# Hydrological Summary for Great Britain

# OCTOBER 1994

#### Rainfall

Contrasts in weather conditions during October were notable in both spatial and temporal terms. pressure dominated after a damp start but conditions became increasingly unsettled over the latter half of the month. Britain as a whole registered near average rainfall for October but England and Wales was wetter than normal whilst a similar rainfall total for Scotland signalled a relatively dry month. Much of eastern Scotland has been relatively dry since April, an echo of the protracted drought which afflicted catchments draining to the eastern seaboard over much of the 1989-92 period. Provisional data suggest that the Tweed, Forth and North-East RPB areas have, since April, each recorded their lowest 6-month rainfall accumulations for a decade. Northern England has been dry also but the October rainfall was generally close to the average. In much of southern Britain precipitation over the 15 days from the 4th was largely restricted to fog-drip. However, 24-hour rainfall totals exceeding 100 mm were reported on Exmoor and Dartmoor near month-end and 3-day rainfall totals greater than 40 mm were common in southern Britain. This abundant rainfall boosted most October catchment totals to 110-200% of average. Accumulated rainfall totals for the year thus far are close to, or above, average in all regions and notably high over the longer timeframes in southern regions.

# **River Flow**

Limited rainfall and substantial soil moisture deficits in the lowlands extended the 1994 recessions throughout much of October and very modest flow rates were registered around the third week in a number of impervious catchments. Subsequently the extended wet spell triggered a recovery which continued into November and, in the South-West and South Wales produced significant flooding around month-end. On the 30th, the Taw recorded its highest flow since 1981 and many Devon rivers were in spate. Severe localised flooding occurred in the lower Torridge catchment (at Weare Gifford especially) and substantial transport disruption was common in the South-West and South Wales where the River Ely reached exceptional levels. Notwithstanding the large within-month flow range, runoff totals for October were mostly very similar to September and generally well within the normal range, albeit mostly below average - significantly so in Scotland where a few eastern rivers closely approached

their minimum October runoff - continuing a protracted sequence of relatively low flows. The Whiteadder recorded its second lowest May-October runoff total. Conversely flows in many spring-fed rivers in lowland England have remained well above average. For a few, including the Mimram, 14- and 26-month accumulated runoff totals are the highest or near to the highest on record. In the former timeframe runoff is above average for almost all index rivers and exceptionally high for many south-western catchments.

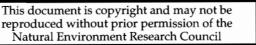
#### Groundwater

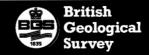
Apart from some minor aquifers in north-eastern Britain, soils in most outcrop areas were close to saturation by the end of October and recent infiltration in much of southern England has been very healthy. However, as a consequence of the lagged response of water-tables to rainfall (which can be many weeks for the deepest acuifers), this infiltration has vet to be reflected in most of the groundwater level hydrographs shown on Figure 2. The date of the latest level reading should be noted when attempting to judge the onset of the 1994 seasonal recovery; this is expected to begin with water-tables at a similar level to last year. October levels in the Chalk were all within the normal range but important regional differences may be recognised: levels in parts of the Yorkshire Wolds, for instance, being relatively depressed whereas many boreholes in East Anglia reported levels substantially above the seasonal mean. Recoveries are well established in some of the more responsive aquifers (eg the Carboniferous Limestone) but October groundwater levels were seasonally low in parts of the Permo-Triassic sandstones, for example in north Wales and southern Scotland. It is expected that November levels will show that recoveries have gathered momentum in all regions.

#### General

With many areas registering the rough equivalent of six weeks average rainfall over the fortnight beginning around the 28th October, the normal autumn transformation in runoff and recharge rates seems likely to repeat the very brisk seasonal recoveries in most of southern Britain in the last two years. Most reservoir stocks have shown notable late October/early November increases and the resources outlook is healthy.







Data for this report have been provided principally by the regional divisions of the National Rivers Authority\* in England and Wales, the River Purification Boards in Scotland and by the Meteorological Office. Reservoir contents information has been supplied by the Water Services Companies, the NRA or, in Scotland, the Lothians Regional Council. The most recent areal rainfall figures are derived from a restricted network of raingauges and a proportion of the river flow data is of a provisional nature.

A map (Figure 3) is provided to assist in the location of the principal monitoring sites.

Financial support towards the production of the Hydrological Summaries is given by the Department of the Environment and the National Rivers Authority.

