	
Rainfall (mm)	88	56	303	87	120	98	63	45	235	283	151	95	1624	

Monthly and yearly statistics for previous record (Jan 1973 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg 0.963	1.009	0.609	0.424	0.354	0.148	0.140	0.245	0.387	0.642	1.018	1.023	0.578
Low	0.629	0.414	0.408	0.177	0.135	0.089	0.104	0.062	0.167	0.236	0.593	0.600	0.430
High	1.396	1.869	0.893	0.892	0.728	0.252	0.230	0.504	0.919	1.053	1.301	1.616	0.698
Peak flow (m³ s⁻¹)	10.25	15.45	6.31	8.73	4.68	0.80	3.87	5.35	6.00	10.70	10.82	10.45	15.45
Runoff (mm)	143	136	90	61	52	21	21	36	55	95	146	151	1008
Rainfall (mm)	140	110	93	59	72	54	78	94	122	128	154	143	1247

Factors affecting flow regime: N
Station type: C

1981 runoff is 127% of previous mean rainfall 130%

066006 Elwy at Pont-y-gwyddel**1981**

Measuring authority WELS
First year 1972

Grid reference SH 952718
Level stn (m OD) 87.90

Catchment area (sq km) 194.0
Max alt (m OD) 518

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 5.405	6.276	11.520	1.505	1.621	1.260	1.068	0.569	3.423	11.090	9.218	6.761	4.976
Peak (m³ s⁻¹)	Peak 20.11	50.82	76.59	4.08	5.75	4.39	13.30	0.93	54.16	53.73	101.60	30.66	101.60
Rainfall (mm)	75	78	159	20	22	17	15	8	46	153	123	93	809
Rainfall (mm)	84	101	215	36	72	68	78	34	199	193	151	105	1336

Monthly and yearly statistics for previous record (Dec 1973 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 8.032	7.426	4.945	2.565	1.621	1.254	0.628	1.156	2.689	4.928	7.022	7.616	4.141
Flows	Low 4.628	4.079	1.539	0.623	0.479	0.359	0.318	0.242	0.630	1.733	2.757	4.879	2.908
(m³ s⁻¹)	High 11.430	12.050	11.950	4.722	2.960	3.300	1.383	4.351	7.450	11.530	11.590	14.450	5.094
Peak flow (m³ s⁻¹)	82.42	50.53	55.10	25.01	21.53	14.95	5.32	35.15	58.57	143.00	53.44	75.42	143.00
Rainfall (mm)	111	93	68	34	22	17	9	16	36	68	94	105	674
Rainfall (mm)	136	101	89	58	72	73	75	89	136	123	148	143	1243

Factors affecting flow regime SRP

Station type VA

1981 runoff is 120% of previous mean rainfall 107%

067008 Alyn at Pont-y-capel**1981**

Measuring authority WELS
First year 1965

Grid reference SJ 336541
Level stn (m OD) 37.29

Catchment area (sq km) 227.1
Max alt (m OD) 562

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 4.515	4.192	5.440	1.638	1.393	1.071	0.667	0.601	0.817	3.973	2.634	4.696	2.636
Peak (m³ s⁻¹)	Peak 18.53	14.96	14.85	3.30	3.45	8.14	1.79	1.47	4.96	10.05	13.78	13.95	18.53
Rainfall (mm)	53	45	64	19	16	12	8	7	9	47	30	55	366
Rainfall (mm)	91	92	121	40	76	51	51	50	121	143	87	117	1040

Monthly and yearly statistics for previous record (Jun 1965 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 4.150	4.396	3.375	2.443	1.813	1.181	0.956	0.915	1.087	2.025	3.043	4.365	2.471
Flows	Low 1.753	2.088	1.465	1.023	0.741	0.438	0.331	0.287	0.474	0.452	0.614	1.246	1.266
(m³ s⁻¹)	High 7.219	9.085	8.027	5.573	5.657	2.673	2.098	2.244	3.906	6.896	5.816	9.481	3.027
Peak flow (m³ s⁻¹)	26.73	28.52	26.11	21.09	26.86	18.34	23.23	18.07	59.11	2.90	28.21	35.92	59.11
Rainfall (mm)	49	47	40	28	21	13	11	11	12	24	35	51	343
Rainfall (mm)	86	73	72	58	73	63	66	69	84	80	105	97	926

Factors affecting flow regime EI

Station type CC

1981 runoff is 107% of previous mean rainfall 112%

067025 Clywedog at Bowling Bank**1981**

Measuring authority WELS
First year 1976

Grid reference SJ 396483
Level stn (m OD) 14.00

Catchment area (sq km) 98.6
Max alt (m OD) 460

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 2.349	2.313	2.760	1.085	1.151	0.976	0.594	0.622	0.777	1.972	1.483	2.491	1.548
Peak (m³ s⁻¹)	Peak 10.07	14.58	11.70	3.42	4.29	7.78	2.88	4.31	5.04	7.48	6.30	8.84	14.58
Rainfall (mm)	64	57	75	29	31	26	16	17	20	54	39	68	495
Rainfall (mm)	81	84	110	42	85	44	41	53	114	124	71	104	953

Monthly and yearly statistics for previous record (Jan 1976 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 2.243	2.903	2.236	1.392	1.103	0.957	0.614	0.642	0.872	1.240	1.264	2.644	1.503
Flows	Low 1.374	1.376	1.167	0.778	0.596	0.473	0.431	0.362	0.512	0.580	0.989	1.589	1.275
(m³ s⁻¹)	High 2.934	4.475	3.669	2.671	1.649	1.358	0.705	0.832	2.057	3.176	1.740	4.039	1.708
Peak flow (m³ s⁻¹)	13.50	19.44	13.54	9.06	7.89	7.24	4.29	4.02	47.84	16.97	4.75	25.62	47.84
Rainfall (mm)	61	72	61	37	30	25	17	17	23	34	33	72	481
Rainfall (mm)	76	62	58	57	64	69	79	87	81	75	89	87	884

Factors affecting flow regime GE

Station type C

1981 runoff is 103% of previous mean

068003 Dane at Rudheath**1981**

Measuring authority NWWA
First year 1949

Grid reference SJ 668718
Level stn (m OD) 13.19

Catchment area (sq km) 407.1
Max alt (m OD) 547

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 15.330	7.916	17.210	4.776	4.633	3.495	3.886	2.406	3.879	11.380	9.840	10.030	7.898
Peak (m³ s⁻¹)	Peak 114.80	46.82	134.00	21.37	16.24	18.56	82.83	9.21	43.39	52.17	102.90	80.65	134.00
Rainfall (mm)	101	47	113	30	30	22	26	16	25	75	63	66	814
Rainfall (mm)	101	60	132	52	78	50	63	68	112	134	92	69	1011

Monthly and yearly statistics for previous record (Oct 1949 to Sep 1975—Incomplete or missing months total 0.1 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 6.528	5.748	4.019	3.728	2.863	2.356	2.760	3.657	3.809	4.166	6.387	7.308	4.438
Flows	Low 2.183	1.545	1.277	0.988	0.720	0.746	0.734	0.654	0.633	0.877	1.396	1.803	2.333
(m³ s⁻¹)	High 11.970	12.760	13.190	8.144	7.335	6.864	8.012	14.360	11.920	14.350	16.290	22.920	8.662
Peak flow (m³ s⁻¹)	56.35	65.24	67.11	51.40	63.60	41.96	57.18	67.96	84.20	66.26	58.05	92.78	92.78
Rainfall (mm)	43	34	26	24	19	15	18	24	24	27	41	48	344
Rainfall (mm)	76	62	58	57	64	69	79	87	81	75	89	87	884
(1949-1980)													

Factors affecting flow regime S PGEI

Station type VA

1981 runoff is 178% of previous mean

rainfall 114%

068020 Gowy at Bridge Trafford**1981**

Measuring authority NWWA
First year: 1979

Grid reference: SJ 448711
Level stn (m OD) 4.06

Catchment area (sq km): 156.0
Max alt. (m OD): 222

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg	2.354	2.068	3.022	0.813	0.679	0.905	0.800	2.509	0.906	3.407	2.498	3.837	1.983
	Peak	16.03	31.61	21.14	3.21	1.55	18.42	5.77	38.39	8.96	79.52	34.03	27.31	38.39
Runoff (mm)		40	32	52	14	12	15	14	43	15	58	42	66	402
Rainfall (mm)														

Factors affecting flow regime: PG
Station type: FV

1981 runoff is % of previous mean

069002 Irwell at Adelphi Weir**1981**

Measuring authority NWWA
First year: 1949

Grid reference: SJ 824987
Level stn (m OD) 24.15

Catchment area (sq km): 559.4
Max alt (m OD): 473

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg	36.930	19.870	48.030	12.250	12.910	10.850	7.518	9.524	16.890	38.520	33.080	18.210	22.049
	Peak	222.80	295.60	42.87	35.77	56.98	18.88	57.58	141.50	174.40	279.70	101.80		
Runoff (mm)		177	86	230	57	62	50	36	46	78	184	153	87	1246
Rainfall (mm)		162	88	256	74	101	69	63	84	173	230	169	81	1550

Monthly and yearly statistics for previous record (Oct 1949 to Dec 1980—Incomplete or missing months total 20 years)

Mean	Avg	24.010	22.790	15.940	14.230	12.140	10.060	11.890	16.680	17.240	20.250	25.300	30.020	18.366
Flows (m³ s⁻¹)	Low	3.705	4.787	7.803	5.408	4.348	2.750	4.031	3.676	2.991	4.990	7.534	7.469	10.469
	High	40.260	67.230	29.290	27.070	21.530	18.900	26.150	56.000	43.480	52.510	51.100	84.660	30.489
Peak flow (m³ s⁻¹)		430.40	400.30	235.00	156.20	141.60	238.00	385.60	395.70	390.80	485.10	334.90	419.50	485.10
Runoff (mm)		115	99	76	66	58	47	57	80	80	97	117	144	1036
Rainfall (mm)		115	87	81	78	81	84	106	124	120	118	132	136	1262

Factors affecting flow regime: S PGEI
Station type: B

1981 runoff is 120% of previous mean
rainfall 123%

069003 Irk at Scotland Weir**1981**

Measuring authority NWWA
First year: 1949

Grid reference: SJ 841992
Level stn (m OD) 26.21

Catchment area (sq km): 72.5
Max alt (m OD): 213

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg	3.439	2.322	4.539	1.994	1.775	1.640	1.620	1.561	2.421	3.701	3.966	2.587	2.630
	Peak	17.83	34.88	25.71	13.97	9.58	10.76	8.55	12.89	33.75	20.19	37.07	13.58	37.07
Runoff (mm)		127	77	168	71	66	59	60	58	87	137	142	96	1146
Rainfall (mm)		122	68	189	47	76	53	51	81	140	192	134	66	1219

Monthly and yearly statistics for previous record (Oct 1937 to Dec 1980—Incomplete or missing months total 13.8 years)

Mean	Avg	2.237	2.217	1.777	1.598	1.446	1.451	1.516	1.854	1.785	1.942	2.323	2.464	1.883
Flows (m³ s⁻¹)	Low	0.582	0.595	0.470	0.701	0.543	0.431	0.672	0.324	0.297	0.521	0.715	0.876	0.834
	High	3.682	6.529	3.900	1.794	2.641	2.855	2.794	4.589	4.529	4.759	5.006	5.744	3.092
Peak flow (m³ s⁻¹)		45.31	43.89	42.48	46.12	28.78	72.92	50.97	45.31	55.22	62.87	39.64	55.49	72.92
Runoff (mm)		83	75	66	57	53	52	56	69	64	72	83	91	819
Rainfall (mm)		92	88	69	65	70	75	92	105	100	96	108	108	1048

(1950-1980)
Factors affecting flow regime: S PGEI
Station type: CB

1981 runoff is 140% of previous mean
rainfall 116%

069006 Bollin at Dunham Massey**1981**

Measuring authority NWWA

Grid reference: SJ 727875

Catchment area (sq km): 256.0

First year: 1955

Max alt (m OD): 483

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg	10.240	6.190	11.470	3.587	3.151	2.143	2.545	4.222	3.575	11.340	9.425	7.574	6.289
	Peak	33.10	31.28	36.91	9.96	7.55	9.35	25.78	41.47	26.75	39.55	43.46	29.74	43.46
Runoff (mm)		107	58	120	36	33	22	27	44	36	119	95	79	777
Rainfall (mm)		105	60	147	44	69	44	76	94	113	164	117	70	1103

Monthly and yearly statistics for previous record (Oct 1955 to Dec 1980—Incomplete or missing months total 1.1 years)

Mean	Avg	5.836	5.532	3.933	3.409	2.861	2.254	2.316	2.885	3.200	3.695	5.043	6.012	3.907
Flows (m³ s⁻¹)	Low	1.639	1.686	1.694	1.742	1.286	0.707	0.875	0.464	0.651	1.300	1.804	2.296	2.728
	High	8.567	12.080	7.138	8.732	5.781	5.953	5.626	11.410	8.963	8.603	9.391	14.510	5.595
Peak flow (m³ s⁻¹)		43.95	39.29	36.21	60.43	63.02	34.19	41.50	39.64	35.05	41.18	44.35	46.19	63.02
Runoff (mm)		61	53	41	35	30	23	24	30	32	39	51	63	482
Rainfall (mm)		78	60	56	56	66	71	83	90	85	77	83	86	891

Factors affecting flow regime: S PGEI

1981 runoff is 161% of previous mean

rainfall 124%

069007 Mersey at Ashton Weir**1981**

Measuring authority NWWA
First year 1958

Grid reference SJ 772936
Level stn (m OD) 14.87

Catchment area (sq km) 660.0
Max alt (m OD) 636

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg	29.210	14.240	36.210	9.480	9.120	5.133	4.945	8.017	9.001	25.510	25.190	13.830
	Peak	176.90	105.10	176.70		27.37	20.50	20.69	102.60	81.26	202.50	303.70	55.56
Runoff (mm)		119	52	147	37	37	20	20	33	35	104	99	56
Rainfall (mm)		146	86	209	77	83	55	80	98	134	204	155	94

Factors affecting flow regime S PGEI
Station type CB

1981 runoff is 157% of previous mean

069015 Etherow at Compstall**1981**

Measuring authority NWWA
First year 1969

Grid reference SJ 962908
Level stn (m OD) 73.49

Catchment area (sq km) 156.0
Max alt (m OD) 628

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg	8.964	3.669	9.057	2.308	2.335	0.835	0.900	1.093	1.424	6.328	6.368	2.879
	Peak	35.03	29.79	37.56	13.93	7.17	5.86	5.83	7.83	20.45	33.34	35.83	12.02
Runoff (mm)		154	57	156	38	40	14	15	19	24	109	106	49
Rainfall (mm)		197	98	262	94	94	64	88	94	147	228	183	92

Monthly and yearly statistics for previous record (Jan 1977 to Dec 1980—Incomplete or missing months total 0.3 years)

Mean	Avg	4.673	5.659	5.841	2.962	2.685	1.758	1.476	2.068	1.977	3.614	5.312	5.236	3.596
Flows (m³ s⁻¹)	Low	3.933	2.141	3.392	1.291	0.540	1.258	1.161	0.965	1.178	1.264	2.990	3.947	3.111
	High	5.419	8.539	10.080	5.445	4.870	2.997	1.993	3.572	2.692	9.424	7.471	7.522	4.169
Peak flow (m³ s⁻¹)		26.05	44.46	46.03	27.50	18.79	24.95	15.22	24.43	37.45	42.12	34.44	62.95	62.95
Runoff (mm)		80	89	100	49	46	29	25	35	33	62	88	90	728
Rainfall (mm)		146	144	144	10	29	183	99	165	116	295	181	145	1657
'71980 only'														

Factors affecting flow regime S PGEI

Station type C

1981 runoff is 107% of previous mean
rainfall 99%

070004 Yarrow at Croston Mill**1981**

Measuring authority NWWA
First year 1973

Grid reference SD 498180
Level stn (m OD) 6.85

Catchment area (sq km) 74.4
Max alt (m OD) 456

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg	4.917	2.439	7.574	1.113	1.153	1.173	0.747	0.951	2.062	5.566	3.628	2.494	2.818
	Peak	30.04	18.27	93.13	11.21	11.28	13.88	2.30	6.84	28.57	21.02	30.85	11.38	93.13
Runoff (mm)		177	79	273	39	42	41	27	34	72	200	176	90	1200
Rainfall (mm)		129	69	211	55	101	70	59	72	155	194	122	74	1311

Monthly and yearly statistics for previous record (Jan 1976 to Dec 1980)

Mean	Avg	2.838	2.685	2.177	1.040	1.137	0.753	0.678	0.882	0.909	2.543	2.774	3.111	1.782
Flows (m³ s⁻¹)	Low	1.491	1.108	1.366	0.586	0.508	0.405	0.494	0.379	0.628	0.854	1.611	1.756	1.251
	High	3.990	4.917	3.236	1.866	2.577	0.958	0.971	1.352	1.434	6.360	4.485	4.853	2.589
Peak flow (m³ s⁻¹)		33.44	20.17	18.51	12.56	13.69	6.62	11.69	15.84	18.51	89.38	33.83	34.28	89.38
Runoff (mm)		102	89	78	36	41	26	24	32	32	92	97	112	761
Rainfall (mm)														

Factors affecting flow regime S PGEI

Station type MIS

1981 runoff is 158% of previous mean

071004 Calder at Whalley Weir**1981**

Measuring authority NWWA
First year 1961

Grid reference SD 729360
Level stn (m OD) 39.85

Catchment area (sq km) 316.0
Max alt (m OD) 558

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg	18.870	10.040	25.320	6.233	5.613	6.191	3.272	4.449	10.710	21.070	16.670	9.099	11.457
	Peak	147.70	146.10	185.20		22.58	49.67	15.95	43.01	123.60	117.30	138.30	63.46	
Runoff (mm)		160	77	215	51	48	51	28	38	88	178	137	77	1146
Rainfall (mm)		147	88	248	60	88	81	60	77	186	208	157	78	1478

Monthly and yearly statistics for previous record (Oct 1963 to Dec 1980—Incomplete or missing months total 2.6 years)

Mean	Avg	12.010	10.090	7.918	6.284	5.510	3.846	3.938	5.930	7.756	10.580	13.290	13.400	8.373
Flows (m³ s⁻¹)	Low	5.766	3.320	3.989	2.272	2.053	1.888	1.773	1.564	2.065	2.397	6.958	4.886	6.197
	High	18.010	17.170	17.100	13.010	9.916	7.155	9.059	16.280	18.620	23.910	21.990	25.610	10.945
Peak flow (m³ s⁻¹)		183.20	135.80	344.20	108.40	91.66	135.50	230.60	141.90	206.00	229.50	615.00	194.30	615.00
Runoff (mm)		102	78	67	52	47	32	33	50	64	90	109	114	836
Rainfall (mm)		115	85	89	75	83	81	92	102	119	116	135	124	1216
EI														

Factors affecting flow regime EI
Station type FV

1981 runoff is 137% of previous mean
rainfall 122%

071010 Pendle Water at Barden Lane**1981**

Measuring authority: NWWA
First year: 1971

Grid reference: SD 837351
Level stn (m OD) 92.28

Catchment area (sq km) 108.0
Max alt (m OD) 557

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 6 058	3 385	8 577	1 875	1 544	2 000	0 921	1 202	3 171	6 610	5 619	2 663	3 635
(m³ s⁻¹)	Peak 46.01	79.00	83.69	11.29	9.07	17.52	5.21	10.99	52.80	63.28	59.20	20.97	83.69
Runoff (mm)	150	76	213	45	38	48	23	30	76	164	135	66	1064
Rainfall (mm)													

Monthly and yearly statistics for previous record (Jan 1977 to Dec 1978)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg 3 667	3 805	3 262	2 262	1 330	1 074	0 867	1 306	2 667	2 220	4 327	4 058	2 561
(m³ s⁻¹)	Low 3 033	2 794	2 392	1 772	0 828	0 688	0 745	0 896	1 637	1 580	3 356	3 042	2 516
High 4 301	4 817	4 133	3 252	1 833	1 461	0 990	1.717	3 698	2 860	5 298	5 075	2 605	
Peak flow (m³ s⁻¹)	32.35	18.97	59.01	39.92	10.60	15.29	16.00	37.95	67.37	81.61	78.54	50.30	81.61
Runoff (mm)	91	85	81	54	33	26	22	32	64	55	104	101	748
Rainfall (mm)													

Factors affecting flow regime: S EI
Station type: FV

1981 runoff is 142% of previous mean

072002 Wyre at St Michaels**1981**

Measuring authority: NWWA
First year: 1962

Grid reference: SD 463411
Level stn (m OD) 4.36

Catchment area (sq km) 275.0
Max alt (m OD) 560

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 14 570	6 429	25 920	3 653	3 760	5 186	4 910	5 152	11 210	20 070	13 070	9 379	10 276
(m³ s⁻¹)	Peak 70.06	79.05	168.90	21.66	40.08	43.91	57.72	85.06	128.10	120.50	93.42	41.59	168.90
Runoff (mm)	142	57	252	34	37	49	48	50	106	196	123	91	1185
Rainfall (mm)	162	68	281	54	97	95	93	99	211	217	157	69	1603
Rainfall (mm)													

Monthly and yearly statistics for previous record (Oct 1963 to Dec 1980—Incomplete or missing months total 0.2 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg 8 531	7 304	5 720	4 798	3 466	2 690	2 909	4 432	6 472	8 430	10 060	10 030	6 232
(m³ s⁻¹)	Low 3 983	1 746	2 270	0 774	0 732	0 444	0 460	0 249	0 902	0 617	4 859	2 581	3 186
High 14 780	16 030	11 120	12 090	10 450	7 096	5 690	16 240	13 290	25 500	15 630	19 400	9 952	
Peak flow (m³ s⁻¹)	148.20	145.60	152.40	173.00	178.20	146.60	96.89	162.10	138.60	180.40	159.00	165.60	180.40
Runoff (mm)	83	65	56	45	34	25	28	43	61	82	95	98	715
Rainfall (mm)	113	77	84	73	80	89	94	108	134	130	139	122	1243
Rainfall (mm)													

Factors affecting flow regime: S PG
Station type: FV

1981 runoff is 166% of previous mean rainfall 129%

072004 Lune at Caton**1981**

Measuring authority: NWWA
First year: 1968

Grid reference: SD 529653
Level stn (m OD) 10.66

Catchment area (sq km) 983.0
Max alt (m OD) 736

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 56 680	34 890	113 800	15 230	16 170	33 020	14 040	11 410	52 200	72 610	75 800	23 180	43 253
(m³ s⁻¹)	Peak 302.80	674.50	650.20	74.26	155.70	213.50	115.80	88.30	395.10	536.00	541.50	130.20	674.50
Runoff (mm)	154	86	310	40	44	87	38	31	138	198	200	63	1390
Rainfall (mm)													

Monthly and yearly statistics for previous record (Jan 1959 to Dec 1976)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg 49 540	37 310	29 290	31 260	19 980	14 850	19 890	26 360	33 160	39 800	50 070	53 270	33 721
(m³ s⁻¹)	Low 6 621	3 840	11 830	4 202	2 565	3 387	4 980	2 165	2 791	4 312	27 220	18 730	24 696
High 81 700	76 630	72 890	67 970	39 670	49 180	41 480	69 640	63 650	134 400	97 220	93 770	46 501	
Peak flow (m³ s⁻¹)	591.40	108.10	165.40	94.39	228.20	212.70	281.40	83.56	322.70	284.70	364.20	149.00	591.40
Runoff (mm)	135	93	80	82	54	39	54	72	87	108	132	145	1082
Rainfall (mm)	144	96	110	96	94	93	113	133	152	136	164	148	1479
'1959-60 7979'													

Factors affecting flow regime: SRP
Station type: C8

1981 runoff is 128% of previous mean rainfall 129%

073002 Crake at Low Nibthwaite**1981**

Measuring authority: NWWA

First year: 1963

Grid reference: SD 294882

Level stn (m OD) 38.56

Catchment area (sq km) 7.30

Max alt (m OD) 803

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 8 646	3 507	9 085	1 868	2 485	4 273	2 148	1 601	5 452	9 270	7 666	3 687	4 974
(m³ s⁻¹)	Peak 25.64	6.78	19.73	5.31	3.54	8.57	5.84	3.19	17.11	23.16	16.05	11.54	26.64
Runoff (mm)	317	116	333	66	91	152	79	59	194	340	272	135	2165
Rainfall (mm)	265	112	348	70	131	150	154	107	356	341	317	108	2469
Rainfall (mm)													

Monthly and yearly statistics for previous record (Oct 1963 to Dec 1980—Incomplete or missing months total 1.4 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg 5 632	4 688	3 569	3 473	2 426	1 897	1 947	2 847	4 052	5 523	5 940	6 026	3 998
(m³ s⁻¹)	Low 2 306	1 463	1 656	0 882	0 255	0 222	0 745	0 292	0 330	2 256	2 394	2 454	2 928
High 10 410	8 201	7 999	6 017	4 841	5 372	3 824	5 622	6 533	12 960	9 030	9 896	4 877	
Peak flow (m³ s⁻¹)	18.95	17.44	14.66	13.91	12.13	8.24	11.50	11.11	14.29	30.01	21.51	29.49	30.01
Runoff (mm)	207	157	131	123	89	67	71	104	144	203	211	221	1729
Rainfall (mm)	220	138	171	124	123	124	139	169	217	225	246	227	2123
Rainfall (mm)													

Factors affecting flow regime: S

Station type: VA

1981 runoff is 125% of previous mean rainfall 116%

073005 Kent at Sedgwick**1981**

Measuring authority NWWA
First year 1968

Grid reference SD 509874
Level stn (m OD) 18 90

Catchment area (sq km) 209 0
Max alt (m OD) 820

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 12 680	8 160	22 750	3 350	4 612	9 278	3 356	2 261	11 370	17 940	15 010	5 466	9 686
Flows (m³ s⁻¹)	Peak 53 81	109 40	166 10	7 05	27 60	40 19	17 83	8 10	83 24	120 0	85 54	19 31	166 10
Runoff (mm)	162	94	292	42	59	115	43	29	141	230	186	70	1463
Rainfall (mm)	159	105	329	52	123	147	101	52	315	276	249	74	1982

Monthly and yearly statistics for previous record (Nov 1968 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 11 780	9 931	7 892	6 870	3 923	3 407	3 407	5 537	8 199	8 610	14 050	12 350	7 980
Flows (m³ s⁻¹)	Low 7 521	4 529	3 893	2 038	1 222	0 872	1 813	0 820	1 753	1 396	6 865	5 671	5 995
Flows (m³ s⁻¹)	High 20 820	16 800	15 980	12 620	6 969	13 010	8 291	10 920	15 310	16 440	20 300	22 380	10 316
Peak flow (m³ s⁻¹)	148 70	174 00	88 80	111 10	32 89	72 86	94 65	63 72	120 70	123 50	175 00	139 00	175 00
Runoff (mm)	151	116	101	85	50	42	44	71	102	110	174	158	1205
Rainfall (mm)	188	114	134	95	84	100	112	128	179	157	216	177	1684

Factors affecting flow regime
Station type CBVA

1981 runoff is 121% of previous mean
rainfall 118%

073008 Bela at Beetham**1981**

Measuring authority NWWA
First year 1969

Grid reference SD 496806
Level stn (m OD) 10 90

Catchment area (sq km) 131 0
Max alt (m OD) 338

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 6 209	4 017	13 390	1 877	1 446	3 381	1 235	1 36	4 098	8 437	7 999	3 286	4 709
Flows (m³ s⁻¹)	Peak 16 77	30 93	55 47	4 37	6 90	23 15	4 23	6 78	20 67	39 75	32 46	10 98	65 47
Runoff (mm)	127	74	274	37	30	67	25	23	81	173	158	67	1136
Rainfall (mm)	119	76	314	42	93	106	81	66	236	212	176	57	1578

Monthly and yearly statistics for previous record (Aug 1969 to Dec 1976—Incomplete or missing months total 13 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 5 231	4 193	2 172	3 169	1 312	1 546	1 316	1 561	2 731	3 234	5 006	4 061	2 850
Flows (m³ s⁻¹)	Low 2 508	3 088	1 495	0 888	0 574	0 483	0 534	0 501	0 807	1 091	3 027	1 589	2 193
Flows (m³ s⁻¹)	High 8 086	5 609	2 827	6 852	2 246	5 799	1 731	4 498	5 469	4 541	8 901	7 752	3 580
Peak flow (m³ s⁻¹)	37 59	23 93	16 28	46 13	8 40	23 93	25 61	21 46	27 35	25 06	27 48	25 61	46 13
Runoff (mm)	107	78	44	63	27	31	27	32	54	66	99	83	711
Rainfall (mm)	127	92	92	71	68	83	95	111	128	110	166	127	1265
(1969-1980)													

Factors affecting flow regime
Station type FV

1981 runoff is 160% of previous mean
rainfall 125%

074001 Duddon at Duddon Hall**1981**

Measuring authority NWWA
First year 1968

Grid reference SD 196896
Level stn (m OD) 14 79

Catchment area (sq km) 78 2
Max alt (m OD) 833

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 9 298	3 118	10 480	1 617	2 770	4 734	3 912	3 090	8 521	9 205	9 471	2 921	6 761
Flows (m³ s⁻¹)	Peak 135 40	28 68	67 31	11 50	29 31	37 60	47 27	56 92	123 40	100 80	76 64	29 31	135 40
Runoff (mm)	318	96	359	54	95	157	134	106	282	315	314	100	2331
Rainfall (mm)	321	125	373	82	132	198	197	140	367	354	324	129	2742

Monthly and yearly statistics for previous record (Mar 1968 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 7 483	5 626	4 571	3 812	2 007	1 886	2 562	3 207	5 411	6 675	7 636	6 825	4 804
Flows (m³ s⁻¹)	Low 3 921	2 651	1 701	0 497	0 324	0 547	0 639	0 402	0 560	1 416	4 227	3 041	3 351
Flows (m³ s⁻¹)	High 14 210	13 390	9 337	9 096	3 735	5 817	5 034	6 847	8 416	15 160	13 160	10 740	8 627
Peak flow (m³ s⁻¹)	130 30	97 11	90 38	43 57	23 38	18 93	27 86	96 58	74 33	165 30	129 20	104 90	165 30
Runoff (mm)	256	176	157	126	69	63	88	110	179	229	253	234	1938
Rainfall (mm)	254	145	164	118	94	114	138	152	217	223	255	219	2003

Factors affecting flow regime
Station type CB

1981 runoff is 120% of previous mean
rainfall +31%

074002 Irt at Galesyke**1981**

Measuring authority NWWA
First year 1967

Grid reference NY 136038
Level stn (m OD) 54 17

Catchment area (sq km) 44 2
Max alt (m OD) 978

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg 6 997	2 783	5 877	1 014	1 795	3 959	3 358	2 603	3 796	5 779	6 688	2 272	3 910
Flows (m³ s⁻¹)	Peak 26 71	7 48	13 96	3 06	3 87	10 18	10 07	11 08	13 44	15 05	14 56	8 27	26 71
Runoff (mm)	424	152	356	59	109	232	203	158	223	350	392	138	2797
Rainfall (mm)	259	176	366	73	176	249	206	166	365	362	394	121	2913

Monthly and yearly statistics for previous record (Dec 1967 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	Avg 4 154	3 084	2 611	2 975	1 432	1 568	2 227	2 462	3 631	4 297	4 958	4 061	3 120
Flows (m³ s⁻¹)	Low 1 690	0 943	0 737	0 430	0 257	0 457	0 797	0 569	0 400	0 554	2 870	1 802	2 440
Flows (m³ s⁻¹)	High 8 242	5 117	6 575	5 947	2 200	5 216	4 141	5 144	5 582	8 174	6 356	7 645	3 950
Peak flow (m³ s⁻¹)	22 87	18 67	16 74	34 04	6 19	10 27	27 26	18 46	17 89	27 29	21 85	20 33	34 04
Runoff (mm)	252	171	158	174	87	92	135	149	213	260	291	246	2228
Rainfall (mm)	331	196	220	166	125	169	195	208	288	298	347	300	2843
(1968-1980)													

Factors affecting flow regime

Station type VA

1981 runoff is 126% of previous mean
rainfall 102%

074005 Ehen at Braystones**1981**

Measuring authority: NWWA
First year: 1973

Grid reference: NY 009061
Level stn. (m OD) 10 11

Catchment area (sq km): 125 5
Max alt. (m OD): 899

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg	6 272	3 576	7 372	1 437	0 970	4 371	7 835	1 679	4 828	8 910	9 506	3 136	4 574
	Peak	23 46	24 06	38 01	3 31	6 29	30 96	20 89	11 20	29 09	50 58	57 83	8 81	57 83
Runoff (mm)		134	69	157	30	21	90	61	36	100	190	196	67	1150
Rainfall (mm)		159	96	240	47	103	145	151	91	242	276	275	69	1894

Monthly and yearly statistics for previous record (Jan 1974 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Mean flows (m³ s⁻¹)	Avg	8 108	7 022	4 995	3 182	1 816	1 413	1 543	3 782	6 000	7 355	8 468	7 445	5 083
	Low	4 881	2 011	2 225	0 993	0 771	0 779	1 160	0 661	1 694	3 640	5 005	3 845	3 963
(m³ s⁻¹)	High	16 030	15 890	10 220	5 945	3 264	2 821	1 973	7 699	8 921	14 080	11 770	13 380	6 328
Peak flow (m³ s⁻¹)		97 85	79 36	59 02	81 07	12 56	14 30	18 17	65 62	72 82	115 90	63 82	91 47	115 90
Runoff (mm)		173	137	107	66	39	29	33	81	124	157	175	159	1278
Rainfall (mm)		223	125	154	81	71	85	121	136	216	200	208	191	1811

Factors affecting flow regime: E
Station type: VA

1981 runoff is 90% of previous mean rainfall 105%

075002 Derwent at Camerton**1981**

Measuring authority: NWWA
First year: 1960

Grid reference: NY 038305
Level stn. (m OD) 16 70

Catchment area (sq km): 663 0
Max alt. (m OD): 950

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg	48 140	23 120	44 760	9 507	12 800	23 360	13 410	7 718	31 150	61 620	54 720	19 760	29 130
	Peak	128 50	91 83	125 50	32 98	21 31	70 54	55 93		141 40	200 50	211 30	68 43	
Runoff (mm)		194	84	179	37	52	91	54	31	127	249	214	80	1388
Rainfall (mm)		152	89	206	43	112	120	127	73	251	263	246	65	1747

Monthly and yearly statistics for previous record (Sep 1960 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Mean flows (m³ s⁻¹)	Avg	35 540	27 720	22 420	20 670	13 980	10 230	11 300	18 390	25 030	32 460	40 010	39 380	24 748
	Low	9 587	4 837	7 466	4 359	2 753	2 041	3 582	2 574	2 885	2 755	18 180	14 740	14 824
(m³ s⁻¹)	High	84 550	56 570	51 550	38 940	36 280	34 800	20 400	43 470	39 790	107 800	63 200	71 590	34 235
Peak flow (m³ s⁻¹)		219 20	165 70	107 10	145 50	99 56	135 80	80 19	216 20	140 10	264 70	195 80	194 00	264 70
Runoff (mm)		144	102	91	61	56	40	48	74	98	131	156	159	1178
Rainfall (mm)		179	105	130	102	104	111	116	145	186	187	194	176	1735

Factors affecting flow regime: S P
Station type: VA

1981 runoff is 118% of previous mean rainfall 101%

075004 Cocker at Southwaite Bridge**1981**

Measuring authority: NWWA
First year: 1967

Grid reference: NY 131281
Level stn. (m OD) 59 50

Catchment area (sq km): 116 6
Max alt. (m OD): 838

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg	7 544	3 974	7 874	1 567	2 375	5 005	7 797	1 692	7 175	11 390	10 360	3 031	5 399
	Peak	29 71		24 38	4 51	4 96	20 35	14 35	5 45	36 33	46 40	39 12	10 18	
Runoff (mm)		173	62	181	35	55	111	64	39	160	262	230	70	1462
Rainfall (mm)														

Monthly and yearly statistics for previous record (Dec 1967 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Mean flows (m³ s⁻¹)	Avg	7 539	5 380	4 380	4 100	2 041	2 006	2 252	3 176	5 202	6 337	8 787	7 445	4 881
	Low	3 996	2 009	1 270	0 677	0 528	0 633	0 807	0 738	0 718	0 668	4 528	3 995	3 134
(m³ s⁻¹)	High	17 190	9 483	10 010	9 001	3 621	9 122	4 085	6 282	9 779	13 960	12 220	12 750	5 821
Peak flow (m³ s⁻¹)		50 86	48 58	32 97	45 62	10 09	43 37	24 13	27 11	34 79	93 20	61 61	52 49	93 20
Runoff (mm)		173	113	101	91	47	45	52	73	116	146	195	171	1321
Rainfall (mm)		221	110	139	116	105	109	130	142	205	206	223	185	1891

Factors affecting flow regime: P
Station type: VA

1981 runoff is 111% of previous mean rainfall 101%

076015 Eamont at Pooley Bridge**1981**

Measuring authority: NWWA
First year: 1970

Grid reference: NY 472249
Level stn. (m OD) 144 17

Catchment area (sq km): 145 0
Max alt. (m OD): 950

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg	12 460	6 544	15 320	3 926	6 065	8 166	3 328	1 654	10 660	19 890	14 540	6 047	9 067
	Peak	28 33	17 06	29 87	11 40	10 04	16 90	6 32	3 34	40 71	56 55	29 30	19 12	56 55
Runoff (mm)		730	109	283	70	112	146	61	34	191	367	260	112	1976
Rainfall (mm)		182	141	303	68	166	154	119	56	375	353	315	100	2332

Monthly and yearly statistics for previous record (Jul 1970 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Mean flows (m³ s⁻¹)	Avg	11 830	10 140	7 820	5 699	3 421	3 046	2 735	4 047	5 938	7 241	13 330	12 800	7 319
	Low	5 967	2 813	3 185	1 842	0 757	0 597	1 232	0 726	0 949	0 841	3 953	5 423	3 959
(m³ s⁻¹)	High	24 100	21 430	16 860	10 160	7 292	11 340	5 430	6 611	12 010	13 430	21 230	23 550	9 209
Peak flow (m³ s⁻¹)		63 40	50 55	38 74	20 31	23 55	19 15	11 91	17 85	28 86	60 68	62 96	69 58	69 58
Runoff (mm)		219	171	144	102	83	54	51	75	106	134	238	236	1693
Rainfall (mm)		290	162	168	109	101	107	121	153	188	195	288	259	2141

Factors affecting flow regime: P
Station type: CC

1981 runoff is 124% of previous mean rainfall 109%

078003 Annan at Brydekirk**1981**

Measuring authority SRPB

First year 1967

Grid reference NY 191704
Level stn (m OD) 10 00Catchment area (sq km) 925 0
Max alt (m OD) 821

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg	40 400	26 980	52 150	12 530	11 820	32 020	10 450	4 654	42 040	50 110	46 210	19 530	29 076
	Peak	110 60	178 60	200 10	36 24	42 70	171 30	65 44	8 56	315 20	251 40	247 20	67 03	315 20
Rainfall (mm)		117	71	151	35	34	90	30	13	118	145	129	57	980
Rainfall (mm)		112	79	188	41	99	135	98	35	238	183	170	56	1432

Monthly and yearly statistics for previous record (Oct 1967 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Mean flows (m³ s⁻¹)	Avg	42 700	34 160	26 710	20 030	14 700	10 260	8 651	13 760	23 360	33 550	40 960	40 270	25 719
	Low	23 490	12 930	8 402	6 124	3 519	2 937	3 253	3 284	3 362	3 592	13 950	21 110	16 402
	High	83 440	51 490	53 770	40 600	28 890	32 150	16 180	47 880	47 490	86 820	70 350	68 170	32 319
Peak flow (m³ s⁻¹)		268 00	291 30	222 10	182 50	168 50	157 00	151 20	254 50	201 90	499 10	310 40	315 00	499 10
Rainfall (mm)		124	90	77	56	43	29	25	40	65	97	115	117	878
Rainfall (mm)		137	93	102	69	86	81	89	97	130	131	134	126	1276

Factors affecting flow regime

Station type VA

1981 runoff is 113% of previous mean rainfall 112%

078004 Kinnel Water at Redhall**1981**

Measuring authority SRPB

First year 1963

Grid reference NY 077868

Level stn (m OD) 53 70

Catchment area (sq km) 76 1

Max alt (m OD) 697

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg	3 986	2 319	4 706	0 805	1 271	2 698	0 854	0 202	4 336	4 737	4 752	1 081	2 646
	Peak	24 76	38 23	53 18	4 66	13 05	36 09	14 53	0 97	56 18	51 33	47 94	6 83	56 18
Rainfall (mm)		140	74	166	27	45	92	30	7	148	167	162	38	1085
Rainfall (mm)		130	94	207	50	108	144	109	37	289	214	177	63	1622

Monthly and yearly statistics for previous record (Oct 1963 to Dec 1980)—incomplete or missing months total 1.0 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Mean flows (m³ s⁻¹)	Avg	3 882	2 873	2 340	1 677	1 578	1 067	0 875	1 374	2 687	3 158	3 866	3 808	2 430
	Low	1 610	0 590	0 552	0 251	0 122	0 111	0 128	0 110	0 099	0 207	1 469	1 430	1 507
	High	8 456	5 061	5 124	4 161	3 715	3 282	1 763	4 363	4 985	7 288	6 819	7 009	3 083
Peak flow (m³ s⁻¹)		81 17	77 68	46 98	42 46	51 79	26 80	57 71	52 38	67 21	110 90	86 69	76 73	110 90
Rainfall (mm)		137	92	82	57	56	36	31	48	92	111	132	134	1008
Rainfall (mm)		138	97	110	79	101	89	89	107	145	140	147	143	1386

Factors affecting flow regime.

Station type VA

1981 runoff is 109% of previous mean rainfall 117%

080001 Urr at Dalbeattie**1981**

Measuring authority SRPB

First year 1963

Grid reference NX 822610

Level stn (m OD) 4 01

Catchment area (sq km) 199 0

Max alt (m OD) 432

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg	9 586	5 258	11 780	2 793	2 915	8 852	1 884	0 495	7 301	11 970	9 018	3 984	6 153
	Peak	32 47	60 02	73 72	17 15	10 56	44 86	21 71	0 87	79 94	87 34	84 01	31 76	87 34
Rainfall (mm)		129	64	159	36	39	89	25	7	95	161	117	54	976
Rainfall (mm)		125	82	189	49	104	121	98	24	241	188	166	55	1442

Monthly and yearly statistics for previous record (Nov 1963 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Mean flows (m³ s⁻¹)	Avg	9 048	7 762	5 455	3 543	3 018	1 980	1 199	2 301	4 999	7 138	9 293	9 310	5 408
	Low	3 534	1 419	2 094	0 753	0 308	0 246	0 164	0 164	0 319	0 522	3 229	3 369	3 109
	High	19 080	13 750	10 720	7 485	8 229	6 132	2 973	10 080	11 540	19 400	18 110	15 720	7 486
Peak flow (m³ s⁻¹)		113 40	91 45	68 48	61 69	53 50	34 97	66 15	61 69	84 28	109 00	95 58	106 30	113 40
Rainfall (mm)		122	95	73	46	41	26	16	31	65	96	121	125	858
Rainfall (mm)		125	91	98	87	81	79	76	95	128	128	140	128	1236

Factors affecting flow regime.