The Hydrological Summaries are available on annual subscription at a current cost of £48 per year enquiries should be directed to the National Water Archive Office at the address below. No charge is made to those organisations providing data for the Summaries.

\* For reasons of consistency and to provide greater spatial discrimination, the original ten regional divisions of the NRA have been retained for use in the Hydrological Summaries.

#### **MORECS**

Most of the recent monthly regional rainfall data featured in the Hydrological Summaries are MORECS assessments. MORECS is the generic name for The Meteorological Office services involving the calculation of evaporation and soil moisture routinely for Great Britain. Products include a weekly issue of maps and tables of potential and actual evaporation, soil moisture deficits, effective rainfall and the hydrometeorological variables used to calculate them. The data are used to provide values for 40 km squares - or larger areas - and various sets of maps and tables are available according to user requirements. Options include a day-by-day retrospective calculation of soil moisture at any of 4000 rain-gauge sites.

Further information about MORECS services may be obtained from: The Meteorological Office, Sutton House, London Road, Bracknell, RG12 2SY

Tel: 0344 856858 Fax: 0344 854024

Institute of Hydrology/British Geological Survey Maclean Building Crowmarsh Gifford Wallingford Oxfordshire OX10 8BB

TABLE 1 1993/94 RAINFALL AS A PERCENTAGE OF THE 1961-90 AVERAGE

Note: The monthly rainfall figures are the copyright of The Meteorological Office. These data may not be published or passed on to any unauthorised person or organisation.

		Oct 1993	Nov	Dec	Jan 1994	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct
England and	mm	89	74	167	123	82	96	75	61	35	46	70	112	104
Wales	%	105	82	178	140	130	133	125	95	54	74	92	145	122
NRA REGIONS														
North West	mm	51	65	247	159	71	165	151	31	73	67	104	106	124
	%	40	53	199	131	91	174	213	41	90	79	97	92	97
Northumbrian	mm	91	63	136	107	71	84	65	27	39	39	81	73	71
	%	120	73	168	127	120	120	116	44	65	60	100	101	93
Severn Trent	mm	74	67	139	95	71	75	59	55	23	43	53	120	67
	%	116	94	181	136	131	123	107	93	39	81	79	187	105
Yorkshire	mm	62	63	136	116	68	71	61	45	28	52	58	102	74
	%	85	79	164	147	117	104	103	75	47	88	78	150	102
Anglian	mm	90	70	85	73	45	53	52	51	25	41	56	92	67
	%	176	121	155	146	122	113	113	106	49	84	102	187	131
Thames	mm	111	47	105	97	59	51	59	80	25	21	50	79	87
	%	179	72	150	152	131	91	118	143	45	43	86	134	140
Southern	mm	134	63	154	124	64	57	78	91	39	29	69	93	113
	%	168	74	188	155	119	90	147	169	72	60	121	135	142
Wessex	mm	122	63	167	126	100	80	63	90	24	34	68	101	107
	%	154	76	180	145	154	114	119	148	42	65	103	141	135
South West	mm	119	107	263	186	174	125	87	100	32	48	101	124	132
	%	103	86	189	135	172	126	126	139	46	70	120	134	113
Welsh	mm	81	113	275	182	131	184	115	68	57	64	88	140	140
	%	59	80	180	127	135	172	144	83	72	83	87	121	102
Scotland	mm	118	76	234	215	96	250	134	30	110	66	101	102	115
	%	76	50	155	142	94	200	176	35	128	70	86	72	74
RIVER PURIFICAT	ION BOAR	eds.												
Highland	mm	138	67	275	248	74	341	188	39	148	62	112	166	119
	%	70	33	140	132	58	210	207	42	151	58	88	97	60
North East	mm	170	44	115	131	110	106	77	16	56	39	48	84	81
	%	175	44	124	132	169	136	128	23	85	53	55	97	84
Тау	mm	126	77	175	206	117	219	103	22	89	47	81	52	127
	%	97	64	138	143	123	201	166	27	122	61	86	46	98
Forth	mm	107	73	189	161	88	210	83	21	75	55	78	53	99
	%	93	65	172	136	111	223	141	28	109	73	83	48	86
Tweed	mm	135	55	176	141	86	124	71	20	52	42	70	52	74
	%	142	59	189	141	128	157	125	28	80	58	80	58	78
Solway	mm	54	97	269	204	116	195	120	28	79	102	121	78	132
	%	34	67	182	131	115	167	156	33	94	113	102	55	84
Clyde	mm	66	114	306	268	110	301	148	38	141	99	143	84	138
	%	34	63	171	142	93	205	176	42	152	91	107	47	72