Station type VA

1981 runoff is 114% of previous mean rainfall 117%

081003 Luce at Airyhemming**1981**

Measuring authority SRPB

First year 1966

Grid reference NX 180599

Level stn (m OD) 19 00

Catchment area (sq km) 171 0

Max alt (m OD) 438

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows (m³ s⁻¹)	Avg	12 090	4 382	11 300	1 912	3 975	4 398	2 950	1 889	11 000	14 960	11 200	7 144	7 267
	Peak	92 99	75 25	96 05	21 56	42 37	64 10	55 02	40 05	192 40	192 90	83 41	172 00	182 90
Rainfall (mm)		189	62	177	29	62	67	48	30	167	234	170	112	1345
Rainfall (mm)		189	78	193	48	116	103	102	63	232	244	185	99	1852

Monthly and yearly statistics for previous record (Jan 1967 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Mean flows (m³ s⁻¹)	Avg	10 430	7 397	5 293	3 512	2 508	1 815	1 936	2 580	5 712	8 251	9 850	8 267	5 604
	Low	5 438	3 943	1 359	0 454	0 260	0 225	0 333	0 287	0 365	1 689	6 945	2 445	3 691
	High	15 600	12 110	10 190	8 289	7 232	4 587	5 399	6 806	12 820	18 750	13 770	13 120	7 626
Peak flow (m³ s⁻¹)		163 90	146 10	197 30	197 60	56 81	63 39	131 50	171 80	119 40	154 90	168 40	148 00	197 60
Rainfall (mm)		163	106	83	53	39	24	30	40	87	129	149	129	1034
Rainfall (mm)		170	103	103	74	77	78	91	98	140	151	161	132	1378

Factors affecting flow regime. S P

Station type VA

1981 runoff is 130% of previous mean rainfall 120%

082001 Girvan at Robstone**1981**

Measuring authority: CRPB
First year: 1963

Grid reference: NX 217997
Level stn. (m OD) 9.13

Catchment area (sq km) 245.5
Max alt. (m OD) 659

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg. 13 650	6 492	8 015	1 931	2 396	3 054	2 495	2 214	10 890	15 580	13 000	4 333	7 004
Peak (m³ s⁻¹)	94.01	53.83	50.77	5.12	10.32	25.26	26.82	24.99	82.62	147.20	51.07	20.32	147.20
Runoff (mm)	149	64	87	20	25	32	27	24	115	170	137	47	900
Rainfall (mm)	178	92	152	30	89	91	107	67	253	207	196	53	1515

Monthly and yearly statistics for previous record (Oct 1963 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg. 10 000	7 402	5 827	3 983	2 887	2 033	2 092	3 079	5 573	8 628	11 340	9 873	6 053
Flow (m³ s⁻¹)	Low 4 789	2 805	1 594	0 924	0 786	0 482	0 521	0 557	0 546	1.191	6 444	2 894	4 222
Peak flow (m³ s⁻¹)	High 19 370	12 990	11 520	11 340	8 256	5 682	6 317	7 487	11 880	17 380	20 230	19 450	7 803
Runoff (mm)	95.68	84.94	57.16	67.64	55.75	52.91	97.92	92.54	82.13	101.60	88.07	91.69	101.60
Rainfall (mm)	109	74	64	47	31	21	23	34	59	94	120	108	778
Rainfall (mm)	130	85	94	73	86	83	93	95	131	150	163	133	1316

Factors affecting flow regime:

Station type: VA

1981 runoff is 116% of previous mean rainfall 115%

083003 Ayr at Catrine**1981**

Measuring authority: CRPB
First year: 1970

Grid reference: NS 525259
Level stn. (m OD) 89.94

Catchment area (sq km) 166.3
Max alt. (m OD) 548

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg. 13 880	5 228	7 265	1 334	1 818	4 167	2 796	1 739	8 038	10 530	11 480	3 313	5 924
Peak (m³ s⁻¹)	178.50	93.52	47.73	5.37	16.73	60.69	38.54	45.58	112.20	162.60	87.68	26.49	178.50
Runoff (mm)	224	76	117	21	29	65	37	28	125	170	179	53	1124
Rainfall (mm)	196	74	149	23	75	106	85	48	201	206	201	40	1404

Monthly and yearly statistics for previous record (Sep 1970 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg. 7 880	4 973	4 682	2 826	1 743	1 592	1 480	2 358	4 678	5 841	7 724	6 850	4 366
Flow (m³ s⁻¹)	Low 3 423	2 287	1 050	0 525	0 507	0 556	0 362	0 353	0 425	0 443	3 040	2 941	3 223
(m³ s⁻¹)	High 13 800	6 568	10 780	6 676	4 537	3 887	3 280	6 597	11 800	10 990	12 900	13 180	5 813
Peak flow (m³ s⁻¹)	136.50	65.37	92.30	77.90	80.49	57.18	44.20	74.36	155.50	177.00	126.10	108.90	177.00
Runoff (mm)	127	73	75	44	28	25	24	38	73	91	120	110	829
Rainfall (mm)	136	92	79	74	72	84	92	76	106	128	153	125	1217

Factors affecting flow regime:

Station type: VA

1981 runoff is 136% of previous mean rainfall 115%

084001 Kelvin at Killermont**1981**

Measuring authority: CRPB
First year: 1948

Grid reference: NS 558705
Level stn. (m OD) 27.10

Catchment area (sq km) 335.1
Max alt. (m OD) 578

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg. 12 970	9 528	12 160	2 571	3 780	7 474	7 152	5 137	16 910	14 200	19 050	6 442	9.781
Peak (m³ s⁻¹)	47.24	65.88	71.44	4.60	14.48	35.07	24.54	8.87	75.46	71.14	60.95	22.47	76.48
Runoff (mm)	104	69	87	20	30	58	57	41	131	114	147	51	919
Rainfall (mm)	111	87	144	17	93	90	101	36	248	178	194	49	1348

Monthly and yearly statistics for previous record (Oct 1948 to Dec 1980)—incomplete or missing months total 1.1 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg. 11 730	9 169	7 875	5 697	4 593	3 696	4 328	5 816	7 984	10 470	12 020	12 920	8.023
Flow (m³ s⁻¹)	Low 4 772	2 111	3 018	1 602	1 875	1 463	2 057	1 357	1 585	1 959	3 840	5 825	5 538
(m³ s⁻¹)	High 22 310	17 330	15 120	9 899	9 833	10 850	7 571	11 000	16 240	32 970	21 520	21 280	13 078
Peak flow (m³ s⁻¹)	132.20	99.11	106.10	58.05	80.99	81.79	73.06	133.10	97.41	175.20	101.60	114.10	178.20
Runoff (mm)	94	67	63	44	37	29	35	46	62	84	93	103	765
Rainfall (mm)	114	80	76	69	80	77	96	107	118	119	119	131	1186

Factors affecting flow regime:

Station type: E

1981 runoff is 122% of previous mean rainfall 114%

084009 Nethan at Kirkmuirhill**1981**

Measuring authority: CRPB
First year: 1966

Grid reference: NS 809429
Level stn. (m OD) 121.78

Catchment area (sq km) 66.0
Max alt. (m OD) 522

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	Avg. 4 142	1 546	2 838	0 463	0 457	1 397	0 506	0 219	2 547	3 764	3 707	0 979	1.880
Peak (m³ s⁻¹)	34.35	31.39	35.56	0.91	3.51	23.21	6.82	1.88	45.98	38.52	25.54	5.22	45.98
Runoff (mm)	168	57	115	18	19	55	21	9	100	153	146	40	899
Rainfall (mm)	149	71	146	18	71	101	84	29	211	190	179	37	1288

Monthly and yearly statistics for previous record (Nov 1966 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean flows (m³ s⁻¹)	Avg. 2 268	1 913	1 731	1 054	0 880	0 460	0 434	0 580	1 119	1 801	2 592	2 310	1.426
Flow (m³ s⁻¹)	Low 1 374	0 910	0 515	0 310	0 199	0 230	0 159	0 144	0 182	0 167	0 866	0 916	1.093
(m³ s⁻¹)	High 4 850	3 217	3 542	2 191	1 989	1 671	1 214	1 965	2 305	3 362	5 125	5 153	1.805
Peak flow (m³ s⁻¹)	35.45	40.68	29.74	35.79	30.36	16.96	44.64	41.28	35.05	80.06	53.70	41.52	80.06
Runoff (mm)	92	71	70	41	36	18	18	24	44	73	102	94	682
Rainfall (mm)	123	85	75	58	83	67	84	78	100	117	130	104	1104

Factors affecting flow regime:

Station type: CC

1981 runoff is 132% of previous mean rainfall 116%

085001 Leven at Linnbrane**1981**

Measuring authority CRPB
First year 1963

Grid reference: NS 394803
Level stn. (m OD) 4 30

Catchment area (sq km) 784.3
Max alt. (m OD) 1130

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows ($m^3 s^{-1}$)	Avg	88 100	59 480	51 150	25 160	13 010	30 100	15 960	13 040	41 490	73 930	79 020	52 840	45 273
	Peak	137 00	82 84	69 22	56 39	22 58	49 87	32 50	21 19	100 80	103 70	104 20	100 50	137.00
Runoff (mm)		301	183	175	83	44	99	55	45	137	252	261	180	1816
Rainfall (mm)		206	139	229	19	155	124	128	43	359	264	319	76	2061

Monthly and yearly statistics for previous record (Jul 1963 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Mean flows ($m^3 s^{-1}$)	Avg	57 590	52 410	42 980	32 340	26 940	21 810	19 460	21 950	34 060	50 820	57 820	60 050	39 796
	Low	29 410	18 610	16 630	10 550	10 620	9 716	10 320	9 605	9 429	10 830	24 540	36 270	30 712
	High	19 100	102 100	98 470	51 390	51 100	51 860	30 690	40 070	64 980	90 150	96 320	91 240	49 875
Peak flow ($m^3 s^{-1}$)		150 50	140 80	122 20	83 14	71 90	66 58	57 64	56 96	86 75	115 20	130 00	131 00	150 50
Runoff (mm)		197	163	147	107	92	72	66	75	113	174	191	205	1601
Rainfall (mm)		236	146	142	108	137	132	130	132	187	210	213	211	1984

Factors affecting flow regime:

Station type VA

1981 runoff is 113% of previous mean rainfall 104%

094001 Ewe at Poolewe**1981**

Measuring authority HRPB
First year 1970

Grid reference: NG 859803
Level stn. (m OD) 4 61

Catchment area (sq km) 441.1
Max alt. (m OD) 1014

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows ($m^3 s^{-1}$)	Avg	72 460	46 880	24 670	10 990	10 360	14 070	13 520	13 340	36 800	55 260	72 480	37 900	34 081
	Peak	147 60	104 50	40 14	28 13	20 42	24 63	17 06	23 04	109 20	83 39	136 10	109 70	147 60
Runoff (mm)		440	257	150	65	63	83	82	81	216	336	426	230	2428
Rainfall (mm)		395	208	193	69	56	146	103	108	386	360	598	131	2753

Monthly and yearly statistics for previous record (Oct 1970 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Mean flows ($m^3 s^{-1}$)	Avg	35 680	25 770	23 060	23 590	15 370	15 600	14 420	14 270	28 220	32 340	48 400	44 800	26 819
	Low	18 550	12 980	8 842	4 537	3 862	6 475	9 364	7 437	8 046	13 160	22 680	16 500	19 389
	High	77 070	45 800	49 670	38 270	27 730	27 180	26 180	24 570	52 350	59 150	77 600	81 840	30 710
Peak flow ($m^3 s^{-1}$)		12 70	69 96	101 50	68 43	65 63	64 43	33 92	36 47	97 14	118 00	109 00	120 20	120.20
Runoff (mm)		277	143	140	139	93	92	88	90	166	196	284	72	1919
Rainfall (mm)		237	170	166	135	118	142	141	134	215	272	337	310	2377

Factors affecting flow regime: N

Station type VA

1981 runoff is 127% of previous mean rainfall 116%

095001 Inver at Little Assynt**1981**

Measuring authority HRPB
First year 1977

Grid reference: NC 147250
Level stn. (m OD) 60 30

Catchment area (sq km) 137.5
Max alt. (m OD) 988

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows ($m^3 s^{-1}$)	Avg	19 950	11 330	6 295	3 968	3 530	4 527	4 661	5 812	14 730	20 280	23 960	10 560	10 800
	Peak	55 25	31 02	12 66	13 15	7 85	6 45	8 30	9 46	56 50	31 98	50 06	46 65	56 50
Runoff (mm)		389	199	173	75	69	85	91	113	278	395	452	206	2473
Rainfall (mm)		329	182	197	83	70	153	107	121	335	378	527	126	2608

Monthly and yearly statistics for previous record (Aug 1977 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Mean flows ($m^3 s^{-1}$)	Avg	8 144	5 756	8 915	5 325	3 556	4 037	6 564	5 044	10 560	13 960	15 540	10 240	8 147
	Low	6 949	5 045	4 402	3 453	1 660	3 092	4 273	3 394	5 263	6 272	13 010	4 631	8 410
	High	9 900	6 410	13 250	7 552	6 247	4 805	10 340	8 002	13 390	21 180	18 170	17 580	8 861
Peak flow ($m^3 s^{-1}$)		17 02	19 41	37 30	10 99	9 73	19 72	14 90	13 16	28 35	57 51	34 70	44 40	57 51
Runoff (mm)		159	102	174	100	69	76	128	98	199	272	293	200	1870
Rainfall (mm)														

Factors affecting flow regime: N

Station type VA

1981 runoff is 132% of previous mean

096001 Halladale at Halladale**1981**

Measuring authority HRPB

First year 1975

Grid reference: NC 891561

Catchment area (sq km) 204.6
Max alt. (m OD) 580

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Flows ($m^3 s^{-1}$)	Avg	11 260	4 998	6 261	0 671	0 700	2 637	0 489	0 720	7 886	16 560	10 030	8 674	5 907
	Peak	83 60	53 84	45 83	4 20	7 1	22 15	3 07	6 66	189 10	126 00	64 21	115 40	189 10
Runoff (mm)		147	59	82	9	9	33	6	9	100	217	127	114	913
Rainfall (mm)		158	65	124	36	37	96	48	50	153	256	180	115	1318

Monthly and yearly statistics for previous record (Jan 1976 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year	
Mean flows ($m^3 s^{-1}$)	Avg	8 608	6 796	5 393	3 548	2 466	1 812	2 276	1 968	3 812	6 054	9 914	7 525	5 003
	Low	5 333	3 801	2 907	0 624	0 279	0 283	0 215	0 188	2 181	2 295	2 510	3 004	3 420
	High	11 900	10 940	9 753	6 442	5 434	3 528	4 943	3 386	6 125	13 230	14 730	12 390	6 418
Peak flow ($m^3 s^{-1}$)		83 52	68 52	106 90	53 18	108 00	46 89	129 10	76 31	69 45	110 60	163 20	84 22	163 20
Runoff (mm)		113	81	71	45	32	23	30	26	48	79	126	99	772
Rainfall (mm)														

Factors affecting flow regime: N

Station type VA

1981 runoff is 118% of previous mean

101002 Medina at Upper Shide**1981**

Measuring authority: SWA
First year: 1960

Grid reference: SZ 503874
Level stn. (m OD) 10.40

Catchment area (sq km): 29.8
Max alt. (m OD): 167

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	0.252	0.259	0.903	0.306	0.288	0.212	0.163	0.149	0.246	0.413	0.301	0.517	0.334
Peak	0.64	1.60	7.28	1.15			0.31	0.64	2.66	1.70	1.42		
Runoff (mm)	23	21	81	27	26	18	15	13	21	37	26	46	355
Rainfall (mm)	39	48	191	35	97	34	58	32	153	130	43	115	975

Monthly and yearly statistics for previous record (Oct 1965 to Dec 1980—Incomplete or missing months total 20 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	0.448	0.498	0.795	0.248	0.205	0.138	0.142	0.117	0.178	0.205	0.388	0.374	0.268
Flows (m³ s⁻¹)	0.150	0.160	0.133	0.104	0.094	0.069	0.083	0.044	0.080	0.110	0.120	0.116	0.261
Low	0.623	0.760	0.445	0.522	0.356	0.199	0.199	0.180	0.365	0.411	0.769	0.611	0.261
High	5.86	6.00	4.20	5.44	4.90	1.79	3.72	1.74	3.74	4.15	8.64	5.52	8.64
Peak flow (m³ s⁻¹)	40	41	27	22	18	12	13	10	15	18	34	34	284
Runoff (mm)	97	104	96	46	58	62	68	70	40	79	71	126	912
'(1977-1980)													

Factors affecting flow regime:
Station type: FL

1981 runoff is 125% of previous mean rainfall 107%

201007 Burn Dennet at Burndennet Bridge**1981**

Measuring authority: DOEN
First year: 1975

Grid reference: IC 372047
Level stn. (m OD) 2.00

Catchment area (sq km): 145.3
Max alt. (m OD): 539

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	8.234	4.805	4.693	1.722	3.905	2.707	3.104	1.188	6.470	8.642	5.150	4.555	4.598
Peak	60.41	56.69	33.66	3.08	34.15	19.95	66.01	6.78	107.30	89.84	52.03	35.05	107.30
Runoff (mm)	152	80	87	31	72	48	57	22	115	159	92	84	999
Rainfall (mm)	130	77	102	39	121	86	110	48	167	183	100	75	1238

Monthly and yearly statistics for previous record (Jan 1976 to Dec 1980—Incomplete or missing months total 01 years)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	6.496	4.976	3.937	2.529	2.116	1.565	1.858	1.853	3.096	4.104	6.078	6.319	3.739
Flows (m³ s⁻¹)	4.633	2.652	2.491	1.638	0.914	0.898	1.068	0.614	0.692	2.852	3.368	4.024	2.833
Low	7.839	7.714	5.308	3.615	3.189	2.220	4.098	4.031	5.486	6.698	8.494	8.534	4.412
High	120	84	73	45	39	28	34	34	55	76	108	116	812
Peak flow (m³ s⁻¹)	119	73	95	56	74	74	82	65	104	112	125	111	1090

Factors affecting flow regime: E
Station type: VA

1981 runoff is 123% of previous mean rainfall 114%

203010 Blackwater at Maydown Bridge**1981**

Measuring authority: DOEN
First year: 1970

Grid reference: IH 820519
Level stn. (m OD) 15.00

Catchment area (sq km): 951.4
Max alt. (m OD): 362

Hydrometric statistics for 1981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Flows (m³ s⁻¹)	30.390	18.390	42.850	7.23	18.610	17.480	3.616	1.719	15.910	29.570	23.020	25.980	19.555
Peak	60.75	64.0	73.48	103.50	45.59	50.69	22.7	3.65	51.44	73.54	52.79	58.39	103.50
Runoff (mm)	86	47	121	19	52	48	10	5	43	83	63	73	650
Rainfall (mm)	88	62	142	46	117	71	69	26	153	113	81	78	1048

Monthly and yearly statistics for previous record (Oct 1970 to Dec 1980)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
Mean	32.310	26.450	18.000	11.530	7.211	4.831	3.403	6.314	9.203	15.350	27.820	28.640	15.871
Flows (m³ s⁻¹)	17.470	13.030	8.362	3.399	1.435	1.031	1.048	0.686	1.945	2.003	10.100	10.270	9.054
Low	47.630	52.550	32.420	29.050	17.420	13.340	7.328	12.880	28.200	31.960	52.220	50.660	19.217
High	91	68	51	31	20	13	10	18	25	43	76	81	528
Peak flow (m³ s⁻¹)	107	84	75	52	60	56	70	75	87	85	108	89	948

Factors affecting flow regime: N

Station type: VA

1981 runoff is 123% of previous mean rainfall 110%

THE SURFACE WATER DATA RETRIEVAL SERVICE

The surface water archive comprises some 20,000 station years of daily river flows and incorporates data from over 1000 gauging stations throughout the United Kingdom. In addition to gauged flow data, naturalised data have been derived from the records of a small number of gauging stations. Catchment areal rainfall and the highest instantaneous flow, when available, are also archived on a monthly basis.

In order that the contents of the archive may be readily accessible, a suite of programs has been developed to provide a selection of retrieval options. Descriptions of these options are listed below, and examples of the computer output are given on pages 121 to 127. The data retrieval programs have been designed to allow flexibility in the presentation of a number of the options, particularly those producing graphical output. Before finalising a data request it is recommended that the concise register of gauging stations on pages 128 to 133, and the summary of archived data given on pages 134 to 141, be consulted to check the availability of suitable data sets.

In response to user requirements the data retrieval facilities are being continually extended. A wide range of specialist analyses and presentations is now available. Individuals having data requirements not catered for in the standard retrieval suite are invited to discuss their particular needs - address below.

Retrievals are normally available on line printer listings or magnetic tape, or as hydrograph plots.

Cost of Service

To cover the computing and handling costs, a

moderate charge will be made depending on the output options selected. Estimates of these charges may be obtained on request; the right to amend or waive charges is reserved.

Requests for retrieval options

Requests for retrieval options should include: the name and address to which the output should be directed, the gauging stations for which data are required together with the period of record of interest and the title of the required options. Where possible, a daytime telephone number should be given.

Requests should be addressed to:

Surface Water Archive
Institute of Hydrology
Maclean Building
Crowmarsh Gifford
WALLINGFORD
OXFORDSHIRE OX10 8BB

Telephone: Wallingford (0491) 38800

Hydrological Data at the Institute of Hydrology

The surface water archive is one of several major sources of hydrological data held at Wallingford. Others include an archive of flood peaks from over 600 catchments and a flood event archive comprising rainfall and river flows at short time intervals for over 3000 individual events. Data may be retrieved from these sources in a variety of formats. Enquiries concerning the availability and use of such data should be directed to the above address.

LIST OF SURFACE WATER RETRIEVAL OPTIONS

OPTION NUMBER	TITLE	NOTES
1	Table of daily mean gauged discharges	Includes monthly and annual summary statistics. Flows in cubic metres per second.
	Table of daily mean naturalised discharges	Includes monthly and annual summary statistics. Flows in cubic metres per second.
	Yearbook data tabulation (daily)	River flow and catchment rainfall data for a specified year together with basic gauging station details and flow statistics derived from the historical record.
	Table of monthly mean gauged discharges	Includes monthly and annual summary statistics. Flows in cubic metres per second.
	Table of monthly mean naturalised discharges	Includes summary statistics. Flows in cubic metres per second.

Yearbook data tabulation (monthly)	Monthly river flow and catchment rainfall data for a specified year together with comparative statistics derived from the historical record.
Table of monthly extreme flows	The lowest and highest daily mean flows, together with the highest instantaneous flow (when available). Flows in cubic metres per second. Includes summary statistics.
Table of catchment monthly rainfall	Rainfall totals in millimetres and as a percentage of the 1941-70 catchment average. Includes summary statistics.
Table of catchment monthly areal rainfall and runoff	Runoff is normally derived from the monthly mean gauged flow. An additional listing is provided for catchments with naturalised flow records. A monthly summary is provided and all rainfall and runoff totals are in millimetres.
Hydrographs of daily mean flows	Choices of scale, units, truncation level and overlay grid pattern are available. The period of record maximum and minimum flows, or the mean flow, may be included. The plots may be based on single or n-day means or on n-day running mean flows.
Hydrographs of monthly mean flows	Choices of scale, unit and overlay grid pattern are available. The period of record maximum, minimum and mean flows may be included.
Flow duration statistics	Tabulation of the 1-99 percentile flows with optional plot of the flow duration curve. The percentiles may be derived from daily flows or 'n' day averages and the analysis may be restricted to nominated periods within the year eg April-September only. Choices of scales, grid marking and units are available and the percentiles may be expressed as a percentage of the average flow or of a nominated flow.
Table of gauging station reference information	Tabulation of selected gauging station details and catchment characteristics for nominated gauging stations.
Table of hydrometric statistics	Provides a comparison between summary statistics for a selected year, or a group of years, and the corresponding statistics for a nominated period of record.
Gauging station description	A brief summary of the gauging station, its history and major influences on the flow regime.

Examples of these fifteen options follow on pages 121 to 127.

OPTION 1 TABLE OF DAILY MEAN GAUGED DISCHARGES

050001 TRAM AT UMBALLION						DAILY MEAN GAUGED DISCHARGES IN CUBIC METRES PER SECOND								
						1961								
DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
1	19.190	10.920	32.280	13.900	6.922	16.710	3.006	3.269	1.272	39.130	11.220	31.630		
2	19.140	11.980	40.710	12.020	13.230	29.010	3.125	2.252	1.305	61.770	35.000	27.470		
3	23.450	43.550	28.700	10.550	18.080	16.470	3.740	1.919	1.235	105.200	29.010	23.160		
4	17.580	28.340	33.290	9.821	16.300	15.690	3.109	1.652	1.152	78.200	21.830	20.640		
5	15.950	27.470	31.020	8.913	17.550	13.640	3.043	2.092	1.109	56.640	20.230	17.630		
6	15.520	19.190	21.440	6.290	19.040	12.160	3.231	0.561	1.076	44.100	17.230	16.600		
7	13.530	17.750	33.450	7.571	17.730	11.390	2.667	4.332	1.079	33.600	15.170	31.070		
8	12.870	16.930	37.610	7.316	15.710	10.670	2.551	3.192	1.106	30.160	13.260	89.530		
9	16.150	20.360	25.340	7.043	13.770	9.551	2.263	2.787	1.096	33.160	11.630	41.100		
10	14.700	16.420	17.500	6.694	29.540	10.960	2.174	2.405	2.226	31.000	10.580	40.460		
11	11.590	15.290	16.900	7.114	17.620	17.360	2.037	1.700	1.830	30.730	10.360	89.390		
12	19.250	15.010	107.300	5.962	14.770	10.960	2.064	2.037	2.238	29.440	9.672	41.650		
13	15.650	13.250	55.870	5.327	12.980	9.766	2.115	1.920	2.268	23.160	9.361	10.380		
14	80.200	11.560	64.950	5.040	17.020	9.056	2.013	1.656	2.416	21.270	7.665	136.100		
15	59.900	11.250	47.040	4.876	18.840	8.386	1.993	1.810	2.032	35.210	7.235	76.780		
16	59.230	10.400	16.100	4.583	16.690	7.674	1.997	1.666	2.515	23.060	7.129	48.700		
17	59.010	9.654	28.150	4.267	13.340	7.013	1.939	1.564	2.431	26.560	9.770	35.680		
18	61.550	8.956	23.000	4.017	28.670	6.393	1.814	1.518	21.100	25.060	31.920	26.940		
19	51.240	8.265	19.490	3.645	21.690	5.996	1.510	1.597	2.089	32.080	45.490	22.260		
20	51.280	7.799	16.960	3.871	24.960	5.551	1.682	2.931	34.500	76.020	55.820	63.240		
21	57.170	11.540	54.130	3.520	18.270	4.922	2.531	2.170	23.510	57.400	41.600	40.630		
22	44.360	15.310	57.040	3.354	16.660	4.532	1.867	1.667	17.760	42.990	32.140	29.310		
23	36.600	31.930	44.350	3.370	18.970	4.320	5.221	1.727	14.530	32.740	27.850	23.180		
24	32.150	16.960	39.990	3.736	23.800	4.180	3.528	1.605	20.270	75.240	22.910	18.880		
25	25.910	14.590	38.440	4.100	31.200	3.912	2.766	1.512	16.870	100.000	19.190	16.110		
26	21.520	13.620	69.640	10.110	25.570	3.759	2.607	1.622	15.610	61.880	19.630	16.300		
27	16.390	24.220	32.660	24.990	24.870	3.541	2.319	1.355	15.740	45.610	35.860	42.330		
28	15.460	22.770	26.930	13.750	20.650	3.146	2.511	1.310	12.460	40.030	38.720	65.170		
29	14.910	22.310	21.370	15.340	3.165	2.000	1.179	12.930	30.140	30.410	30.410	74.150		
30	13.190	16.360	10.390	16.430	3.035	1.892	1.256	16.350	60.950	44.110	66.900			
31	11.850	15.890	15.370			2.710	1.224			32.860		53.840		
MISSING DAYS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0														
MEAN	29.817	15.857	52.155	7.276	19.552	9.114	2.359	1.708	9.896	47.732	24.273	46.358		
MIN	11.690	7.799	15.690	3.320	8.922	3.035	1.814	1.224	1.078	21.270	7.235	16.110		
MAX	82.720	43.450	223.400	24.990	33.340	29.010	6.875	8.361	42.080	103.200	55.820	136.100		
MONTHLY TOTALS (CUMULATIVE)														
1	924.82	471.59	1616.45	233.29	606.10	273.47	85.23	65.44	296.87	1479.68	726.39	1436.74		
SUMMARY MAX = 223.400 US 9 MAY														
MIN = 1.078 US 6 SEP														
MEAN = 22.529														

OPTION 2 TABLE OF DAILY MEAN NATURALISED DISCHARGES

039001 TRAMES AT KINGSTON						DAILY MEAN NATURALISED DISCHARGES IN CUBIC METRES PER SECOND								
						1961								
DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
1	73.100	67.000	83.120	228.000	164.000	99.160	52.900	32.200	31.100	113.000	83.400	67.400		
2	71.700	66.700	134.000	227.300	86.200	192.000	50.700	50.810	11.000	164.000	62.000	72.400		
3	67.800	68.100	212.000	192.000	87.310	209.000	50.700	51.200	31.700	60.300	66.600			
4	55.700	79.100	196.000	135.000	96.700	192.000	48.700	62.300	30.900	77.600	62.600	59.100		
5	65.200	61.100	119.000	93.400	106.010	106.010	48.900	40.600	29.000	77.100	65.100	58.600		
6	68.500	61.000	117.000	85.000	102.070	102.070	45.500	22.300	29.200	33.100	61.100	69.500		
7	69.300	60.200	128.000	151.000	91.100	65.500	125.000	29.600	11.100	65.600	51.800			
8	76.340	62.700	169.000	104.000	78.200	53.000	48.000	29.100	30.300	75.300	61.000	126.000		
9	74.000	63.200	161.000	96.340	77.500	81.100	45.100	67.600	29.700	74.100	60.600	127.000		
10	75.700	55.200	241.000	103.000	92.600	82.600	43.500	64.500	31.500	79.100	71.100	104.000		
11	82.300	67.800	167.000	101.000	97.100	90.350	39.800	60.800	31.300	78.900	57.600	98.900		
12	60.300	57.300	277.200	97.100	89.900	81.100	44.900	36.100	36.100	76.600	57.500			
13	75.700	53.100	273.000	96.000	74.000	78.300	32.700	40.100	37.700	73.700	63.800	91.100		
14	76.800	51.000	269.000	122.000	71.400	73.800	41.200	41.500	36.500	72.200	55.400	92.000		
15	99.400	56.700	174.000	114.000	77.700	71.300	43.200	40.600	37.600	71.200	53.100	114.000		
16	107.000	59.900	253.000	84.900	92.700	67.100	50.800	38.600	38.600	71.300	56.600	97.600		
17	60.300	57.300	216.000	83.000	91.200	67.600	45.500	37.200	36.700	69.600	53.700			
18	121.000	55.100	160.000	82.900	91.100	65.900	44.000	37.700	39.900	65.700	56.600	105.000		
19	117.000	54.500	159.000	74.200	92.000	66.100	41.600	37.600	41.600	61.100	47.600	116.000		
20	109.000	56.300	127.000	76.100	96.000	64.300	37.400	36.000	36.000	104.000	121.000			
21	109.000	53.100	117.000	75.100	124.000	64.200	36.300	36.300	36.300	129.000	136.000			
22	113.000	52.650	173.000	75.100	123.000	64.100	35.800	53.200	36.200	107.000	75.600	99.700		
23	111.000	56.100	208.000	73.100	95.400	61.000	35.200	36.100	35.200	102.000	97.300			
24	95.500	60.100	164.000	72.400	111.000	61.700	35.300	35.300	35.300	92.000	95.400	101.000		
25	86.100	59.100	164.000	73.100	127.000	61.000	36.000	34.900	34.900	101.000	91.100	102.000		
26	78.500	61.0												

OPTION 3 YEARBOOK DATA TABULATION (DAILY)

05000:

Tawakkae Uabarleigh

Measuring authority: SWMA

Grid reference: SS608237

Catchment area (sq km): 826.2

First year: 1958

Level stn. (m OD): 14.14

Max alt. (m OD): 604

DAILY MEAN GAUGED DISCHARGES (cubic metres per second)

May	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	55.540	16.580	32.590	8.793	2.961	1.481	3.408	2.565	2.481	11.570	12.900	18.040
2	44.350	14.980	47.170	8.223	2.900	1.404	3.215	2.355	2.459	16.530	12.920	15.860
3	39.740	13.270	71.030	7.983	3.454	1.824	2.920	2.179	2.266	17.900	11.200	13.900
4	43.330	12.030	45.610	7.400	3.646	1.883	2.644	2.037	2.254	24.500	13.800	14.580
5	61.630	29.340	34.130	7.032	3.957	1.468	2.492	2.248	2.242	26.310	35.990	12.900
6	47.220	20.720	68.100	8.518	4.265	1.322	2.325	2.974	2.354	24.700	36.590	12.130
7	37.700	20.410	63.780	17.120	3.157	1.263	2.215	2.347	2.468	19.650	124.300	44.020
8	70.190	16.880	49.530	10.250	2.891	1.204	2.005	2.012	2.319	16.220	96.670	38.800
9	64.400	17.320	62.320	7.853	2.742	1.193	2.507	1.907	2.242	14.040	33.580	104.300
10	38.680	16.780	75.100	7.298	2.652	1.170	2.267	1.940	2.105	14.970	43.580	132.400
11	128.550	38.260	51.800	8.897	2.494	1.351	13.580	1.680	1.979	39.210	41.030	105.300
12	22.210	32.680	58.890	6.468	2.349	2.070	77.330	1.693	1.939	29.550	117.200	97.190
13	18.400	30.180	39.020	6.125	2.265	1.870	25.960	2.917	1.802	31.830	100.900	60.400
14	16.590	23.040	33.220	5.656	2.221	1.375	25.070	2.937	1.712	26.160	85.790	81.680
15	34.080	19.950	101.000	5.622	2.218	1.229	16.550	5.925	1.718	22.720	59.250	78.900
16	111.600	17.310	92.820	5.272	2.254	1.233	12.270	3.144	1.655	51.730	70.870	
17	77.900	15.720	61.230	4.995	2.139	1.165	9.724	2.562	1.614	37.310	50.120	85.400
18	61.970	14.420	43.950	4.040	2.076	2.365	8.104	3.979	1.546	35.180	58.710	61.470
19	48.630	12.680	41.430	6.612	2.040	3.246	8.760	3.467	1.595	25.920	54.270	170.000
20	38.170	11.330	32.000	6.427	2.030	1.932	5.789	2.564	1.760	36.880	45.640	97.780
21	34.560	15.330	38.170	4.270	2.072	1.546	5.126	2.168	2.211	56.460	87.420	66.540
22	32.700	19.450	27.910	4.165	2.815	2.336	4.590	2.137	2.249	39.990	60.730	47.950
23	26.630	12.880	23.870	3.903	2.596	6.278	4.230	2.229	2.293	30.220	55.170	50.290
24	26.710	11.770	21.070	3.692	2.238	4.353	4.015	2.362	12.840	24.060	63.740	54.570
25	24.830	16.350	18.340	3.546	2.031	3.678	3.689	10.623	20.490	55.550	42.180	
26	39.890	13.660	16.050	3.408	1.845	9.491	3.249	2.486	7.515	17.240	45.080	35.430
27	29.160	13.970	14.190	3.286	1.756	6.750	2.986	2.883	14.970	14.320	35.870	29.480
28	27.260	19.720	12.550	3.187	1.663	5.362	2.764	2.252	12.660	12.260	30.590	24.210
29	24.700	11.280	31.126	3.126	1.609	5.605	2.646	2.073	12.392	10.990	14.300	20.670
30	21.050	10.050	31.074	1.508	4.099	2.537	2.637	10.030	9.886	20.420	17.980	
31	18.170	9.077	5.477	2.477	2.583	2.652	9.246					
Average	40.860	18.540	42.170	6.041	2.462	2.723	8.563	2.585	4.278	24.260	52.830	55.450
Lowest	16.590	11.330	9.077	3.074	1.677	1.165	2.030	1.693	1.546	9.246	11.200	12.130
Highest	111.600	38.260	101.000	17.120	4.265	9.491	77.330	5.925	14.970	56.460	124.300	170.000
Peak flow	127.600	55.380	143.900	23.890	5.538	12.680	162.200	7.727	25.400	72.350	215.200	241.100
Day of peak	16	13	15	7	6	27	12	15	24	17	8	19
Monthly total (million cu m)	109.40	44.84	112.90	15.86	6.59	7.06	22.94	6.92	11.09	64.96	136.90	148.50
Rainfall (mm)	132	54	137	19	8	9	28		13	79	166	180
Runoff (mm)	100	78	143	24	37	116	67		81	129	192	179

STATISTICS OF MONTHLY DATA FOR PREVIOUS RECORD (Oct 1958 to Dec 1981)

Mean flows:	Avg.	34.490	29.840	20.620	13.730	9.404	5.488	4.782	3.648	8.228	18.950	27.980	36.080
	Low	6.657	3.264	7.918	3.889	2.073	1.634	0.798	0.423	0.481	1.043	3.653	13.210
	(year)	1963	1959	1962	1974	1976	1976	1976	1976	1959	1978	1963	
	High	50.890	54.780	52.140	32.800	22.140	16.630	23.390	14.640	47.670	77.360	58.500	73.670
	(year)	1965	1970	1981	1966	1969	1972	1968	1965	1974	1960	1963	1965
Rainfall:	Avg.	112	88	67	43	30	17	16	18	26	61	88	117
	Low	22	10	26	12	7	5	3	1	3	11	43	
	High	165	180	169	103	72	52	76	47	150	251	184	239
Rainfall:	Avg.	127	91	89	70	72	66	74	87	93	112	127	137
	Low	28	5	18	8	28	10	23	33	14	14	56	41
	High	216	173	183	145	164	164	152	140	247	276	239	271

SUMMARY STATISTICS

	FOR 1982			FOR RECORD			AS 1 OF			FACTORS AFFECTING FLOW REGIME		
	PRECLDING 1982			PRE-1982			1982			Pre reservoir(s) in catchment.		
Mean flow (m³/s)	21.810			17.890			122			Abstraction for public water supplies.		
Lowest yearly mean	11.310			27.590			1964			Augmentation from effluent returns.		
Highest yearly mean	52.590			27.360			1960					
Lowest monthly mean	2.462			May			0.423			Aug 1976		
Highest monthly mean	55.450			Dec			77.360			Oct 1960		
Lowest daily mean	1.165			17 Jun			0.200			28 Aug 1976		
Highest daily mean	170.000			19 Dec			363.800			4 Dec 1960		
Peak	241.100			19 Dec			644.900			4 Dec 1980		
10 Xile	59.730			45.930			130					
50 Xile	12.030			9.472			127					
95 Xile	1.612			1.250			129					
Annual total (million cu m)	687.80			564.60			122					
Annual runoff (mm)	832			683			122					
Annual rainfall (mm)	1239			1145			108					
[1961-70 rainfall average (mm)]	1183											

STATION DESCRIPTION

Velocity-area station

OPTION 4 TABLE OF MONTHLY MEAN GAUGED DISCHARGES

MONTHLY MEAN GAUGED DISCHARGES IN CUBIC METRES PER SECOND												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1979	30.918	32.905	44.410	45.654	32.801	7.679	1.956	11.910	5.314	9.371	36.082	51.477
1980	28.179	43.619	27.454	14.487	2.415	9.640	8.768	5.610	11.427	40.530	26.949	33.352
1981	27.026	16.857	52.143	7.777	19.551	9.113	7.746	2.709	9.697	47.732	26.212	46.347
1982	40.863	18.536	42.171	6.040	2.462	7.722	6.563	2.565	4.276	24.256	52.833	55.450
1983	46.920	19.180	14.436	17.895	36.998	9.472	1.650	0.836	3.245	14.976	11.134	46.906
1984	62.101	36.467	7.349	5.457	7.255	1.329	0.793	0.802	3.585	20.636	49.390	37.380
MEAN	40.134	27.961	31.344	11.216	12.747	5.893	4.083	3.995	6.292	26.251	33.767	45.152
MIN	28.179	16.857	7.449	5.457	2.255	1.329	0.793	0.802	3.245	9.371	11.134	33.352
MAX	62.101	43.619	52.143	17.895	36.998	9.640	8.768	11.910	11.427	47.732	52.833	55.450

THE SINGER RELATES EXCLUSIVELY TO THE YEARS SINCE.

OPTION 5 TABLE OF MONTHLY MEAN NATURALISED DISCHARGES

MONTHLY MEAN NATURALISED DISCHARGES IN CUBIC METRES PER SECOND												
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1979	125.200	168.700	203.200	185.700	135.900	108.600	45.900	42.090	30.640	34.450	46.870	145.800
1980	145.100	162.200	137.800	106.700	49.860	43.300	40.200	37.400	38.010	75.420	75.540	90.820
1981	68.970	60.530	199.300	123.900	118.400	84.170	40.600	44.610	51.900	95.810	78.720	142.200
1982	198.100	123.700	187.000	90.960	55.630	46.920	38.690	31.290	31.940	88.340	129.600	177.100
1983	126.300	110.900	84.870	128.400	137.400	87.660	43.670	36.580	35.280	36.280	35.100	79.590
1984	166.600	129.200	105.000	67.860	61.000	44.690	26.700	26.100	31.900	40.310	104.900	126.100
MEAN	138.078	125.872	152.628	117.253	92.998	68.778	39.313	36.012	36.582	62.572	79.005	126.702
MIN	68.970	60.530	84.870	67.860	49.860	44.690	26.700	26.100	30.640	36.450	39.100	78.590
MAX	198.100	168.700	203.200	185.700	137.400	108.600	45.900	44.610	51.900	95.810	129.600	177.100

THE SUMMARY RELATES EXCLUSIVELY TO THE YEARS SHOWN.

OPTION 6 YEARBOOK DATA TABULATION (MONTHLY)

OPTION 7 TABLE OF MONTHLY EXTREME FLOWS

050001 TAW AT UMBERLEIGH

TABLE OF MONTHLY INSTANTANEOUS PEAK DISCHARGES AND
HIGHEST AND LOWEST DAILY MEAN GAUGED DISCHARGES
IN CUBIC METRES PER SECOND

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1978 HI	192,000	216,700	97,510	53,100	70,040	3,504	9,965	26,430	1,737	1,738	21,980	94,700
HD	116,900	184,000	87,010	46,300	37,200	3,037	3,039	11,110	1,689	1,686	12,050	71,940
LD	15,360	6,162	11,490	5,923	2,752	1,382	1,656	1,739	1,035	0,889	0,881	3,926
1979 HI	95,310	150,800	104,700	30,700	55,430	20,550	5,994	69,190	18,710	61,830	85,940	334,100
HD	66,420	121,900	92,120	26,310	31,630	14,630	4,143	37,570	10,640	35,450	67,010	206,400
LD	12,430	10,040	11,390	8,787	6,746	3,249	1,201	1,561	2,799	3,894	12,730	13,710
1980 HI	113,400	170,100	127,300	136,600	5,565	84,430	32,830	20,430	68,730	160,400	173,000	108,300
HD	65,420	125,600	87,290	96,790	4,793	32,430	19,620	11,250	41,480	119,300	114,600	82,790
LD	10,630	13,980	12,330	3,365	1,565	1,303	4,902	3,158	4,311	7,634	6,078	10,270
1981 HI	149,700	80,990	339,900	32,560	50,860	54,120	14,080	11,550	95,070	123,900	90,340	256,000
HD	80,700	43,450	223,400	24,990	33,340	29,010	8,875	8,561	42,080	105,200	55,820	136,100
LD	11,690	7,799	15,890	3,320	8,922	3,035	1,814	1,224	1,078	21,270	7,235	16,110
1982 HI	127,630	55,380	143,900	13,590	5,536	12,480	162,200	7,727	25,490	72,250	215,200	241,100
HD	111,800	108,260	101,000	17,120	4,265	9,491	77,332	5,925	14,970	56,460	124,300	170,100
LD	16,390	11,330	9,077	3,074	1,477	1,165	2,060	1,693	1,556	9,246	11,200	12,130
MAX HI	192,000	216,700	179,900	136,600	70,040	84,430	162,200	69,190	95,070	160,400	215,200	334,100
MAX HD	116,900	184,000	223,400	96,790	37,200	52,430	77,332	37,570	42,080	119,300	124,300	206,400
MIN LD	10,630	6,162	9,077	3,074	1,477	1,165	1,261	1,224	1,015	0,589	0,881	3,926

THE SUMMARY RELATES EXCLUSIVELY TO THE YEARS SHOWN.

HI = HIGHEST INSTANTANEOUS DISCHARGE
HD = HIGHEST DAILY MEAN GAUGED DISCHARGE
LD = LOWEST DAILY MEAN GAUGED DISCHARGE

OPTION 8 TABLE OF CATCHMENT MONTHLY RAINFALL

050001 TAW AT UMBERLEIGH

MONTHLY RAINFALL AND
RUNOFF (DERIVED FROM GAUGED FLOWS)
EXPRESSED IN MM OVER THE CATCHMENT

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1978 RAINFALL RUNOFF	160	145	114	51	49	61	95	42	39	14	68	174
1979 RAINFALL RUNOFF	110	72	164	68	102	52	45	126	49	100	122	192
1980 RAINFALL RUNOFF	99	130	131	24	43	166	65	69	101	125	107	115
1981 RAINFALL RUNOFF	90	76	183	47	126	42	78	35	153	200	85	173
1982 RAINFALL RUNOFF	106	76	143	24	37	116	67	87	81	129	192	179
RAINFALL	113	100	142	43	71	87	70	72	85	124	115	167
MEAN	90	72	114	24	37	42	45	45	39	14	68	175
MAX	160	146	183	68	126	164	95	126	153	200	192	192
RUNOFF	121	95	129	35	31	20	16	17	20	80	91	140
MEAN	91	49	89	19	8	7	7	7	6	3	11	97
MAX	133	143	169	49	63	31	28	39	36	155	166	180
2 RUNOFF	98	95	88	81	46	23	23	24	26	65	79	86
MEAN	83	64	68	31	19	8	11	9	10	21	16	56
MAX	>100	>100	96	>100	67	69	63	31	36	78	93	>100

THE SUMMARY RELATES EXCLUSIVELY TO THE YEARS SHOWN.

OPTION 9 TABLE OF CATCHMENT MONTHLY AREAL RAINFALL AND RUNOFF

050001 TAW AT UMBERLEIGH

AREAL AVERAGE RAINFALL EXPRESSED IN MM
AS A PERCENTAGE OF LONG TERM MEAN

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1978 RAINFALL (MM)	160	146	114	51	49	61	95	42	39	14	68	174
1941-70 MEAN	126	159	144	71	60	100	116	41	38	12	51	128
1979 RAINFALL (MM)	110	72	164	68	102	52	45	126	49	130	122	192
1941-70 MEAN	87	76	206	94	126	65	55	124	47	66	91	141
1980 RAINFALL (MM)	99	130	131	24	43	164	65	69	101	175	107	115
1941-70 MEAN	78	141	166	33	53	269	79	98	97	155	80	85
1981 RAINFALL (MM)	90	76	183	47	126	42	78	35	153	200	85	173
1941-70 MEAN	71	83	232	65	156	69	93	36	147	177	63	127
1982 RAINFALL (MM)	106	76	143	24	37	116	67	87	81	129	192	179
1941-70 MEAN	83	85	181	33	46	100	82	85	78	116	143	132
RAINFALL (%)	113	100	147	43	71	87	70	72	85	124	115	167
MEAN	90	72	114	24	37	42	45	35	39	14	68	175
MAX	160	146	163	68	126	164	95	126	153	200	192	192

THE SUMMARY RELATES EXCLUSIVELY TO THE YEARS SHOWN.

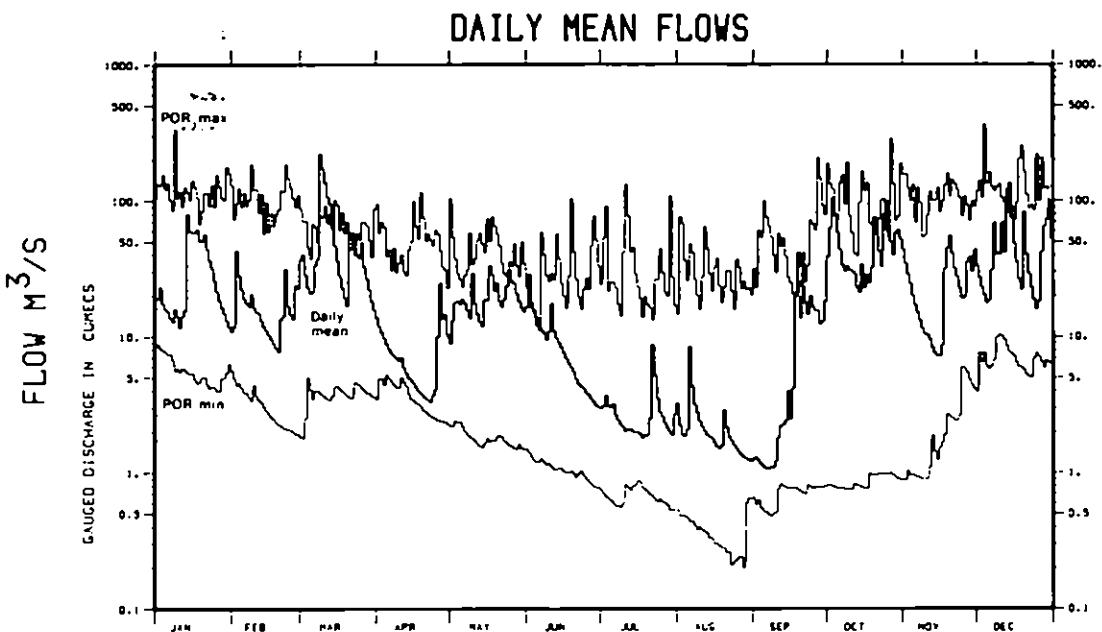
OPTION 10 HYDROGRAPH OF DAILY MEAN FLOWS

050001

TAW AT UMBERLEIGH

1981

Previous record 1958-1980

Catchment area 826.2 km²

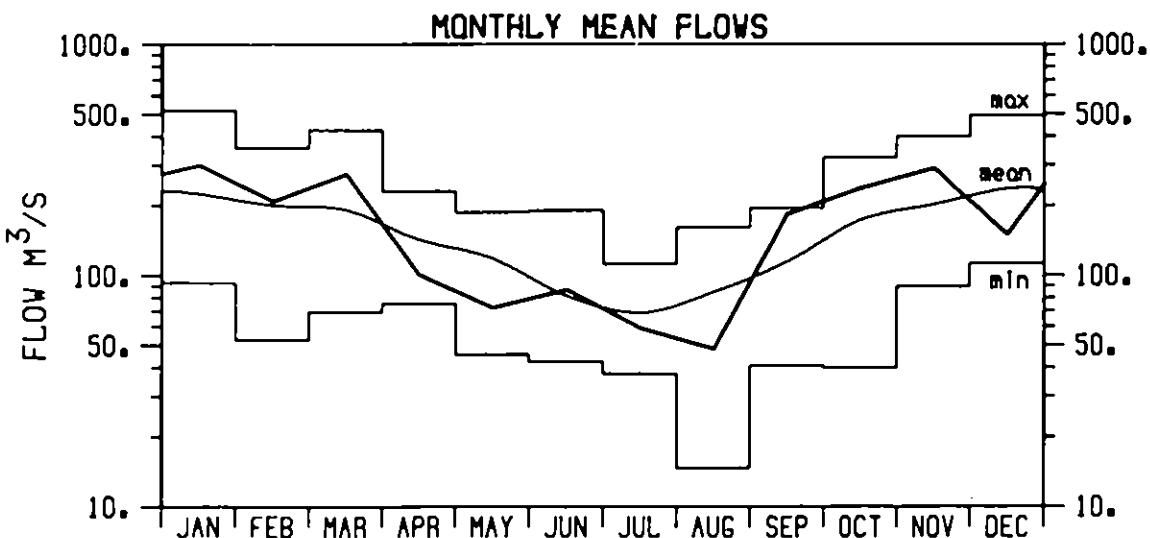
OPTION 11 HYDROGRAPH OF MONTHLY MEAN FLOWS

15006

TAY AT BALLATHIE

1981

Previous record 1953-1980

Catchment area 4587.1 km²

OPTION 12 FLOW DURATION STATISTICS

FLOW DURATION TABLE

050001 TAV AT UMBERLEIGH GAUGED FLOWS USED

1 DAY MEAN FLOW EXCEEDED STATED AMOUNT IN CUECS FOR GIVEN PERCENTAGE OF TIME

	1	2	3	4	5	6	7	8	9
	112.407	88.953	78.112	70.827	64.642	59.354	56.125	53.098	50.148
10	47.474	44.176	41.967	39.864	37.968	36.202	34.286	32.813	31.533
20	28.878	27.620	26.450	25.366	24.302	23.328	22.350	21.282	20.533
30	19.052	18.294	17.592	16.975	16.450	15.836	15.263	14.737	14.189
40	13.254	12.847	12.340	11.914	11.529	11.129	10.807	10.436	10.088
50	9.366	9.020	8.678	8.390	8.073	7.801	7.535	7.219	6.943
60	6.428	6.187	5.971	5.755	5.522	5.313	5.090	4.800	4.681
70	4.292	4.101	3.916	3.738	3.564	3.398	3.239	3.055	2.915
80	2.659	2.534	2.418	2.287	2.178	2.071	1.976	1.890	1.822
90	1.867	1.567	1.493	1.391	1.268	1.141	1.019	0.941	0.808

MAX FLOW= 363.800 MIN FLOW= 0.200 MEAN FLOW= 18.160 CATCHMENT AREA 826.2 SQ.KM

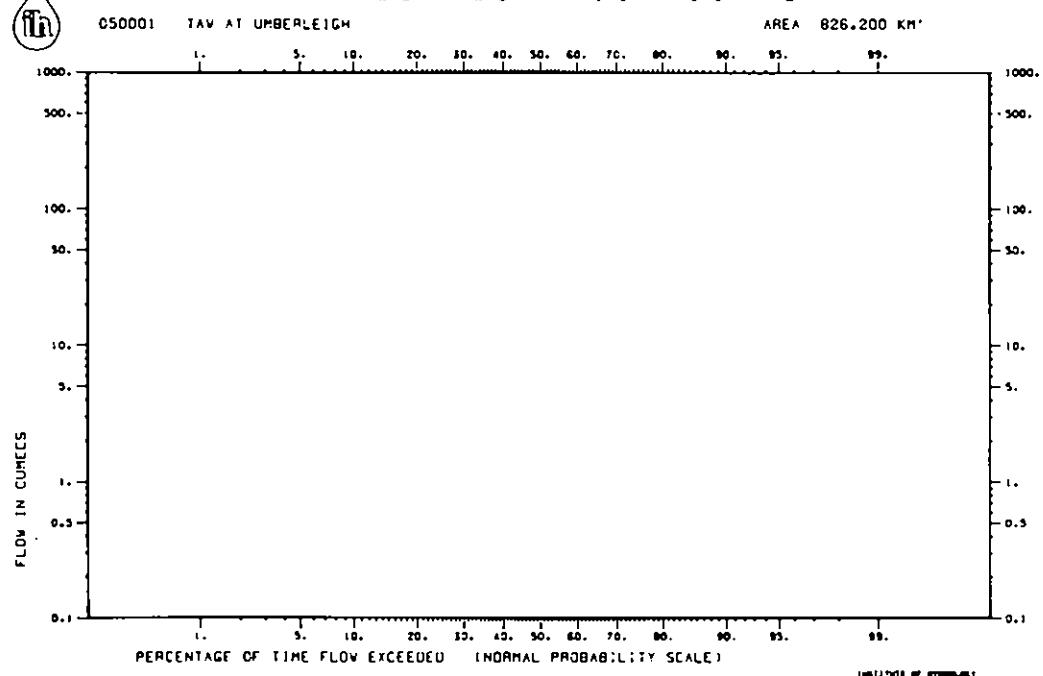
NUMBER OF ZEROS= 0 NUMBER OF VALUES USED= 9497

FIRST YEAR USED= 1959 LAST YEAR USED= 1984

NUMBER OF YEARS USED= 26

ONLY YEARS CONTAINING NOT MORE THAN 3 MISSING DAYS USED

FLOW DURATION CURVE



OPTION 13 TABLE OF GAUGING STATION REFERENCE INFORMATION

NUMBER	RIVER	STATION	GRID REF.	OPERATOR	RECORD 1ST YEAR	RECORD LAST YEAR	STA TYPE	BASIN AREA SQ KM	LEVEL STD MM	PAI ALT MM	ABSTRACT TIME & SITELAB	
											MM	MM
048001	FOWEY	TRELLIVESTPS	SD276796	SOMA	1969		CC	36.8	167.00	620	SAPL	
048003	FAL	TRICOURT	SD921447	SOMA	1977		ELVA	67.0	6.95	226	CC1	
048004	WAKULLGAN	TRICOURTE	SD159674	SOMA	1969		CC	25.3	70.26	306	C	
048005	KENYTH	TRICOUR	SD420450	SOMA	1968		CC	19.1	7.16	152	C	
048006	CODER	MELSTON	SD654273	SOMA	1968		VA	40.1	4.69	251	PC 1	
048007	KEANALL	PONSAUOTH	SD762377	SOMA	1968		C	26.9	13.56	251	SAPL 1	
048009	ST ALUT	CRATISMILL WOOD	SD181662	SOMA	1971		CC	22.7	70.53	339	CA	
048010	SEATOR	TREBORNBRIDGE	SD295559	SOMA	1972		CC	36.1	26.60	369	C 1	
048011	FOWEY	RESTORMEL TAU	SD076824	SOMA	1972		CC	169.1	9.21	620	SAPL 1	

OPTION 14 TABLE OF HYDROMETRIC STATISTICS

STATION NUMBER	TERM	AMF	AREAL MEAN	ANNUAL MEAN	MEAN REC	NO.	ZMOM	HIGHST	DATE 1ST	LOWEST DAILY MEAN	10 ZMOM		
											10 ZMOM		
											CU M/S	CU M/S	CU M/S
021005	FOW	1250	626	7.99	15	-	185.50	30/01/74	1.19	07/10/72	16.20	5.39	1.97
	1977	1436	829	9.80	123	92.38	31/10	1.39	22/08	20.26	7.05	1.65	
	1978	1312	752	8.95	112	25.74	15/11	1.75	19/06	20.23	6.03	2.25	
	1979	1387	913	10.80	135	62.15	28/11	2.11	23/07	14.29	8.77	2.00	
	1980	1288	793	9.36	117	59.29	24/11	2.01	01/06	19.96	7.00	2.19	
021006	FOW	1227	1180	694	32.99	15	393.40	30/01/74	3.46	07/10/72	80.79	22.22	6.13
	1977	1277	845	40.20	122	555.30	31/10	4.13	18/08	86.42	29.40	5.44	
	1978	1244	731	34.77	105	320.30	15/11	5.62	26/06	78.17	22.26	7.01	
	1979	1230	881	41.90	127	262.70	26/11	7.21	23/07	93.82	21.64	6.51	
	1980	1167	746	35.48	108	171.60	20/11	8.37	19/05	78.63	24.41	7.46	
021007	FOW	1413	1321	878	13.59	15	209.60	30/01/74	0.57	07/09/78	31.39	8.50	1.71
	1977	1524	1108	17.54	126	268.30	31/10	0.87	16/08	41.40	10.86	1.11	
	1978	1396	886	14.02	101	210.80	15/11	0.93	19/07	32.69	8.26	1.21	
	1979	1420	1105	17.48	126	120.90	26/11	1.42	24/07	41.36	10.65	1.03	
	1980	1366	944	14.93	107	98.07	20/11	1.18	19/05	35.27	9.16	1.55	
021008	FOW	1006	949	504	17.74	16	308.65	08/03/83	1.71	22/08/78	38.64	11.03	2.69
	1977	1013	604	21.25	120	367.20	31/10	1.99	17/08	44.35	14.81	2.58	
	1978	1068	541	19.03	107	177.90	15/11	2.04	20/07	43.34	11.09	2.53	
	1979	1065	693	24.40	138	271.10	25/11	2.22	05/08	55.84	15.31	3.67	
	1980	942	386	20.67	116	122.00	20/11	3.35	03/06	43.35	14.30	4.14	

NOTE: This example illustrates only a limited amount of the statistical information that may be output.

OPTION 15 GAUGING STATION DESCRIPTION

- 48001 FOWEY AT TRELLIVESTPS Compound Creep weir. Total crest breadth 7.0 m. Low flow crest breadth 1.0 m. Unreliable records from 1969.
- 48003 FAL AT TRICOURT Velocity-area station with low flow flume. Unreliable records from 1961.
- 48004 WAKULLGAN AT TRICOURTE Compound Creep weir. Total crest breadth 30.0 m. Low flow crest breadth 1.0 m.
- 48005 KENYTH AT TRICOUR Compound Creep weir. Total crest breadth 4.5 m. Low flow crest breadth 1.0 m.
- 48006 CODER AT MELSTON Velocity-area station. Modified in 1977 by the construction of a low level bed control.
- 48007 KEANALL AT PONSAUOTH Single crest Creep weir 4.9 m broad.
- 48009 ST ALUT AT CRATISMILL WOOD Compound Creep weir. Total crest breadth 7.2 m. Low flow crest breadth 1.0 m.
- 48010 SEATOR AT TREBORNBRIDGE Compound Creep weir. Total crest breadth 31.0 m. Low flow crest breadth 1.0 m.
- 48011 FOWEY AT RESTORMEL TAU Compound Creep weir. Total crest breadth 16.5 m. Low flow crest breadth 3.5 m.

Concise Register of Gauging Stations

Station number	River name	National Grid reference	Measuring authority	Area (sq km)	Station number	River name	National Grid reference	Measuring authority	Area (sq km)
002001	Helmsdale	NC 99718	FRPB	551.4	020005	Birns Water	NT 457688	FRPB	93.0
003001	Shin	NC 581062	NSHE	494.6	020006	Bie Water	NT 645768	FRPB	51.8
003002	Caron	NH 490920	FRPB	241.1	020007	Gifford Water	NT 511717	FRPB	64.0
003003	Oykel	NC 403001	FRPB	330.7	021001	Fruid Water	NT 088205	LRWD	23.7
003004	Cassley	NC 472022	FRPB	187.5	021002	Whitadder Water	NT 663633	LRWD	45.6
003005	Shin	NH 574974	FRPB	575.0	021003	Tweed	NT 257400	TWRP	694.0
004001	Conon	NH 487547	FRPB	961.8	021004	Wattie Water	NT 664566	BRWD	10.7
004003	Ainess	NH 654695	FRPB	201.0	021005	Tweed	NT 206397	TWRP	373.0
004004	Blackwater	NH 1455563	FRPB	336.7	021006	Tweed	NT 498334	TWRP	1500.0
005001	Beauly	NH 426405	NSHE	849.5	021007	Strick Water	NT 486315	TWRP	499.0
006001	Ness	NH 639410	NSHE	1792.3	021008	Teviot	NT 702280	TWRP	1110.0
006006	Allt Bhlaireadh	NH 377168	NSHE	27.5	021009	Tweed	NT 898477	TWRP	4390.0
006007	Ness	NH 645427	FRPB	1839.1	021010	Tweed	NT 588320	TWRP	2080.0
006008	Ernick	NH 450300	FRPB	105.9	021011	Yarrow Water	NT 439277	TWRP	231.0
007001	Findhorn	NH 826337	FRPB	415.6	021012	Teviot	NT 522159	TWRP	323.0
007002	Findhorn	NJ 018583	FRPB	781.9	021013	Gala Water	NT 479374	TWRP	207.0
007003	Lossie	NJ 198626	FRPB	216.0	021014	Tweed	NT 109785	TWRP	139.0
007004	Nairn	NH 882551	FRPB	313.0	021015	Leader Water	NT 565388	TWRP	239.0
007005	Dixie	NJ 005480	FRPB	165.0	021016	Eye Water	NT 942635	TWRP	119.0
008001	Spey	NJ 278439	NERPB	2654.7	021017	Enrick Water	NT 234132	TWRP	37.5
008002	Spey	NH 881082	NERPB	1011.7	021018	Lynne Water	NT 209401	TWRP	175.0
008003	Spey	NH 759996	NERPB	533.8	021019	Manor Water	NT 217369	TWRP	61.6
008004	Avon	NJ 186352	NERPB	542.8	021020	Yarrow Water	NT 309247	TWRP	155.0
008005	Spey	NH 945191	NERPB	1267.8	021021	Tweed	NT 752354	TWRP	3330.0
008006	Spey	NJ 318518	NERPB	2861.2	021022	Whitadder Water	NT 881550	TWRP	503.0
008007	Spey	NN 687962	NERPB	400.4	021023	Lee Water	NT 839396	TWRP	113.0
008008	Tummel	NN 789995	NERPB	130.3	021024	Jed Water	NT 655214	TWRP	139.0
008009	Dulnain	NH 977247	NERPB	272.2	021025	Ais Water	NT 634244	TWRP	174.0
008010	Spey	NJ 034268	NERPB	1748.8	021026	Tirna Water	NT 278138	TWRP	31.0
009001	Deveron	NJ 532464	FRPB	441.6	021027	Blackadder Water	NT 826530	TWRP	159.0
009002	Deveron	NJ 705498	FRPB	954.9	021028	Megget Water	NT 231232	TWRP	56.2
009003	Isla	NJ 494506	FRPB	176.1	021029	Till	NT 927396	NWA	648.0
009004	Bogie	NJ 519373	FRPB	179.0	021030	Glen	NT 919310	NWA	198.9
010001	Ythan	NJ 924308	FRPB	448.1	021031	Yarrow Water	NT 2688244	TWRP	116.0
010002	Ugie	NJ 101485	FRPB	325.0	022001	Coquet	NZ 234044	NWA	569.8
010003	Ythan	NJ 947303	FRPB	523.0	022002	Coquet	NT 870083	NWA	59.5
011001	Don	NJ 887141	FRPB	1273.0	022003	Usway Burn	NT 886077	NWA	21.4
011002	Don	NJ 756201	GHWO	787.0	022004	Ain	NZ 211129	NWA	205.0
011003	Don	NJ 566170	FRPB	499.0	022005	Blyth	NZ 243800	NWA	269.4
012001	Dee	NO 635956	NERPB	1370.0	022006	Wansbeck	NZ 175858	NWA	287.3
012002	Dee	NO 798893	NERPB	1844.0	022007	Wansbeck	NT 925063	NWA	27.7
012003	Dee	NO 343965	NERPB	690.0	022008	Allen	NU 067016	NWA	346.0
012004	Girnock Burn	NO 324956	NERPB	30.3	022009	Coquet	NU 234044	NWA	569.8
012005	Muck	NO 364947	NERPB	110.0	023001	Tyne	NY 038617	NWA	217.5
012006	Gairn	NO 352971	NERPB	150.0	023002	Derwent	NY 041508	NWA	118.0
012007	Dee	NO 098895	NERPB	289.0	023003	North Tyne	NY 906732	NWA	1007.5
013001	Bervie	NO 826733	FRPB	123.0	023004	South Tyne	NY 856647	NWA	751.1
013002	Luther Water	NO 660668	TRPB	138.0	023005	North Tyne	NY 776861	NWA	284.9
013003	South Esk	NO 583593	TRPB	487.0	023006	South Tyne	NY 672611	NWA	321.9
013005	Lunar Water	NO 655494	TRPB	124.0	023007	Derwent	NY 168581	NWA	242.1
013007	North Esk	NO 699640	TRPB	730.0	023008	Reds	NY 858832	NWA	343.8
013008	South Esk	NO 600596	TRPB	490.0	023009	South Tyne	NY 716465	NWA	118.5
014001	Eden	NO 415158	TRPB	307.4	023010	Tersal Burn	NY 789879	NWA	96.0
014002	Dighty Water	NO 773234	TRPB	126.9	023011	Kielder Burn	NY 644946	NWA	58.8
015001	Isla	NO 187647	TRWS	70.7	023012	East Allen	NY 802583	NWA	88.0
015002	Newton Burn	NO 230805	TRWS	15.4	023013	West Allen	NY 791583	NWA	75.1
015003	Tay	NO 082395	TRPB	3211.0	023014	North Tyne	NY 631931	NWA	27.0
015004	Inzion	NO 280559	TRWS	24.7	023015	North Tyne	NY 924721	NGWC	1043.8
015005	Melgan	NO 275558	TRWS	40.9	024001	Wear	NZ 264376	NWA	657.8
015006	Tay	NO 147367	TRPB	4587.1	024002	Gauless	NZ 215306	NWA	93.0
015007	Tay	NN 924534	TRPB	1149.4	024003	Tees	NY 984391	NWA	171.9
015008	Dean Water	NO 340479	TRPB	177.1	024004	Bedburn Beck	NY 118322	NWA	74.9
015010	Isla	NO 295466	TRPB	366.5	024005	Brownay	NY 259387	NWA	178.5
015011	Lyon	NN 788486	TRPB	391.1	024006	Leven	NY 952390	NWA	36.5
015012	Tummel	NO 940577	TRPB	1649.0	024007	Greta	NY 165462	NWA	44.6
015013	Almond	NO 067258	TRPB	174.8	024008	Clow Beck	NY 047166	NWA	509.2
015015	Tay	NN 782467	TRPB	600.9	024009	Tees	NY 364105	NWA	1264.0
015017	Braan	NN 979406	TRPB	197.0	025010	Baydale Beck	NY 260156	NWA	31.1
015018	Lyon	NN 534448	NSHE	161.4	025011	Langdon Beck	NY 852309	NWA	13.0
015023	Braan	NO 014422	TRPB	210.0	025012	Harwood Beck	NY 849309	NWA	25.1
015024	Dochart	NN 567370	TRPB	239.0	025013	Billingham Beck	NY 408237	NWA	61.4
016001	Fearn	NN 933167	TRPB	590.5	025014	Mordon Stell	NY 323274	NWA	2.5
016002	Fearn	NN 754216	TRPB	176.9	025015	Woodham Burn	NY 285263	NWA	29.1
016003	Ruchill Water	NN 764204	TRPB	99.5	025016	Tees	NY 950250	NWA	242.1
016004	Fearn	NO 043184	TRPB	782.2	025017	Leven	NY 585087	NWA	14.8
017001	Caron	NS 832820	FRPB	122.3	025020	Skerne	NY 292238	NWA	147.0
017002	Leven	NO 369006	FRPB	424.0	025021	Skerne	NY 318285	NWA	70.1
017003	Bonny Water	NS 824804	FRPB	50.5	025022	Baldon	NY 931182	NWA	20.4
017004	Ore	NT 330987	FRPB	162.0	025023	Tees	NY 813288	NWA	58.2
017005	Avon	NS 952797	FRPB	195.3	026001	West Beck	TA 064560	YWA	192.0
018001	Allan Water	NN 792053	FRPB	161.0	026002	Hull	TA 080498	YWA	378.1
018002	Devon	NS 858960	FRPB	181.0	026003	Foxton Beck	TA 093548	YWA	57.2
018003	Teith	NN 725011	FRPB	518.0	026004	Gypsy Race	TA 165675	YWA	253.8
018005	Allan Water	NS 786980	FRPB	210.0	026005	Gypsy Race	TA 137677	YWA	240.0
018008	Leny	NN 585096	FRPB	190.0	026006	Elmswell Beck	TA 009575	YWA	136.0
018011	Forth	NS 775955	FRPB	1036.0	027001	Nidd	SE 428530	YWA	484.3
019001	Almond	NT 165752	FRPB	369.0	027002	Wharfe	SE 422473	YWA	758.9
019002	Almond	NT 004652	FRPB	43.8	027003	Aire	SE 534255	YWA	1932.1
019003	Breath Water	NT 014639	FRPB	51.8	027004	Calder	SE 365220	YWA	899.0
019004	North Esk	NT 252616	FRPB	81.6	027005	Nidd	SE 147683	YWA	137.3
019005	Almond	NT 086686	FRPB	229.0	027006	Don	SE 390910	YWA	373.0
019006	Water	NT 228732	FRPB	107.0	027007	Ure	SE 356671	YWA	914.6
019007	Esk	NT 339723	FRPB	330.0	027008	Swale	SE 415748	YWA	1345.6
019008	South Esk	NT 325623	FRPB	112.0	027009	Duse	SE 568554	YWA	3315.0
019009	Bog Burn	NT 026591	FRPB	8.5	027010	Hodge Beck	SE 627944	YWA	18.9
019010	Broad Burn	NT 273707	FRPB	16.2	027011	Washburn	SE 219488	YWA	87.3
019011	North Esk	NT 333678	FRPB	137.0	027012	Heedon Water	SO 973309	YWA	36.0
020001	Tyne	NT 591768	FRPB	307.0	027013	Edwden Beck	SK 289957	YWA	26.4
020002	West Patter Burn	NT 489811	FRPB	26.2	027014	Rye	SE 743771	YWA	679.0
020003	Tyne	NT 456869	FRPB	161.0	027015	Darwent	SE 714557	YWA	1634.3
020004	East Patter Burn	NT 610824	FRPB	31.1	027016	Little Don	SK 253992	YWA	38.6
020005	Tyne	NT 456869	FRPB	161.0	027017	Loxley	SK 286906	YWA	43.5
020006	East Patter Burn	NT 610824	FRPB	31.1	027018	Ryburn	SE 025187	YWA	10.7

CONCISE REGISTER OF GAUGING STATIONS

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Station number	River name	National Grid reference	Measuring authority	Area (sq km)	Station number	River name	National Grid reference	Measuring authority	Area (sq km)
027019	Booth Dean Clough	SE 033166	YWA	15.9	029002	Great Eau	TF 416793	AWA	77.4
027020	Scout Dale Stream	SE 236047	YWA	15.2	029003	Lud	TF 337879	AWA	55.2
027021	Don	SE 569040	YWA	1256.2	029004	Ancholme	TF 032911	AWA	54.7
027022	Don	SK 427928	YWA	878.0	029005	Rase	TF 032912	AWA	69.2
027023	Dearne	SE 350073	YWA	118.9	029009	Ancholme	TF 033877	AWA	27.2
027024	Seraile	NZ 146006	YWA	381.0					
027025	Rother	SK 432857	YWA	352.2	030001	Witham	SK 842480	AWA	297.9
027026	Rother	SK 394744	YWA	165.0	030002	Bartling Eau	TF 066756	AWA	210.1
027027	Wharfe	SE 112481	YWA	443.0	030003	Bann	TF 241611	AWA	197.1
027028	Aire	SE 281340	YWA	691.5	030004	Parneby Lynn	TF 402676	AWA	61.6
027029	Calder	SE 124219	YWA	341.9	030005	Witham	SK 927335	AWA	126.1
027030	Colne	SE 477020	YWA	310.8	030006	Slea	TF 088485	AWA	48.4
027031	Colne	SE 174199	YWA	245.0	030011	Bann	TF 246795	AWA	62.5
027032	Hebden Beck	SE 025643	YWA	6.8	030012	Stainfield Beck	TF 127739	AWA	37.4
027033	Sea Cut	TA 028908	YWA	33.2	030013	Heighington Beck	TF 042696	AWA	21.2
027034	Ure	SE 190860	YWA	51.2	030014	Ponton Lade	TF 128313	AWA	11.9
027035	Aire	SE 013457	YWA	782.3	030015	Cringle Brook	SK 925297	AWA	50.5
027036	Derwent	SE 789715	YWA	1421.0	030017	Witham	SK 929246	AWA	51.3
027038	Costa Beck	SE 774836	YWA	7.8					
027039	Holme	SE 112069	YWA	9.1	031001	Eye Brook	SP 853941	CDWC	60.1
027040	Doe Lee	SK 443746	YWA	67.9	031002	Glen	TF 106149	AWA	341.9
027041	Derwent	SE 731587	YWA	1586.0	031004	Welland	TF 095078	AWA	717.4
027042	Dove	SE 705855	YWA	51.8	031005	Welland	SP 970987	AWA	417.0
027043	Wharfe	SE 092494	YWA	472.0	031006	Gwash	TF 038097	AWA	150.0
027044	Blackfoss Beck	SE 775475	YWA	46.0	031007	Welland	SP 948999	AWA	398.9
027047	Snaresholme Beck	SD 833883	YWA	10.2	031008	East Glen	TF 068160	AWA	136.2
027048	Derwent	SE 990853	YWA	127.0	031009	West Glen	TF 074113	AWA	173.0
027049	Rye	SE 696791	YWA	227.0	031010	Chater	SK 961030	AWA	68.9
027050	Esk	NZ 865081	YWA	308.0	031011	West Glen	SK 987261	AWA	31.6
027051	Crimple	SE 284519	YWA	8.1	031012	Tham	TF 016179	AWA	24.9
027052	Whitting	SK 376747	YWA	50.2	031013	East Glen	TF 038273	AWA	71.5
027053	Nidd	SE 230603	YWA	217.6	031014	Grimesthorpe Brook	TF 046203	AWA	21.0
027054	Hodge Beck	SE 652907	YWA	37.1	031015	Chater	SK 848037	AWA	18.5
027055	Rye	SE 560883	YWA	131.7	031016	North Brook	SK 957089	AWA	36.5
027056	Pickering Beck	SE 791819	YWA	68.6	031017	Stanton Brook	SP 759918	AWA	42.7
027057	Seven	SE 736821	YWA	121.6	031018	Langton Brook	SP 755908	AWA	55.1
027058	Riccal	SE 661810	YWA	57.6	031019	Melbourne Brook	SP 798939	AWA	27.9
027059	Taver	SE 301710	YWA	87.5	031020	Morcom Brook	SK 939018	AWA	19.6
027060	Kyle	SE 509602	YWA	167.6	031021	Welland	SP 819915	AWA	250.7
027061	Colne	SE 136161	YWA	72.3	031022	Jordan	SP 740867	AWA	20.8
027062	Nidd	SE 482561	YWA	516.0	031023	West Glen	SK 965258	AWA	4.4
027063	Dibb	SE 057839	YWA	25.5	031024	Holywell Brook	TF 026148	AWA	22.3
027064	Went	SE 551163	YWA	83.7	031025	Gwash South Arm	SK 875051	AWA	24.5
027065	Holme	SE 142157	YWA	97.4	031026	Egleton Brook	SK 878073	AWA	3.6
027066	Blackburn Brook	SK 393914	YWA	42.8	031027	Bourne Eau	TF 107199	AWA	10.6
027067	Sheaf	SK 357863	YWA	49.1	031028	Gwash	SK 951082	AWA	76.5
027068	Ryburn	SE 035188	YWA	33.0					
027069	Wiske	SE 375844	YWA	215.5	032001	Nene	TL 166972	AWA	1634.3
027071	Swale	SE 425734	YWA	1363.0	032002	Willow Brook	TL 067933	AWA	89.6
027072	Worth	SE 064408	YWA	71.7	032003	Harpers Brook	SP 983799	AWA	74.3
027073	Brompton Beck	SE 936794	YWA	12.9	032004	Ise Brook	SP 888715	AWA	194.0
027074	Spen Beck	SE 275210	YWA	46.3	032006	Nene/Kislingbury	SP 721592	AWA	223.0
028001	Derwent	SK 198851	STWA	126.0	032007	Nene/Brampton	SP 747617	AWA	232.8
028002	Blithe	SK 109192	STWA	163.0	032008	Nene/Kislingbury	SP 627607	AWA	107.0
028003	Tame	SP 169915	STWA	408.0	032012	Wootton Brook	SP 736571	AWA	53.3
028004	Tame	SP 206935	STWA	795.0	032015	Willow Bl Central	SP 898892	AWA	7.1
028005	Tame	SE 173105	STWA	1475.0	032016	Willow Brook Stn	SP 901886	AWA	7.6
028006	Trent	SJ 994231	STWA	325.0	032018	Ise	SP 861831	AWA	62.4
028007	Trent	SK 448299	STWA	4400.0	032019	Slade Brook	SP 873763	AWA	58.3
028008	Dove	SE 112397	STWA	399.0	032020	Wittering Brook	TL 089995	AWA	46.9
028009	Trent	SE 620399	STWA	7486.0	032023	Grindon Brook	SP 883633	AWA	47.5
028010	Derwent	SK 356363	STWA	1054.0	032024	Southwick Brook	TL 025921	AWA	20.5
028011	Derwent	SK 796586	STWA	690.0	032026	Nene/Whitton	SP 620658	AWA	63.4
028012	Trent	SK 131177	STWA	1229.0	032027	Billing Brook	TL 117949	AWA	24.3
028014	Sow	SJ 975215	STWA	591.0	032029	Flore	SP 660610	AWA	7.0
028015	Idle	SK 690895	STWA	529.0	032030	Colton Mill Stream	SP 669714	AWA	8.5
028016	Ryton	SK 641897	STWA	231.0	032031	Wootton Brook	SP 726577	AWA	73.9
028017	Devon	SK 787486	STWA	284.0					
028018	Dove	SK 235288	STWA	883.2	033001	Bedford Ouse	TL 369727	AWA	3030.0
028019	Trent	SK 239204	STWA	3072.0	033002	Bedford Ouse	TL 055495	AWA	1460.0
028020	Churnet	SK 103389	STWA	236.0	033003	Cam	TL 508657	AWA	803.0
028021	Derwent	SK 443327	STWA	1175.0	033004	Lark	TL 648760	AWA	466.2
028022	Trent	SE 801601	STWA	8231.0	033005	Bedford Ouse	SP 736353	AWA	388.5
028023	Wyre	SK 182696	STWA	154.0	033006	Wissey	TL 771965	AWA	274.5
028024	Wreake	SK 615124	STWA	413.8	033007	Nai	TF 723119	AWA	153.3
028025	Sence	SP 321996	STWA	169.4	033008	Little Ouse	TL 860832	AWA	699.0
028026	Anker	SK 263034	STWA	368.0	033009	Bedford Ouse	SP 951565	AWA	1320.0
028027	Frawesh	SK 482364	STWA	180.7	033011	Little Ouse	TL 852801	AWA	128.7
028028	Soar	SK 603109	STWA	480.0	033012	Kym	TL 155631	AWA	137.5
028029	Kingston Brook	SK 503277	STWA	57.0	033013	Sapiston	TL 896791	AWA	205.9
028030	Black Brook	SE 466171	STWA	8.4	033014	Lark	TL 758730	AWA	272.0
028031	Manifold	SK 140507	STWA	148.5	033015	Ouse	SP 882408	AWA	277.1
028032	Veden	SK 558680	STWA	62.8	033016	Cam	TL 450593	AWA	761.5
028033	Dove	SK 063668	STWA	8.0	033018	Tove	SP 714488	AWA	138.1
028034	Maur	SK 681778	STWA	161.0	033019	Thei	TL 880830	AWA	316.0
028035	Leen	SK 549392	STWA	111.0	033020	Alconbury Brook	TL 208717	AWA	201.5
028036	Poulter	SK 700752	STWA	128.2	033021	Rhee	TL 415523	AWA	303.0
028038	Manifold	SE 106595	STWA	46.0	033022	Ivel	TL 153509	AWA	541.3
028039	Rea	SE 071847	STWA	74.0	033023	Lea Brook	TL 652733	AWA	101.8
028040	Trent	SJ 892467	STWA	53.2	033024	Cam	TL 466506	AWA	194.0
028041	Hamps	SK 082502	STWA	39.6	033025	Babingley	TF 696756	AWA	39.6
028042	Churriet	SE 979520	STWA	136.0	033026	Bedford Ouse	TL 216669	AWA	2570.0
028043	Derwent	SE 261683	STWA	335.0	033027	Rhee	TL 333485	AWA	119.1
028044	Poulter	SK 563714	STWA	65.0	033028	Flet	TL 143393	AWA	119.6
028045	Meden	SK 681732	STWA	106.2	033029	Stringside	TF 716006	AWA	93.5
028046	Dove	SK 146509	STWA	83.0	033031	Brougham Brook	SP 889408	AWA	66.6
028047	Oldcoates Dyke	SK 615876	STWA	85.2	033032	Headham	TF 685375	AWA	89.3
028048	Amber	SK 376520	STWA	139.0	033033	Huz	TL 190379	AWA	108.0
028049	Ryton	SK 575794	STWA	77.0	033034	Little Ouse	TL 851844	AWA	699.3
028050	Torne	SE 646012	STWA	141.0	033035	Ely Ouse	TF 588010	AWA	3430.0
028051	Soar	SP 551985	STWA	202.0	033037	Bedford Ouse	SP 871443	AWA	800.0
028052	Sow	SJ 883270	STWA	163.0	033039	Bedford Ouse	TL 160535	AWA	1660.0
028053	Penk	SJ 923144	STWA	272.0	033040	Rhee	TL 267401	AWA	1.0
028054	Sence	SP 566985	STWA	133.0	033044	Thei	TL 857865	AWA	277.8
028055	Feclesbourne	SK 320447	STWA	50.4	033045	Wittle	TM 027878	AWA	28.3
028056	Rothley Brook	SK 580121	STWA	94.0	033046	Thei	TL 996973	AWA	145.3
028058	Hennmore Brook	SK 188486	STWA	42.0	033049	Sleaford Water	TL 834953	AWA	43.5
028059	Maun	SK 548623	STWA	28.8	033050	Snail	TL 631703	AWA	60.6
028060	Dover Beck	SK 653479	STWA	69.0	033051	Cam	TL 505426	AWA	141.0
028061	Churnet	SJ 983520	STWA	139.0	033052	Swallham Lode	TL 553628	AWA	38.4
028062	Cole	SP 183874	STWA	130.0	033054	Babingley	TF 680252	AWA	47.7
028067	Derwent	SK 438316	STWA	1177.5	033055	Granta	TL 510504	AW	