Note: The monthly rainfall figures for the NRA regions for September and October correspond to the MORECS areal assessments derived by the Meteorological Office. In northern England these initial assessments may have a particularly wide error band associated with them. The figures for the RPB regions for September and October 1994 were derived by IH in collaboration with the RPBs. The provisional figures for England and Wales and for Scotland are derived using a different raingauge network. Regional areal rainfall figures are regularly updated (normally one or two months in arrears) using figures derived from a far denser raingauge network.

TABLE 2 RAINFALL RETURN PERIOD ESTIMATES

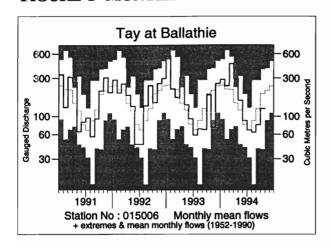
		May94-C	oct94	Jan94-C	Oct94	Se	p93-Oct94	Sep92-Oct94  Est Return Period, years		
			Return I, years		Return I, years		Return d, years			
England and Wales	mm % LTA	427 100	<2	803 113	<u>5-10</u>	1246 118	10-20	2183 112	<u>5-15</u>	
NRA REGIONS	}									
North West	mm % LTA	505 85	2-5	1051 110	<u>2-5</u>	1501 104	<u>2-5</u>	2737 103	<u>2-5</u>	
Northumbria	mm % LTA	330 79	5-10	657 96	2-5	1056 105	<u>2-5</u>	1969 106	<u>2-5</u>	
Severn Trent	mm % LTA	361 99	2-5	661 109	<u>2-5</u>	1037 118	<u>5-15</u>	1816 110	<u>5-10</u>	
Yorkshire	mm % LTA	359 91	2-5	675 103	<u>2-5</u>	1068 111	<u>2-5</u>	1915 107	<u>2-5</u>	
Anglian	mm % LTA	331 109	<u>2-5</u>	554 115	<u>5-10</u>	904 130	<u>50-80</u>	1565 121	40-60	
Thames	mm % LTA	342 101	<u>2-5</u>	608 110	<u>2-5</u>	974 120	<u>10-15</u>	1721 115	<u>10-15</u>	
Southern	mm % LTA	435 120	<u>5-10</u>	758 124	<u>10-15</u>	1232 133	<u>60-90</u>	2038 119	20-35	
Wessex	mm % LTA	<b>424</b> 110	<u>2-5</u>	793 120	<u>5-10</u>	1265 128	<u>30-40</u>	2132 117	10-20	
South West	mm % LTA	537 107	<u>2-5</u>	1109 122	<u>5-15</u>	1766 128	<u>35-50</u>	3022 118	<u>20-35</u>	
Welsh	mm % LTA	556 94	2-5	1168 115	<u>5-10</u>	1755 112	<u>5-10</u>	3113 108	<u>5-10</u>	
Scotlarid	mm % LTA	524 77	10-20	1219 107	<u>2-5</u>	1723 99	2-5	3378 106	<u>5-10</u>	
RIVER PURIFI	CATION BOARDS	3								
Highland	mm % LTA	646 82	5-10	1 <b>497</b> 110	<u>2-5</u>	2029 95	2-5	4077 105	<u>2-5</u>	
North East	mm % LTA	324 68	40-60	748 96	2-5	1161 100	<2	2186 103	<u>2-5</u>	
Тау	mm % LTA	418 73	10-20	1063 108	<u>2-5</u>	1544 105	<u>2-5</u>	3005 111	<u>5-10</u>	
Forth	mm % LTA	381 71	20-30	923 104	<u>2-5</u>	1372 103	<u>2-5</u>	2647 108	<u>5-10</u>	
Tweed	mm % LTA	310 64	40-60	732 93	2-5	1190 103	<u>2-5</u>	2250 106	<u>2-5</u>	
Solway	mm % LTA	540 80	5-10	1175 104	<u>2-5</u>	1697 99	2-5	3206 102	<u>2-5</u>	
Clyde	mm % LTA	643 81	5-10	1470 110	<u>2-5</u>	2031 98	2-5	3955 105	<u>2-5</u>	

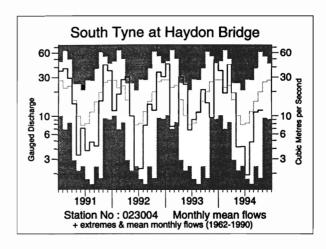
LTA refers to the period 1961-90.