Station number	River name	National Grid reference	Measuring authority	Area (sq km)	Station number	River name	National Grid reference	Measuring authority	Area (sq km)
033085	Hir	TL 185290	AWA	6.8	039007	Blackwater	SU 731648	TWA	354.8
033066	Grants	TL 570464	AWA	59.8	039008	Thames	SP 445087	TWA	1516.2
033067	New River	TL 608698	AWA	19.6	039009	Thames	SU 909797	TWA	6915.3
033068	Cheney Water	TL 295411	AWA	5.0	039010	Clyne	TQ 052864	TWA	743.0
034001	Yare	TG 182082	AWA	231.8	039011	Wey	SU 874433	TWA	396.3
034002	Tas	TM 226994	AWA	146.5	039012	Hogsmill	TQ 182688	TWA	69.1
034003	Bure	TG 192298	AWA	184.7	039013	Clyne	TQ 123982	TWA	352.2
034004	Wensum	TG 177128	AWA	536.1	039014	Ver	TL 151016	TWA	132.0
034005	Tud	TG 170113	AWA	73.2	039015	Whitewater	SU 731523	TWA	44.5
034006	Waveney	TM 229811	AWA	370.0	039016	Kennet	SU 649708	TWA	1033.4
034007	Dove	TM 174772	AWA	133.9	039017	Rey	SP 680211	IH	18.6
034008	Ani	TG 331270	AWA	49.3	039018	Ock	SP 488699	TWA	234.1
034010	Waveney	TM 168782	AWA	149.4	039019	Lambourn	SP 470682	TWA	234.1
034011	Wansum	TF 919294	AWA	127.1	039020	Clyne	SP 122062	TWA	106.7
034012	Burn	TF 842428	AWA	80.0	039021	Cherwell	SP 482183	TWA	551.7
034013	Waveney	TM 364917	AWA	670.0	039022	Loddon	SU 720652	TWA	164.5
034014	Wensum	TG 020184	AWA	363.0	039023	Wye	SU 898687	TWA	137.3
034018	Stiffkey	TF 944414	AWA	77.1	039024	Gatwick Stream	TQ 288402	TWA	31.1
034019	Bure	TG 267194	AWA	313.0	039025	Enbourne	SU 568648	TWA	147.6
035001	Gipping	TM 154441	AWA	310.8	039026	Cherwell	SP 458411	TWA	199.4
035002	Deben	TM 322534	AWA	163.1	039027	Pang	SU 634786	TWA	170.9
035003	Alde	TM 360601	AWA	63.9	039028	Dun	SU 321685	TWA	101.3
035004	Ore	TM 359583	AWA	54.9	039029	Tillingbourne	TQ 000478	TWA	59.0
035008	Gipping	TM 058578	AWA	128.9	039030	Gade	TQ 082952	TWA	184.0
035009	Blyth	TM 425765	AWA	96.4	039031	Lambourn	SU 411731	TWA	176.0
035010	Gipping	TM 127465	AWA	298.0	039032	Lambourn	SU 390745	TWA	154.0
035011	Belstead Brook	TM 143420	AWA	40.4	039033	Winterbourne St	SU 453694	TWA	49.2
035013	Blyth	TM 406769	AWA	92.9	039034	Evenlode	SP 448099	TWA	430.0
036001	Stour	TM 042340	EWC	844.3	039035	Churn	SU 076963	TWA	124.3
036002	Glem	TL 846472	AWA	87.3	039036	Law Brook	TQ 045468	TWA	16.0
036003	Box	TL 985378	AWA	53.9	039037	Kennet	SU 187886	TWA	142.0
036004	Chad Brook	TL 868459	AWA	47.4	039038	Thame	SP 670055	TWA	443.0
036005	Brett	TM 025429	AWA	158.0	039040	Thames	SU 094942	TWA	185.0
036006	Stour	TM 020344	AWA	578.0	039042	Leach	SU 227994	TWA	76.9
036007	Bechamp Brook	TL 848421	AWA	58.6	039043	Kennet	SU 295710	TWA	295.0
036008	Stour	TL 827463	AWA	224.5	039044	Hart	SU 755593	TWA	84.0
036009	Brett	TL 914525	AWA	25.7	039045	Thames	SU 516946	TWA	3414.0
036010	Bumpstead Brook	TL 689418	AWA	28.3	039049	Silk Stream	TQ 217895	GLC	29.0
036011	Stour Brook	TL 698441	AWA	34.5	039051	Sol Brook	SP 475346	TWA	106.4
036012	Stour	TL 708450	AWA	76.2	039052	The Cut	SU 853713	TWA	50.2
036013	Brett	TM 032354	AWA	195.0	039053	Mole	TQ 271434	TWA	89.9
036015	Stour	TL 897358	AWA	480.7	039054	Mole	TQ 260399	TWA	31.8
036016	Ramsey	TM 206288	AWA	13.9	039055	Yeading Bk West	TQ 083846	GLC	175.7
036017	Ely Ouse outfall	TL 681559	AWA		039056	Ravensbourne	TQ 372732	GLC	67.6
037001	Roding	TQ 415884	TWA	303.3	039057	Crane	TQ 103778	GLC	616.5
037002	Chelmer	TL 794090	AWA	533.9	039058	Pool	TQ 371725	GLC	38.3
037003	Ter	TL 786107	AWA	77.8	039060	Mole	TQ 179502	TWA	316.0
037004	Blackwater	TL 836092	AWA	337.0	039061	Mole	TQ 262462	TWA	142.0
037005	Clyne	TL 982261	AWA	238.2	039071	Thames	SU 007973	TWA	63.7
037006	Can	TL 890072	AWA	228.4	039072	Thames	SU 982773	TWA	7046.0
037007	Wid	TL 686060	AWA	136.3	039073	Churn	SP 020028	TWA	84.0
037008	Chelmer	TL 713071	AWA	190.3	039074	Ampray Brook	SP 105950	TWA	74.4
037009	Brain	TL 818147	AWA	60.7	039075	Marston Meysey Bk	SU 128964	TWA	25.0
037010	Blackwater	TL 845158	AWA	247.3	039076	Windrush	SP 299107	TWA	296.0
037011	Chelmer	TL 629233	AWA	72.6	039077	Og	SU 194967	TWA	59.2
037012	Clyne	TL 771364	AWA	65.1	039078	Wey(north)	SU 838462	TWA	118.4
037013	Sandon Brook	TL 755055	AWA	60.6	039081	Ock	SU 481866	TWA	234.0
037014	Roding	TL 561040	TWA	95.1	039085	Wandie	TQ 268703	GLC	176.1
037015	Crispey Brook	TL 548035	TWA	62.2	039086	Gatwick Stream	TQ 285417	TWA	33.6
037016	Pant	TL 668313	AWA	62.5	039087	Rey	SU 121935	TWA	84.1
037017	Blackwater	TL 793243	AWA	139.2	039088	Chess	TQ 066947	TWA	105.0
037018	Inglebourne	TM 553862	TWA	47.9	040001	Medway	TQ 407353	SWA	26.9
037019	Beam	TM 515853	TWA	49.7	040002	Darwell	TO 722213	SWA	9.6
037020	Chelmer	TL 670193	AWA	132.1	040003	Medway	TO 708530	SWA	1256.1
037021	Roman	TL 985205	AWA	52.6	040004	Rother	TO 773245	SWA	206.0
037022	Holland Brook	TM 179212	AWA	54.9	040005	Bult	TO 758478	SWA	277.1
037023	Roding	TO 442955	TWA	269.0	040006	Bourne	TO 632497	SWA	50.3
037024	Clyne	TL 855298	AWA	154.2	040007	Medway	TO 517405	SWA	255.1
037025	Bourne Brook	TL 822276	AWA	32.1	040008	Great Stour	TO 049470	SWA	230.0
037026	Tempernny Brook	TM 079207	AWA	29.0	040009	Tesse	TO 718399	SWA	136.2
037027	Sipenny Brook	TM 054214	AWA	5.1	040010	Eden	TO 520437	SWA	224.3
037028	Bentley Brook	TM 109193	AWA	12.1	040011	Great Stour	TO 116554	SWA	345.0
037029	St. Osyth Brook	TM 134159	AWA	8.0	040012	Darent	TO 551718	SWA	191.4
037030	Holland Brook	TM 171217	AWA	48.6	040013	Darent	TO 525584	SWA	100.5
037033	Eastwood Brook	TO 859888	AWA	10.4	040014	Wingham	TR 276576	SWA	37.7
037034	Mardyke	TO 596806	AWA	90.7	040015	White Draw	TR 055606	SWA	31.8
037036	Ely Ouse Outfall	TL 646351	AWA		040016	Cray	TO 511746	SWA	119.7
037037	Toppeford Brook	TL 675377	AWA		040017	Dudwell	TO 679240	SWA	27.5
037038	Wid	TL 672000	AWA	98.6	040018	Darent	TO 530643	TWA	118.4
037039	Blackwater	TL 835090	AWA	337.0	040020	Eridge Stream	TO 522367	SWA	53.7
038001	Lee	TL 390092	TWA	1036.0	040021	Harden Channel	TO 813290	SWA	32.4
038002	Ash	TL 393148	TWA	78.7	040022	Great Stour	TO 973423	SWA	72.5
038003	Munwam	TL 282133	TWA	133.9	040023	East Stour	TR 017407	AWA	77.7
038004	Rib	TL 360174	TWA	136.5	040024	Bartley Mill St	TO 633357	SWA	25.1
038005	Ash	TL 380138	TWA	85.2	041001	Nunningham Stream	TQ 662129	SWA	16.9
038006	Rib	TL 335158	TWA	148.1	041002	Ash Bourne	TO 684141	SWA	18.4
038007	Canons Brook	TL 431104	TWA	21.4	041003	Cuckmere	TO 533051	SWA	134.7
038011	Mimram	TL 225169	TWA	98.7	041004	Ouse	TO 433148	SWA	395.7
038012	Stevenage Brook	TL 274211	TWA	36.0	041005	Ouse	TO 429214	SWA	180.9
038013	Upper Lee	TL 118185	TWA	70.7	041006	Uck	TO 459190	SWA	87.8
038014	Salmon Brook	TO 343937	TWA	20.5	041007	Rother	TO 034178	SWA	345.8
038015	Intercepting dr	TO 355932	TWA	7.4	041010	Adur W Branch	TO 178197	SWA	109.1
038016	Stansted Springs	TL 500246	TWA		041011	Rother	TO 852229	SWA	154.0
038017	Mimram	TL 184212	TWA	39.1	041012	Adur E Branch	TO 219190	SWA	93.3
038018	Upper Lee	TL 299059	TWA	150.0	041013	Hugglets Stream	TO 671138	SWA	14.2
038019	Salmons Brook	TO 354932	TWA	33.9	041014	Arun	TO 047229	SWA	379.0
038020	Cobbins Brook	TO 387999	TWA	38.4	041015	Ems	TO 755074	SWA	58.3
038021	Turkey Brook	TO 359985	TWA	42.2	041016	Cuckmere	TO 611150	SWA	18.7
038022	Pymmes Brook	TO 340925	TWA	42.6	041018	Combehaven	TO 765102	SWA	30.5
038023	Lee Hood Relet	TO 356880	TWA	1243.0	041019	Kird	TO 044256	SWA	66.8
038024	Small River Lee	TO 370988	TWA	41.5	041020	Bevern Stream	TO 423161	SWA	34.6
038025	Pymmes Brook	TO 340925	TWA	41.4	041021	Clayhill Stream	TO 448153	SWA	7.1
038026	Pincay Brook	TL 495126	TWA	54.6	041022	Lod	SU 931223	SWA	52.0
038028	Stansted Brook	TL 506241	TWA	25.9	041023	Latent	SU 871064	SWA	87.2
038029	Quin	TL 392248	TWA	50.4	041024	Shell Brook	TO 335286	SWA	22.6
038030	Beane	TL 325131	TWA	175.1	041025	Lowwood Stream	TO 060309	SWA	91.6
038131	Rye Meads outfall				041026	Cockhorse Brook	TO 376262	SWA	36.1
039001	Thames	TQ 177898	TWA	9948.0	042001	Wellington	SU 587075	SWA	111.0
039002	Thames	SU 568935	TWA	3444.7	042002	Ichen	SU 467213	SWA	
039003	Wandis	TQ 265705	GLC	176.1	042003	Lymington	SU 318018	SWA	98.9
039004	Wandis	TQ 286855	GLC	122.0	042004	Test	SU 354188	SWA	1040.0
039005	Beverley Brook	TO 216717	GLC	43.6	042005	Wallop			

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Station number	River name	National Grid reference	Measuring authority	Area (sq km)	Station number	River name	National Grid reference	Measuring authority	Area (sq km)
042007	Aire	SU 574326	SWA	57.0	053009	Wellow Brook	ST 241581	WWA	72.6
042008	Chertton Stream	SU 574323	SWA	75.1	053013	Marden	ST 955729	WWA	99.2
042009	Candover Brook	SU 568323	SWA	71.2	053015	Spring Flow	ST 902524	WWA	
042010	Itchen	SU 457213	SWA	360.0	053016	Spring Flow	ST 803399	WWA	
042011	Hamble	SU 523149	SWA	58.6	053017	Boyd	ST 581658	WWA	48.0
042012	Anton	SU 379393	SWA	185.0	053018	Avon	ST 786671	WWA	155.2
042013	Test	SU 355189	SWA	1040.0	053019	Woodbridge Brook	ST 949866	WWA	46.6
042014	Blackwater	SU 328174	SWA	104.7	053020	Gaize Brook	ST 937840	WWA	28.7
042016	Itchen	SU 512325	SWA	236.8	053022	Avon	ST 738651	WWA	160.5
042021	Branch of Test	SU 355159	SWA	1050.0	053023	Sherston Avon	ST 891870	WWA	89.7
					053024	Tisbury Avon	ST 914893	WWA	73.6
					053025	Mells	ST 757491	WWA	119.0
					053026	Frome(Bristol)	ST 667827	WWA	78.5
					053028	By Brook	ST 815688	WWA	102.0
043001	Avon	SU 142054	WWA	1649.8	054001	Severn	SO 782762	STWA	4325.0
043003	Avon	SU 158144	WWA	1477.8	054002	Avon	SP 040438	STWA	2210.0
043004	Bourne	SU 157304	WWA	163.6	054003	Vyrnwy	SJ 019191	WWVA	94.3
043005	Avon	SU 151413	WWA	323.7	054004	Sowe	SP 332731	STWA	262.0
043006	Nadder	SU 098308	WWA	220.6	054005	Severn	SJ 412144	STWA	2025.0
043007	Stour	SZ 113958	WWA	1073.0	054006	Sicur	SO 829768	STWA	324.0
043008	Wylye	SU 086343	WWA	445.4	054007	Arrow	SP 086636	STWA	319.0
043009	Stour	SZ 820147	WWA	523.1	054008	Teme	SO 597686	STWA	1134.4
043010	Allen	SU 006085	WWA	94.0	054010	Stour	SP 208507	STWA	316.0
043011	Ebble	SU 162263	WWA	109.0	054011	Salwarpe	SO 668618	STWA	184.0
043012	Wylye	ST 909428	WWA	112.4	054012	Tern	SJ 592123	STWA	852.0
043013	Mude	SZ 184936	WWA	12.4	054013	Chwyedog	SN 944855	STWA	57.0
043014	East Avon	SU 133559	WWA	85.2	054014	Severn	SO 164958	STWA	580.0
043015	Wylye	SU 858413	WWA	69.0	054015	Bow Brook	SO 927463	STWA	156.0
043017	West Avon	SU 133559	WWA	76.0	054016	Roden	SJ 589141	STWA	259.0
043018	Allen	SU 008007	WWA	176.5	054017	Leadon	SO 777234	STWA	293.0
043019	Shreen Water	ST 807278	WWA	29.1	054018	Rea Brook	ST 466092	STWA	178.0
043021	Avon	SZ 155943	WWA	1706.0	054019	Avon	SP 333715	STWA	347.0
044001	Frome	SY 866867	WWA	414.4	054020	Perry	ST 434192	STWA	180.8
044002	Piddle	SY 913876	WWA	183.1	054022	Severn	SN 853872	IH	8.7
044003	Asker	SY 470928	WWA	49.1	054023	Badsey Brook	SP 063449	STWA	95.8
044004	Frome	SY 708903	WWA	206.0	054024	Worcester	SO 747953	STWA	258.0
044006	Syding Water	SY 632987	WWA	12.4	054025	Dulas	SO 950824	STWA	52.7
044008	Sth Winterbourne	SY 629897	WWA	19.9	054026	Chelt	SO 892764	STWA	34.5
044009	Wey	SY 666839	WWA	7.0	054027	Frome	SO 831047	STWA	198.0
045001	Ese	SS 936016	SWWA	600.9	054028	Vyrnwy	SO 252195	STWA	778.0
045002	Ese	SS 943178	SWWA	421.7	054029	Teme	SO 735557	STWA	1480.0
045003	Culm	ST 021058	SWWA	226.1	054032	Severn	SO 863390	STWA	6850.0
045004	Axe	SY 252953	SWWA	288.5	054034	Dowles Brook	SO 768764	STWA	408.0
045005	Otter	SY 087885	SWWA	202.5	054036	Isbourne	SP 023408	STWA	90.7
045006	Quarme	SS 919356	SWWA	20.4	054038	Tanat	SO 252275	STWA	229.0
045008	Otter	SY 115986	SWWA	104.2	054040	Mease	SJ 680205	STWA	167.8
045009	Ese	SS 935260	SWWA	159.7	054041	Tern	SJ 649230	STWA	192.0
046001	South Teign	SX 671844	SWWA	9.9	054042	Chwyedog	SN 914867	STWA	49.0
046002	Teign	SX 856746	SWWA	380.0	054043	Severn	SO 863399	STWA	6990.0
046003	Dart	SX 751659	SWWA	247.6	054044	Tern	SJ 629316	STWA	926.0
046004	Avon	SX 680651	SWWA	12.0	054045	Perry	SP 347303	STWA	49.1
046005	East Dart	SX 657775	SWWA	21.5	054046	Worcester	SJ 781046	STWA	54.9
046006	Erme	SX 642532	SWWA	43.5	054047	Perry	ST 403223	STWA	155.0
046007	West Dart	SX 643742	SWWA	47.9	054048	Dane	SP 273556	STWA	102.0
046008	Avon	SX 719476	SWWA	102.3	054053	Corve	SO 510752	STWA	164.0
047001	Tamar	SX 426725	SWWA	916.9	054054	Onny	SO 455789	STWA	235.0
047002	Tamar	SX 343886	SWWA	232.1	054055	Rea	SO 684724	STWA	129.0
047003	Tavy	SX 474650	SWWA	205.9	054056	Clun	SO 393786	STWA	195.0
047004	Lynher	SX 368624	SWWA	135.5	054057	Severn	SO 844279	STWA	9895.0
047005	Ostryer	SX 336866	SWWA	120.7	054058	Stoke Park Brook	SO 644260	STWA	14.3
047006	Lyd	SX 388842	SWWA	218.1	054059	Allford Brook	SJ 654223	STWA	10.2
047007	Yealm	SX 574511	SWWA	54.9	054060	Portford Brook	SJ 634220	STWA	25.0
047008	Thrushel	SX 398856	SWWA	112.7	054061	Hodnet Brook	SJ 628288	STWA	5.1
047009	Tiddy	SX 343595	SWWA	37.2	054065	Roden	SJ 565241	STWA	210.0
047010	Tamar	SX 290991	SWWA	76.7	054067	Smedmore Brook	SO 861906	STWA	81.3
047011	Plym	SX 522613	SWWA	79.2	054068	Tetlach Brook	ST 379288	STWA	21.7
047013	Withy Brook	SX 244763	SWWA	16.2	054069	Springs Brook	SJ 387297	STWA	10.4
047014	Walkham	SX 513699	SWWA	43.2	054080	Severn	SN 996851	STWA	187.0
					054081	Chwyedog	SN 913868	STWA	49.0
					054083	Crown Brook	SJ 678141	STWA	16.7
048001	Fowey	SX 227698	SWWA	36.8	054084	Cannop Brook	SO 616075	STWA	31.5
048002	Fowey	SX 108613	SWWA	171.2	054085	Cannop Brook	SO 609115	STWA	104.0
048003	Fal	SZ 921447	SWWA	87.0	054086	Cowdry Diversion	SH 999179	STWA	13.2
048004	Warleggan	SZ 159674	SWWA	25.3	054087	Allford Brook	SJ 665233	STWA	4.7
048005	Kenwyn	SW 820450	SWWA	19.1	054088	Little Avon	ST 683988	WWA	134.0
048006	Cober	SW 654273	SWWA	40.1	054090	Tanithyll	SN 844876	IH	0.9
048007	Kennall	SW 762377	SWWA	26.6	054091	Severn	SN 843878	IH	3.6
048009	St Neot	SX 184662	SWWA	22.7	054092	Hore	SN 846873	IH	3.2
048010	Seaton	SX 299596	SWWA	38.1	054111	Severn	SO 776783	STWA	432.0
048011	Fowey	SX 098624	SWWA	169.1					
049001	Camel	SX 017682	SWWA	208.8	055001	Wye	SO 535090	WELS	4040.0
049002	Hayle	SW 549342	SWWA	48.9	055002	Wye	SO 485388	WELS	1895.9
049003	De Lank	SX 132765	SWWA	21.7	055003	Lugg	SO 548405	WELS	885.8
049004	Gannel	SW 829593	SWWA	41.0	055004	Itron	SO 892460	WELS	72.8
050001	Taw	SS 608237	SWWA	826.2	055005	Wye	SO 969876	WELS	166.8
050002	Torrige	SS 500185	SWWA	663.0	055007	Wye	SO 926645	WELS	1282.1
050003	Taw	SX 634938	SWWA	15.6	055008	Wye	SO 829838	IH	10.4
050004	Hole Water	SS 705373	SWWA	5.4	055009	Monnow	SO 419251	WELS	357.4
051001	Doniford Stream	ST 088428	WWA	75.8	055010	Wye	SO 843825	WELS	27.2
051002	Horner Water	SS 888458	WWA	20.8	055011	Ithon	SO 105883	WELS	111.4
052001	Are	ST 527458	WWA	18.2	055012	Itron	SO 995507	WELS	244.2
052002	Yeo	ST 556116	WWA	30.3	055013	Arrow	SO 328585	WELS	126.4
052003	Halse Water	ST 206253	WWA	87.8	055014	Lugg	SO 364647	WELS	203.3
052004	Isle	ST 361188	WWA	90.1	055015	Honddu	SO 277294	WELS	25.1
052005	Tone	ST 706250	WWA	202.0	055016	Ithon	SO 024578	WELS	358.0
052006	Yeo	ST 573162	WWA	213.1	055017	Chwelu	SN 998531	WELS	29.0
052007	Farrett	ST 461144	WWA	74.8	055018	Frome	SO 615428	WELS	144.0
052008	Tone	ST 044313	WWA	18.1	055019	Gamber Brook	SO 529235	WELS	30.3
052009	Sheppery	ST 498439	WWA	59.6	055020	Pinsley Brook	SO 462598	WELS	24.2
052010	Brue	ST 590318	WWA	135.2	055021	Lugg	SO 502589	WELS	371.0
052011	Cary	ST 498291	WWA	82.4	055022	Trothy	SO 503112	WELS	142.0
052014	Tone	ST 078202	WWA	57.2	055023	Wye	SO 528110	WELS	4010.0
052015	Land Yeo	ST 483716	WWA	23.3	055025	Llynfi	SO 166373	WELS	132.0
052016	Currypool Stream	ST 221382	WWA	15.7	055026	Wye	SO 976676	WELS	174.0
052017	Congresbury Yeo	ST 452631	WWA	66.6	055027	Rudhill Brook	SO 641257	WELS	113.2
052020	Gallicia Stream	ST 571100	WWA	16.4	055028	Frome	SO 667489	WELS	77.7
053001	Avon	ST 903641	WWA	665.6	055029	Monnow	SO 415249	WELS	354.0
053002	Samington Brook	ST 907605	WWA	157.7	055030	Claerwen	SN 910620	WELS	95.3
053003	Avon	ST 753645	WWA	1595.0	055031	Yazor Brook	SO 492415	WELS	42.3
053004	Chew	ST 648647	WWA	129.5	055032	Elan	SN 934653	WELS	184.0
053005	Midford Brook	ST 763611	WWA	147.4	055033	Wye	SO 824853	IH	3.9
053006	Frome(Bristol)	ST 637772	WWA	148.9	055034	Cyff	SO 824842	IH	3.1
053007	Frome(Somerset)	ST 805564	WWA	261.6	055035	Iago	SO 826854	IH	1.1
05									

Station number	River name	National Grid reference	Measuring authority	Area (sq km)	Station number	River name	National Grid reference	Measuring authority	Area (sq km)
056004	Usk	SO 127203	WELS	543.9	068018	Dane	SJ 861632	NWWA	145.0
056005	Lwyd	ST 330974	WELS	98.1	068019	Weaver	SJ 574762	NWWA	1370.0
056006	Usk	SN 947295	WELS	183.8	068020	Gowy	SJ 448711	NWWA	156.0
056007	Senni	SN 928755	WELS	19.9					
056008	Monks Ditch	ST 372885	WELS	15.4	069001	Mersey	SJ 728936	NWWA	679.0
056010	Usk	SO 358042	WELS	927.2	069002	Irwell	SJ 824987	NWWA	559.4
056011	Sirhowy	ST 206912	WELS	76.1	069003	Irt	SJ 841992	NWWA	72.5
056012	Gwynne	SO 241176	WELS	82.2	069004	Etherow	SK 023971	NWWA	78.2
056013	Ystrad	SO 003304	WELS	62.8	069005	Glaze Brook	SJ 685939	NWWA	152.0
056014	Usk	SN 840290	WELS	17.0	069006	Bolton	SJ 727875	NWWA	256.0
056015	Olway Brook	SO 384010	WELS	105.1	069007	Mersey	SJ 772936	NWWA	660.0
056016	Cearanell outfall	SO 104206	WELS	32.4	069008	Dean	SJ 846830	NWWA	51.8
056017	Afon Lwyd	SO 274019	WELS	42.5	069011	Micker Brook	SJ 855889	NWWA	67.3
056018	Sirhowy	SO 131114	WELS	13.5	069015	Etherow	SJ 962908	NWWA	156.0
					069017	Goyt	SJ 964898	NWWA	183.0
057001	Taf Fechan	SO 060117	WELS	33.7	069018	Newton Brook	SJ 585933	NWWA	32.8
057002	Taf Fawr	SO 012111	WELS	43.0	069020	Medlock	SJ 849975	NWWA	57.5
057003	Taff	ST 132818	WELS	486.9	069021	Stake Brook	SJ 876247	NWWA	0.3
057004	Cynon	ST 079956	WELS	106.0	069023	Roch	SD 807077	NWWA	186.0
057005	Taff	ST 079897	WELS	454.8	069024	Croal	SD 743068	NWWA	145.0
057006	Rhondda	ST 054909	WELS	100.5	069027	Temse	SJ 906918	NWWA	150.0
057007	Taff	ST 089951	WELS	194.5	069030	Sankey Brook	SJ 588922	NWWA	154.0
057008	Rhymney	ST 225821	WELS	178.7	069032	Alt	SJ 392983	NWWA	90.1
057009	Ely	ST 121770	WELS	145.0	069033	Alt	SJ 359012	NWWA	100.0
057010	Ely	ST 034827	WELS	39.4	069035	Irwell	SD 797109	NWWA	155.0
057011	Blaen Taf Fawr	SN 987193	WELS	5.1	069036	Fagley Brook	SD 701149	NWWA	16.8
057012	Garwnant	SO 004129	WELS	43.1	069039	Medlock	SJ 863987	NWWA	55.9
057014	Rhymney	ST 156984	WELS	63.2					
057015	Taff	SO 043068	WELS	104.1					
057016	Taf Fechan	SO 060115	WELS	33.8	070001	Douglas	SD 631119	NWWA	39.4
					070002	Douglas	SD 476126	NWWA	198.0
					070003	Douglas	SD 587061	NWWA	55.3
					070004	Yarrow	SD 498180	NWWA	74.4
					070005	Lostock	SD 497197	NWWA	56.0
058001	Ogmore	SS 904794	WELS	158.0					
058002	Neath	SN 815017	WELS	190.9					
058003	Ewenny	SS 914780	WELS	62.9	071001	Ribble	SD 589304	NWWA	1145.0
058005	Ogmore	SS 804844	WELS	74.3	071002	Hodder	SD 719546	NWWA	37.0
058006	Mellte	SN 915082	WELS	65.8	071003	Crossdale	SD 706546	NWWA	10.4
058007	Llynllis	SS 891855	WELS	50.2	071004	Calder	SD 729360	NWWA	316.0
058008	Dulas	SN 778008	WELS	43.0	071005	Bottesford	SD 745565	NWWA	10.6
058009	Ewenny	SS 920782	WELS	62.5	071006	Ribble	SD 722392	NWWA	456.0
058010	Hepste	SN 969134	WELS	11.0	071007	Ribble	SD 709379	NWWA	720.0
058011	Thaw	ST 017716	WELS	49.2	071008	Hodder	SD 704399	NWWA	261.0
					071011	Ribble	SD 839556	NWWA	204.0
					071014	Darwen	SD 565278	NWWA	128.0
059001	Tawe	SS 685998	WELS	227.7					
059002	Loughor	SN 623127	WELS	46.4	071010	Pendle Water	SD 837351	NWWA	108.0
					072001	Lune	SD 503647	NWWA	994.6
					072002	Wyre	SD 463411	NWWA	275.0
					072004	Lune	SD 529653	NWWA	983.0
					072005	Lune	SD 622907	NWWA	219.0
					072006	Lune	SD 615778	NWWA	507.1
					072008	Wyre	SD 488447	NWWA	114.0
					072009	Wenning	SD 615701	NWWA	142.0
					072010	Lune	NY 613041	NWWA	135.8
					072011	Rawthey	SD 639911	NWWA	200.0
060001	Tywi	SN 491204	WELS	1087.8					
060002	Cothi	SN 508225	WELS	297.8	073001	Leven	SD 371863	NWWA	241.0
060003	Ta'	SN 238160	WELS	217.3	073002	Crake	SD 294882	NWWA	73.0
060004	Dawn Fawr	SN 290175	WELS	40.1	073005	Kent	SD 509874	NWWA	209.0
060005	Brian	SN 771343	WELS	66.8	073007	Troubeck	NY 404007	NWWA	23.6
060006	Gwili	SN 431220	WELS	129.5	073008	Bela	SD 496806	NWWA	131.0
060007	Tywi	SN 762362	WELS	231.8	073009	Sprint	SD 514961	NWWA	34.6
060009	Sawdde	SN 712266	WELS	81.1	073010	Lever	SD 367863	NWWA	247.0
060010	Tywi	SN 485206	WELS	1090.4	073011	Mint	SD 524944	NWWA	65.8
060012	Twrch	SN 650440	WELS	20.7	073013	Rothay	NY 371042	NWWA	64.0
060013	Cothi	SN 537301	WELS	261.6	073014	Brathay	NY 360034	NWWA	57.4
					073015	Keer	SD 523719	NWWA	48.0
061001	Western Cleddau	SM 954177	WELS	197.6	074001	Duddon	SD 196896	NWWA	78.2
061002	Eastern Cleddau	SN 072153	WELS	183.1	074002	Irl	NY 136038	NWWA	44.2
061003	Gwaun	SN 005349	WELS	31.3	074003	Ehen	NY 084154	NWWA	44.2
061004	Western Cleddau	SM 942184	WELS	197.6	074005	Ehen	NY 009061	NWWA	125.5
062001	Taff	SN 244416	WELS	89.3	074006	Celder	NY 035045	NWWA	44.8
062002	Taff	SN 433406	WELS	546.5	074007	Esk	SD 131978	NWWA	70.2
063001	Ystwyth	SN 591774	WELS	169.6	074008	Duddon	SD 209947	NWWA	47.9
063002	Rheidol	SN 601804	WELS	182.1					
063003	Wye	SN 542698	WELS	40.6					
064001	Dovey	SH 745019	WELS	471.3	075001	St Johns Beck	NY 309191	NWWA	40.9
064002	Dyfrdlyn	SH 632066	WELS	75.1	075002	Dewent	NY 038305	NWWA	683.0
064003	Mawddach	SH 729233	WELS	138.6	075003	Dewant	NY 198321	NWWA	363.0
064006	Leri	SN 535882	WELS	47.2	075004	Cocker	NY 131281	NWWA	116.6
065001	Glaslyn	SH 592478	WELS	68.6	075005	Dewant	NY 251239	NWWA	235.0
065002	Dwyryd	SH 670415	WELS	78.2	075006	Newlands Beck	NY 240239	NWWA	33.9
065004	Gwyrfair	SH 484599	WELS	47.9	075007	Glenridding	NY 323248	NWWA	69.0
065005	Erich	SH 400404	WELS	18.1	075009	Greta	NY 286242	NWWA	145.6
065006	Seiont	SH 493623	WELS	74.4	075010	Marron	NY 074238	NWWA	27.7
065007	Dwyfor	SH 499429	WELS	52.4	075016	Cocker	NY 149214	NWWA	64.0
066001	Clwyd	SJ 069709	WELS	404.0					
066002	Ebwy	SJ 021704	WELS	220.0	076004	Lowther	NY 527287	NWWA	158.5
066003	Aled	SH 957703	WELS	70.0	076005	Eden	NY 605283	NWWA	816.4
066004	Wheeler	SJ 105714	WELS	62.9	076007	Eden	NY 390571	NWWA	2286.5
066005	Clwyd	SJ 122592	WELS	95.3	076008	Irthing	NY 486581	NWWA	334.6
066006	Ebwy	SH 952718	WELS	194.0	076009	Caldew	NY 378469	NWWA	147.2
066008	Aled	SH 915598	WELS	11.6	076010	Petteril	NY 417545	NWWA	160.0
066011	Conwy	SH 802581	WELS	344.5	076011	Coal Burn	NY 693777	NWWA	1.5
					076014	Eden	NY 773097	NWWA	69.4
067001	Dee	SH 942357	WELS	261.6	076015	Eamont	NY 472249	NWWA	145.0
067002	Dee	SH 357413	WELS	1040.0	076006	Emont	NY 578306	NWWA	396.2
067003	Brenig	SH 974539	WELS	22.0	076007	Eden	NY 470567	NWWA	1366.7
067004	Alwen	SH 957528	WELS	25.5	076008	Irthing	NY 527287	NWWA	158.5
067005	Cerrigog	SH 295313	WELS	113.7	076009	Caldew	NY 486581	NWWA	334.6
067006	Alwen	SH 042436	WELS	184.7	076010	Petteril	NY 378469	NWWA	147.2
067007	Dee	SJ 155428	WELS	728.0	076011	Coal Burn	NY 417545	NWWA	160.0
067008	Alyn	SJ 338541	WELS	227.1	076014	Eden	NY 693777	NWWA	1.5
067009	Alyn	SJ 206667	WELS	77.8	076015	Eamont	NY 472249	NWWA	145.0
067010	Glyn	SH 843470	WELS	13.1					
067012	Tryweryn	SH 838398	WELS	27.2	077001	Esk	NY 390718	NWWA	841.7
067013	Hirnant	SH 946349	WELS	33.9	077002	Esk	NY 397751	SRPB	495.0
067015	Dee	SJ 348415	WELS	1019.3	077003	Liddel Water	NY 415759	SRPB	319.0
067016	Worthenbury Brook	SJ 481464	WELS	142.1	077004	Kirle Water	NY 285893	SRPB	72.0
067017	Tryweryn	SH 880399	WELS	59.9	077005	Lyne	NY 412662	SRPB	191.0
067018	Dee	SJ 874308	WELS	53.9	078004	Kinmel Water	NY 077868	SRPB	76.1
067025	Clywedog	SJ 396483	WELS	98.6	078005	Kinmel Water	NY 091845	SRPB	229.0
067026	Cedrog	SJ 034371	WELS	36.5					
067029	Trysion	SJ 066405	WELS	12.3	078006	Nith	NY 091845	SRPB	229.0
068001	Weaver	SJ 670633	NWWA	622.0	078005	Nith	NS 631050	SRPB	8.5
068002	Gowy	SJ 443714	NWWA	156.2	079002	Nith	NY 923851	SRPB	799.0
068003	Dane	SJ 668718	NWWA	407.1	079003	Nith	NS 684129		

CONCISE REGISTER OF GAUGING STATIONS

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Station number	River name	National Grid reference	Measuring authority	Area (sq km)	Station number	River name	National Grid reference	Measuring authority	Area (sq km)
080001	Urr	NX 822610	SRPB	199.0	086001	Little Etachang	NS 143821	CRPB	30.8
080002	Dee	NX 733641	SRPB	809.0	086002	Etachang	NS 140843	CRPB	139.9
081001	Pentwern Burn	NX 128694	DGRW	18.2	090003	Nevis	NN 116742	HRPB	76.8
081002	Cree	NX 412653	SRPB	368.0	091002	Lochy	NN 145805	HRPB	1252.0
081003	Luce	NX 180599	SRPB	171.0	093001	Caron	NG 942429	HRPB	137.8
081004	Bladnoch	NX 387545	SRPB	334.0	094001	Ewe	NG 859803	HRPB	441.1
082001	Guvan	NX 217997	CRPB	245.5	095001	Inver	NC 147250	HRPB	137.5
082002	Doon	NS 338160	CRPB	323.8	096001	Halladale	NC 891561	HRPB	204.6
082003	Stinchar	NS 108832	CRPB	341.0	096002	Never	NC 713568	HRPB	477.0
083002	Garnock	NS 293488	CRPB	88.8	097001	Calder Burn	ND 085596	HRCW	24.5
083003	Ayr	NS 525259	CRPB	166.3	097002	Thurso	ND 131595	HRPB	412.8
083004	Lugar	NS 508217	CRPB	181.0	101001	Eastern Yar	SZ 577857	SWA	57.5
083005	Irvine	NS 345369	CRPB	380.7	101002	Medina	SZ 503874	SWA	29.8
084001	Kelvin	NS 558705	CRPB	335.1	201002	Fairy Water	IH 406758	DOEN	161.2
084002	Calder	NS 309638	SRCW	12.4	201005	Camowen	IH 460730	DOEN	274.6
084003	Clyde	NS 835452	CRPB	1092.9	201006	Drumragh	IH 458722	DOEN	324.6
084004	Clyde	NS 927424	CRPB	741.8	201007	Burn Deneel	IC 372047	DOEN	145.3
084005	Clyde	NS 704579	CRPB	1704.2	201008	Derg	IH 265842	DOEN	337.3
084006	Kelvin	NS 672749	CRPB	63.7	203010	Blackwater	IH 820519	DOEN	951.4
084007	South Calder Wtr	NS 751585	CRPB	93.0	203011	Main	ID 052086	DOEN	228.8
084008	Roten Calder Wtr	NS 679604	CRPB	51.3	203012	Ballinderry	IH 926799	DOEN	419.5
084009	Nethan	NS 809429	CRPB	66.0	203017	Upper Bann	IJ 043509	DOEN	335.6
084011	Gryfe	NS 415664	CRPB	71.0	203018	Six Mile Water	IJ 146867	DOEN	277.3
084012	White Cart Water	NS 499629	CRPB	234.9	203020	Moyola	IH 955905	DOEN	306.5
084013	Clyde	NS 672616	CRPB	1903.1	203021	Kells Water	IJ 106971	DOEN	127.0
084014	Avon Water	NS 755518	CRPB	265.5	203025	Callan	IH 893524	DOEN	164.1
084015	Kelvin	NS 638739	CRPB	235.4	203027	Brandy	ID 097014	DOEN	177.2
084016	Luggie Water	NS 739725	CRPB	33.9	203028	Agivey	IC 883193	DOEN	98.9
084017	Black Cart Water	NS 411620	CRPB	103.1	203033	Upper Bann	IJ 233341	DOEN	100.9
084018	Clyde	NS 891404	CRPB	932.6	204001	Bush	IC 942362	DOEN	306.1
084019	North Calder Wtr	NS 681625	CRPB	129.8	205003	Lagan	IJ 299679	DOEN	444.7
084020	Glazert Water	NS 658763	CRPB	51.9	205004	Lagan	IJ 329693	DOEN	490.4
084021	White Cart Water	NS 587597	CRPB	91.6	205005	Ravernet	IJ 267613	DOEN	69.5
084022	Duneaton	NS 929259	CRPB	110.3	205008	Lagan	IJ 236525	DOEN	85.2
084023	Bathlin Burn	NS 680717	CRPB	35.7					
084024	North Calder Wtr	NS 828678	CRPB	19.9					
084025	Luggie Water	NS 656734	CRPB	87.7					
084027	North Calder Wtr	NS 765674	CRPB	60.6					

= closed

Refer to page 166 for key to measuring authorities

Summary of Archived Data - 1

Gauged daily flows, monthly peaks and monthly rainfall

KEY:

	Complete rainfall	Incomplete or missing rainfall
Complete daily and complete peaks	A	a
Complete daily and partial peaks	B	b
Complete daily and no peaks	C	c
Partial daily and complete peaks	D	d
Partial daily and partial peaks	E	e
Partial daily and no peaks	F	f
No flow data	↑	-

**Summary is presented
in decade blocks**

Stn number	Gauged daily flows, monthly peaks and rainfall	Stn. number	Gauged daily flows, monthly peaks and rainfall	Stn. number	Gauged daily flows, monthly peaks and rainfall
002001	70s -----aaaa 80s aaaaa	016003	40s -----fcC 50s CBAAAAAAA 60s AAAA.....AA 70s AAAA.....AA 80s ABCC†	021006	50s EAAAAAAA 70s AAAAAAAA 80s AAAA! 70s AAAAAAAA
003001	50s ---eAAAAe 70s -----aaaa 80s aaaa	015004	20s -----CCC 30s CCCCCCBAA- 40s -----††† 50s EE††††††E 60s AAAAEE††† 70s ††††††††††††	021007	50s EAAAAAAA 70s AAAAAAAA 80s AAEE† 70s AAAAAAAA
003002	70s -----aaaa 80s aaaa	015005	20s -----CCC 30s CCCCCCBAA- 40s -----††† 50s EE††††††E 60s AAAAEE††† 70s ††††††††††††	021008	50s EAAAAAAA 70s AAAAAAAA 80s AAEE† 70s AAAAAAAA
003003	70s -----eaa 80s aaaa	015006	20s -----CCC 30s CCCCCCBAA- 40s -----††† 50s EE††††††E 60s AAAAEE††† 70s ††††††††††††	021009	50s -†††††††††††† 70s AAAAAAAA 80s AAEE† 70s AAAAAAAA
003004	70s -----e 80s aaaa	015007	50s -----eAA 60s AAAA.....AA 70s AAAA.....AA 80s AACCC	021010	50s -†††††††††††† 70s AAAAAAAA 80s AA††† 70s AAAAAAAA
003005	80s -eaaa	015008	50s -----EA 60s AAAA.....AA 70s AAAA.....AA 80s AACCC	021011	50s -†††††††††††† 70s AAAAAAAA 80s AAEE† 70s AAAAAAAA
004001	50s ---eAEEAA 60s BABABAAAAA 70s E†††††††††††† 80s AAAAa	015009	20s -----CCC 30s CCCCCCBAA- 40s -----††† 50s EE††††††E 60s AAAAEE††† 70s ††††††††††††	021012	50s -†††††††††††† 70s AAAAAAAA 80s AAAA† 70s AAAAAAAA
004003	70s -----aaaa 80s aaaa	015010	50s -----eAA 60s AAAA.....AA 70s AAAA.....AA 80s AACCC	021013	50s -†††††††††††† 70s AAAAAAAA 80s AA††† 70s AAAAAAAA
004004	80s -eaaa	015011	50s -----cc 60s cccccccc 70s cCBAA.....AA 80s AACCC	021014	50s -FAAAAAAA 70s AAAAAAAA 80s AAEE† 70s AAAAAAAA
005001	50s ---eAAAAAA 60s AAE---††† 70s 1111	015012	50s -----c 60s AACCC 70s -bAaaa 80s AACCC	021015	50s -†††††††††††† 70s AAAAAAAA 80s AA††† 70s AAAAAAAA
005002	70s 1111	015013	50s -----cccc 60s cCCCCCCCCC 70s CCCBAA.....AA 80s AACBC	021016	50s -†††††††††††† 70s AAAAAAAA 80s AA††† 70s AAAAAAAA
005003	50s -----eAAAB 60s AAAE111111	015014	20s -----bAAA 50s AAAA.....AA 40s BACCC 60s AACCC	021017	50s -†††††††††††† 70s AAAAAAAA 80s AA††† 70s AAAAAAAA
006001	30s -----eAAAB 50s E†††††††††††† 60s AAAE111111	015015	20s -----bAAA 50s AAAA.....AA 40s BACCC 60s AACCC	021018	50s -†††††††††††† 70s AAAAAAAA 80s AAA† 70s AAAAAAAA
006006	50s ---eAAAAAB 70s BAa	015016	20s -----bAAA 50s AAAA.....AA 40s BACCC 60s AACCC	021019	50s -†††††††††††† 70s AAAAAAAA 80s AA††† 70s AAAAAAAA
006007	70s ---eAAAAAA 80s AAAAa	015017	20s -----c 60s AACCC 40s -bAaaa 80s AACCC	021020	50s -†††††††††††† 70s AAAAAAAA 80s AA††† 70s AAAAAAAA
006008	70s -----e 80s aaaa	015018	50s -----eAAA 60s AAAA.....AA 70s eaaaae 80s AACCC	021021	50s -†††††††††††† 70s AAAAAAAA 80s AA††† 70s AAAAAAAA
007001	60s eAAAAAAA 70s AAAAAAAAa	015019	20s -----c 60s AAAA.....AA 40s BACCC 60s AACCC	021022	50s -†††††††††††† 70s AAAAAAAA 80s AA††† 70s AAAAAAAA
007002	50s -----eA 60s AAAAAAAA 70s AAAA.....AA	015020	20s -----c 60s AAAA.....AA 40s BACCC 60s AACCC	021023	50s -†††††††††††† 70s AAAAAAAA 80s AA††† 70s AAAAAAAA
007003	60s -----eAAAAAA 70s AAAAABAAa	015021	20s -----cc 60s AACCC 40s -cc 80s AACCC	021024	50s -†††††††††††† 70s AAAAAAAA 80s AA††† 70s AAAAAAAA
007004	70s -----e 80s aaaa	016001	40s -----cc 50s cBAAbdAAA 60s AAAA.....AA 80s BACCC	021025	50s -†††††††††††† 70s AAAAAAAA 80s AA††† 70s AAAAAAAA
007005	80s ---cc	016002	50s -----+AAA 60s AAAA.....AA 70s AAAA.....AA 80s BACCC	021026	50s -†††††††††††† 70s AAAAAAAA 80s AA††† 70s AAAAAAAA
008001	30s -----fc 50s bBBA.....AA 70s AAAA1111	016003	60s -1111111111 70s FAAAAAAA 80s AAAA 80s AAAA	021027	50s -†††††††††††† 70s EAAAAAAA 80s AA††† 70s EAAAAAAA
008002	50s -eABAABA 60s AAAA.....AA 70s AAAA.....AA	016004	70s -eAAAAAA 80s AAAA 80s AAAA 80s AAAA	021028	50s -†††††††††††† 70s EAAAAAAA 80s AA††† 70s EAAAAAAA
008003	50s -eAAAAAAA 60s AAAA.....AA 70s AAAA1111	017001	60s - - - - -E 70s AAAA.....AA 80s AAAAa 80s AAAA	021029	50s -†††††††††††† 70s EAAAAAAA 80s AA††† 70s EAAAAAAA
008004	50s --eAAAAAAA 60s AAAA.....AA 70s AAAA.....AA	017002	60s - - - - -t 70s AAAA.....AA 80s AAAAa 80s AAAA	021030	50s -†††††††††††† 70s EAAAAAAA 80s AA††† 70s EAAAAAAA
008005	50s -eAAAAAAA 60s AAAA.....AA 70s AAAA.....AA	017003	70s fEAAA.....AA 80s AAAAa 80s AAAA 80s AAAA	021031	50s - - - - -AAA 60s AEAAAAAA 80s AAAAa 80s e
008006	50s -eAAAAAAA 60s AAAA.....AA 70s AAAA.....AA	017004	70s -EAAA.....AA 80s AAAAa 80s AAAA 80s AAAA	021032	50s - - - - -AAA 70s AAAA.....AA 80s AAAE 70s AAAA.....AA
008007	50s -eAAAAAAA 60s AAAA.....AA 70s AAAA.....AA	017005	70s -EAAA.....AA 80s AAAAa 80s AAAA 80s AAAA	021033	50s - - - - -AAA 70s AAAA.....AA 80s AAEE† 70s AAAA.....AA
008008	50s -eAAAAAAA 60s AAAA.....AA 70s AAAA.....AA	018001	50s - - - - -EAA 60s AAAA.....AA 70s AAAA.....AA 80s BACCC	021034	50s - - - - -AAA 70s AAAA.....AA 80s AAEE† 70s AAAA.....AA
008009	50s -eEbbBBA 60s AAAA.....AA 70s AAAA.....AA	018002	50s - - - - - 60s AFAAAAAAA 70s ***AAA.....AA 80s AACAD	022001	60s - - - - -AAA 70s AAAA.....AA 80s AAEE† 70s AAAA.....AA
008010	50s -eAAAAAAA 60s AAAA.....AA 70s AAAA.....AA	018003	60s - - - - -AAA 70s AAAEAAAa 80s AAAAa 80s AAAA	022002	60s - - - - -AAA 70s AAAA.....AA 80s AAEE† 70s AAAA.....AA
008001	50s - - - - - 60s AAAA.....AA 70s AAAA.....AA	018004	70s fEAAA.....AA 80s AAAAa 80s AAAA 80s AAAA	022003	60s - - - - -AAA 70s AAAA.....AA 80s AAEE† 70s AAAA.....AA
008005	50s - - - - - 60s AAAA.....AA 70s AAAA.....AA	018005	70s fEAAA.....AA 80s AAAAa 80s AAAA 80s AAAA	022004	60s - - - - -AAA 70s AAAA.....AA 80s AAEE† 70s AAAA.....AA
008006	50s - - - - - 60s AAAA.....AA 70s AAAA.....AA	018006	70s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAA	022005	60s - - - - -AAA 70s AAAA.....AA 80s AAEE† 70s AAAA.....AA
009001	50s -----e 60s AAAAAAAA 70s AAAAa	018007	60s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAA	022006	60s - - - - -AAA 70s AAAA.....AA 80s AAEE† 70s AAAA.....AA
009002	60s -----aaaa 70s AAAAABAAa	019001	50s -----AAA 60s AAAA.....AA 70s AAAA.....AA 80s AAAAa	022007	60s - - - - -AAA 70s AAAA.....AA 80s AAEE† 70s AAAA.....AA
009003	60s - - - - - 70s AAAAABAA 70s AAAAABAA	019002	60s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAA	022008	60s - - - - -AAA 70s AAAA.....AA 80s AAEE† 70s AAAA.....AA
009004	80s -eaaa	019003	60s - - - - -AAA 70s AAAA.....AA 80s D††† 80s AAAAa	022009	60s - - - - -AAA 70s AAAA.....AA 80s AAEE† 70s AAAA.....AA
010001	60s - - - - - 70s ABAAAAAAa 70s ABAAAAAAa	019004	60s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAA	022010	60s - - - - -AAA 70s AAAA.....AA 80s AAEE† 70s AAAA.....AA
010002	60s - - - - - 70s EAABAAAa 70s EAABAAAa	019005	60s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAA	022011	60s - - - - -AAA 70s AAAA.....AA 80s AAEE† 70s AAAA.....AA
010003	60s - - - - - 70s 111EA.....AA 70s 111EA.....AA	019006	60s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAA	022012	60s - - - - -AAA 70s AAAA.....AA 80s AAEE† 70s AAAA.....AA
011001	60s - - - - - 70s AAAA.....AA 80s AAAAa	019007	60s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAA	023001	50s - - - - -AAA 60s AAAA.....AA 70s AAAA.....AA 80s AAAAa
011002	60s - - - - - 70s CBAAAAAAA 70s CBAAAAAAA	019008	60s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAA	023002	50s - - - - -AAA 60s AAAA.....AA 70s AAAA.....AA 80s AAAAa
011003	60s - - - - - 70s 111EA.....AA 70s 111EA.....AA	019009	60s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAA	023003	50s - - - - -AAA 60s AAAA.....AA 70s AAAA.....AA 80s AAAAa
012001	20s -----e 30s BBBB...BBBB 40s BABBAA...BCCC 60s CCCCCCCCCC 80s AAAAc	019011	70s - - - - -AAA 80s AAAAa 80s AAAAa 80s AAAAa	023004	60s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAAa
012002	70s -eAAAAAA 80s AAAAa	020001	60s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAAa	023005	60s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAAa
012003	70s - - - - - 80s AAAAa	020002	60s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAAa	023006	60s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAAa
012004	70s - - - - - 80s bFCc 80s AAAAa	020003	60s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAAa	023007	60s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAAa
012005	70s - - - - - 80s AAAAa	020004	60s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAAa	023008	60s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAAa
012006	70s - - - - - 80s AAAAa	020005	60s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAAa	023009	60s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAAa
012007	80s - - - - - 80s AAAAa	020006	60s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAAa	023010	60s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAAa
013001	70s -----e 80s AAAAa	020007	60s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAAa	023011	60s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAAa
013002	80s - - - - - 80s AAAAa	020008	60s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAAa	023012	70s TEBA.....AA 80s - - - - - 80s AAAAa 80s AAAAa
013003	70s -----c 80s ccc	020009	60s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAAa	023013	70s TEBA.....AA 80s - - - - - 80s AAAAa 80s AAAAa
013005	80s - - - - - 80s AAAAa	020010	60s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAAa	023014	70s TEBA.....AA 80s - - - - - 80s AAAAa 80s AAAAa
013007	70s -----cccc 80s cccca	020011	60s - - - - -AAA 70s AAAA.....AA 80s AAAAa 80s AAAAa	023015	70s TEBA.....AA 80s - - - - - 80s AAAAa 80s AAAAa
013008	80s - - - - - 80s AAAAa	021001	50s -----e 60s AAAAEEAE† 70s f1111111111 60s AAAAEEAE†	024001	50s - - - - -AAA 60s CCCCCCBAAA 70s AAAA.....AA 80s AAAAa
014001	60s - - - - - 70s AAAA.....AA 80s AAAAa	021002	50s -----e 60s aBCBAA.....A 70s f1111111111 60s AAAAEEAE†	024002	50s - - - - -AAA 60s AAAA.....AA 70s AAAA.....AA 80s AAAAa
014002	60s - - - - - 70s AAAA.....AA 80s ACCC	021003	50s -----e 60s AAAAABAA 70s f1111111111 60s AAAE†	024003	50s - - - - -AAA 60s AAAA.....AA 70s AAAA.....AA 80s AAAAa
016001	50s - - - - - 60s AAAAEEAE†	021004	60s - - - - -AAA 70s AAAA.....AA 80s AAAE†	024004	50s - - - - -AAA 60s FAFEEBBB† 70s AAAA.....AA 80s AAAAa
016002	50s - - - - - 60s AAAAEEAE†	021005	60s - - - - -AAA 70s AAAA.....AA 80s AAAE†	024005	50s - - - - -AAA 60s AAAA.....AA 70s AAAA.....AA 80s AAAAa

SUMMARY OF ARCHIVED DATA - 1

135

Stn. number	Gauged daily flows, monthly peaks and rainfall	Stn. number	Gauged daily flows, monthly peaks and rainfall	Stn. number	Gauged daily flows, monthly peaks and rainfall
024004	50s - - - 70s AAAAAAAAEEA	60s AAAAAAAA 80s AAAAee	027032	60s ----- EEAA 80s AEADd	70s AAAAAEEEAA 70s cccccccaaa
024005	50s - - - 70s AAAAAAAAEEA	60s AAAAAAAA 80s AAAAee	027033	60s ----- 80s AAAAa	70s cccccccaaa
024006	60s - - - 80s - 80s AAAE	70s AAAAAAAA 80s AAAAa	027034	60s ----- eEA 80s AAAAa	70s BAAAAAAA 80s Cffff
024007	60s - - - 80s AAAE	70s AAAAAAAA 80s AAAAa	027035	60s ----- EA 80s EAAAa	70s AAAAAEEEAA 80s Cffff
024008	70s - - - 70s AAAAa	80s AAAAa 80s AAAAa	027036	60s ----- IE 70s EEE	70s EEE 80s Cffff
024009	70s - - - 70s AAAAa	80s AAAAa 80s AAAAa	027037	70s EAAAAAAA 80s EAAdS	70s EEE 80s Cffff
			027039	60s ----- eAA 80s AAAAa	70s AAAE 80s Cffff
025001	50s - - - 70s AAAAa	60s AAAAAAAA 80s AAAAa	027040	70s EAAAAAAA 80s AAAAa	80s Cffff
025002	50s - - - 70s AAAAa	60s AAAAAAAA 80s AAAAa	027041	70s - - - 80s AAAAa	80s Cffff
025003	50s - - - 70s AAAAa	60s AAAAAAAA 80s AAAAa	027043	70s - - - 80s AAAAa	80s Cffff
025004	50s - - - 70s AAAAa	60s AAAAAAAA 80s AAAAa	027047	70s - - - 80s AAAAa	80s Cffff
025005	50s - - - 70s AAAAa	60s AAAAAAAA 80s AAAAa	027048	70s - - - 80s AAAAa	80s Cffff
025006	60s - - - 80s AAAAa	70s AAAAAAbAAA 80s AAAAa	027050	70s fccff--- 80s ttt	80s Cffff
025007	60s - - - 80s AAAAa	70s AAAAAAAA 80s AAAAa	027051	70s eaaEEAAE 80s EAAdS	80s Cffff
025008	60s - - - 80s AAAAa	70s AAAAAAAA 80s AAAAa	027052	70s - - - 80s AAAAa	80s Cffff
025009	60s - - - 80s AAAAa	70s AAAAAAAA 80s AAAAa	027053	70s - - - 80s AAAAa	80s Cffff
025010	60s - - - 80s AAAAa	70s AAAEE 80s AAAAa	027059	70s - - - 80s AAAAa	80s Cffff
025011	60s - - - 80s AAAAa	70s AAAEE 80s AAAAa	027060	70s - - - 80s AAAAa	80s Cffff
025012	60s - - - 80s AAAAa	70s AAAEE 80s AAAAa	027061	70s - - - 80s AAAAa	80s Cffff
025013	60s - - - 80s AAAAa	70s AAAEE 80s AAAAa	027062	70s - - - 80s AAAAa	80s Cffff
025014	60s - - - 80s AAAAa	70s AAAEE 80s AAAAa	027063	70s - - - 80s AAAAa	80s Cffff
025015	60s - - - 80s AAAAa	70s AAAEE 80s AAAAa	027065	70s - - - 80s AAAAa	80s Cffff
025016	70s - - - 70s AAAAa	70s AAAAa 80s AAAAa	027066	80s - - - 80s AAAAa	80s Cffff
025017	70s - - - 70s AAAAa	70s AAAAa 80s AAAAa	027067	80s - - - 80s AAAAa	80s Cffff
025018	70s - - - 70s AAAAa	70s AAAAa 80s AAAAa	027068	80s - - - 80s AAAAa	80s Cffff
025019	70s - - - 70s AAAAa	70s AAAAa 80s AAAAa	027069	80s - - - 80s AAAAa	80s Cffff
025020	70s - - - 70s AAAAa	70s AAAAa 80s AAAAa	027071	80s - - - 80s AAAAa	80s Cffff
025021	70s - - - 70s AAAAa	70s AAAAa 80s AAAAa	027072	80s - - - 80s AAAAa	80s Cffff
025022	70s - - - 70s AAAAa	70s AAAAa 80s AAAAa	027073	80s - - - 80s AAAAa	80s Cffff
025023	70s - - - 70s AAAAa	70s AAAAa 80s AAAAa	027074	80s - - - 80s AAAAa	80s Cffff
025024	70s - - - 70s AAAAa				
028001	50s - - - 60s BBBBBAABBB 70s AEAE 80s ---?	028001	30s - - - 50s BBBBBAABBB 60s AEAE 70s BBBBBAABBB	40s E IE 50s AAAAAACCCC 60s AAAAAAAA 70s Cffff	70s AAAAAAAA 80s Cffff
028002	60s - - - 60s AAAAEBBE 80s BtCCc	028002	30s - - - 50s AAAAEBBE 60s AAAAEBBE 70s AAAAEBBE	40s AAAAAAAA 50s AAAAAAAA 60s AAAAAAAA 70s Cffff	70s AAAAAAAA 80s Cffff
028003	50s - - - 70s AAAAEEAAA 80s AAAAa	028003	30s - - - 50s AAAAEEAAA 60s AAAAEEAAA 70s AAAAEEAAA	40s AAAAAAAA 50s AAAAEEAAA 60s AAAAEEAAA 70s Cffff	70s AAAAAAAA 80s Cffff
028004	70s TEEBEFEBAA	028004	30s - - - 50s AAAAEEAAA 60s AAAAEEAAA 70s AAAAEEAAA	40s AAAAAAAA 50s AAAAEEAAA 60s AAAAEEAAA 70s Cffff	70s AAAAAAAA 80s Cffff
028005	80s - - - 80s AAAAa	028005	30s - - - 50s AAAAEEAAA 60s AAAAEEAAA 70s AAAAEEAAA	40s AAAAAAAA 50s AAAAEEAAA 60s AAAAEEAAA 70s Cffff	70s AAAAAAAA 80s Cffff
027001	30s - - - 50s - - - 70s AAAAAAAA	40s 1EBAABCC- 60s AAAAAAAA 80s AE	028006	30s - - - 50s - - - 70s - - -	40s E IE 50s AAAAAAAA 60s AAAAAAAA 70s Cffff
027002	30s - - - 50s - - - 70s AAAAAAAA	40s - - - 60s AAAAABABA 80s AAAAa	028007	50s - - - 70s - - -	40s AAAAAAAA 50s AAAAABABA 60s AAAAABABA 70s Cffff
027003	50s - - - 70s AAAAABABEE 80s A AAa	40s - - - 60s AAAAABABEE 80s A AAa	028008	50s - - - 70s AAAAABABEE 80s A AAa	40s AAAAAAAA 50s AAAAABABEE 60s AAAAABABEE 70s Cffff
027004	60s - - - 70s AAAAEEAE 80s ABCCCCCCC	40s - - - 60s AAAAEEAE 80s ABCCCCCCC	028009	50s - - - 70s AAAAEEAE 80s ABCCCCCCC	40s AAAAAAAA 50s AAAAEEAE 60s AAAAEEAE 70s Cffff
027005	30s - - - 50s - - - 70s ABCCCCCCC 80s ABCCCCCCC	40s - - - 60s AAAAEEAE 80s ABCCCCCCC	028010	50s - - - 70s ABCCCCCCC 80s ABCCCCCCC	40s FFFFFFFFFFFF 50s CCCCCCCCCC 60s CCCCCCCCCC 70s ABCCCCCCC
027006	60s - - - 80s - - - 80s AAAAa	40s - - - 60s AAAAa 80s C FCf	028011	50s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027007	50s - - - 70s BBBAAAEE 80s AAAAa	40s - - - 60s AAAAa 80s AAAAa	028012	50s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027008	50s - - - 70s AAAAEEFAE 80s AFDFe	40s - - - 60s AAAAEEFAE 80s AFDFe	028014	50s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027009	60s - - - 70s AAAAEEFAE 80s AAAAa	40s - - - 60s AAAAEEFAE 80s AAAAa	028015	60s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027010	50s - - - 70s ABAAAEEAE 80s AAAAa	60s BAAEAAAAAA 70s AAAAa	028016	60s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027011	50s - - - 70s AAAAEEAE 80s AAAAa	60s BAAEAAAAAA 70s AAAAa	028017	60s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027012	50s - - - 70s AAAAEEAE 80s AAAAa	60s BAAEAAAAAA 70s AAAAa	028018	60s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027013	50s - - - 70s AAAAEEAE 80s AAAAa	60s BAAEAAAAAA 70s AAAAa	028019	60s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027014	50s - - - 70s AAAAEEAE 80s AAAAa	60s BAAEAAAAAA 70s AAAAa	028020	60s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027015	60s - - - 70s AAAAEEAE 80s AAAAa	60s BAAEAAAAAA 70s AAAAa	028021	60s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027016	50s - - - 70s AAAAEEAE 80s AAAAa	60s BAAEAAAAAA 70s AAAAa	028022	60s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027017	50s - - - 70s AAAAEEAE 80s AAAAa	60s BAAEAAAAAA 70s AAAAa	028023	60s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027018	50s - - - 70s AAAAEEAE 80s AAAAa	60s BAAEAAAAAA 70s AAAAa	028024	60s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027019	50s - - - 70s AAAAEEAE 80s AAAAa	60s BAAEAAAAAA 70s AAAAa	028025	60s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027020	50s - - - 70s AAABEECEEE 80s AAAAa	60s BAAEAAAAAA 70s AAAAa	028026	60s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027021	50s - - - 70s AAAAEEAE 80s AAAAa	60s BAAEAAAAAA 70s AAAAa	028027	60s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027022	60s - - - 70s AAAAEEAE 80s AAAAa	60s BAAEAAAAAA 70s AAAAa	028028	60s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027023	60s - - - 70s AAAAEEAE 80s AAAAa	60s BAAEAAAAAA 70s AAAAa	028029	60s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027024	60s - - - 70s AAAAEEAE 80s E T	60s BAAEAAAAAA 70s AAAAa	028031	60s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027025	60s - - - 70s AAAAEEAE 80s AAAAa	60s BAAEAAAAAA 70s AAAAa	028032	60s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027026	60s - - - 70s AAAAEEAE 80s AAAAa	60s BAAEAAAAAA 70s AAAAa	028033	60s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027027	60s - - - 70s AAAAEEAE 80s AAAAa	60s BAAEAAAAAA 70s AAAAa	028034	60s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027028	60s - - - 70s AAAAEEAE 80s AAAAa	60s BAAEAAAAAA 70s AAAAa	028035	60s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027029	60s - - - 70s AAAAEEAE 80s AAAAa	60s BAAEAAAAAA 70s AAAAa	028036	60s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027030	60s - - - 70s AAAAEEAE 80s AAAAa	60s BAAEAAAAAA 70s AAAAa	028037	60s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027031	60s - - - 70s AAAAEEAE 80s AAAAa	60s BAAEAAAAAA 70s AAAAa	028038	60s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027032	60s - - - 70s AAAAEEAE 80s AAAAa	60s BAAEAAAAAA 70s AAAAa	028039	60s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027033	60s - - - 70s AAAAEEAE 80s AAAAa	60s BAAEAAAAAA 70s AAAAa	028040	60s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027034	60s - - - 70s AAAAEEAE 80s AAAAa	60s BAAEAAAAAA 70s AAAAa	028041	60s - - - 70s - - -	40s EEE 50s - - - 60s - - -
027035	60s - - - 70s AAAAEEAE 80s AAAAa	60s BAAEAAAAAA 70s AAAAa	028042	60s - - - 70s - - -	40s EEE 50s - - - 60s - - -

Stn number	Gauged daily flows, monthly peaks and rainfall	Stn number	Gauged daily flows, monthly peaks and rainfall	Stn number	Gauged daily flows, monthly peaks and rainfall
032008	40s ---eAAB 50s AAAABABAA 60s BBBBBAEAE 80s AAAAc	034004	60s eAAAAAAA 80s ABAe 80s AAAAe	037025	60s ---CBAAE 70s EEEETT---
032012	60s ---F 70s FFFFFLEEF 80s FFF	034005	60s -eAAAAAA 70s AAAAABAA 80s ABAAe	037026	60s -eabaahaa 70s aaaaae
032015	60s ----F 70s FFFFFFFF 80s FFFF	034006	60s --eAABAA 70s AAAAABAA 80s AAAe	037027	60s faaaaaaa 70s ae
032016	70s -eEEEEEEE 80s EEEee	034007	60s ---eABA 70s AAAAABAA 80s AAAe	037028	60s fcaabaae 70s aaaaae
032018	70s -EEEEESEE 80s FFFI	034008	60s ---eABA 70s AAAAABAA 80s AAAe	037029	60s eaaaaabaa 70s aaaaae
032019	70s EEEEEE 80s FFFee	034010	60s --eABA 70s AAAAABAA 80s FCDe	037030	60s --EEERBAAB 70s e
032020	70s FAAAAFAAB 80s ABAAe	034011	60s --eAAA 70s AAAAABAA 80s AABAe	037031	70s ---eaaa 80s AAAAc
032023	70s FFFFFEEE 80s FFFI-e	034012	60s ----eAAA 70s AAAAABAA 80s AAAAc	037035	80s II
032024	70s -EEEEESEE 80s EEEee	034013	70s -FFFABAAB 80s ADFe	038001	30s CCC 40s CCCCCCCCCC
032025	70s -EEEEESEE 80s FFFee	034014	60s -----e 70s aaaaaaaa 80s AFDe	038002	50s CCCCCCCCCC 60s CCCCCAAAAB
032026	70s eeeeeeff 80s FFFee	034018	70s fffffAAA 80s AAAAe	038003	50s --eAAAAAA 70s AAAAe
032027	70s -eEEEEEEE 80s EEEee	034019	70s ---FAAA 80s AAAAe	038004	70s ---e 80s AAAAe
032029	70s ---eaeae 80s ett	034019	70s ---FAAA 80s AAAAe	038005	60s eaaaaabaaa 70s AAAAe
032030	70s -----e 80s ett	034018	70s fffffAAA 80s AAAAe	038006	50s ---CCC 60s CBAAAAAAABA
032031	80s ----e	034019	70s ---FAAA 80s AAAAe	038007	60s --eAAA 70s AAAAe
033001	30s ---fcCC 40s FCCCCCC 50s FCCCCCCCCC	034019	70s ---FAAA 80s AAAAe	038011	50s ---ICC 60s CCCCCBBBBB
033002	30s ---fcccCB 40s BBBBCCCC 50s CCCCCCCCCC	035001	60s -fEEETT 70s ffffff:E	038012	70s ---eAAAAAA 80s AAAAe
033003	30s ---ICCC 40s CCCCCCCCCC 50s BAEBARCC	035002	60s eAAA 70s AAADAAFAAB	038013	60s eaaaaabaaa 70s AAAAe
033004	30s ---ICCC 40s CCCCCFC 50s CCCCCBACCC	035003	60s -eAAAAAA 70s AEAAAAAAA	038006	50s ---CCC 60s CBAAAAAAABA
033005	50s -iccccccc 60s BAAABABCB 70s CAAAABAAAB	035004	60s AAAA 70s AAAAABAA 80s ABAAe	038007	60s --eAAA 70s AAAAe
033006	50s ---BCC 60s BAAABABRB 70s ABAAABAB	035008	60s AAAA 70s AAAAABAA 80s ABAAe	038014	50s ---eccc 60s eeeeeeee
033007	50s ---eCCCCC 60s CCCCCBBBAB 70s BAAABAAA	035009	60s AAAA 70s AAAAABAA 80s ABAAe	038015	60s -----E 70s AAAABAAAAA
033008	50s ---e 60s ABAAABBB 70s BAAABAAA	035010	60s AAAA 70s AAAAABAA 80s ABAAe	038016	60s Af 70s AAAAe
033009	50s ---eABCC 60s BAAABABCB 70s BAAABAAA	035011	60s AAAA 70s AAAAABAA 80s ABAAe	038017	60s AAAAe
033011	60s eaaaaaaa 70s BAAABAAA 80s BAAAc	036001	20s CC 30s fCCCCCCCCC	038017	60s AAAAe
033012	60s eaaaaaaa 70s BAAABAAA 80s AAAAe	036002	40s CCCCCCCCCC 50s CCCCCBAAAB	038018	60s -eAAAABAAA 80s AAAAe
033013	60s eaaaaaaa 70s BAAABAAA 80s AAAAe	036003	60s CCCCBAAA 70s BBBARACCCC	038019	70s eBa eII
033014	60s eaaaaaaa 70s ABAAABAAA 80s AAAAe	036004	60s CCCBAAA 70s AAAAABAA 80s ABAAe	038020	70s -eAAAAAA 80s AA!Te
033015	60s eaaaaaaa 70s AAAAABAA 80s AAAAe	036005	60s CCCBAAA 70s AAAAABAA 80s ABAAe	038021	70s -eAAAAAA 80s AAAAe
033016	60s eaaaaef 70s CCCF 80s AAAAe	036006	60s -ICCBAAA 70s AAAAABAA 80s ABAAe	038022	70s -ICCCAAA 80s AAAAe
033017	70s ---TT 80s CCCF	036006	60s -ICCBAAA 70s AAAAABAA 80s ABAAe	038023	80s Af 70s AAAAe
033018	60s ---eAAAEEA 70s AAAAABAA 80s BAAAc	036007	60s ICCHEAAA 70s AAAAABAA 80s ABAAe	038024	70s ---eAAA 80s AAAAe
033019	60s eaaaaaaa 70s ABAAABAA 80s AAAAe	036008	60s FCBCBAAA 70s ABAAABAA 80s AAAAe	038025	50s eobbb 60s eaaaaabaa
033020	60s ---eEEEEE 70s EBEBAAAAA 80s AABAe	036009	60s AAAAe 70s EA 70s AAAAABAA 80s ABAAe	038026	70s ---eAAA 80s AAAAe
033021	60s ---eAAAEE 70s EBEBAAAAA 80s BAABe	036010	60s ---eAAA 70s AAAAABAA 80s ABAAe	038028	70s ---e 80s AAAAe
033022	60s -AAAA 70s AAAAABAA 80s AAAAe	036011	60s ---eAAA 70s AAAAABAA 80s ABAAe	038029	70s ---e 80s AAAAe
033023	60s eaaaaafa 70s AAFAAAAAA 80s AAAAe	036012	60s AAAAe 70s AAAAABAA 80s ABAAe	038030	70s ---e 80s AAAAe
033024	40s ---e 60s eebI 70s ABAAABAA 80s AAAAe	036013	70s FFFFFF 80s FFFI	039003	60s -eAAAAEE 70s eBaEEETT
033025	60s FAAAAA 70s AAFBCFI 80s AAAAe	036015	70s -FABAABA 70s AAABe	039004	70s -eEEFAA 70s FF
033026	70s -ICCCCCCCC 80s CCCCI	036017	70s eeeeeeee 80s baa	039005	70s ---e 40x
033027	60s ---eAAEE 70s BEAAAAAAA 80s ABAAe	037001	50s eAAAAAAA 60s AAAAABAA 80s AAAAe	039006	50s eaaaaa 60x AAAAe
033028	60s ---eAEE 70s AEAAAAAAA 80s ABAAe	037002	50s -fCCCCCCC 40s CBBCCCCCCC	039007	70s AAAAABAA 60x AAAAe
033029	60s eAAAe 70s AEETAA 80s AAAAe	037003	50s -ICCCCCCCC 40s CCCCCCCCCC	039008	70s eeeCCC 60x CCCCCCCCCC
033030	60s ---TT 70s ffffff 70s ---TT 80s BAAAc	037003	50s -ICCCCCCCC 40s CCCCCBAAA 60s AAAAe	039009	70s CCCCF 60x CCCCCBAAA
033031	70s -eAAAABAA 80s AAAAe	037004	50s -ICCCCCCCC 40s CCCCCBRRRF 60s ABAAABAB	039010	70s -eAAAAAAA 60x AAAAABAA
033032	60s eAAAe 70s AAADAAAAA 80s AAAAe	037004	50s -ICCCCCCCC 40s CCCCCBRRRF 60s ABAAABAA	039011	70s AAAAABAA 60x AAAAe
033033	70s ---eAAAAAA 80s AAAAe	037005	60s AAAAe 70s CCCCCBAAA 80s AAAAe	039012	70s AAAAABAA 60x AAAAe
033034	60s ---eAAA 70s AAAAe 80s AAAAe	037006	60s -eCCBAAA 70s AAAAABAA 80s AAAAe	039013	70s AAAAABAA 60x AAAAe
033035	60s ---e 70s CCCCCCI 80s AAAAe	037007	60s -eAAA 70s AAAAABAA 80s AAAAe	039014	70s AAAAABAA 60x AAAAe
033037	60s ---e 70s ABAAABAA 80s AAAAe	037008	60s ---eAAA 70s AAAAABAA 80s AAAAe	039015	70s AAAAABAA 60x AAAAe
033038	70s -eAAAABAA 80s AABAe	037008	60s ---eAAA 70s AAAAABAA 80s AAAAe	039016	70s AAAAABAA 60x AAAAe
033040	70s -FAAAAAAA 80s AAAAe	037009	60s -eICCBAAA 70s AAAAABAA 80s AAAAe	039017	70s AAAAABAA 60x AAAAe
033044	70s -IAABAA 80s AAAAe	037009	60s -eICCBAAA 70s AAAAABAA 80s AAAAe	039018	70s AAAAABAA 60x AAAAe
033045	70s -IAABAA 80s AAAAe	037010	60s -eICCBAAA 70s AAAAABAA 80s AAAAe	039019	70s AAAAABAA 60x AAAAe
033046	70s -IAABAA 80s AAAAe	037011	60s -eICCBAAA 70s AAAAABAA 80s AAAAe	039020	70s AAAAABAA 60x AAAAe
033049	70s ---eaaaa 80s e	037011	60s -eICCBAAA 70s AAAAABAA 80s AAAAe	039021	70s AAAAABAA 60x AAAAe
033050	70s ---ecccc 80s BCBCB 80s AAAAe	037012	60s ---eICCBAAA 70s AAAAABAA 80s AAAAe	039021	70s AAAAABAA 60x AAAAe
033051	60s ecccc 70s raaaaabba 80s AAAAe	037012	60s ---eICCBAAA 70s AAAAABAA 80s AAAAe	039022	70s AAAAABAA 60x AAAAe
033052	70s ---eaaaa 80s aABe	037013	60s -eICCBAAA 70s AAAAABAA 80s AAAAe	039022	70s AAAAABAA 60x AAAAe
033054	70s fcc 80s AAAAe	037014	60s -eICCBAAA 70s AAAAABAA 80s AAAAe	039023	70s AAAAABAA 60x AAAAe
033055	70s ---eaaa 80s AAAAe	037014	60s -eICCBAAA 70s AAAAABAA 80s AAAAe	039024	70s AAAAABAA 60x AAAAe
033056	70s ---ecccc 80s AAAAe	037015	60s -eICCBAAA 70s AAAAABAA 80s AAAAe	039025	70s AAAAABAA 60x AAAAe
033057	70s ---eaaa 80s AAAAe	037016	60s -eICCBAAA 70s AAAAABAA 80s AAAAe	039026	70s AAAAABAA 60x AAAAe
033058	70s ea 80s AAAAe	037016	60s -eICCBAAA 70s AAAAABAA 80s AAAAe	039027	70s AAAAABAA 60x AAAAe
033060	60s ---e 70s cccccccc	037017	60s ---eICCBAAA 70s AAAAABAA 80s AAAAe	039027	70s AAAAABAA 60x AAAAe
033063	80s eaaaa 80s AAAAe	037017	60s -eICCBAAA 70s AAAAABAA 80s AAAAe	039027	70s AAAAABAA 60x AAAAe
033064	80s eaaaa 80s AAAAe	037018	60s -eICCBAAA 70s AAAAABAA 80s AAAAe	039027	70s AAAAABAA 60x AAAAe
033065	80s fccce 80s AAAAe	037019	60s -eICCBAAA 70s AAAAABAA 80s AAAAe	039027	70s AAAAABAA 60x AAAAe
033066	80s e 80s AAAAe	037020	60s -eICCBAAA 70s AAAAABAA 80s AAAAe	039027	70s AAAAABAA 60x AAAAe
033067	80s ---e 80s AAAAe	037021	60s -eICCBAAA 70s AAAAABAA 80s AAAAe	039027	70s AAAAABAA 60x AAAAe
033068	80s ---e 80s AAAAe	037021	60s -eICCBAAA 70s AAAAABAA 80s AAAAe	039027	70s AAAAABAA 60x AAAAe
034001	50s ---e 60s AAAAABAA 80s AAAAe	037022	60s -eICCBAAA 70s AAAAABAA 80s AAAAe	039027	70s AAAAABAA 60x AAAAe
034002	50s ---e 60s AAAAABAA 80s AABAe	037023	60s -eICCBAAA 70s AAAAABAA 80s AAe	039027	70s AAAAABAA 60x AAAAe
034003	50s ---e 60s AAAAABAA 80s AABAe	037024	60s -eICCBAAA 70s AAAAABAA 80s AAAe	039027	70s AAAAABAA 60x AAAAe

Stn. number	Gauged daily flows, monthly peaks and rainfall	Stn. number	Gauged daily flows, monthly peaks and rainfall	Stn. number	Gauged daily flows, monthly peaks and rainfall
039028	60s -----EA 70s AAAAAAAA	041015	60s -----EAA 70s AAADDAAADD	047001	50s -----eAAA 60s AAAAEEEE
80s AAAAe	70s AAAAa	041016	60s DAAAe 30s -----f	047002	70s AAAAEEAA 80s AAC
039029	60s -----EA 70s AAAAaAAA	041017	50s cccccccc 60s cccccccBAA	047003	50s -----eaa 60s AF1111111
80s AAAAa	70s AAAAaAAA	041018	60s -----e 70s aaaaaaaa	047004	70s -----t 60s -----ttt
039030	70s FAAAAAAA 80s AAAAa	041019	60s -----e 70s aaaaaaaa	047005	70s -----t 60s Ftttttttt
039031	60s cccccccc 70s aaaaaaaa	041020	60s -----e 70s aaaaaaaa	047006	60s -----eAAAE 70s AAAAEEAA
80s AAAAe	70s aaaaaaaa	041021	60s -----e 70s eBABAABBBD	047007	60s -----eAAA 70s AEI1111EA
039032	60s -----ea 70s aaaaaaaa	041022	70s eAAAADDDDD 80s ADAa	047008	60s -----e 70s AAAAEEAA
80s AAAAe	70s aaaaaaaa	041023	70s BBBBCCCCBBB 80s BBEEe	047009	60s -----e 70s AAAAEEAAAB
039033	60s -----ea 70s aaaaaaaa	041024	70s EAAAAAEEA 80s DAAAe	047010	60s AAAA 70s EAAAAAAA
80s AAAAe	70s aaaaaaaa	041025	70s EAAAAAADA 80s AAAAe	047011	70s EAAAAAAA 80s AAC
039034	70s FAAAAAAA 80s AAAAa	041026	70s EAAAAAADA 80s AAAAd	047012	70s EAAAAAAA 80f AF
039035	60s -----EA 70s AAAAAAAA	041027	60s -----e 70s aBAAAABAAA	047013	70s EEE111EAAA
80s AAAAa	70s AAAAAAAA	041028	60s -----e 70s aaaaaaaa	047014	80s AF 70s AAEEAAAAAA
039036	60s -----ea 70s aaaaaaaa	041029	70s eAAAADDDDD 80s ADAa	047015	60s -----e 70s AAAAEEAA
80s AAAAe	70s aaaaaaaa	041030	70s BBBBCCCCBBB 80s BBEEe	047016	60s -----e 70s AAAAEEAA
039037	70s FAAAAAAA 80s AAAAa	041031	70s EAAAAAEEA 80s DAAAe	047017	60s -----e 70s AAAAEEAA
80s AAAAe	70s aaaaaaaa	041032	70s EAAAAAADA 80s AAAAe	047018	60s AAAA 70s EAAAAAAA
039038	60s -----ea 70s aaaaaaaa	041033	70s EAAAAAADA 80s AAAAe	047019	60s AAAA 70s EAAAAAAA
80s AAAAe	70s aaaaaaaa	041034	70s EAAAAAADA 80s AAAAd	047020	60s -----e 70s AAAAEEAA
039040	70s FAAAAAAA 80s AAAAa	041035	60s -----e 70s aaaaaaaa	047021	60s -----e 70s AAAAEEAA
80s AAAAe	70s AAAAAAAA	041036	60s -----e 70s DADe	047022	60s -----e 70s AAAAEEAA
039041	70s FAAAAAAA 80s AAAAa	041037	60s -----e 70s DADe	047023	60s -----e 70s AAAAEEAA
80s AAAAe	70s AAAAAAAA	041038	60s -----e 70s DADe	047024	60s -----e 70s AAAAEEAA
039042	70s FAAAAAAA 80s AAAAa	041039	60s -----e 70s DADe	047025	60s -----e 70s AAAAEEAA
80s AAAAe	70s AAAAAAAA	041040	60s -----e 70s DADe	047026	60s -----e 70s AAAAEEAA
039043	60s -----ea 70s AAAAAAAA	041041	60s -----e 70s DADe	047027	60s -----e 70s AAAAEEAA
80s AAAAe	70s AAAAAAAA	041042	60s -----e 70s DADe	047028	60s -----e 70s AAAAEEAA
039044	70s -----eA 80s AAAAa	042001	50s KCCCCCCCCC 60s CCCCCCCCCC	048001	50s -----eAA 60s AAAAEEEE
80s -----eA 70s 1111	80s 1111	042002	70s CCCCBDBAAA 80s AEDa	048002	70s AAAAEEAA 80s AAC
039045	70s EEE1111 80s ABC1	042003	50s -----t 60s 1111-----1	048003	60s -----e 70s AAAAEEAA
80s -----eA 70s AAAAAAAA	042004	70s 11-----1 80s 1111-----1	048004	60s -----e 70s AAAAEEAA	
039051	60s -----eA 70s AAAAAAAA	042005	60s DADe 70s CCCCCCCCCC	048005	60s -----e 70s AAAAEEAA
80s AAAAe	70s AAAAAAAA	042006	60s -----e 70s CCCCCCCCCC	048006	60s -----e 70s AAAAEEAA
039052	50s -----eA 60s edaaaaaa	042007	60s DAAAe 70s CCCCCCCCCC	048007	60s -----e 70s AAAAEEAA
70s BBBBCCCCBB 80s AAAAe	70s aaaaaaaa	042008	60s -----e 70s CCCCCCCCCC	048008	60s -----e 70s AAAAEEAA
80s -----eA 70s aaaaaaaa	042009	60s -----e 70s CCCCCCCCCC	048009	60s -----e 70s AAAAEEAA	
039053	60s -----eA 70s aaaaaaaa	042010	60s -----e 70s CCCCCCCCCC	048010	60s -----e 70s AAAAEEAA
80s -----eA 70s aaaaaaaa	042011	60s -----e 70s CCCCCCCCCC	048011	60s -----e 70s AAAAEEAA	
039054	60s -----eA 70s AAAAAAAA	042012	60s -----e 70s CCCCCCCCCC	048012	60s -----e 70s AAAAEEAA
80s -----eA 70s AAAAAAAA	042013	60s -----e 70s CCCCCCCCCC	048013	60s -----e 70s AAAAEEAA	
039055	80s e	042014	60s -----e 70s CCCCCCCCCC	048014	60s -----e 70s AAAAEEAA
039056	80s ee	042015	60s -----e 70s CCCCCCCCCC	048015	60s -----e 70s AAAAEEAA
039057	80s ee	042016	60s -----e 70s CCCCCCCCCC	048016	60s -----e 70s AAAAEEAA
039058	80s ee	042017	60s -----e 70s CCCCCCCCCC	048017	60s -----e 70s AAAAEEAA
039068	70s e-----ee 80s AAAAa	042018	60s -----e 70s CCCCCCCCCC	048018	60s -----e 70s AAAAEEAA
80s -----ee 70s aaaaaa	042019	60s -----e 70s CCCCCCCCCC	048019	60s -----e 70s AAAAEEAA	
039069	70s -----ee 80s aaaa	042020	60s -----e 70s CCCCCCCCCC	048020	60s -----e 70s AAAAEEAA
80s -----ee 70s aaaa	042021	60s -----e 70s CCCCCCCCCC	048021	60s -----e 70s AAAAEEAA	
039071	70s -----e 80s ee	042022	60s -----e 70s CCCCCCCCCC	048022	60s -----e 70s AAAAEEAA
80s -----e 70s ee	042023	60s -----e 70s CCCCCCCCCC	048023	60s -----e 70s AAAAEEAA	
039072	70s -----e 80s ee	042024	60s -----e 70s CCCCCCCCCC	048024	60s -----e 70s AAAAEEAA
80s -----e 70s ee	042025	60s -----e 70s CCCCCCCCCC	048025	60s -----e 70s AAAAEEAA	
039073	70s -----e 80s ee	042026	60s -----e 70s CCCCCCCCCC	048026	60s -----e 70s AAAAEEAA
80s -----e 70s ee	042027	60s -----e 70s CCCCCCCCCC	048027	60s -----e 70s AAAAEEAA	
039074	70s -----e 80s ee	042028	60s -----e 70s CCCCCCCCCC	048028	60s -----e 70s AAAAEEAA
80s -----e 70s ee	042029	60s -----e 70s CCCCCCCCCC	048029	60s -----e 70s AAAAEEAA	
039075	70s -----e 80s ee	042030	60s -----e 70s CCCCCCCCCC	048030	60s -----e 70s AAAAEEAA
80s -----e 70s ee	042031	60s -----e 70s CCCCCCCCCC	048031	60s -----e 70s AAAAEEAA	
039076	70s -----e 80s ee	042032	60s -----e 70s CCCCCCCCCC	048032	60s -----e 70s AAAAEEAA
80s -----e 70s ee	042033	60s -----e 70s CCCCCCCCCC	048033	60s -----e 70s AAAAEEAA	
039077	70s -----e 80s ee	042034	60s -----e 70s CCCCCCCCCC	048034	60s -----e 70s AAAAEEAA
80s -----e 70s ee	042035	60s -----e 70s CCCCCCCCCC	048035	60s -----e 70s AAAAEEAA	
039078	70s -----e 80s ee	042036	60s -----e 70s CCCCCCCCCC	048036	60s -----e 70s AAAAEEAA
80s -----e 70s ee	042037	60s -----e 70s CCCCCCCCCC	048037	60s -----e 70s AAAAEEAA	
039081	70s -----e 80s AAAAa	043001	60s eAAAe----- 70s -----11	050001	50s -----eA 60s AAAAEEAA
80s -----e 70s AAAAa	043002	60s -----e 70s AAAAABAAA	050002	70s AAAAEEAA 80s AAC	
039085	30s -----eA 40s eee	043003	60s -----e 70s AAAAABAAA	050003	60s -----eAAA 70s BAAAEEAA
50s -----eA 60s e	043004	60s -----e 70s AAAAEEAA	050004	60s -----e 70s AAAAEEAA	
80s -----eA 80s eeee	043005	60s -----e 70s AAAAEEAA	050005	60s -----e 70s AAAAEEAA	
039086	70s -----eA 80s AAAAa	043006	60s -----e 70s AAAAEEAA	050006	60s -----e 70s AAAAEEAA
80s -----eA 80s AAAAa	043007	60s -----e 70s AAAAEEAA	050007	60s -----e 70s AAAAEEAA	
039087	70s -----eA 80s AAAAa	043008	60s -----e 70s AAAAEEAA	050008	60s -----e 70s AAAAEEAA
80s -----eA 80s AAAAa	043009	60s -----e 70s AAAAEEAA	050009	60s -----e 70s AAAAEEAA	
040001	50s -----eAAA 60s AAAAEEA	043010	60s -----e 70s AAAAEEAA	050010	60s -----e 70s AAAAEEAA
70s -----eA 80s 1111	80s 1111	043011	60s -----e 70s AAAAEEAA	050011	60s -----e 70s AAAAEEAA
040002	50s -----eAA 60s AAAAEEA	043012	60s -----e 70s AAAAEEAA	050012	60s -----e 70s AAAAEEAA
70s -----eA 80s AAAAa	043013	60s -----e 70s AAAAEEAA	050013	60s -----e 70s AAAAEEAA	
040003	50s -----eAAA 60s AAAAEEA	043014	60s -----e 70s AAAAEEAA	050014	60s -----e 70s AAAAEEAA
70s -----eA 80s AAAAa	043015	60s -----e 70s AAAAEEAA	050015	60s -----e 70s AAAAEEAA	
040004	50s -----eAAA 60s AAAAEEA	043016	60s -----e 70s AAAAEEAA	050016	60s -----e 70s AAAAEEAA
70s -----eA 80s AAAAa	043017	60s -----e 70s AAAAEEAA	050017	60s -----e 70s AAAAEEAA	
040005	50s -----eAAA 60s AAAAEEA	043018	60s -----e 70s AAAAEEAA	050018	60s -----e 70s AAAAEEAA
70s -----eA 80s AAAAa	043019	60s -----e 70s AAAAEEAA	050019	60s -----e 70s AAAAEEAA	
040006	50s -----eAAA 60s AAAAEEA	043020	60s -----e 70s AAAAEEAA	050020	60s -----e 70s AAAAEEAA
70s -----eA 80s AAAAa	043021	60s -----e 70s AAAAEEAA	050021	60s -----e 70s AAAAEEAA	
040007	60s -----eAAA 70s AAAAEEA	043022	60s -----e 70s AAAAEEAA	050022	60s -----e 70s AAAAEEAA
80s -----eA 80s AAAAa	043023	60s -----e 70s AAAAEEAA	050023	60s -----e 70s AAAAEEAA	
040008	60s -----eAAA 70s AAAAEEA	043024	60s -----e 70s AAAAEEAA	050024	60s -----e 70s AAAAEEAA
80s -----eA 80s AAAAa	043025	60s -----e 70s AAAAEEAA	050025	60s -----e 70s AAAAEEAA	
040009	60s -----eAAA 70s AAAAEEA	043026	60s -----e 70s AAAAEEAA	050026	60s -----e 70s AAAAEEAA
80s -----eA 80s AAAAa	043027	60s -----e 70s AAAAEEAA	050027	60s -----e 70s AAAAEEAA	
040010	60s -----eAAA 70s AAAAEEA	043028	60s -----e 70s AAAAEEAA	050028	60s -----e 70s AAAAEEAA
80s -----eA 80s AAAAa	043029	60s -----e 70s AAAAEEAA	050029	60s -----e 70s AAAAEEAA	
040011	60s -----eAAA 70s AAAAEEA	043030	60s -----e 70s AAAAEEAA	050030	60s -----e 70s AAAAEEAA
80s -----eA 80s AAAAa	043031	60s -----e 70s AAAAEEAA	050031	60s -----e 70s AAAAEEAA	
040012	60s -----eAAA 70s AAAAEEA	043032	60s -----e 70s AAAAEEAA	050032	60s -----e 70s AAAAEEAA
80s -----eA 80s AAAAa	043033	60s -----e 70s AAAAEEAA	050033	60s -----e 70s AAAAEEAA	
040013	60s -----eAAA 70s AAAAEEA	043034	60s -----e 70s AAAAEEAA	050034	60s -----e 70s AAAAEEAA
80s -----eA 80s AAAAa	043035	60s -----e 70s AAAAEEAA	050035	60s -----e 70s AAAAEEAA	
040014	70s -----eA 80s dDFe	044002	60s -----eAAA 70s AAAAEEAA	052011	60s -----e 70s AAAAEEAA
80s -----eA 80s EEEA	044003	60s -----eAAA 70s AAAAEEAA	052012	60s -----e 70s AAAAEEAA	
040015	70s -----eA 80s FDEe	044004	60s -----eAAA 70s AAAAEEAA	052013	60s -----e 70s AAAAEEAA
80s -----eA 80s FEEe	044005	60s -----eAAA 70s AAAAEEAA	052014	60s -----e 70s AAAAEEAA	
040016	70s -----eA 80s GEEe	044006	60s -----eAAA 70s AAAAEEAA	052015	60s -----e 70s AAAAEEAA
80s -----eA 80s GEEe	044007	60s -----eAAA 70s AAAAEEAA	052016	60s -----e 70s AAAAEEAA	
040017	70s -----eA 80s REAEEBDE	044008	60s -----eAAA 70s AAAAEEAA	052017	60s -----e 70s AAAAEEAA
80s -----eA 80s REAEEBDE	044009	60s -----eAAA 70s AAAAEEAA	052020	60s -----e 70s AAAAEEAA	
040018	60s -----eA 70s ABAAAAAAAB	044009	60s -----eAAA 70s AAAAEEAA	053001	50s -----eAAA 60s AAAAEE
80s -----eA 80s CFFae	044010	60s -----eAAA 70s AAAAEEAA	053002	50s -----eAAA 60s AAAAEE	
040021	70s -----eA 80s DDEe	044011	60s -----eAAA 70s AAAAEEAA	053003	50s -----eAAA 60s AAAAEE
80s -----eA 80s DDEe	044012	60s -----eAAA 70s AAAAEEAA	053004	50s -----eAAA 60s AAAAEE	
040022	70s -----eA 80s DDEe	044013	60s -----eAAA 70s AAAAEEAA	053005	50s -----eAAA 60s AAAAEE
80s -----eA 80s DDEe	044014	60s -----eAAA 70s AAAAEEAA	053006	50s -----eAAA 60s AAAAEE	
040023	70s -----eA 80s EDED#	044015	60s -----eAAA 70s AAAAEEAA	053007	50s -----eAAA 60s AAAAEE
80s -----eA 80s EDED#	044016	60s -----eAAA 70s AAAAEEAA	053008	50s -----eAAA 60s AAAAEE	
040024	70s -----eA 80s EF11	044017	60s -----eAAA 70s AAAAEEAA	053009	50s -----eAAA 60s AAAAEE
80s -----eA 80s EF11	044018	60s -----eAAA 70s AAAAEEAA	053010	50s -----eAAA 60s AAAAEE	
041001	50s -----eAAA 60s AAAAa	045003	60s -----eAAA 70s AAAAEEAA	053011	50s -----eAAA 60s AAAAEE
70s -----eAAA 80s AAAAc	045004	60s -----eAAA 70s AAAAEEAA	053012	50s -----eAAA 60s AAAAEE	
041002	50s -----eAAA 60s AAAAa	045005	60s -----eAAA 70s AAAAEEAA	053013	50s -----eAAA 60s AAAAEE
70s -----eAAA 80s ADAD#	045006	60s -----eAAA 70s AAAAEEAA	053014	50s -----eAAA 60s AAAAEE	
041003	50s -----eAAA 60s AAAAa	045007	60s -----eAAA 70s AAAAEEAA	053015	50s -----eAAA 60s AAAAEE
70s -----eAAA 80s DAAAc	045008	60s -----eAAA 70s AAAAEEAA	053016	50s -----eAAA 60s AAAAEE	
041004	50s -----eAAA 60s AAAAa	045009	60s -----eAAA 70s AAAAEEAA	053017	50s -----eAAA 60s AAAAEE
70s -----eAAA 80s FFC1	045010	60s -----eAAA 70s AAAAEEAA	053018	50s -----eAAA 60s AAAAEE	
041005	60s -----eAAA 70s AAAAa	045011	60s -----eAAA 70s AAAAEEAA	053019	60s -----eAAA 60s AAAAEE
80s -----eAAA 80s AAAAc	045012	60s -----eAAA 70s AAAAEEAA	053020	60s -----eAAA 60s AAAAEE	
041006	60s -----eAAA 70s AAAAa	046001	60s -----eAAA 70s AAAAEEAA	053021	60s -----eAAA 60s AAAAEE
80s -----eAAA 80s AAAAc	046002	60s -----eAAA 70s AAAAEEAA	053022	60s -----eAAA 60s AAAAEE	
041009	50s -----eA 60s CCCCCCCCCC	046003	60s -----eAAA 70s AAAAEEAA	053023	60s -----eAAA 60s AAAAEE
70s -----eA 80s DDDae	046004	60s -----eAAA 70s AAAAEEAA	053024	60s -----eAAA 60s AAAAEE	
041010	60s -----eA 70s ABEDDDDOA	046005	60s -----eAAA 70s AAAAEEAA	053025	60s -----eAAA 60s AAAAEE
80s -----eA 80s DDDae	046006	60s -----eAAA 70s AAAAEEAA	053026	60s -----eAAA 60s AAAAEE	
041011	60s -----eA 70s EEEA	046007	60s -----eAAA 70s AAAAEEAA	053027	60s -----eAAA 60s AAAAEE
80s -----eA 80s DDAEe	046008	60s -----eAAA 70s AAAAEEAA	053028	60s -----eAAA 60s AAAAEE	
041012	60s -----eA 70s EEEA	046009	60s -----eAAA 70s AAAAEEAA	053029	60s -----eAAA 60s AAAAEE
80s -----eA 80s DDAEe	046010	60s -----eAAA 70s AAAAEEAA	053030	60s -----eAAA 60s AAAAEE	
041013	50s -----eAAA 60s AAAAa	046011	60s -----eAAA 70s AAAAEEAA	053031	60s -----eAAA 60s AAAAEE