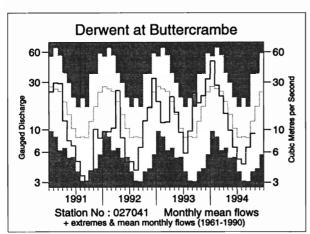
Return period assessments are based on tables provided by the Meteorological Office\*. The tables reflect rainfall totals over the period 1911-70 only and the estimate assumes a sensibly stable climate. They assume a start in a specified month; return periods for a start in any month may be expected to be an order of magnitude less - for the longest durations the return period estimates converge. "Wet" return periods underlined.

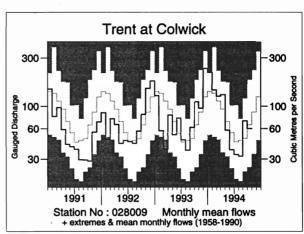
<sup>\*</sup> Tabony, R.C., 1977, The Variability of long duration rainfall over Great Britain, Scientific Paper No. 37, Meteorological Office.

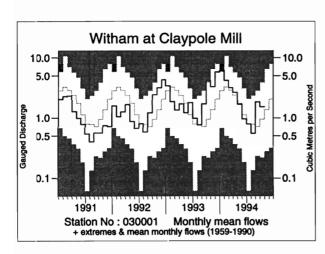
### FIGURE 1 MONTHLY RIVER FLOW HYDROGRAPHS