Stn number	Geuged daily flows, monthly peaks and rainfall	Stn number	Geuged daily flows, monthly peaks and rainfall	Stn number	Geuged daily flows, monthly peaks and rainfall
053023	70s -----eae 80s AAAAaAe	055005	30s -----eBA 40s AAAAAAAA	059002	60s -----tE 70s AAEFEAAAAA
053024	70s -----aa 80s aAAAaAe	055006	50s AAAAAAAA 60s AAFAA	059002	60s -----tE 70s AEAC!
053025	80s aAAAaAe	055006	70s -----tE 10s cccccccc	060001	50s -----AA 70s AAAAAAAA
053026	70s -----aa 80s eAAAaAe	055006	70s cccccccc 30s ccccbAAA	060001	70s AAAAAAAA 80s AE
053028	80s -----aa 80s eAAAaAe	055006	40s AAAAAAAA 50s AAAAAAAA	060002	60s -----AAAE 70s FAAAAAAE
054001	20s -FCCCCCCCCC 30s CCCCCCCCCC	055006	60s AAAAAAAA 70s AAAAAABCC	060002	60s -----AAAE 70s FAAAAAAE
40s CCCCCCCCC 50s CCCCCCCCC	70s CCAAAABCAA	055007	80s cCCfc 30s AAAAaA	060003	60s -----EAAA 70s EEEAAA
60s CCCCCCCCCC	70s CCAAAABCAA	055007	40s -----eAA 40s AAAAAAAA	060003	80s AAC! 70s EEEAAA
80s AAAAF		055007	50s AAAAAAAA 60s AAAEAAA	060004	60s -----tE 70s EEEAAA
054002	30s -tbaA 40s AAAAAAAABC	055008	70s AAAAaAAA 80s AEC!	060004	80s AA! 70s EEEAAA
50s CCCBAAA 60s AAAAAAAA	70s BCBABABACC	055008	50s AAAAaAAA 60s AAAEAAA	060005	60s -----AA 70s FAAAAAA
70s BCBABABACC	80s CAAF	055008	70s AAAAaAAA 80s AAFA	060005	80s AAC! 70s FAAAAAA
054003	20s ccccccc 30s cccccccBA	055009	40s -----eAA 50s AAAAAAAA	060006	60s -----AA 70s EEEAAA
40s BAAAAAAA 50s AAAAAABA	70s BCCCCCCCCC	055010	60s -----eAA 70s AAAEAAA	060007	80s AAC! 70s FAAAAAA
60s ABBBBAAA	70s BCCCCCCCCC	055010	50s -----eAA 70s AAAAaAAA	060007	60s -----AA 70s FAAAAAA
80s CCC! 70s BCBAA		055010	70s AAAAaAAA 80s FFFF	060007	80s AAC! 70s FAAAAAA
054004	50s -ICBAAA 60s AAAAAAAA	055011	50s -----e 60s AAAAAAAA	060009	70s -----tE 80s tttt
70s BEEEAACF 80s C!t		055011	70s AAAAaAAA 80s ABF!	060010	70s -----aa 80s edcc
054005	50s -ICBAAA 60s AAAAAAAA	055012	60s -----eAA 70s AAAAaAFA	060012	70s -----EE 80s EE
70s ABBAABBC	80s C!t	055012	80s AAC! 70s EEEAAA	060013	70s -----EE 80s t
054006	50s ---IBAAA 60s AAAAAAAA	055013	60s -----eAA 70s AAAAaAAA	060007	60s -----AA 70s FAAAAAA
70s BCBAAABBC	80s C!t	055013	80s ABC! 70s AAAAaAAA	061001	60s -----AAAE 70s EAAE
054007	50s -----eAA 60s AAAAAAAA	055014	60s -----eAA 70s AAAAaAAA	061001	60s -----AAAE 70s EAAE
70s BCEEBEBCA 80s C!t		055014	80s AAC! 70s AAAAaAAA	061002	60s -----AAABBA 70s EAEAAA
054008	50s ---AAA 60s AAAAAAAAB	055015	60s -----eAA 70s AAAAaAAE	061003	80s AEFFc 70s aaaa
70s BBAAABACC	80s C!t	055015	80s ECFT 70s EFAAAA	061003	60s -----AA 70s aaaa
054010	50s -----e 60s AAAAAAAA	055016	60s -----eA 70s EFAAAA	061004	80s AAC! 70s EEEAAA
70s eABBAAFF	80s C!t	055016	80s ABF! 70s EEEAAA	061004	70s -----aa 80s edcc
054011	60s -eAAAAAAAB 70s CCBABBBBBC	055017	60s -----eA 70s BAAEAAA	062001	50s -----E 60s AAAAAAAA
80s C!t		055017	80s AE 70s BAAEAAA	062002	70s -----AA 80s AAAFC
054012	60s eAAAAAAAB 70s AABAABACC	055018	60s -----eA 70s AAAAaAAA	062002	70s -----AAAE 80s FE
80s C!t		055018	80s AF! 70s AAAAaAAA	063001	50s -----AA 70s AAAAAAAA
054013	50s ----- 60s AAAAAAAA	055019	70s -----EE 70s AAAAaAAA	063001	80s AAC! 70s AAAAAAAA
70s AABBBBACF	80s C!t	055019	70s -----EE 70s AAAAaAAA	063002	60s -----ea 70s AAAAAAAE
054014	60s -IBAAAAB 70s BAAAABAA	055021	60s -----tE 70s AAAAaAAA	063002	80s ABC! 70s AAAAAAAE
80s C!t		055021	80s ABF! 70s AAAAaAAA	063003	70s -----aa 80s AEAE
054015	60s -----E 70s FFFFFEACC	055022	60s -----tE 70s AAAABAAA	063003	70s -----AAAE 80s t
80s C!t		055022	80s FFFF 70s AAAABAAA	064001	60s -----EAAA 70s AE1EE
054016	60s eAAAAAAA 70s RAAAAABACC	055023	60s -----tEE 70s AAAAaAAA	064001	80s AAC! 70s AE1EE
80s C!t		055023	80s AACF! 70s AAAAaAAA	064002	60s -----tAEFA 70s EEEAAA
054017	60s -eAAAAAA 70s RBAAACCCC	055025	60s -----tEE 70s eAAAAAAA	064002	80s AAC! 70s EEEAAA
80s C!t		055025	80s AECE! 70s eAAAAAAA	064003	60s -----EED 70s EEEAAA
054018	60s -eAAAAAA 70s AAAAAAAFC	055026	60s -----tEE 70s AAAAaAAA	064003	70s -----EAD 80s AACc
80s C!t		055026	80s AAA! 70s AAAAaAAA	064006	60s -----EAD 70s AACc
054019	60s -eAAAAAA 70s AAAAAABACC	055027	70s -----AAAL 80s ttt	064006	70s -----EAD 80s AACc
80s C!t		055027	80s AEFT! 70s EEEAAA	065001	60s -eAABAEEAE 70s EEEAAA
054020	60s -eAAAAA 70s AAAAAABACC	055029	70s -----AA 80s EFF! 70s -----EED	065001	60s -eAABAEEAE 70s EEEAAA
80s C!t		055029	80s EFF! 70s -----EED	065002	60s -----EAD 70s EEEAAA
054021	70s -----tE 80s tttt	055030	20s -----tccc 30s cccccccc	065002	60s -----EAD 70s EEEAAA
054022	50s -eAEAAE 60s -----EB	055031	70s -----tE 80s ABC!	065004	70s -----EAD 80s AACc
70s AFAAAADAEAA	80s AFaa	055032	80s cf! 70s -----edaaaa	065005	70s -----EAD 80s ABAC
054023	60s -----ea 70s BBAE! 80CC	055033	60s ----- 70s -----edaaaa	065006	70s -----EAD 80s AACc
80s C!t		055033	80s ee 70s -----edaaaa	065007	70s -----EAD 80s AACc
054024	60s -----E 70s AAAAAABACC	055034	70s -----eeedaa 80s eeaa	066001	50s -----EAD 60s AAAAAAAA
80s C!t		055034	80s eeaa 70s AAAAaAAA	066001	70s -----EAD 60s AACCF
054025	60s -----E 70s ABAAABACC	055035	70s -----eadaaa 80s eeaa	066001	70s -----EAD 60s AACCF
80s C!t		055035	80s eeaa 70s AAAAaAAA	066001	70s -----EAD 60s AACCF
054026	60s -----E 70s FFAAEBCCC	056001	50s -----tAA 60s AAAAAAAA	066002	60s -----EAD 70s BAAAE
80s C!t		056001	70s -----tAA 60s AACF! 70s -----EAD	066003	60s -----EAD 70s BAAAE
054027	60s -----e 70s eAAAAABBBC	056002	50s -----tAA 60s AAAAAAAA	066004	70s -----EAD 80s AACc
80s C!t		056002	70s -----tAA 60s AACF! 70s -----EAD	066005	70s -----EAD 80s AACc
054028	60s -----t 70s FEEAAACCCC	056003	60s -----tAA 70s AAAAaAAA	066006	70s -----EAD 80s AACc
80s C!t		056003	80s AAC! 70s AAAAaAAA	066006	70s -----EAD 80s AACc
054029	70s FBRAAACCCC	056004	60s -----eAAA 70s AAAAaAAA	066008	70s -----EAD 80s AACc
80s C!t		056004	80s AAC! 70s AAAAaAAA	066008	70s -----EAD 80s AACc
054032	70s FBBAABBC	056005	60s -----tAA 70s AAAAaAAA	066009	70s -----EAD 80s AACc
80s C!t		056005	80s AAC! 70s AAAAaAAA	066009	70s -----EAD 80s AACc
054033	70s -----t 80s tttt	056006	60s -----tAA 70s AAAAaAAA	067001	50s -----eAA 60s AAAAAAAA
054034	70s -EAAAACAC 80s C!t	056006	60s -----tAA 70s AAAAaAAA	067001	70s -----eAA 60s AAAAAAAA
054036	70s -FAAAACCC	056007	60s -----tAA 70s AAAAaAAA	067002	30s -----AA 40s AAAAAAAA
054038	70s -tEABAACB 80s C!t	056007	60s -----tAA 70s AAAAaAAA	067002	30s -----AA 40s AAAAAAAA
054040	70s -tEAAAAC 80s C!t	056008	60s -----tAA 70s AAAAaAAA	067003	50s -----AA 60s AAAAAAAA
054041	70s -tEABAACB 80s C!t	056008	70s -----tAA 80s AAC!	067003	70s -----AA 60s AACc
054042	70s TEAAA! 80s tttt	056010	60s -----e 70s -----edaaaa	067003	20s -----eAAA 30s AAAAAAAA
054043	50s -----tccc 60s cccccccc	056011	80s ee 70s AAAAaAAA	067003	40s -----eAAA 50s AAAAAAAA
70s tttt		056011	80s ee 70s AAAAaAAA	067003	60s -----EAD 70s AACABC
054044	70s -tEAAAABC 80s C!t	056012	70s -----tAA 80s AAC!	067004	80s AAC! 40s -----
054045	70s -----tAA 60s eAAA	056013	70s -----tAA 80s AAC!	067004	30s -----EAD 40s -----
054046	70s -----eccc 80s C!t	056014	70s -----tAA 80s ee	067004	50s -----EAD 60s -----
054047	70s -----ba 80s C!t	056015	70s -----tAA 80s AAC!	067005	70s -----EAD 80s BEAT
054048	70s -----eccc 80s C!t	056016	70s -----tAA 80s ee	067005	50s -----tEAAA 60s AAAAAAAA
054053	70s -tEAAA 80s C!t	056017	70s -----tAA 80s ee	067006	70s -----tEAAA 80s tttt
054054	70s -tEAAA 80s ---t	056018	70s -----tAA 80s ee	067006	60s -----tEAAA 70s EEEAAA
054055	70s -----eae			067006	60s -----tEAAA 70s EEEAAA
054056	70s -FFFF 70s tttt	057001	30s -----eeER 40s -----e	067007	60s -----tEAAA 70s EEEAAA
054057	70s -ccccbbcc 80s c	057001	50s -----eAABAA 60s AAAAaAAA	067008	60s -----tEAAA 70s EEEAAA
054058	70s -----eabbm	057002	70s -----tAA 80s tttt	067008	80s AAC! 70s EEEAAA
064059	70s -eabbbE! 70s	057002	50s -----tAA 70s AAAAaAAA	067009	60s -----EAD 70s RRBEBEBAB
054060	70s -----eabba	057003	50s -----tAA 70s AAAAaAAA	067009	60s -----EAD 70s RRBEBEBAB
054061	70s -----eabba	057003	70s -----tAA 80s AAC!	067010	60s -----EAD 70s RRBEBEBAB
054065	70s -----EABBF! 70s	057003	60s -----tAA 70s AAAAaAAA	067010	60s -----EAD 70s RRBEBEBAB
054067	70s -----bbba	057004	60s -----tAA 70s AAAAaAAA	067012	60s -----EAD 70s RRBEBEBAB
054068	70s -----e-e 70s	057004	70s -----tAA 80s AAC!	067013	60s -----EAD 70s RRBEBEBAB
054069	70s -----eabb 70s	057004	60s -----tAA 70s AAAAaAAA	067015	70s -----EAD 80s AACC
054080	70s -----tcc 80s tttt	057005	70s -----tAA 80s AAC!	067016	60s -----EAD 70s RRBEBEBAB
054081	70s -----cc 80s C!t	057006	70s -----tAA 80s E!!!	067016	80s AAC! 70s RRBEBEBAB
054083	70s -----tc 80s c	057007	70s -----tAA 80s AAC!	067017	60s -----EAD 70s RRBEBEBAB
054084	70s -----t 80s c	057008	70s -----tAA 80s AAC!	067018	80s AAC! 70s RRBEBEBAB
054085	70s -----t 80s c	057009	70s -----tAA 80s AAC!	067018	60s -----EAD 70s RRBEBEBAB
054086	70s -----t 80s c	057010	70s -----tAA 80s AAC!	067018	80s AAC! 70s RRBEBEBAB
054087	80s c	057011	70s -----tAA 80s e	067023	70s -----tAA 80s tttt
054088	70s -----ea 80s eaaaa	057012	70s -----tAA 80s e	067025	70s -----tAA 80s AAC!
054090	70s edaaaa	057014	70s -----tAA 80s e	067028	70s -----tAA 80s ee
054091	70s -----adaa 80s eaaaa	057015	70s -----tAA 80s e	067029	70s -----tAA 80s ed!!
054092	70s -----edaaaa 80s eaaaa	057016	70s -----tAA 80s e	067029	70s -----tAA 80s ed!!
054111	70s -----ccc 80s c	058001	60s -----tAA 70s AAAAaAAA	068001	30s -----PAA 40s AACBAAAA
056001	30s -IBAA 40s AABAAAAA	058001	80s AAC!	068001	50s -----AA 60s AACAAAEAE
50s AAAAAAAA 60s AAAAAAAA	058002	70s -----tAA 80s EBAAc	068002	40s -----tAA 50s AACAAAEAE	
70s Ae-----t 70s	058003	60s -----tAA 70s tttt	068003	70s -----tAA 70s AACAAAEAE	
056002	30s -----eabba 40s AAAAAAAA	058005	70s -----tAA 80s AAC!	068003	60s -----tAA 70s AACAAAEAE
50s AAAAAAAA 60s AAAAAAAA	058006	70s -----tAA 80s AAC!	068003	80s AAC! 70s AACAAAEAE	
70s AAAAaAAA 80s ABF!	058007	70s -----tAA 80s AAC!	068003	60s -----tAA 70s AACAAAEAE	
056003	30s -----t 40s AAAAAAAA	058008	70s -----tAA 80s AAC!	068004	80s AAC! 70s AACAAAEAE
50s AAAAAAAA 60s AAAAAAAA	058009	70s -----tAA 80s AAC!	068004	50s -----tAA 70s AACAAAEAE	
70s AAAAaAAA 80s AE!	058010	70s -----tAA 80s AAC!	068005	70s -----tAA 80s AACAAAEAE	
056004	30s -----t 40s AAAAAAAA	058011	70s -----tAA 80s AAC!	068006	50s -----tAA 70s AACAAAEAE
50s AAAAAAAA 60s AAAAAAAA	059001	50s -----tAA 70s AAAAaAAA	068006	60s -----tAA 70s AACAAAEAE	
70s AAAAaAAA 80s EEF!	059001	70s -----tAA 80s AAC!	068006	70s -----tAA 70s AACAAAEAE	

SUMMARY OF ARCHIVED DATA - 1

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Stn. number	Gauged daily flows, monthly peaks and rainfall	Stn. number	Gauged daily flows, monthly peaks and rainfall	Stn. number	Gauged daily flows, monthly peaks and rainfall
068007	60s --eAAAAAAA 70s AAAAAEAAA	074003	70s ---eAAAAAA 80s AAAAa	084004	50s -----eAA 60s AAAAAAAAAA
80s AAFFe	70s -----f 80s f	074005	70s --eAAAAAA 80s AAAA	084005	50s -----eAA 60s AAAAae
068010	70s -----f 80s f	074006	60s ----fcfc 70s ccf-BBAAA	084005	50s -----eAA 60s AAAAae
068011	70s -----f 80s f	074007	80s AAAEa 70s - f	084006	60s -----eAA 70s AAAAae
068012	70s -----f	074008	70s - ea- 80s -ea-	084006	60s -----eAA 70s AAAAae
068013	80s fffff	075001	30s - fffffeAEf 40s fffffeAAAA	084007	60s -----eAA 70s AAAAAbba
068014	80s -aa	075001	50s AAAAaAAA 60s AAAAaAAA	084008	60s -----eAA 70s AAAAAbba
068015	50s AAAAaAAA	075002	70s fffffeAAA 80s AAAAa	084008	60s -----eAA 70s AAAAAbba
068016	70s AAABABAAA	075003	60s fffffeAAA 70s AAAAaAAA	084009	60s -----eAA 70s AAAAAbba
068017	70s -----e	075004	60s -----eA 70s BBABAACAAA	084011	60s -----eAA 70s AAAAAbba
068018	60s AAAAaAAA	075004	80s AAAAa	084012	60s -----eAA 70s AAAAAbba
068019	80s fffff	075005	70s - AAAACAAA 80s AAAEa	084013	60s -----eAA 70s AAAAAbba
068020	80s -aa	075005	80s abaf	084014	60s -----eAA 70s AAAAAbba
068021	30s -----e	075006	60s -----eA 70s AAAAaAAA	084015	60s -----eAA 70s AAAAAbba
068022	50s AAAAaAAA	075006	80s a	084016	60s -----eEDA 70s AAAAABBAaa
068023	70s AAAAaAAA	075007	60s -----e 70s AAAAaAAA	084017	60s -----eAA 70s AAAAAbba
068024	60s AAAAaAAA	075007	80s ABAA	084018	60s -----eAA 70s AAAAAbba
068025	80s fffff	075010	70s - eAAAAAf 80s AAAAa	084019	60s -----eAA 70s AAAAAbba
068026	60s -----e	075016	70s -----AAA 80s Affff	084020	60s -----e 70s ADAAAADaa
068027	70s AAAAa	076001	50s fffffeAA 60s AAAAaAAA	084021	60s -----eAA 70s AAAAAbba
068028	80s fffff	076002	70s e----eFA 80s AAFFe	084022	60s -----eAA 70s AAAAAbba
068029	80s fffff	076003	60s - fffffeBA 70s ABABBCAAE	084023	60s -----eAA 70s AAAAAbba
068030	60s -----e	076003	80s AEAA	084024	70s -----eAA 80s AAAAae
068031	70s -----e	076004	60s - eAAAAAA 70s AAAAaAAA	084025	70s - fffffe 80s AAAAae
068032	70s -----e	076004	80s Affff	084026	60s -----e 70s AAAAae
068033	50s -eaAaee	076005	60s - eAAAADAA 70s AEAEAAfAA	084027	70s -----e 70s eeeAAEa
068034	70s -----e	076005	80s fffff	084027	70s -----e 70s eeeAAEa
068035	70s -----eaa	076006	60s -----e 70s AAAAaAAA	085001	60s -----eAA 70s AAAAAbba
068036	70s -----eaa	076010	70s EAAAAAEf 80s fffff	085002	60s -----eAA 70s AAAAAbba
068037	40s -----e	076011	60s -----ccc 70s cccccc	085002	60s -----eAA 70s AAAAAbba
068038	60s -----e	076008	80s fffff	085003	60s -----eAA 70s AAAAAbba
068039	50s -eaAaee	076009	60s -----et 70s EAAAFAf	085003	60s -----eAA 70s AAAAAbba
068040	70s -----eaa	076009	80s fffff	085004	60s -----eAA 70s AAAAAbba
070001	50s -eAAAAAABA	076014	70s -EAAAFAf 80s AAAAaAAA	086001	60s -----eAA 70s AAAAAbba
070002	70s FBAEf fffff	076015	70s EAABAAABAA	086002	60s -----eAA 70s AAAAAbba
070003	80s 1BC?	077001	60s --eAAAAE 70s fffffeAAAA	086003	60s -----eAA 70s AAAAAbba
070004	70s -----e	077002	80s -----ccc 70s ABCBCAAAAA	086004	60s -----eAA 70s AAAAAbba
070005	70s -----e	077003	80s AABC	086005	60s -----eAA 70s AAAAAbba
071001	60s fcccbAAAAA	077004	70s fffffeAA 80s AABC	090003	80s -----eAA 80s eAAAa
071002	80s AAAf	077005	70s -----e 80s aarc	091002	80s eAAAa
071003	30s -----e	078001	50s -----eA 60s Ae	091002	80s eAAAa
071004	50s -----e	078001	60s - eAc 70s fffff	092003	80s eAAAa
071005	70s AAAAf fffff	078002	60s - eAc 70s fffff	092003	80s eAAAa
071006	70s -----eAA	078003	60s - ffffff 70s AAAAaAAA	093001	70s -----e 80s eAAAa
071007	70s AAAAf fffff	078004	60s - fffffe 70s ABAA	094001	60s - ffffff 70s EAAAAAa
071008	70s -----eAA	078004	80s AAC	095001	70s -----e 80s eAAAa
071009	70s -----eAA	078005	70s -----e 80s ABCf	095001	70s -----e 80s eAAAa
071010	70s -----eAA	079001	60s - fffffBBF 70s fffff	096001	70s -----e 80s eAAAa
071011	70s -----eAA	079002	60s - fffff 70s AAAAaAAA	096002	70s -----e 80s eAAAa
071012	70s -----eAA	079003	60s - fffff 70s AAAAaAAA	097001	80s fffff
071013	70s -----eAA	079004	60s - fffff 70s ABABAA	097002	60s - fffff 70s AAAAaAAA
072001	50s -----c	079004	60s - fffff 70s ABABAA	097002	60s - fffff 70s AAAAaAAA
072002	70s CAAAAABf	079005	60s - fffff 70s BAABAA	101001	60s - fffff 70s fffff
072003	60s -----e	079005	60s - fffff 70s BAABAA	101002	60s - fffff 70s eeebeaEEE
072004	80s AAAAa	079006	60s - fffff 70s BAABAA	101002	60s - fffff 70s eeebeaEEE
072005	70s CCCCCCBf	079006	60s - fffff 70s BAABAA	101002	60s - fffff 70s eeebeaEEE
072006	70s -----eAA	080001	60s - fffff 70s AAAAaAAA	201002	80s - fffff
072007	70s -----eAA	080001	80s AAC	201005	70s - fffff 80s CCADf
072008	60s -----E	080002	70s -----eAA 80s ABCf	201006	70s -----e 80s CAAf
072009	80s AAAAa	080002	70s -----eAA 80s ABCf	201007	70s - fffff 80s CAAf
072010	70s -----eAA	081001	60s -----BB 80s fffff	201008	80s fffff
072011	70s -----eAA	081002	60s - fffff 70s AAAAaAAA	203010	60s - fffff 70s FCCCCCCCCC
073001	70s -----t	081003	60s - fffff 70s AAAAaAAA	203011	80s CAAf
073002	60s -----eAAADA	081004	70s -- eaa 80s ABCf	203012	80s -----t
073003	80s AAAA	081004	70s -- eaa 80s ABCf	203017	70s eeebeaCCC 80s c-f
073004	80s AAAA	082001	60s fffff 70s AAAAaAAA	203020	80s -----t
073005	80s AAAA	082001	60s fffff 70s AAAAaAAA	203021	70s -----e 80s c-f
073006	80s AAAA	082002	70s - fffff 80s AAAAaAAA	203025	80s fffff
073007	80s fffff	082002	70s - fffff 80s AAAAaAAA	203027	70s - fffff 80s CAAf
073008	60s fffff	082003	70s - fffff 80s AAAAaAAA	203028	70s - fffff 80s CAAf
073009	80s fffff	083002	60s - fffff 70s AAAAaAAA	203033	80s abf
073010	30s -----c	083003	60s - fffff 70s AAAAaAAA	204001	80s ---f
073011	50s cccccc	083003	60s - fffff 70s AAAAaAAA	205003	70s - fffff 80s CAAf
073012	60s cccccc	083004	60s - fffff 70s AAAAaAAA	205004	70s - fffff 80s CAAf
073013	70s CRBRCCAAA	083004	60s - fffff 70s AAAAaAAA	205005	70s - fffff 80s CAAf
073014	70s -----A	083005	70s - fffff 80s AAAAaAAA	205008	80s ---f
073015	70s -----f	084001	40s -----eE 50s EEEBBBBBFB		
074001	60s FC	084002	60s -----eE 60s AAFFEAEFFC		
074002	80s AAAA	084003	50s -----eBD 60s AAAAaAAA		
074003	80s AAAA	084003	70s AAAAaAAA 80s AAAAaAAA		

Produced 29th August 1985 New summaries available on request

Summary of Archived Data - 2

Naturalised daily and monthly flows

KEY:

Complete daily and complete monthly A
 Partial daily and complete monthly B
 Partial daily and partial monthly C
 Partial daily and no monthly D
 No daily and complete monthly E
 No daily and partial monthly F
 No naturalised flow data -

Summary is presented
in decade blocks

Stn number	Naturalised daily and monthly flows	Stn number	Naturalised daily and monthly flows	Stn number	Naturalised daily and monthly flows
006007	70s ---EEEEEET	025002	70s FFFF	033005	50s -FFFFFFF
		025004	50s -----FEE	033006	70s AC
007003	60s FFFFFE 70s EEEEEEEEEE	025008	70s C	033006	60s -----FEE
80s F		026008	60s -----CAAB	033007	50s ---FEEEEE
		026002	60s -----FEEEF	033007	60s EF
008001	30s -----FE	026002	70s FFFF	033011	60s -FEEF
50s EEEEEEEE	40s FFFFFFFEE	027001	30s -----FF-	033026	70s CAAAC
70s -F-E	60s FFFFFF	027001	40s -FEEEF	033035	50s -----CA
		027002	60s -----FEEEE	033035	70s AAAAAC
012002	70s --ff--	027002	60s EEEEEEEEEE	038001	30s --CAAAAAAA
80s F		027003	70s E	038001	40s AAAAAXXAA
012004	70s -----EEE	027004	60s -----FEE	038001	50s AAAAAXXAA
80s E		027004	60s -----FEEEF	038001	60s AAAAAXXAA
014001	70s -----F-E	027005	70s E	038002	60s CAAX
014002	70s -- F F	027005	60s -----FEE	038003	60s CAAX
015003	70s -----F	027006	60s EEEFEFEE	038004	60s -----CAAA
015006	60s -----FEE	027006	70s FF	038005	70s AAAAAC
80s F		027007	50s -----FE	038006	60s CAAX
015007	70s --- E	027007	60s EEEFEFEE	038006	70s AAAAAC
80s F		027009	60s -----F	038007	70s AAAAAC
015010	70s -----EEEF	027011	70s EF	038008	60s CAAX
80s F		027011	50s ---FEEEEE	038009	60s -----CC
015011	70s FFFFFF	027012	70s EEEF	038010	60s -- CA
015012	70s -----E-EE	027012	60s EEEFEFEE	038011	70s AAAAAC
80s F		027013	70s EF	038012	60s -- CA
015013	70s -----EEEEE	027013	60s EEEFEFEE	038012	70s AAAAAC
015016	70s -----EEEEE	027013	70s EF	038015	70s --CAAC
015017	70s --- F	027015	60s -----CAAC	037001	50s CAAX
		027016	50s -----FEE	037001	60s AAAAXXAA
016001	60s -----FEEEEE	027016	70s EF	037002	70s -CAAC
80s F		027017	50s -----FEE	037002	30s CAAX
016004	70s -- FFFFF	027017	60s EEEFEFEE	037002	40s ACCAAAAA
		027018	70s EFFF	037002	50s AAAAXXAA
017001	60s -----F	027018	50s -----FEE	037003	30s --CAAX
017002	60s -----F	027018	60s FFFFFFFF	037003	40s AAAAXXAA
017003	70s -- F	027019	70s EEEF	037003	50s AAAAXXAA
017004	70s ----- E	027019	50s -----FEE	037004	60s AC--CAAA
017005	70s -----E	027020	50s -----FEEF	037004	70s AAAAXXAA
		027021	70s FEFF	037005	50s --F-BFFF
018001	70s ---- E	027021	60s FFFFFFFEE	037005	60s AAAAXXAA
018002	60s ---- FFFF	027022	60s ----FEEEEE	037006	70s AAAAXXAA
018003	60s -----EEEEE	027023	60s -----FEEF	037007	60s CAAX
018005	70s -----E	027024	60s -----FEEF	037008	60s -----CAAA
018008	70s F	027025	60s -----FEEEEE	037009	60s CAAX
019001	50s -----EEE	027026	60s -----FEEF	037010	60s CAAX
70s FFFFFF		027027	60s -FEEFEEFE	037011	60s --CAAX
019002	60s -----EEEEE	027028	60s -FEEFEEFE	037012	60s --CAAX
70s FEE-FEE		027029	60s -FEEFEEF	037013	60s CAAX
019003	60s -----EEEEE	027030	60s -----FEEEEE	037014	60s --CAAX
019004	60s -----FEEFEEF	027031	60s -----FEEFE	037016	60s -----CAAA
019005	60s -----FEEFFF	027032	60s -----FFEF	037017	60s -----C
019006	60s -----EEEEE	027033	60s -----FEE	037018	60s CAAC
019007	60s -----EEEEE	027033	70s EF	037019	60s --CAAC
019008	60s -----FEEEEE	028001	30s -----FEE	037020	70s CAAC
019009	60s -----EEEEE	028001	40s -----F	037021	70s CAAC
019010	60s ----- E	028001	50s EEEEEECA	037022	70s CAAC
019011	70s --- F	028002	40s -----FEEF	037023	70s -CAAC
		028002	60s EEEEBAAA	037024	70s -CAAC
020001	60s -----EEEEE	030003	60s -----FF	038001	30s --DAAAAAA
020002	60s -----FF	030003	60s -----FEE	038001	40s AAAAXXAA
020003	60s -----FEEF	031001	40s FEEF-----	038001	50s AAAAXXAA
020004	60s -----EEE	031001	50s -- FEEFFF	038022	60s AAAAXXAA
020005	70s -----E	031002	60s EEEFBAACA	038022	70s AAAAD
020006	70s -----E	031002	70s ABFEFFFFE	039001	80s AAAA
020007	70s F	031004	70s ---FEEF	039001	90s AAAAXXAA
		031004	60s -----FF	039001	10s AAAAXXAA
021001	50s ----- F	031006	70s FEEEEE	039001	10s AAAAXXAA
60s -----F	60s -----FEEEEE	031007	60s -----FF	039001	10s AAAAXXAA
021002	50s -----F	031007	70s FEEEEE	039001	10s AAAAXXAA
021003	50s -----F	031009	70s -----FFF	039002	10s AAAAXXAA
70s EEEEEE	80s EF	031010	70s -----FEEF	039002	10s AAAAXXAA
021004	60s ----- FEEF	031011	70s -----FFF	039002	10s AAAAXXAA
021005	60s -----FEEEEE	031012	70s -----FFF	039002	10s AAAAD
80s EF		031013	/0s -----FFF	039008	10s AAAAXXAA
021006	60s -----FEEEEE	031015	70s -----FFF	039008	10s AAAAXXAA
80s F		031016	70s -----FEEF	039015	10s AAAAXXAA
021009	60s -----EEEEE	031017	70s -----FFF	039015	10s AAAAXXAA
80s F		031018	70s -----FEEF	040001	50s -----CA
021010	60s -----FEEEEE	031019	70s -----FFF	040002	50s -----CA
80s E		031020	70s -----FFF	040003	50s -----FEE
021014	60s -----EEEEE	031021	70s -----FFF	040004	50s -----FEEF
80s F		031022	70s -----FFF	040005	50s -----FEE
021018	60s --- FE	032001	40s FEEEEE	040006	50s -----FEEF
80s F		032001	50s FEEEEE	040007	60s FEEEEE
021019	60s --- FF	032002	60s FEEEEE	040008	60s FEE
80s F		032002	60s -----FF	040009	60s FEE
021021	60s -----F	032004	50s FEEF----	040010	60s -----FEE
80s F		032004	60s -----FEEF	040011	60s -----FEEF
021022	60s -----F	032003	70s FEEEEE	043003	60s -----FEEF
80s F		032003	60s -----FEEF	043005	60s -----FEEF
021025	70s -----FEEEEE	032004	40s FEEEEE	043005	60s -----FEEF
80s F		032004	60s -----FEEF	043005	60s -----FEEF
023001	50s -- FFFF	032006	60s -----F	045003	60s -----FEEF
70s CC		032007	60s -----F	045004	60s -----CA
023002	60s -----CAAA	032008	40s -----FEEF	045005	60s ---IEEFCA
70s AC		032012	70s FFFFFF	045005	70s C
023003	50s -----F	032018	70s -----FFF	046002	60s FEEEEE
70s AAC		032018	70s -----FFF	046003	60s -----CA
023007	60s -----CAAA	032019	70s -----FFF	047004	60s -----FBCEFF
70s BCAC		032020	70s -----FFF	047005	60s -----C
023008	70s --CC	032023	70s -----FFF	047005	60s -----C
		032025	70s -----FFF	047005	60s -----C
023015	40s -----FEEEEE	032025	70s -----FFF	047005	60s -----C
50s FEEFEEEEE		032026	70s -----FFF	047005	60s -----C
024001	60s ----- CA	032026	70s -----FFF	048001	60s -----FBACCC
70s AC		033001	50s -----FEEF	048002	60s -----F---C
70s AC-CC		033002	60s -----FEEBAAA	048003	60s -----CC
024003	50s -----FE	033003	50s FF-FEEF	048004	60s -----CC
70s AC-CC		033004	40s -----FEEF	048007	60s -----CC
025001	50s -- FEEE	033004	50s FEEEEE	048007	60s -----CC
70s AC-CAC					

Stn. number	Naturalised daily and monthly flows	Stn. number	Naturalised daily and monthly flows	Stn. number	Naturalised daily and monthly flows			
049003	60s -----CCC	057001	50s --FEEEEE	60s EEEEEEBC	076001	50s FEEEF	60s FEEFFEEEE	
050001	60s -----A	057002	30s -----FEE	40s EEEEEE	076002	70s F		
050002	60s --FEEBEBAA	70s C	50s FEEFFEFF	60s FEEFBAAA	076003	60s FEEEF		
		057003	70s C		076004	60s --FEEF		
051002	70s .FEEFF	057004	50s ---FEE	60s EFFFBAAC	077002	60s ---FEE	70s EF	
052002	50s -----FEE	60s EEEEBE	058001	60s ---FEE---C	70s C	078004	70s -F	
052005	60s -FFFFFEEF	70s FEEFFF	058003	60s FFFF		079002	50s -----F	60s EEEFFEEEEE
052006	60s --FEEEEE	70s EEEEEE	059001	50s FE	60s EEEFBACC	079003	50s - - -F	60s EEEFFEEEEE
052008	60s FEEEBE	70s FEEFFF	060001	50s -----FE	60s EEEEBAC	079006	60s - FEF	70s EF
052014	60s --FEE					081003	60s -----FE	70s FF
053004	50s -----FE	60s FEEFFEFF	061002	60s EEEEBCC		082001	60s --FEEEEE	70s FF
	70s FEEEEEAAA	80s A				084001	70s FFFF	
054001	70s CAAAAAAA	30s AAAAAAAA	062001	50s -----F	60s EEEEEE	084002	60s -----FE	70s EFFF
	40s AAAAAAAA	50s AAAAAAAA	064001	60s -----FF		084003	60s -----FEE	70s EEEEF
054003	70s EEEEEE	70s AAAAAAAA	066002	60s -FEEEEE-	70s FFE	084004	50s - - -FFF	60s FFFEEEEE
	40s AAAAAAAA	50s AAAAAAAA	066003	60s - FEF FE				
	60s AAAAAAAA	70s AAAAAAAA	066011	60s -----CA	70s AC			
054005	50s -----FEE	60s EEEEEEBAAC	067001	50s -FEC	60s EEEEEE	084005	50s - - -FC	60s EEEFFEEEEE
	70s -----AA		067002	70s FEEEE	60s EEEEEE	084006	70s FEEEF	
054010	60s - - -CC		067003	50s -----FE	70s FEEF	084007	60s FEEEF	
054013	60s -----CACA	70s C-----AA	067004	50s -----FEE		084008	60s -----FEE	70s FEEEF
054014	60s -----CAA	70s C----AA	067006	60s FEEEEE		084009	60s -----FFF	70s FEEFF
054017	60s -----CC		067007	60s ---FEEE		084011	60s ---FEEEE	70s EEEEF
055001	30s -----FEE	40s EEEEEE	067015	70s FEE		084012	60s - FFFFF	70s FEEFF
	50s FEEEEE	60s FEEEEE	067017	60s -----E	70s EE	084013	60s -----FEE	70s EEEEF
056002	30s -----FEE	40s EEEEEE	068001	60s -FEEEF	70s ---E	084014	60s - FEEEEE	70s EEEEF
	50s EEEEEE	60s EEEEEE	068003	40s -----F	50s EEEEEE	084015	70s FEEEF	
055008	30s FFFF	40s FEEFTEEE	068004	60s EEEEF	70s -- FF	084016	70s FEEEF	
	50s EEEEEE	60s EEEEEE	068005	60s -FEEEEE	70s -- FE	084017	60s FEE	70s EEEEF
055007	30s -----FE	40s EEEEEE	068006	60s -FEEFFF	70s ---E	084018	60s -----F	70s EEEFF
	50s EEEEEE	60s EEEEEE				084019	60s -----FE	70s EEEFF
055023	60s -- - -F	70s AAAAAAAA	069004	40s -----FEE	50s EEEEEE	084020	70s FEEEF	
	80s AAA	80s ADA	069005	60s FEEFFF		084021	70s FEF	
			070001	50s -FEEEF	60s -FEEFBAAAC	084022	70s ---FF	
056001	50s -----FEE	60s EEEEEE		70s CC		084023	70s FF	
	70s FEEEFF		071001	60s CC		084024	70s ---FF	
056002	50s FFF	60s FEEFFEEF	071002	60s ---FBAAA	70s AAAAC	084027	70s ---FF	
	70s EEEFF		072001	60s -FEEFBAAA	70s CCAC	085001	60s ---FEEEEE	70s EEEEF
056003	60s ---FEE					085002	60s - - -FEE	70s EEEEF
056004	60s FFFF	70s FEEFFF				085003	70s FEEF	
056006	60s ---FEEEEE	70s FEEEEE	075001	60s ---FFF		086001	70s FFFFF	
056011	70s FEEEEE		075002	60s -FEEFFF		086002	70s FEEEF	
056012	70s FFFFF					097002	70s FFFFF	

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GROUNDWATER LEVEL MEASUREMENT

A BRIEF HISTORY

Since Clutterbuck (1850) and Lucas (1877) showed that falls in groundwater level had taken place in the Chalk of the London Basin, local water engineers started to keep records of groundwater level in wells* constructed for supply. However, systematic measurement, first by manual measurement and later supplemented by the use of automatic continuous recorders, was started by the Geological Survey only in the 1950's. By 1963, systematic measurements of groundwater level were being made in 526 wells by local water undertakings, by private individuals and by the Geological Survey (Lovelock 1967). Eighty-one per cent of these observation wells were in the Chalk and Upper Greensand aquifer, and 6 per cent in the Permo-Triassic sandstones (these two aquifers are the most extensive and the most important in the United Kingdom).

Water resources, including groundwater resources, became a subject for national consideration under the Water Resources Act 1963. Each of the river authorities constituted by this Act was asked by the Water Resources Board to form a network of groundwater observation wells, either using existing shafts and boreholes, or constructing new wells for the purpose. By March 1974, of the 29 river authorities 20 had submitted complete or partial schemes for such networks, 6 had no significant groundwater resources and thus had no need for such networks, and only 3 had failed to put forward any scheme at all. At this time, 1393 known observation wells were in use, of which 212 were fitted with automatic groundwater level recorders. Fifty-five per cent of these sites were located in the Chalk and Upper Greensand aquifer, and 24 per cent in the Permo-Triassic sandstones.

The Water Act 1973 disbanded the existing river authorities and the Water Resources Board. Ten water authorities were created for England and Wales, together with the Water Data Unit which became responsible for maintaining a national archive of groundwater levels. By 1980, the number of operational observation wells approached 3000 (Anon 1984), of which 55 per cent were in the Chalk and Upper Greensand aquifer, and 17 per cent in the Permo-Triassic sandstones. The number of sites in other aquifers had increased markedly. The actual number of observation wells known to the Water Data Unit in 1980 in fact exceeded 4000, but many of these were either disused or measured only at very infrequent intervals.

Groundwater level observation wells are generally used for one of two purposes, either to monitor

levels regionally and thus to estimate groundwater resource fluctuations, or to monitor the effects locally of groundwater abstraction. The number of observation wells required in different areas varies widely. Over the last two decades, a target density was sought of one well to 25 to 35 km². During the last few years, it has become apparent in some districts that satisfactory information can be obtained with fewer wells, while in others the densities had to be substantially increased.

The observation well network was reviewed in 1981 by the Institute of Geological Science (now the British Geological Survey) with the aim of selecting 200 to 300 sites from the existing Water Data Unit archive, to be used for periodical assessments of the national groundwater situation. The selection was based upon hydrogeological units identified in an investigation of the groundwater resources of the United Kingdom (Monkhouse and Richards 1982); one site was chosen for each aquifer present within each unit. For Scotland and for Northern Ireland, this was not possible due to the very limited number of observation wells available. In England and Wales, the total number finally selected was 175 (Monkhouse and Murti 1981). Since that date, a number of changes have been made, and the register shown in this report lists 173 observation wells of which 50 per cent are in the Chalk and Upper Greensand aquifer and 21 per cent in the Permo-Triassic sandstones.

The Water Data Unit was officially disbanded in 1982 and the archive was taken over by the British Geological Survey. The archive comprised a series of paper files containing original data and a series of computer files; the latter have been transferred to an NERC computer. The present situation is that the computer archive holding data from the 173 selected wells is being updated and validated, this process being approximately 40 per cent completed (data for the selected wells are virtually complete to 1983 on the paper files). The remaining sites inherited from the Water Data Unit are held on a separate computer archive; the validation of this, the "historic archive", will be undertaken in the future, but the information is complete only to about 1977.

The maintenance and updating of a centralised database of groundwater levels is now limited to the 173 selected wells (apart from any variations and modifications that may become necessary). The responsibility for monitoring, and archiving data from, an adequate network of groundwater observation wells rests with the water authorities of England and Wales.

At the present time, no observation wells are monitored on a long term basis in Scotland. A few sites have been operated in Fife and around

* In this context, a well includes both shafts (constructed by hand-digging) and boreholes (constructed by machinery).

Dumfries, but the records are too short to have any great significance. There are no networks in operation in Northern Ireland but the Geological Survey measures levels in wells in the Permo-Triassic sandstones of the Lagan Valley, and sites in other areas and aquifers are being investigated.

In most observation wells, water levels are measured manually with an electrical dipper. Readings are usually taken at intervals of one week to one month, although some sites may be measured only twice yearly. The remaining sites are fitted with automatic continuous water level recorders of various types. The overall accuracy of measurement is generally between 5 and 10 mm.

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REGISTER OF SELECTED GROUNDWATER OBSERVATION WELLS

Scope

The listed sites were selected so as to give a reasonably representative cover for aquifers throughout England and Wales. The wells are grouped according to the aquifers to which the water level variations in the wells are attributed. A generalised list of aquifers is given in Table 4. While the aquifers are tabulated in stratigraphical order, most of the local names for individual strata are omitted and the intervening aquiclude are not shown.

The five columns of the register are:

Well Number

The well numbering system is based on the National Grid. Each 100 km square is designated by prefix characters, e.g. SE, and is divided into 100 squares of 10 km sides designated by numbers 00 to 99. Thus, the first site given in the register, SE93/4, is located in the 10 km square SE93, while the number after the solidus denotes that the site is the fourth accessed in this square. A suffix such as A, B, etc., defines the particular well when there are several at the same site.

Two asterisks following the Well Number indicates an index well for which hydrographs are shown on pages 155 to 160. The location of the index wells and the outcrop areas of the principal aquifers are shown in Fig. 9.

Grid Reference

The six or eight figure references given in the register relate to the 100 km National Grid square designated by the prefix characters in the Well Number. The distribution of the 100 km squares of the National Grid is shown on Fig. 10.

Site

The name by which the well or borehole is normally referenced.

The location of all the sites listed in the register are shown on Fig. 10.

Water Authority

An abbreviation referencing the water authority responsible for the groundwater level measurement. A full list of water authority codes together with the corresponding names and addresses appears on pages 166 and 167.

Records Commence

The first year for which records are held on the groundwater archive.

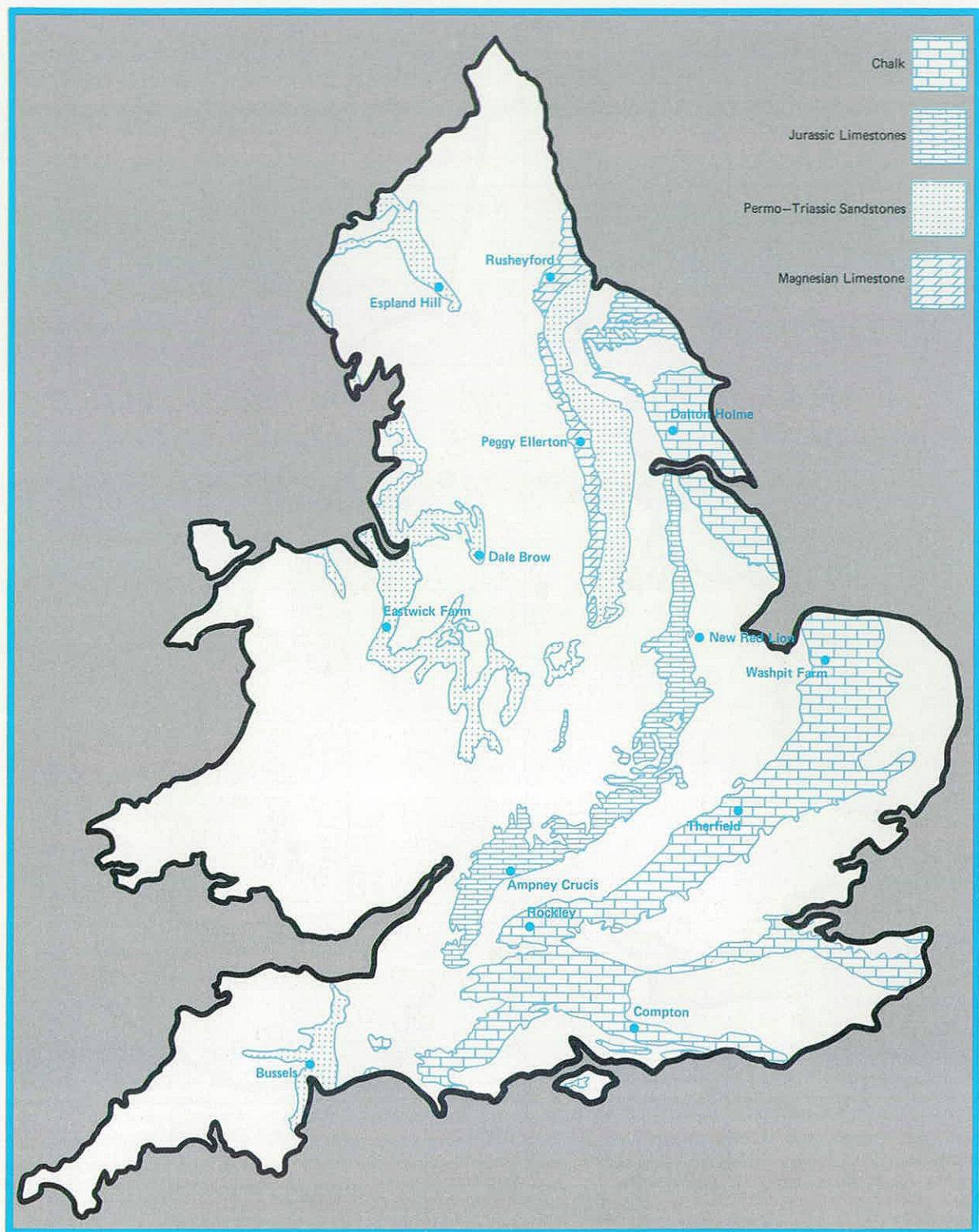


Figure 9. Principal aquifers and index borehole locations.

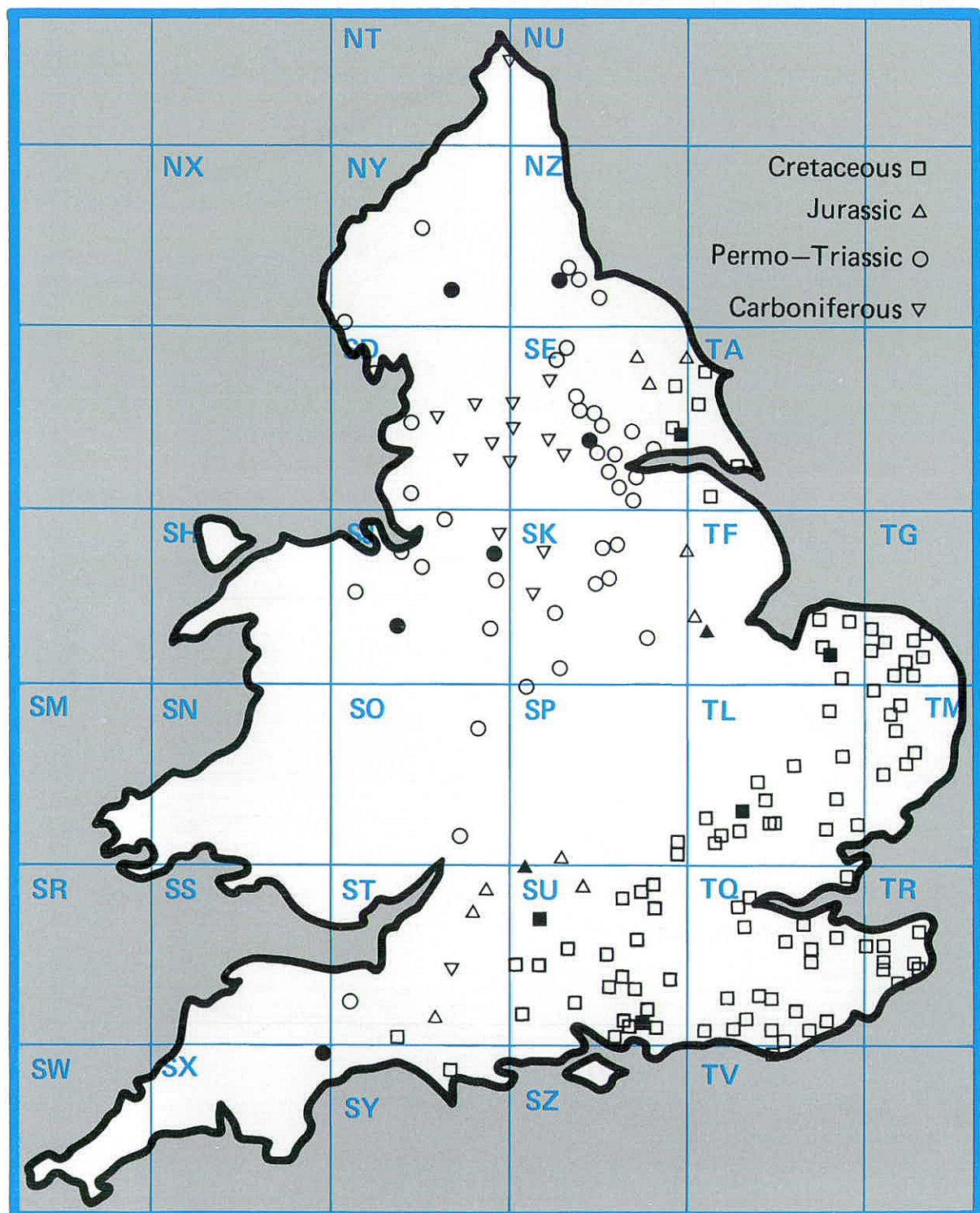


Figure 10. The representative borehole network in England and Wales.

TABLE 4. GENERALISED LIST OF AQUIFERS IN THE UNITED KINGDOM

Era	System	Subsystem	Aquifer	Importance
CAINOZOIC	Quaternary	Holocene	Superficial deposits	*
		Pleistocene	Upper and Middle Pleistocene Crag	* **
	Tertiary	Pliocene	Coralline Crag	**
		Oligocene		
		Eocene	Bagshot Beds	
			Lower London Tertiaries Blackheath & Oldhaven Beds Woolwich & Reading Beds Thanei Beds	**
		Upper Cretaceous	Chalk and Upper Greensand	****
		Lower Cretaceous	Lower Greensand	***
			Hastings Beds	**
MESOZOIC	Jurassic	Upper Jurassic	Portland & Purbeck Beds (Spilsby Sandstone)	*
			Corallian	**
		Middle Jurassic	Great & Inferior Oolitic limestones (Lincolnshire Limestone)	** (****)
		Lower Jurassic	Bridport & Yeovil Sands	**
			Marlstone Rock	
		Triassic	Keuper	
		Bunter	Permo-Triassic sandstones	
		Permian	sandstones	
			Magnesian Limestone	***
		Carboniferous	Upper Carboniferous	**
			Coal Measures	
			Millstone Grit	**
		Lower Carboniferous	Carboniferous Limestone	**
		Devonian	Old Red Sandstone	*

Key to aquifer importance:

- * aquifer of minor importance only
- ** aquifer producing small, but useful, local supplies
- *** aquifer of local importance, often providing public supplies
- **** aquifer of major importance

The Register

Well Number	Grid Reference	Site	Water Authority	Records Commence
Aquifer : Chalk and Upper Greensand				
SE93/4	9212 3634	Dale Plantation	YWA	1970
SE94/5**	9651 4530	Dalton Holme	YWA	1889
SE97/31	9345 7079	Green Lane	YWA	1972
SP90/26	9470 0875	Champneys	TWA	1962
SP91/59	9380 1570	Pitstone Green Farm	AWA	1970
ST30/7	3763 0667	Lime Kiln Way	SWWA	1969
SU01/5 B	0160 1946	Woodyates	WWA	1942
SU04/2	0310 4883	Tilshead	WWA	1966
SU14/1	1690 4840	Netheravon	WWA	1968
SU15/57**	1655 7174	Rockley	TWA	1933
SU32/3	3816 2745	Bailey's Down Farm	SWA	1963
SU35/14	3318 5647	Woodside	SWA	1963
SU51/10	5877 1654	Hill Place Farm	SWA	1965
SU53/94	5589 3497	Abbotstone	SWA	1976
SU57/159	5628 7530	Calversleys Farm	TWA	1973
SU61/28 B	6474 1772	West End House	SWA	1953
SU61/46	6892 1524	Hinton Manor	SWA	1953
SU64/28	6360 4048	Lower Wield Farm	SWA	1961
SU68/49	6442 8525	Well Place Farm	TWA	1976
SU71/23**	7755 1490	Compton House	SWA	1893
SU73/8	7048 3491	Faringdon Station	TWA	1961
SU76/46	7367 6251	Riseley Mill	TWA	1975
SU78/45 A	7419 8924	Stonor Park	TWA	1961
SU81/1	8356 1440	Chilgrove House	SWA	1836
SU87/1	8336 7885	Farm Cottage, Coldharbour	TWA	1950
SU89/7	8103 9417	Piddington	TWA	1966
SY68/34	662 881	Ashton Farm	WWA	1977
TA06/16	0490 6120	Nafferton	YWA	1964
TA07/28	0940 7740	Hunmanby Hall	YWA	1976
TA10/40	1375 0885	Little Brocklesby	AWA	1926
TA21/14	2670 1890	Church Farm	YWA	1971
TF72/11	7710 2330	Off Farm	AWA	1971
TF74/1 A	7541 4087	Choseley Farm	AWA	1950
TF80/33	8738 0526	Houghton Common	AWA	1971
TF81/2 A**	8138 1960	Washpit Farm	AWA	1950
TF94/1	9160 4135	Cuckoo Lodge	AWA	1952
TGOO/92	0440 0020	High Elm Farm, Deopham	AWA	1971
TG02/3	0317 2476	Main Street, Foulsham	AWA	1952
TGO3/25 B	0382 3583	The Hall, Brinton	AWA	1952
TG11/5	1691 1101	The Spinney, Costessey	AWA	1952
TG12/7	1126 2722	Heydon Pumping Station	AWA	1974
TG21/9	2400 1657	Frettenham Depot	AWA	1952
TG21/10	2699 1140	Grange Farm	AWA	1952
TG23/21	2932 3101	Melbourne House	AWA	1974
TG32/67	3390 2020	School Road	AWA	1975
TG33/14	3428 3348	Eden Hall	AWA	1961
TL11/4	1560 1555	Mackerye End House	TWA	1960
TL11/9	1692 1965	The Holt	TWA	1964
TL13/24	1200 3026	West Hitchin	AWA	1970
TL22/10	2978 2433	Box Hall	TWA	1964
TL33/4**	3330 3720	Therfield Rectory	TWA	1883
TL42/6	4536 2676	Hixham Hall	TWA	1964
TL42/8	4669 2955	Berden Hall	TWA	1964
TL44/12	4522 4182	Redlands Hall	AWA	1964
TL66/2	6191 6013	Hall Farm	AWA	1964

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TL72/54	7982 2516	Rectory Road	AWA	1968
TL84/6	8465 4106	Smeetham Hall Cottages, Bulmer	AWA	1963
TL86/110	8850 6470	Cattishall Farm	AWA	1969
TL89/37	8131 9001	Grimes Graves	AWA	1971
TL92/1	9657 2562	Lexden Pumping Station	AWA	1961
TM17/1	1671 7903	Old Parsonage House	AWA	1952
TM15/112	1201 5618	Dial Farm	AWA	1968
TM18/2	1983 8600	Pulham Market	AWA	1952
TM19/2	1810 9270	Hill Farm	AWA	1952
TM26/46	2461 6109	Fairfields	AWA	1974
TM26/95	2786 6397	Strawberry Hill	AWA	1974
TQ01/133	0850 1170	Chantry Post, Sullington	SWA	1977
TQ21/11	2850 1289	Old Rectory, Pyecombe	SWA	1958
TQ28/119 B	2996 8051	Trafalgar Square	TWA	1845
TQ31/50	3220 1180	North Bottom	SWA	1979
TQ35/5	3363 5924	Rose & Crown	TWA	1876
TQ38/9 A	3509 8536	Hackney Public Baths	TWA	1953
TQ50/7	5592 0380	Old Rectory, Folkington	SWA	1965
TQ56/19	5648 6124	West Kingsdown	TWA	1961
TQ57/118	5880 7943	Thurrock A13	AWA	1979
TQ58/2 B	5622 8408	Bush Pit Farm	TWA	1967
TQ66/48	6649 6873	Owlets	SWA	1968
TQ86/55	8528 6185	Stockbury Valley	SWA	1963
TQ99/11	947 971	Burnham	AWA	1975
TR05/6	0239 5995	Step Cottage	SWA	1970
TR14/42	1065 4395	Kingsmill Down	SWA	1971
TR15/58	1281 5148	Cotterell Court	SWA	1970
TR24/13	2880 4937	Eythorne Green	SWA	1953
TR34/81	3173 4725	Church Farm	SWA	1971
TR36/62	3208 6634	Alland Grange	SWA	1969
TV59/7 C	5290 9920	Westdean 3	SWA	1904

Aquifer : Lower Greensand

SU72/47	7697 2414	Westmark Farm	SWA	1970
SU84/8 A	8716 4087	Tilford Pumping Station	TWA	1971
TL45/19	4110 5204	River Farm	AWA	1973
TQ41/79	4714 1271	Southover	SWA	1970
TQ75/72	7038 5218	Marshall Cottages	SWA	1969
TQ75/86	7135 5652	Kiln Barn Farm	SWA	1973
TR13/21	1132 3881	Ashley House	SWA	1972
TR23/32	2075 3650	Morehall Depot	SWA	1972

Aquifer : Hastings Beds

TQ22/1	2348 2770	The Bungalow	SWA	1964
TQ42/10	4684 2794	Greystones	SWA	1966
TQ43/16	4245 3145	Garde Wych Cross	SWA	1973
TQ61/47	6894 1389	Old Kennels	SWA	1966
TQ62/89	6282 2348	Rose Lodge	SWA	1973
TQ71/123	7969 1659	Red House	SWA	1974

Aquifer : Upper Jurassic

SE68/16	6890 8590	Kirkbymoorside	YWA	1973
SE77/76	7690 7300	Broughton	YWA	1975
SE98/8	9910 8540	Seavestate Farm	YWA	1971
SU49/40 B	4117 9307	East Hanney	TWA	1978

Aquifer : Middle Jurassic

(excluding the Lincolnshire Limestone)

SPOO/62**	0595 0190	Ampney Crucis	TWA	1958
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SP20/113	2721 0634	Alvescot Road	TWA	1975
ST51/57	591 169	Over Compton	WWA	1971
ST77/8	7834 7682	Tormartin 1	WWA	1973
ST89/32	8642 9030	Westonbirt School	WWA	1932

Aquifer : Lincolnshire Limestone

SK97/25	9800 7817	Grange de Lings	AWA	1975
TFO3/37**	0885 3034	New Red Lion	AWA	1964
TFO4/14	0429 4273	Silk Willoughby	AWA	1972

Aquifer : Permo-Triassic sandstones

NY00/328	0511 0247	Browbank Layby	NWWA	1974
NY45/16	4947 5667	Corby Hill	NWWA	1977
NY62/4**	6883 2301	Espland Hill	NWWA	1976
NZ41/34	4861 1835	Northern Dairies	NWA	1974
SD27/8	2172 7171	Furness Abbey	NWWA	1972
SD41/32	4400 1164	Yew Tree Farm	NWWA	1971
SD44/15	4396 4928	Moss Edge Farm	NWWA	1961
SE36/9	3590 6480	Newfield Farm	YWA	1968
SE39/20 B	3004 9244	Scruton Village	YWA	1969
SE44/4 B	4880 4850	Healaugh Pumping Station	YWA	1968
SE45/3	4470 5580	Cattal Maltings	YWA	1969
SE52/4	5473 2363	Southfield Lane	YWA	1955
SE55/4	5829 5383	Clifton Hospital	YWA	1967
SE60/24	6784 0709	Woodhouse Grange	STWA	1980
SE64/1	6751 4463	Wheldrake Station	YWA	1971
SE72/3 B	7047 2149	Rawcliffe Bridge	YWA	1971
SE83/9	8040 3640	Holme-on-Spalding Moor	YWA	1972
SJ15/15	1374 5556	Oaklands Bridge	WELSH	1972
SJ33/39**	3814 3831	Eastwick Farm	WELSH	1974
SJ37/2 H	3805 7676	Bowater 6	NWWA	1971
SJ56/45 E	5042 6953	Ashton 4	NWWA	1969
SJ69/138	6311 9620	Kenyon Lane	NWWA	1968
SJ83/1 A	8969 3474	Stone	STWA	1974
SJ87/32**	8969 7598	Dale Brow	NWWA	1973
SJ96/41	9310 6301	Rushton Spencer 1	NWWA	1969
SK00/41	067 012	Nuttall's Farm	STWA	1974
SK21/111	2731 1419	Grange Wood	STWA	1967
SK24/22	2539 4431	Burtonshuts Farm	STWA	1972
SK56/53	5632 6440	Peafield Lane	STWA	1969
SK68/21	6100 8374	Crossley Hill Wood	STWA	1970
SK73/50	7693 3228	Woodland Farm	STWA	1980
SO71/18	7170 1970	Stores Cottage	STWA	1973
S087/28	8160 7970	Hillfields	STWA	1961
ST12/48	108 267	Milverton Bypass	WWA	1972
SX99/37 B**	9528 9872	Bussels 7A	SWWA	1972
SY09/21 A	0666 9235	Heathlands	SWWA	1951

Aquifer : Magnesian Limestone

NZ22/22**	2875 2896	Rusheyford NE	NWA	1967
NZ32/1 B	3780 2983	Butterwick	NWA	1967
NZ33/20	3349 3501	Garmondsway	NWA	1974
SE28/28	2460 8520	Bedale	YWA	1972
SE35/4	3830 5830	Castle Farm	YWA	1970
SE43/9**	4535 3964	Peggy Ellerton Farm	YWA	1968
SE43/14	4660 3550	Coldhill Farm 35	YWA	1971
SE51/2	5210 1530	Westfield Farm	YWA	1971
SK46/71	4800 6030	Stanton Hill	STWA	1973
SK58/43	5248 8018	Southeads Lane	STWA	1973

Aquifer : Coal Measures

SD62/35	6925 2945	Lion Brewery	NWWA	1974
SE23/4	2850 3414	Silver Blades Ice Rink	YWA	1971
SJ98/6	9394 8950	Chadkirk Marple	NWWA	1982

Aquifer : Millstone Grit

SD55/5	5820 5350	Abbeystead	NWWA	1972
SD75/6	7826 5962	Hersley Farm	NWWA	1973
SD83/111	8803 3949	Red Scar Mill	NWWA	1974
SD92/8	9833 2660	Horsehold Farm	YWA	1971
SEO4/7	0295 4792	Lower Heights Farm	YWA	1971
SE24/2 B	2067 4053	Green Lane Dyeworks	YWA	1971
SE27/8	2120 7380	Kirkby Moor Farm	YWA	1971

Aquifer : Carboniferous Limestone

NT95/21	9695 5055	Middle Ord	NWA	1974
SEO6/1	0241 6183	Jerry Laithe Farm	YWA	1971
SK15/16	1292 5547	Alstonfield	STWA	1974
SK17/13	1778 7762	Hucklow South	STWA	1969
ST64/36	6610 4460	Waterlip Quarry	WWA	1975

THE GROUNDWATER SITUATION IN THE UNITED KINGDOM UP TO THE END OF 1981

Background

Groundwater may be obtained from almost any stratum in the sedimentary succession in the British Isles, as well as from metamorphic and igneous rocks. In many rocks, such as clays and shales, volcanics and metamorphics, the permeable zone from which water may be obtained can well be limited to the depth to which weathering may reach, and this is unlikely to be more than some 50 metres beneath the ground surface. In those strata which are not generally recognised to be aquifers, well-yields tend to be small (of the order of only a few cubic metres per day), uncertain as a continuous source (tending to fail in prolonged droughts), with an indifferent groundwater quality, and with the sources vulnerable to pollution.

The more generally recognised aquifers are listed in Table 4, with the Chalk and Upper Greensand, the Lincolnshire Limestone and the Permo-Triassic sandstones as the most important for public water supply. From such aquifers as these, yields of 3000 to 4500 cubic metres a day are not unusual. For the next category, including the Lower Greensand and the Magnesian Limestone, yields from individual wells of 1500 to 3000 cubic metres a day can generally be expected. In the other aquifers, while occasional sources sufficient for large supplies may be developed, they tend to be important only locally.

The groundwater resources of an aquifer are naturally replenished from rainfall. During the summer months, when the potential evaporation is high and soil moisture deficits are appreciable, little infiltration takes place. There is a notable exception to this rule in the Eden valley of Cumbria where, enclosed between the massifs of Cross Fell and the Lake District, sufficiently heavy and continuous summer rainfall occurs to maintain infiltration through part at least of most summers. The normal recharge of an aquifer takes place during the winter months when the potential evaporation is low and soil moisture deficits are negligible.

There are few artificial reservoirs in the United Kingdom which are sufficiently large to support demands through the driest summers, assuming that they were full at the start of the summer, without some continuous contribution from river intakes. Prolonged dry spells lead to reduced flow in many rivers, particularly where the natural groundwater contribution (baseflow) is limited. Consequently, while surface water droughts may in part be due to the failure of runoff from winter

rainfall to fill the reservoirs, they are more frequently caused by a decrease in the summer flows of streams and rivers. Surface water droughts do, however, lead to increased consumption of groundwater (where available).

Groundwater droughts manifest themselves by falling water levels in the aquifers, resulting from a lack of winter rainfall and hence reduced infiltration. The exceptional drought of 1975-76 became severe only after the remarkably dry winter when, within England and Wales, negligible recharge to aquifers occurred. By the spring of 1976, when seasonal underground storage should have been at its peak, aquifer storage was already at a very low level. Since, however, groundwater levels in aquifers are controlled by local and variable base level drainage conditions, the extent to which further falls in level could occur under natural unconfined conditions was limited so that by the autumn of 1976 levels were lower than those previously recorded by no more than a few metres. Under confined conditions, falls in excess of 10 metres occurred below the previously recorded minima. Nevertheless, the volume of groundwater in storage, particularly in the larger aquifers, is very great compared with the mean annual replenishment, and is, therefore, capable of cushioning the effects of even the most severe droughts. Even in the late summer of 1976, although many shallow shafts and boreholes dried out as the water levels fell, the yields from the deeper wells were easily maintained.

The groundwater situation 1978-81

The volume of groundwater stored in aquifers reflects not only the infiltration taking place during the previous winter months, but also that occurring in previous years. It is therefore unsafe to consider any single year in isolation. In this present publication the 1981 groundwater situation is considered within the context of the rainfall pattern and groundwater level variations over the period 1978-81.

Table 5 shows the winter and summer rainfall for England, Wales, Scotland and Northern Ireland for the years 1978-81. Although summer rainfalls were in general a little below average, winter rainfalls were almost invariably above average for this period. Groundwater levels reflected this situation, being generally near to, or above, average throughout the period. Hydrographs for a number of index wells are presented in Fig. 11. The trace of

observed water levels upon the hydrographs is discontinued where there is a break between successive measurements of more than 8 weeks. Each hydrograph shows monthly maxima, minima and mean levels where the period of record covers 10 or more years prior to 1981. For shorter records, only the hydrograph constructed from observed levels is shown. Some sharp falls in late 1978 and early 1979 seen at Dale Brow and Espland Hill in northern England and also in some of the Chalk wells in the south appear to be due, in part, to a dry start to the winter and in part to modifications to the local groundwater abstraction regime. The site at Therfield Rectory is of particular interest as an example of a hydrograph that reaches peak and low values some three months after the corresponding peaks and lows of the rainfall. This lagged response is a result of the time required for the infiltrate to reach the saturated zone.

From the groundwater standpoint, 1981 appears to have been a near average year in England and Wales, with the groundwater levels near to, or above, average. Only at Dalton Holme in the Chalk of Yorkshire were groundwater levels below aver-

age at the end of the year, and even then they were rising.

At Rusheyford North East, records commence in 1967, and yet in 1980-81 the observed levels are close to the recorded maxima despite the near-average infiltration that occurred in this period. The reason lies largely in an alteration in the pumping regime of an adjacent public supply source, but it does emphasise the necessity of long-term records for estimating mean values.

In Scotland, there are few operational groundwater observation wells, and those that there are have records covering a period of three years or less. Judging by the levels observed during 1981 at Easter Lathrisk [NO 2837 0802], the year was close to average, and this accords with the rainfall figures of Table 5.

In Northern Ireland, the only site with any length of record (from 1974) is Lisburn No.5 [IJ 2490 6880] located in the Permo-Triassic sandstones of the Lagan Valley. The maximum range of water level fluctuation through the period of record is only of the order of one metre. During 1981, levels remained at, or close to, the average.

TABLE 5. WINTER AND SUMMER RAINFALL FOR THE YEARS 1978 TO 1981 AS A PERCENTAGE OF THE 1941-1970 AVERAGE.

	Winter rainfall				Summer rainfall			1981
	1977-78	1978-79	1979-80	1980-81	1978	1979	1980	
England	112	111	124	130	90	92	96	104
Wales	92	98	131	120	83	61	85	96
Scotland	116	102	114	125	83	98	98	92
Northern Ireland	112	104	132	117	73	94	88	109

Winter months include October to March, summer months April to September.

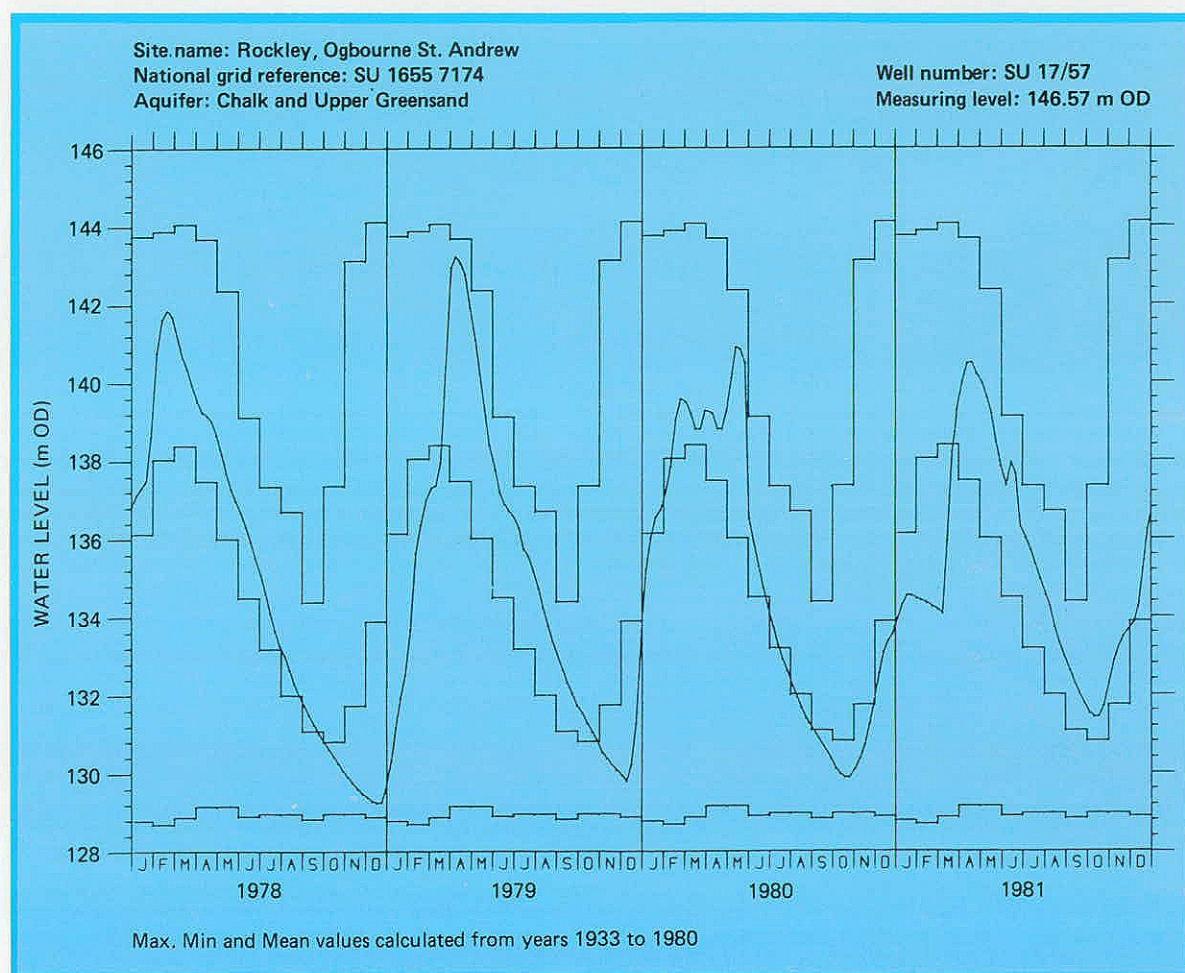
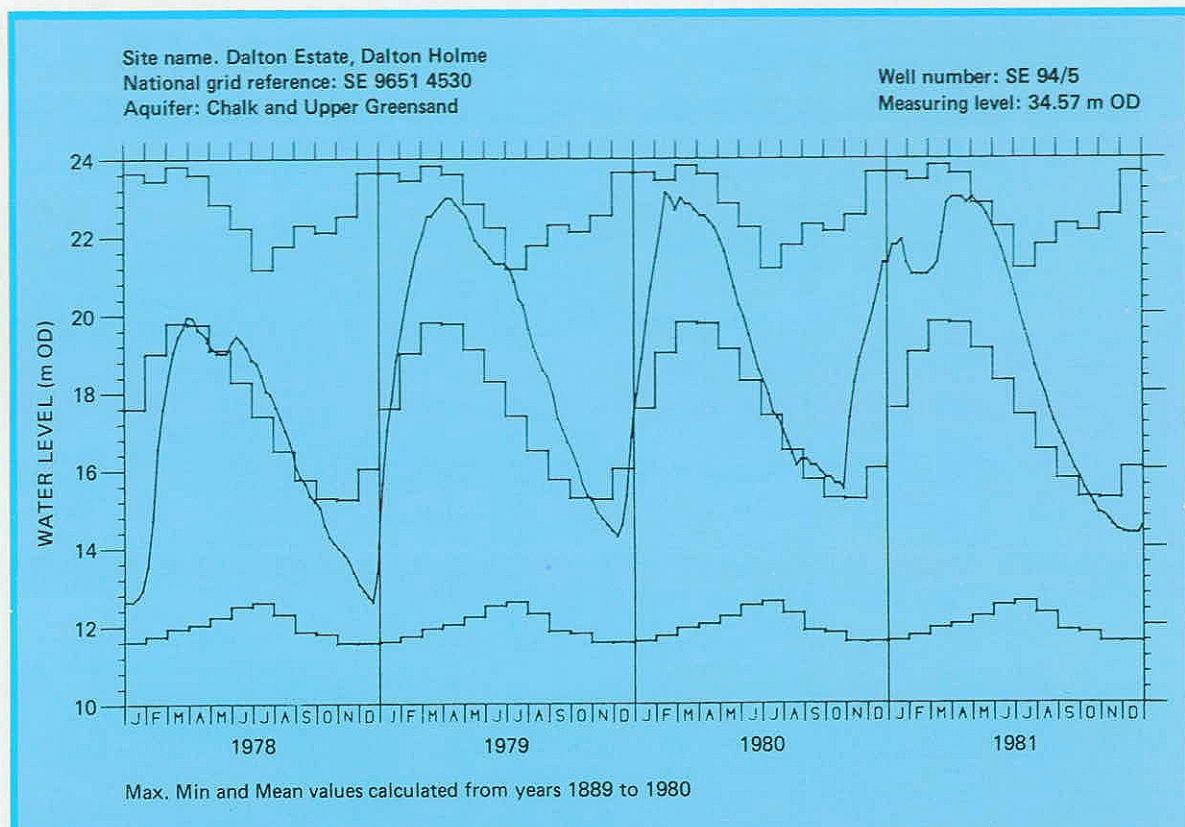


Figure 11. Hydrographs of groundwater level fluctuations 1978-81.