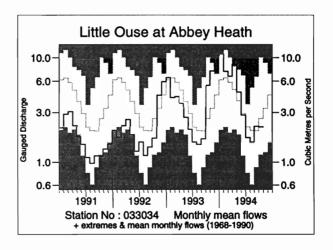


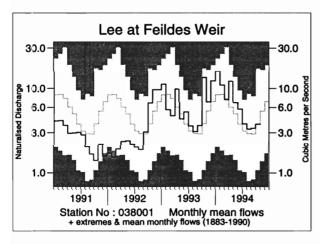


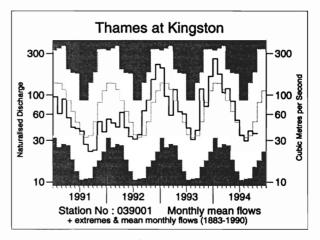


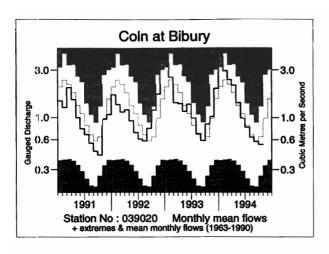


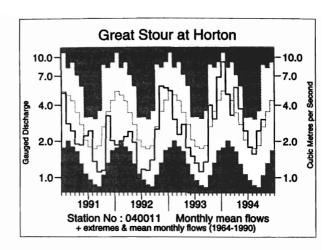


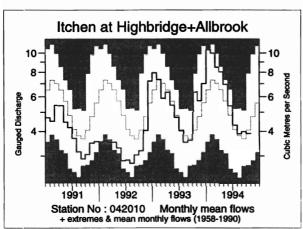


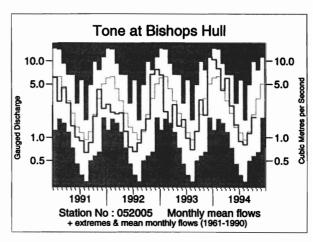


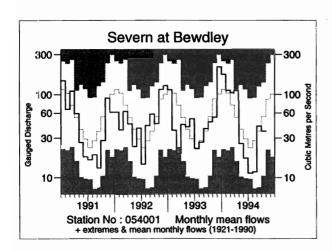


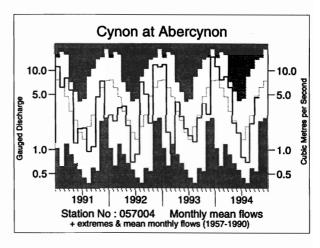


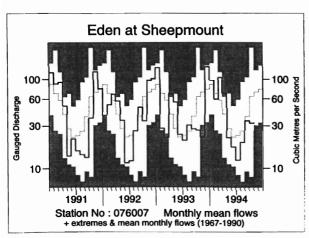


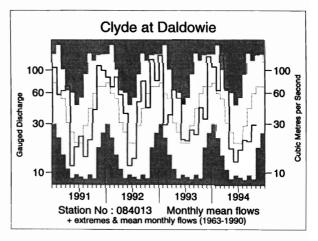












RUNOFF AS MM. AND AS A PERCENTAGE OF THE PERIOD OF RECORD AVERAGE TABLE 3 WITH SELECTED PERIODS RANKED IN THE RECORD

River/ Station name	Jun	Jul	Aug	Sept	Oct		5/9 to		1/9 to		9/93 to		9/9 to	
Station name	1994				1994	1994		94	10/94		10/94		10/94	
	mm	mm	mm	mm	mm	rank	mm	rank	mm	rank	mm	rank	mm	rank
	%LT	%LT	%LT	%LT	%LT	/yrs	%LT	/yrs	%LT	/yrs	%LT	/yrs	%LT	/yrs
Dee at	24	16	12	29	41	6	170	2	618	11	957	13	1796	12
Park	67	57	38	70	52	/22	61	/22	100	/22	104	/21	105	/20
Tay at	50	40	37	45	72	9	338	14	1067	38	1404	27	2870	37
Ballathie	113	99	72	63	65	/43	87	/42	122	/42	106	/41	117	/40
Tweed at	19	16	21	25	33	6	147	5	622	23	950	20	1868	29
Boleside	70	61	55	49	46	/34	58	/34	108	/34	108	/33	114	/3
Whiteadder Water at	9 52	7 54	6 43	6 41	8 28	4 /26	50 43	2 /25	294 95	12 /25	498 114	18 /25	885 107	1
South Tyne at	15	7	17	38	41	7	133	2	542	13	875	15	1683	1
Haydon Bridge	<b>5</b> 6	25	45	. 76	60	/33	54	/31	97	/31	99	/29	101	/2
Wharfe at	15	9	20	44	48	15	154	5	561	26	872	26	1549	1
Flint Mill Weir	59	34	51	99	76	/40	66	/39	104	/39	105	/38	100	/3
Derwent at Buttercrambe	11	9	8	11	15	19	70	7	256	19	417	25	704	1
	67	63	56	82	77	/34	70	/33	100	/33	116	/32	103	/3
Trent at	13	12	12	25	22	22	103	14	318	27	498	32	847	2/3
Colwick	69	75	71	148	92	/37	90	/36	114	/36	126	/35	113	
Lud at	22 112	17 113	13 101	13 122	13 109	21 <i>1</i> 27	111 117	17 /26	313 141	22 /26	436 156	24 /26	629 120	1 /2
Louth Witham at	8	7 102	5 73	16 257	14 157	29 /36	66 119	24 /36	208 135	30 /35	342 169	35 /35	557 145	3
Claypole Mill Little Ouse at	87 10	7	6	8	8	18	58	17	183	22	279	24	429	2
Abbey Heath Coine at	101 5	81	80 3	114	87 7	/27 23	101 31	/27 14	131 122	/26 26	149 206	/26 29	123 358	3
Lexden	87	68	70	101	77	/36	87	/35	115	/35	138	/34	127	/3
Lee at	14	10	9	8	10	75	69	82	185	93	278	98	472	
Feildes Weir (natr.)	152	123	114	117	99	/110	124	/109	141	/108	154	/107	138	/10
Thames at	13	9	8	10	10	52	73	63	247	90	353	93	672	
Kingston (natr.)	107 24	98 20	92 16	113 14	73 13	/112 12	104 123	/112 17	127 405	/112 28	132 515	/111 =25	131 1013	/11
Bibury	93	97	96	98	82	/32	97	/31 22	123 289	/31	121	/30	123	12
Great Stour at Horton	18 120	14 98	12 92	18 136	24 118	21 /31	116 118	/29	126	24 /28	406 125	23 /27	667 109	/2 /2
Itchen at	39	32	29	29	29	23	209	26	474	35	641	33	1097	13
Highbridge+Allbrook	114	106	104	110	97	/37	110	/36	123	/36	124	/35	113	
Piddle at	28	19	16	16	19	20	142	25	468	30	647	29	1087	72
Baggs Mill	122	108	102	104	94	/32	114	/31	140	/30	146	/29	129	
Otter at	20	16	16	20	28	20	140	19	436	27	683	30	1094	/3
Dotton	93	83	85	96	85	/33	97	/32	118	/32	128	/31	108	
Taw at	12	6	5	32	66	23	145	17	686	35	1101	34	1845	3
Umberleigh	75	37	26	133	108	/37	87	/36	143	/36	140	/35	126	/3
Tone at	19	12	11	15	24	21	115	21	480	32	711	32	1168	2
Bishops Hull	110	78	88	96	92	/34	101	/34	133	/33	138	/33	119	/3
Severn at	10	7	7	25	22	29	88	16	391	54	607	60	1033	4
Bewdley	59	50	42	116	68	/74	69	<i>1</i> 74	117	/73	120	/73	108	
Teme at	6	2	2	17	11	11	48	5	285	14	459	19	802	1
Knightsford Bridge	42	29	22	195	57	/25	62	/25	104	/24	117	/24	107	
Cynon at	40	20	18	52	116	20	302	15	1123	29	1727	29	3119	2
Abercynon	101	60	34	,78	97	/37	81	/35	125	/35	120	/33	116	
Dee at New Inn	65 113	24 37	51 55	126 96	158 81	10 /26	465 76	4 /25	1456 111	20 /25	2176 103	15 /25	3872 99	1/2
Eden at Sheepmount	20 79	14 55	23 76	39 91	38 52	6 /25	159 74	4 /24	537 105	16 /24	785 101	13 /22	1554 106	1 /2
Clyde at	18	24	29	27	41	5	163	3	686	26	1016	19	2013	2'
Daldowie	67	87	72	47	51	/32	62	/31	118	/31	110	/30	118	
Carron at New Kelso	183 250	35 30	80 47	186 68	129 49	3 /16	670 70	/31 2 /16	1870 97	10 /16	2414 79	1 /15	5312 93	
Ewe at	124	66	58	132	217	13	717	9	1725	19	2187	4	5041	/1
Poolewe	170	78	52	67	98	/24	92	/24	109	/24	85	/23	106	