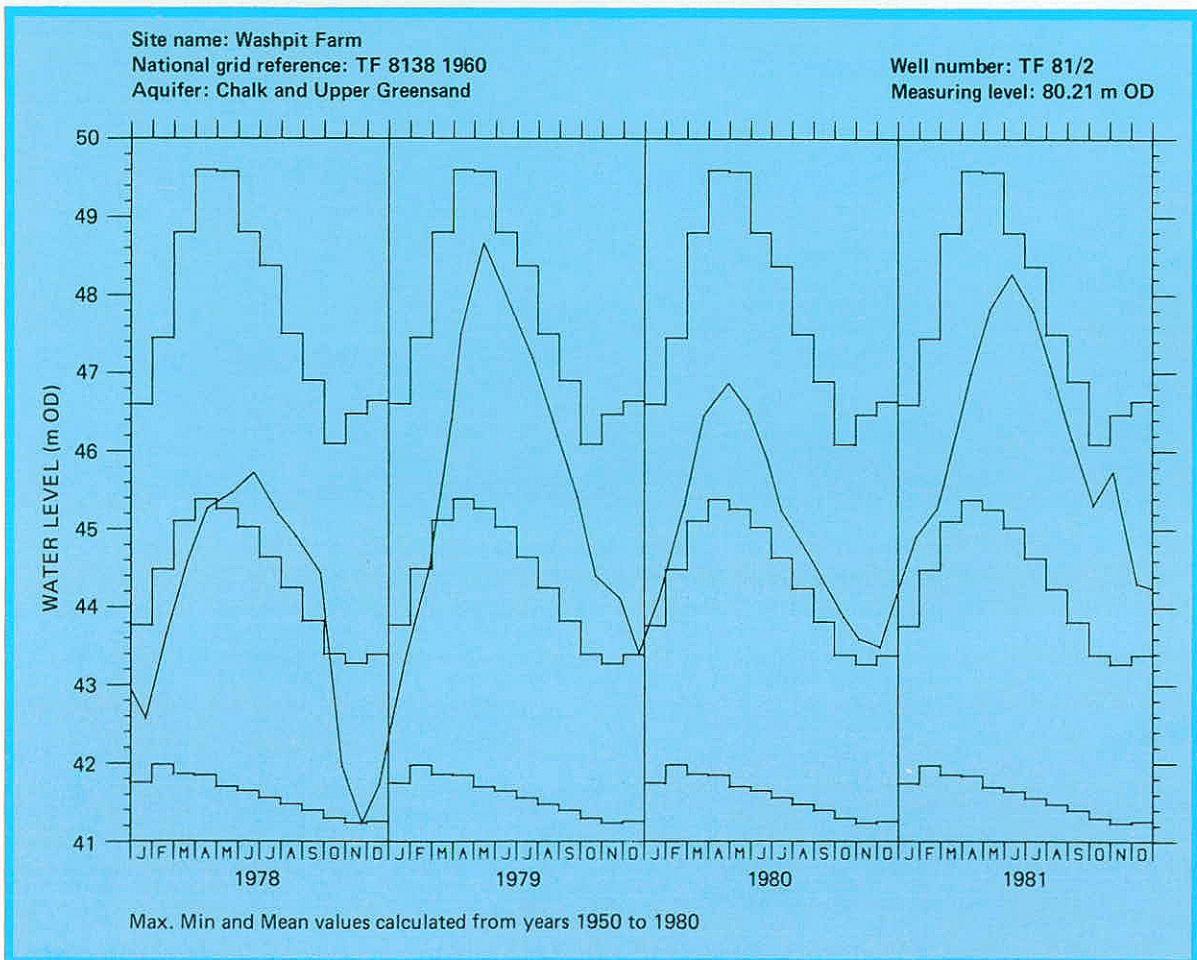
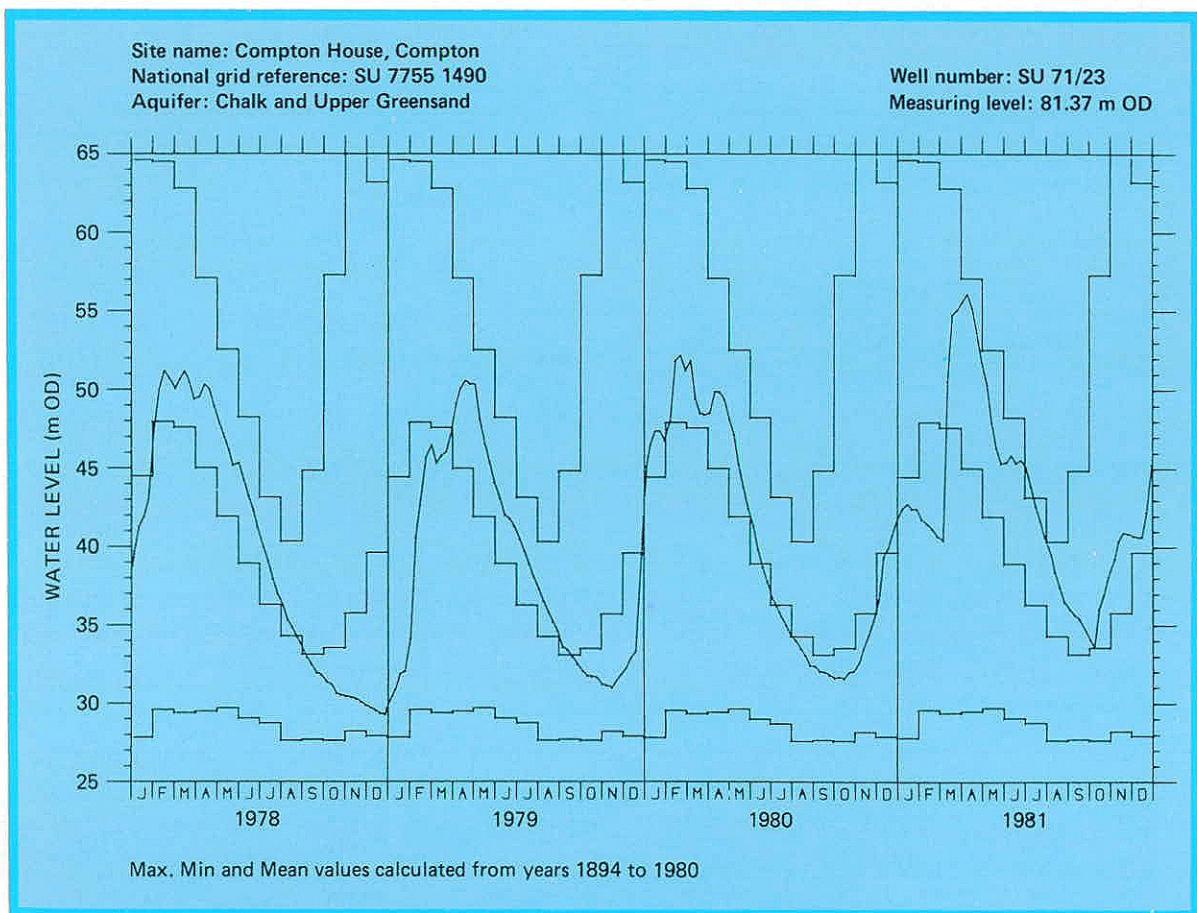


Figure 11—(continued).

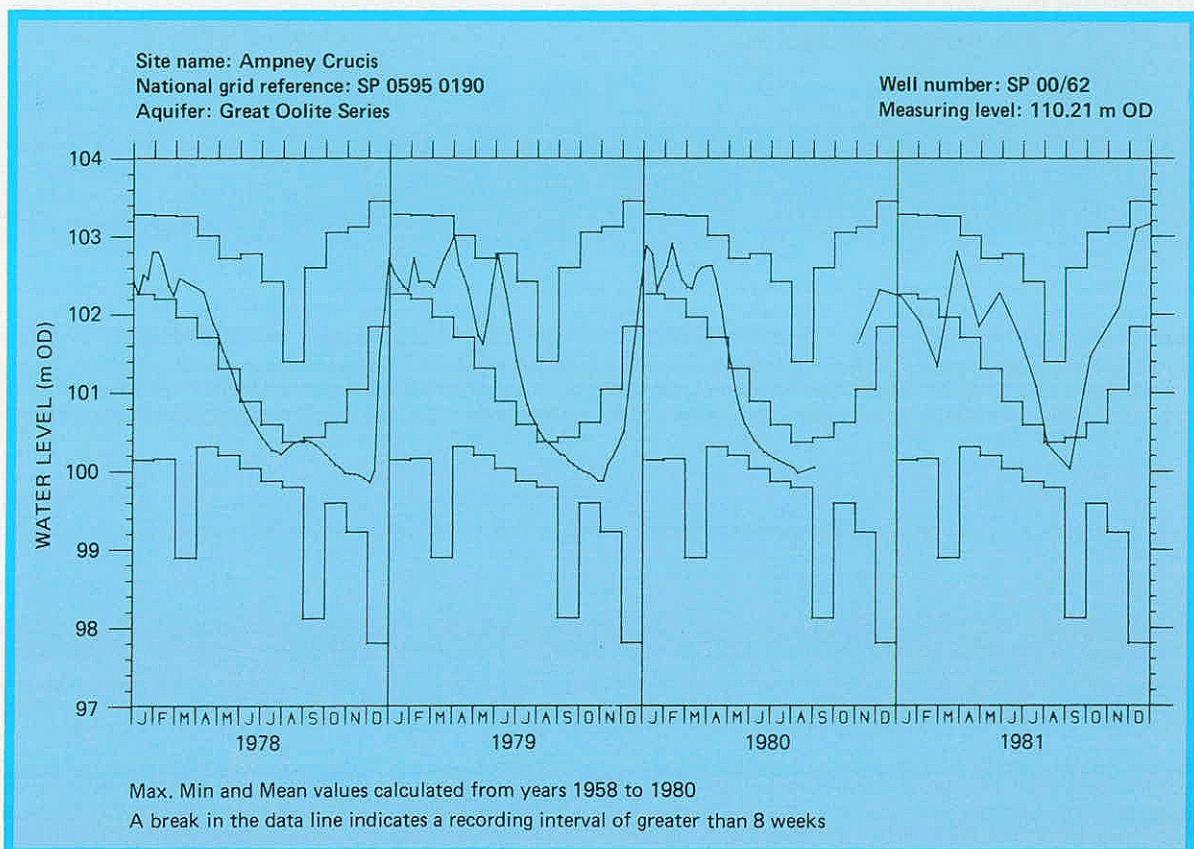
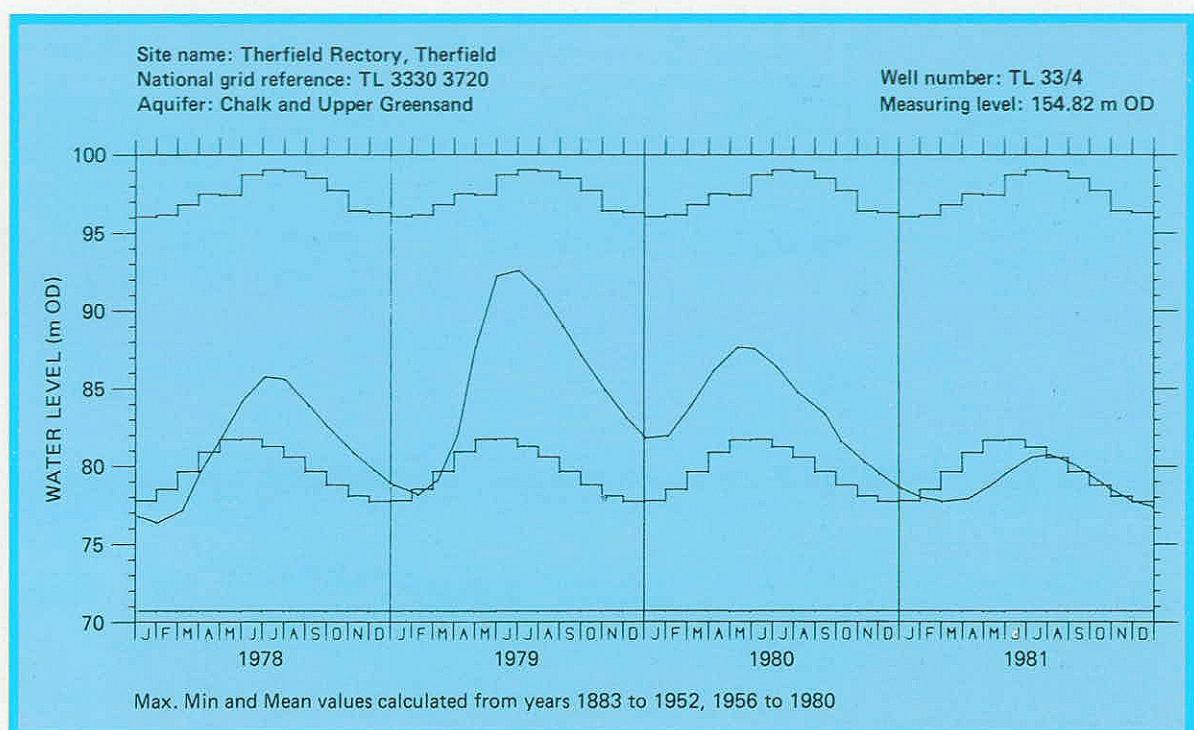


Figure 11—(continued).

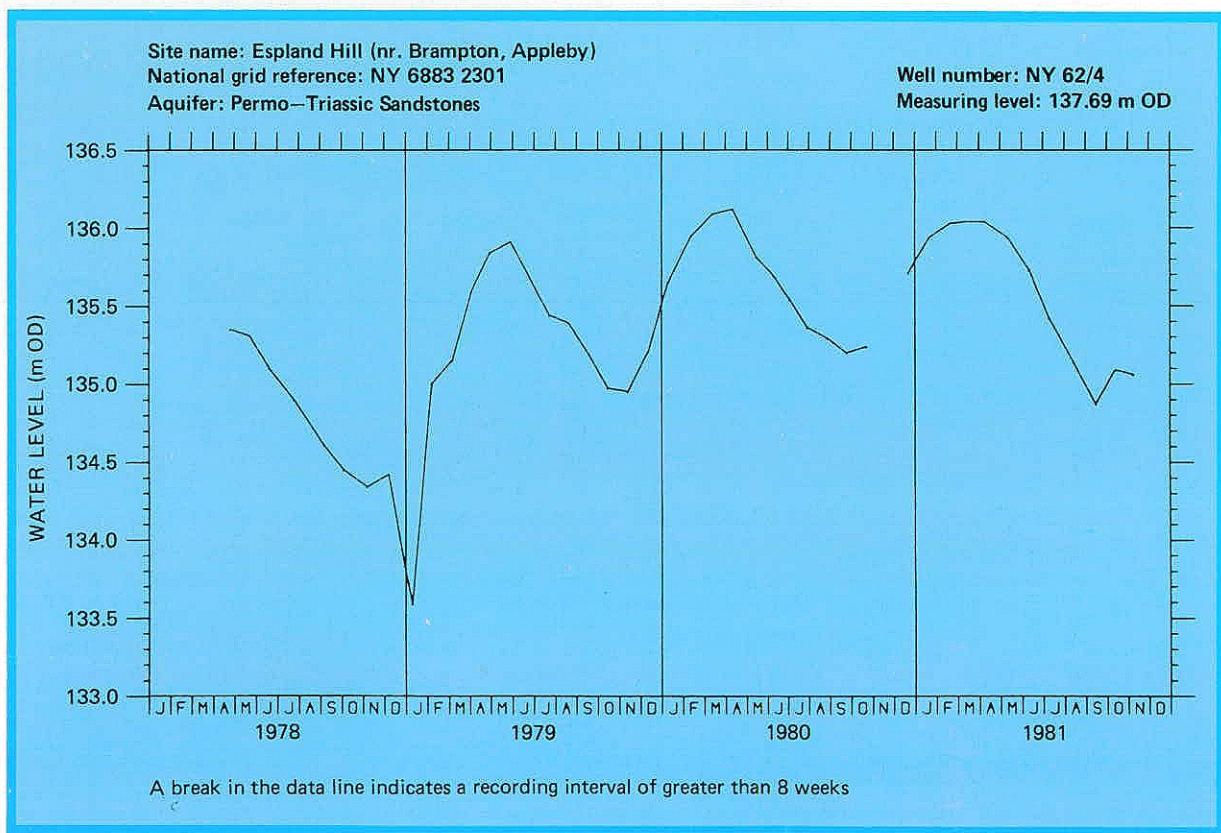
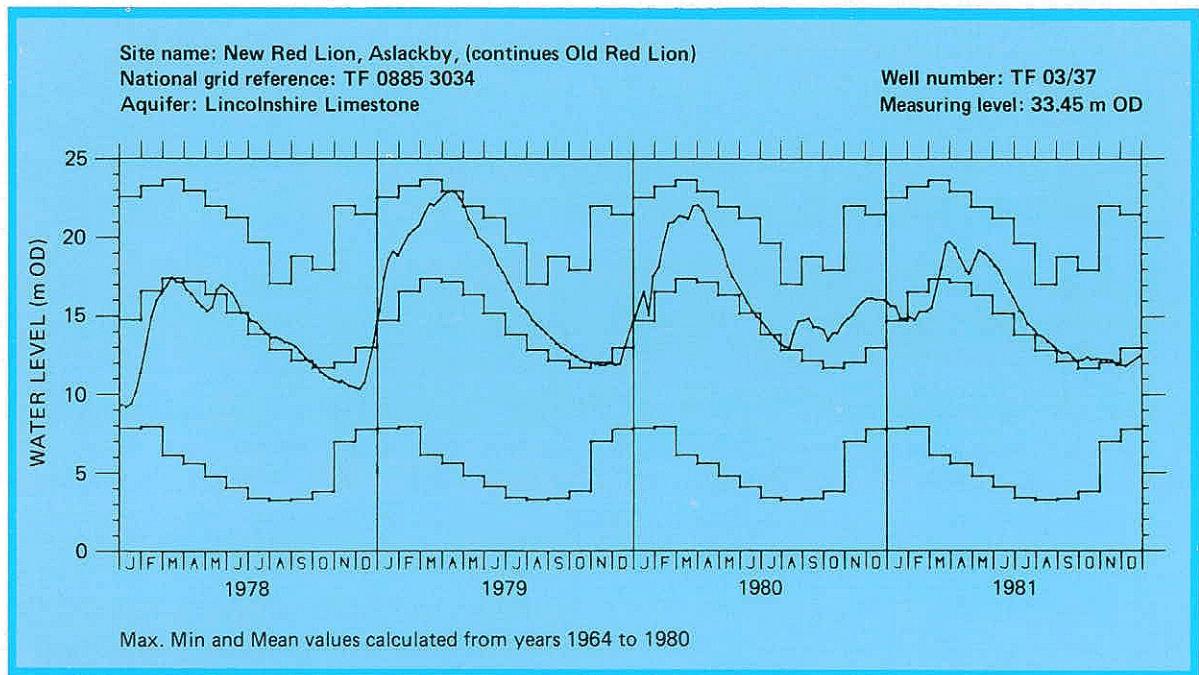


Figure 11—(continued).

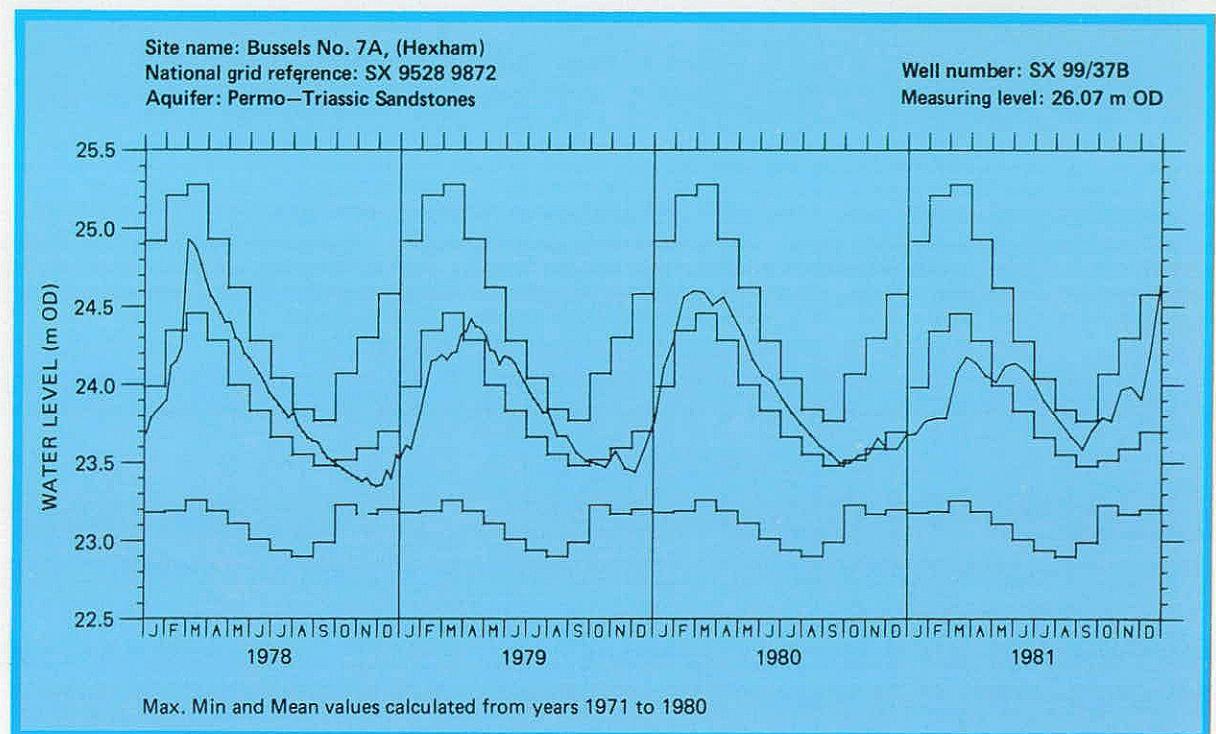
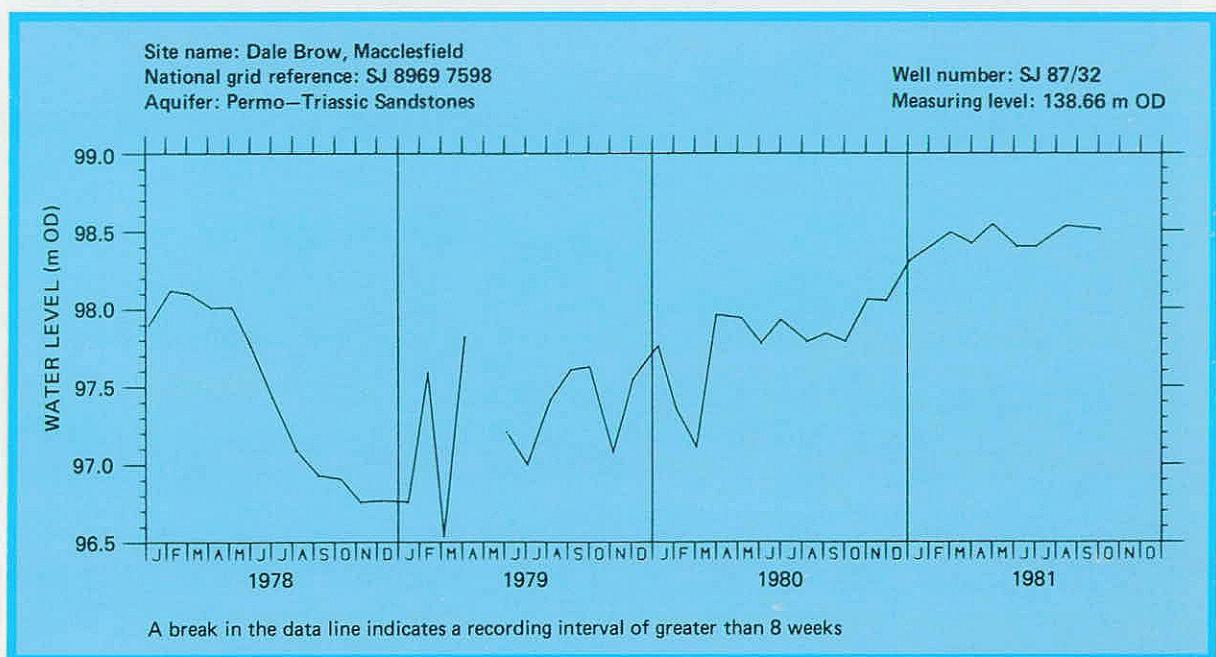
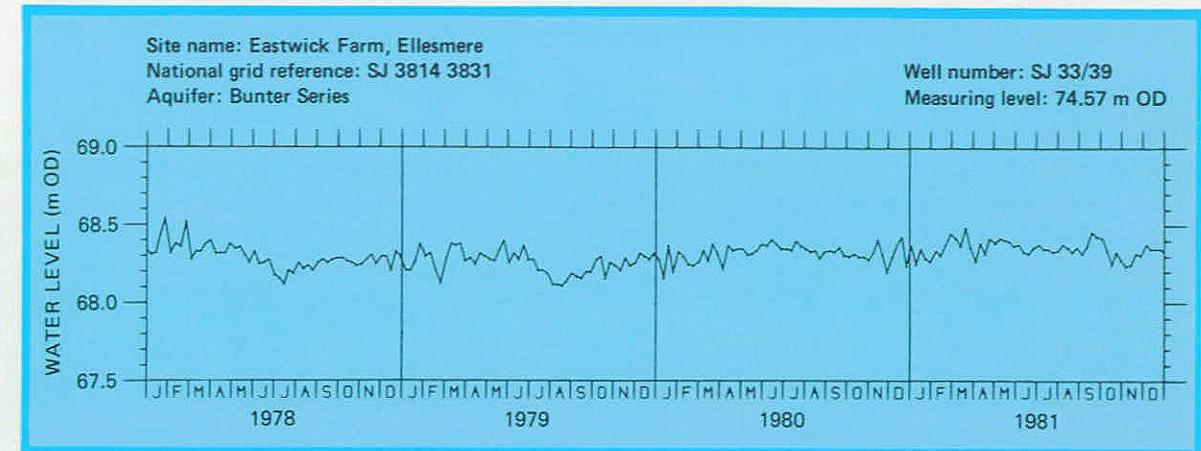


Figure 11—(continued).

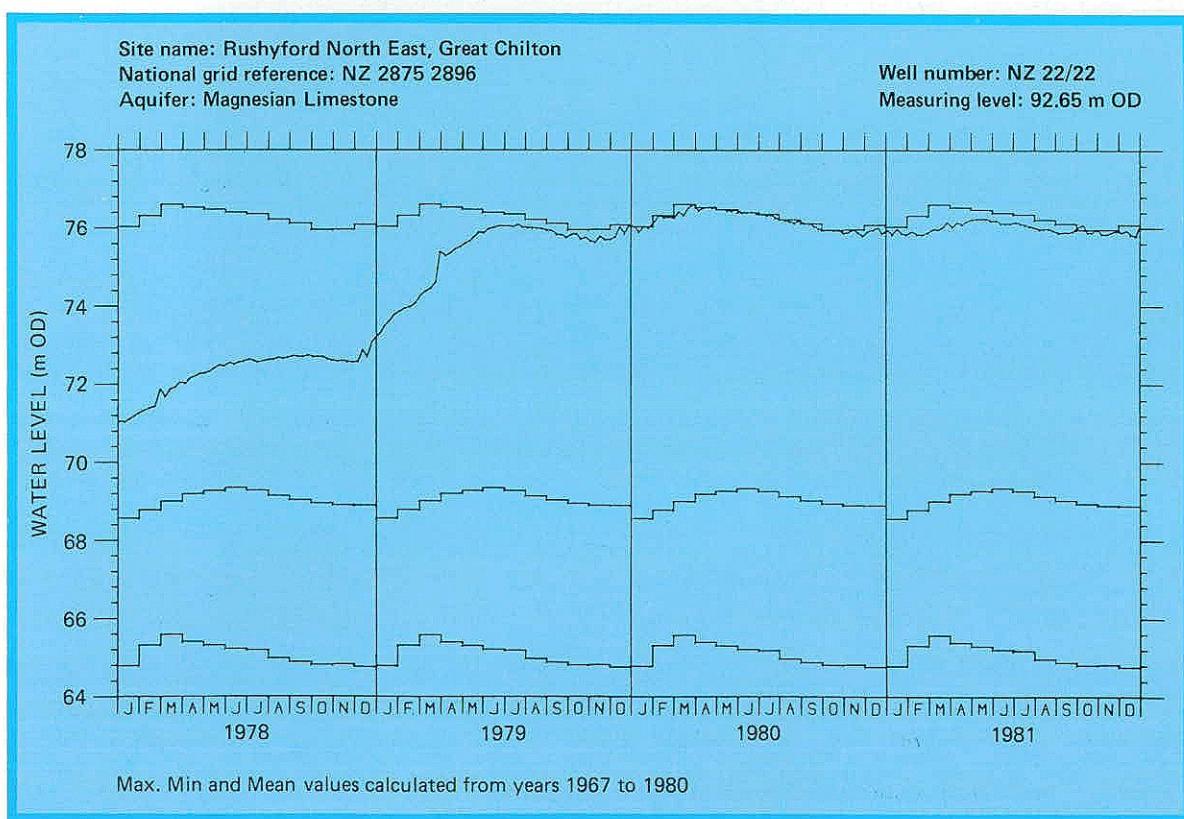
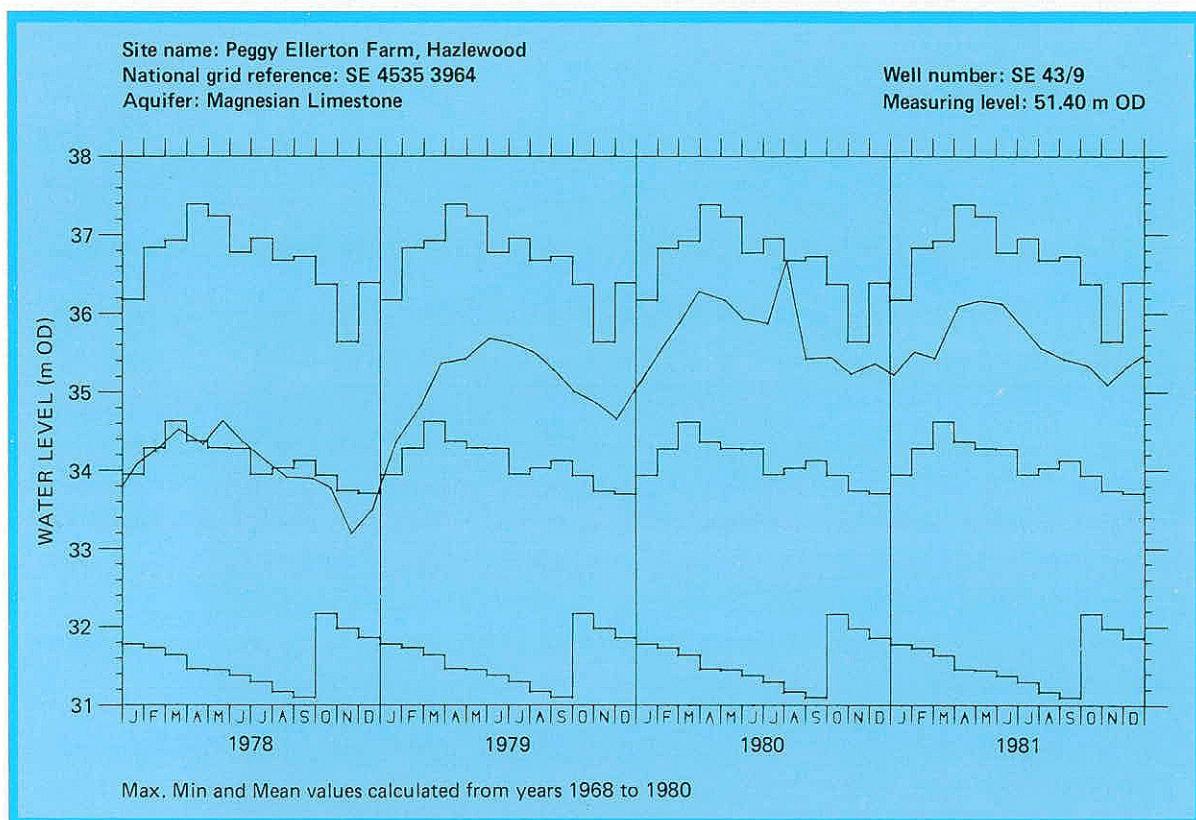


Figure 11—(continued).

THE GROUNDWATER DATA RETRIEVAL SERVICE

A suite of retrieval programs has been written in order to facilitate data usage. At the present time, retrievals using the options described below are available for most of the sites listed in the register of selected groundwater observation wells, although not all the data contained within this archive have been validated.

Five options are available for retrieving data. A description of each option is given below and examples of the computer listings and graphical output are given on pages 162 to 165. Options 1 to 4 give details of the well site, the period of record available, and maximum and minimum recorded levels in addition to the output specific to each option. Data may be retrieved for a specific well or for groups of wells defined by well reference numbers, by area (using National Grid References), by aquifer, by hydrometric area, by water authority, or by any combination of these parameters.

Cost of Service

To cover the computing and handling costs, a moderate charge will be made depending on the

output options selected. Estimates of these charges may be obtained on request; the right to amend or waive charges is reserved.

Requests for retrieval options:

Requests for retrieval options should include: the name and address to which the output should be directed, the sites, or areas, for which data are required together with the period of record of interest (where appropriate) and the title of the required option. Where possible, a daytime telephone number should be given.

Requests should be addressed to:

The British Geological Survey
Hydrogeology Research Group
Maclean Building
Crowmarsh Gifford
WALLINGFORD
OXFORDSHIRE OX10 8BB

Telephone: Wallingford (0491) 38800

LIST OF GROUNDWATER DATA RETRIEVAL OPTIONS

OPTION NUMBER	TITLE	NOTES
1	Table of groundwater levels	All recorded observations of groundwater level in metres above Ordnance Datum, with dates of observation and maximum and minimum levels for each year. Specific years, or ranges of years, may be requested, otherwise the full period of record is given.
	Table of annual maximum and minimum groundwater levels	Annual maximum and minimum groundwater levels in metres above Ordnance Datum with dates of occurrence. Specific years, or ranges of years, may be requested, otherwise the full period of record is given.
	Table of monthly maximum, minimum and mean groundwater levels	Monthly maximum, minimum and mean groundwater levels in metres above Ordnance Datum, together with the number of years contributing values to the calculation of each monthly mean. A specific period of years may be nominated, otherwise the full period of record is given.
	Hydrographs of groundwater levels	Provides a well hydrograph for a number of specified years. Castellated annual plots of monthly maximum, minimum and mean groundwater levels calculated from a nominated period of years are superimposed upon the hydrograph, provided that the nominated period exceeds 10 years. Tabulations

of the monthly maximum, minimum and mean values are also listed, together with the number of years of record used in the calculations, and the number of observations used for each month.

Site details

The output comprises the well reference number of the British Geological Survey, the original (Water Data Unit) station number (where applicable), the hydrometric area, the aquifer name and code, the site name and location, the National Grid Reference, the depth of the well, the datum points (from which measurements are made), the altitude of the ground surface, the period of record and the water authority area in which the well or borehole is located.

Examples of these five options follow.

OPTION 1 TABLE OF GROUNDWATER LEVELS

Station number	TFO3/37
Station name	NEW RED LION, ASLACKBY (CONTINUES OLD RED LION)
Grid Reference	TF 0885 3034
Water Authority	AWA
Hydrometric Area	30
Aquifer	Lincolnshire Limestone
Aquifer Code	13
EEC Unit	ANO3
Surface Level (MOD)	33.82
Datum Point (MOD)	33.45
Well Depth (M)	50.00
Max. Expected (MOD)	33.45
Min. Expected (MOD)	5.00
Period of records in Archive:-	1964 to 1985
Maximum GW Level for period of records	23.69
Number of Maxima	1
Date(s):-	
14 03 1977	
Minimum GW Level for period of records	3.29
Number of Minima	1
Date(s):-	
24 08 1976	

(Note: The above reference information is also provided with the output from options 2-4)

Station Number	TF03/37
Year of record	1975
Date	Level (MOD)
03 Jan	17.29
31 Jan	16.68
28 Feb	17.85
04 Apr	20.31
24 Apr	20.12
02 May	20.13
30 May	18.58
13 Jun	17.34
11 Jul	15.77

01 Aug	14.44
29 Aug	13.24
26 Sep	12.11
10 Oct	11.57
07 Nov	10.42
21 Nov	9.85
19 Dec	8.98
Maximum GW level for year	20.31
Number of maxima	1
Dates 04 Apr	
Minimum GW Level for year	8.98
Number of minima	1
Dates 19 Dec	

OPTION 2 TABLE OF ANNUAL MAXIMUM AND MINIMUM GROUNDWATER LEVELS

Year	Max/Min	Level(MOD)	Date(s)	No. of occasions
1965	Max	21.50	26 Dec	1
	Min	7.85	24 Jan	1
1966	Max	23.51	06 Mar	1
	Min	14.43	09 Oct-16 Oct	1 Period
1967	Max	19.79	04 Jun	1
	Min	12.69	29 Oct	
1968	Max	22.06	17 Nov	
	Min	14.08	07 Jul	
1969	Max	23.17	30 Mar	
	Min	11.83	16 Nov	
1970	Max	20.21	26 Apr	1
	Min	10.76	15 Nov	1

OPTION 3 TABLE OF MONTHLY MAXIMUM, MINIMUM AND MEAN GROUNDWATER LEVELS

Period maximum, minimum and mean groundwater levels for years 1964 to 1985

	Maximum	Minimum	Mean	No. of years
Jan	22.58	7.85	14.75	21
Feb	23.29	7.97	16.50	21
Mar	23.69	6.14	17.27	21
Apr	22.97	5.61	17.17	22
May	22.00	4.80	16.52	21
Jun	21.28	4.11	15.40	21
Jul	19.69	3.42	14.03	21
Aug	17.08	3.29	12.97	21
Sep	18.84	3.37	12.23	21
Oct	17.98	3.82	11.78	21
Nov	22.06	7.03	12.08	21
Dec	21.51	7.81	13.04	21

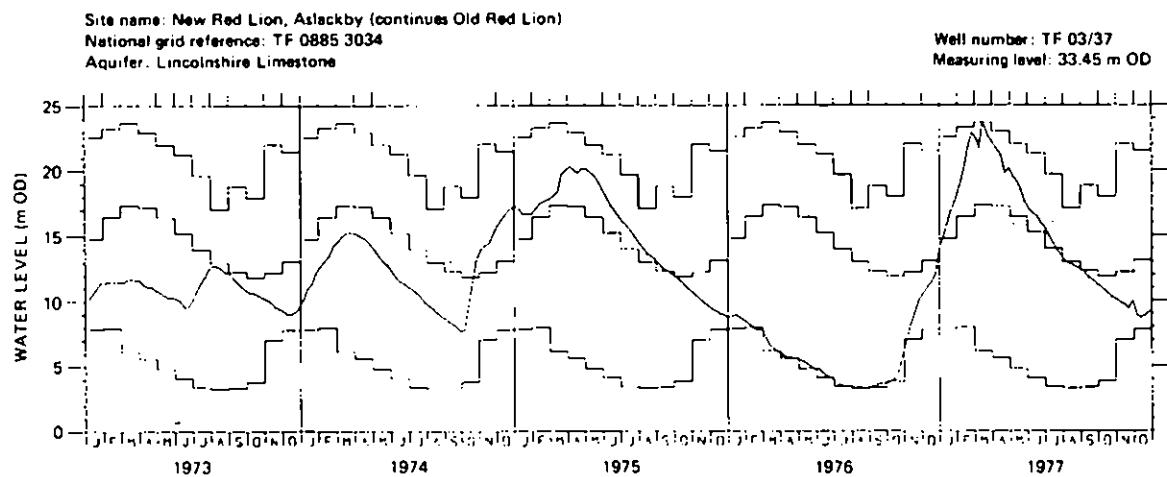
OPTION 4 HYDROGRAPHS OF GROUNDWATER LEVELS

Hydrograph of monthly maximums, minimums and means calculated from years 1964 to 1982

Therefore maximum number of years from which monthly maxs, mins and means may be calculated is 19

	Maximum	Minimum	Mean	No of Years contributing values to mean calculations
Jan	22.58	7.85	14.77	18
Feb	23.29	7.97	16.47	18
Mar	23.69	6.14	17.34	18
Apr	22.97	5.61	17.23	19
May	22.00	4.80	16.42	19
Jun	21.28	4.11	15.23	19
Jul	19.69	3.42	13.97	19
Aug	17.08	3.29	12.98	19
Sep	18.84	3.37	12.28	19
Oct	17.98	3.82	11.85	19
Nov	22.06	7.03	12.20	19
Dec	21.51	7.81	13.09	19

Hydrograph(s) plotted for year ranges:- 1973 to 1977



Max, Min and Mean values calculated from years 1964 to 1982

OPTION 5 SITE DETAILS

BGS NUMBER	COMPUTER NUMBER	HA NUMBER	AQ	NAME—LOCATION REC—PERIOD—WA AQUIFER	GRID REF.	DEPTH (M)	DATUM POINT	SURFACE LEVEL
NZ22/22	25624	25	17	RUSHYFORD NORTH EAST, GREAT CHILTON NZ 2875 2896 1957-1985 NWA MAGNESIAN LIMESTONE		62.50	92.65	92.53
SE94/5	26352	26	6	DALTON ESTATE, DALTON HOLME 1889-1985 YWA CHALK AND UPPER GREENSAND	SE 9651 4530	28.50	34.57	33.50
SE43/9	27360	27	17	PEGGY ELLERTON FARM, HAZLEWOOD 1968-1985 YWA MAGNESIAN LIMESTONE	SE 4535 3964	55.42	51.40	51.40
TF03/37	30229	30	13	NEW RED LION, ASLACKBY (CONTINUES OLD RED LION) 1964-1985 AWA LINCOLNSHIRE LIMESTONE	TF 0885 3034	50.00	33.45	33.82
TF81/2	33343	33	6	WASHPIT FARM 1950-1985 AWA CHALK AND UPPER GREENSAND	TF 8138 1960	40.40	80.21	80.69
TL33/4	38511	38	6	THERFIELD RECTORY, THERFIELD 1883-1984 TWA CHALK AND UPPER GREENSAND	TL 3330 3720	84.10	154.82	154.82
SU17/57	39350	39	6	ROCKLEY, OGBOURNE ST. ANDREW 1933-1985 TWA CHALK AND UPPER GREENSAND	SU 1655 7174	17.60	146.57	146.39
SU71/23	41426	41	6	COMPTON HOUSE, COMPTON 1894-1985 SWA CHALK AND UPPER GREENSAND	SU 7755 1490	53.80	81.37	81.37
SJ87/32	68476	68	16	DALE BROW, MACCLESFIELD 1973-1984 NWWA PERMO-TRIASSIC, SANDSTONES	SJ 8969 7598	152.40	138.66	138.36

DIRECTORY OF MEASURING AUTHORITIES

	Address	Code
Water Authorities		
Anglian Water Authority	Amebury Road, Huntingdon PE18 6NZ	AWA
Northumbrian Water Authority	Northumbria House, Regent Centre, Gosforth, Newcastle-upon-Tyne, NE3 3PX	NWA
North West Water Authority	Dawson House, Liverpool Road, Great Sankey, Warrington, WA5 3LW	NWWA
Severn Trent Water Authority	Abelson House, 2297 Coventry Road, Sheldon, Birmingham, B26 3PU	STWA
Southern Water Authority	Guildbourne House, Chatsworth Road, Worthing BN11 1LD	SWA
South West Water Authority	Peninsular House, Rydon Lane, Exeter EX2 7HR	SWWA
Thames Water Authority	New River Head, Rosebery Avenue, London EC1R 4TP	TWA
Welsh Water Authority	Cambrian Way, Brecon, Powys LD3 7HP	WELS (WELSH)
Wessex Water Authority	Wessex House, Passage Street, Bristol BS2 0JQ	WWA
Yorkshire Water Authority	West Riding House, 67 Albion Street, Leeds LS1 5AA	YWA

River Purification Boards

Clyde River Purification Board	Rivers House, Murray Road, East Kilbride, Glasgow G75 0LA	CRPB
Forth River Purification Board	Colinton Dell House, West Mill Road Colinton, Edinburgh, EH13 0PH	FRPB
Highland River Purification Board	Strathpeffer Road Dingwall IV15 9QY	HRPB
North East River Purification Board	Woodside House, Persley, Aberdeen AB2 2UQ	NERPB
Solway River Purification Board	Rivers House, Irongray Road Dumfries DG2 0JE	SRPB
Tay River Purification Board	3, South Street Perth PH2 8NJ	TRPB
Tweed River Purification Board	Burnbrae, Mossilee Road, Galashiels TD1 1NF	TWRPB

Other measuring authorities

Borders Regional Council	West Grove, Waverley Road, Melrose TD6 9SJ	BRWO
Corby and District Water Company	Stanion Lane, Corby NN18 8ES	CDWC

Department of the Environment (Northern Ireland)	Stormont, Belfast BT4 3SS	DOE (NI)
Dumfries and Galloway Regional Council (Water Department)	70 Terregles Street Dumfries DG2 9BB	DGRW
Essex Water Company	342 South Street Romford RM1 2AL	EWC
Grampian Regional Council (Water Services Department)	Woodhill House, Ashgrove Road West, Aberdeen AB9 2I.U	GRWD
Greater London Council	Public Heath Engineering, Drury House, 32 Vauxhall Bridge Road, London SW1V 2SA	GLC
Highland Regional Council (Water Department)	Regional Buildings Glenurquhart Road Inverness IV3 5NX	HRCW
Institute of Hydrology	Maclean Building, Crowmarsh Gifford, Wallingford, OX10 8BB	IH
Lothian Regional Council (Water Supply Services Department)	6 Cockburn Street, Edinburgh	LRWD
Newcastle and Gateshead Water Company	PO Box 10, Allendale Road, Newcastle-upon-Tyne NE6 2SW	NGWC
North of Scotland Hydro- Electric Board	16 Rothesay Terrace, Edinburgh EH3 7SE	NSHE
Strathclyde Regional Council (Water Department)	419 Balmore Road, Glasgow G22 6NU	SRCW
Tayside Regional Council (Water Services Department)	Bullion House, Invergowrie, Dundee DD2 5BB	TRWS

PUBLICATIONS

<i>Title</i>	<i>Published</i>	<i>Price</i> (inclusive of second class postage within UK)	<i>Loose Leaf</i>	<i>Bound</i>
1. Yearbook 1981.	1985	£10	£12	
2. Yearbook 1982.	1985	£10	£12	
3. The 1984 Drought.	1985		£12	

The Yearbooks are available as bound volumes or as sets of pre-punched sheets for insertion in a ring binder designed to hold five yearbooks and the five-yearly catalogue with summary statistics. The ring binder may be purchased for £28 to include the 1981 and 1982 yearbooks. Organisations and individuals purchasing the ring binder will be entitled to receive free updates of the data sheets for individual Yearbooks when a significant revision to

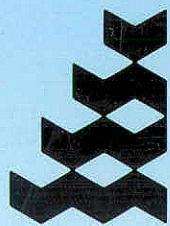
the published data is made. The revised data sheets will normally be issued on an annual basis.

All the Hydrological data: UK publications and the ring binder may be obtained from:-

Institute of Hydrology
Maclean Building
Crowmarsh Gifford
WALLINGFORD
OXFORDSHIRE OX10 8BB

Telephone: Wallingford (0491) 38800

Enquiries or comments regarding the series, or individual publications, are welcomed and should be directed to the Surface Water Archive at the above address.



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