Notes:

<sup>(</sup>i)

<sup>(</sup>ii)

Values based on gauged flow data unless flagged (natr.), when naturalised data have been used.

Values are ranked so that lowest runoff is rank 1.

%LT means percentage of long term average from the start of the record to 1992. For the long periods (at the right of this table), the end date for the long term is 1993. (iii)

TABLE 4 START-MONTH RESERVOIR STORAGES UP TO NOVEMBER 1994

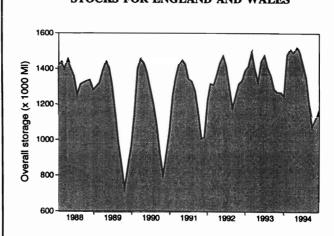
Area	Reservoir (R)/ Group (G)		Capacity ● (Ml)	1994 June	July	Aug	Sept	Oct	Nov	1993 Nov
North West	N.Command Zone <sup>1</sup>	(G)	133375	85	73	59	52	55	50	42
	Vyrnwy	(R)	55146	87	79	66	61	69	65	60
Northumbria	Teesdale <sup>2</sup>	(G)	87936	83	72	54	46	51	53	77
	Kielder	(R)	199175*	92*	93*	89*	92*	89*	90*	87*
Severn-Trent	Clywedog	(R)	44922	93	93	77	61	70	82	82
	Derwent Valley <sup>3</sup>	(G)	39525	90	78	60	43	53	64	83
Yorkshire	Washburn <sup>4</sup>	(G)	22035	89	68	53	40	42	52	68
	Bradford supply <sup>5</sup>	(G)	41407	83	66	49	38	48	57	86
Anglian	Grafham	(R)	58707	96	94	88	83	88	89	96
	Rutland	(R)	130061	95	93	89	86	87	86	88
Thames	London <sup>6</sup>	(G)	207569	88	86	83	77	83	85	92
	Farmoor <sup>7</sup>	(G)	13843	98	95	98	96	97	99	98
Southern	Bewl	(R)	28170	100	98	92	88	86	83	81
	Ardingly	(R)	4685	100	100	93	85	82	80	100
Wessex	Clatworthy	(R)	5364	84	85	68	54	48	53	76
	Bristol W 8	(G)	38666*	94*	85*	71*	61*	55*	52*	59*
South West	Colliford	(R)	28540	96	87	78	68	69	70	86
	Roadford <sup>9</sup>	(R)	34500	92	87	79	67	65	66	81
	Wimbleball <sup>10</sup>	(R)	21320	99	92	77	60	57	64	80
	Stithians	(R)	5205	93	82	69	57	50	50	99
Welsh	Celyn + Brenig	(G)	131155	97	94	78	66	71	75	92
	Brianne	(R)	62140	96	90	81	72	71	83	91
	Big Five <sup>11</sup>	(G)	69762	93	89	70	58	62	66	80
	Elan Valley <sup>12</sup>	(G)	99106	95	91	77	62	67	83	95
Lothian	Edin./Mid Lothian	(G)	97639	93	84	79	73	71	69	82
Louisan	West Lothian	(G)	5613	93 91	77	64	52	45	38	82 98
	East Lothian	(G)	10206	95	86	76	66	56	56 57	
	Last Louissii	(0)	10200	93	60	70	00	30	31	98

• Live or usable capacity (unless indicated otherwise)

\* Gross storage/percentage of gross storage

- 1. Includes Haweswater, Thirlmere, Stocks and Barnacre.
- Cow Green, Selset, Grassholme, Balderhead, Blackton and Hurynn.
- 3. Howden, Derwent and Ladybower.
- 4. Swinsty, Fewston, Thruscross and Eccup.
- The Nidd/Barden group (Scar House, Angram, Upper Barden, Lower Barden and Chelker) plus Grimwith.
- Lower Thames (includes Queen Mother, Wraysbury, Queen Mary, King George VI and Queen Elizabeth II) and Lee Valley (includes King George and William Girling) groups -pumped storages.
- 7. Farmoor 1 and 2 pumped storages.
- 8. Blagdon, Chew Valley and others.
- 9. Roadford began filling in November 1989.
- Shared between South West (river regulation for abstraction) and Wessex (direct supply).
- Usk, Talybont, Llandegfedd (pumped stroage), Taf Fechan, Taf Fawr.
- 12. Claerwen, Caban Coch, Pen y Garreg and Craig Goch.

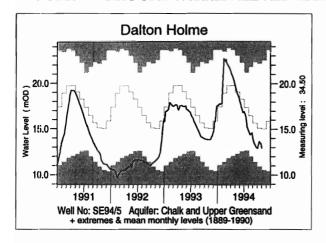
# A GUIDE TO THE VARIATION IN OVERALL RESERVOIR STOCKS FOR ENGLAND AND WALES

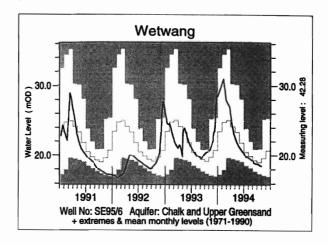


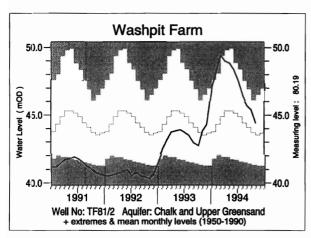
This plot is based on the reservoirs featured in Table 4 only.

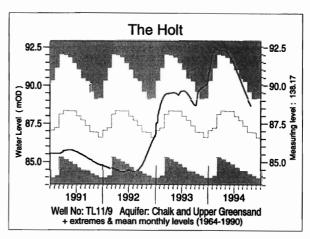
Note: Variations in storage depend on the balance between inputs (from catchment rainfall and any pumping) and outputs (to supply, compensation flow, HEP, amenity). There will be additional losses due to evaporation, especially in the summer months. Operational strategies for making the most efficient use of water stocks will further affect reservoir storages. Table 4 provides a link between the hydrological conditions described elsewhere in the report and the water resources situation.

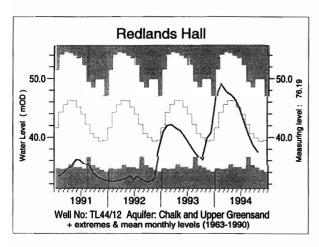
#### FIGURE 2 GROUNDWATER LEVEL HYDROGRAPHS

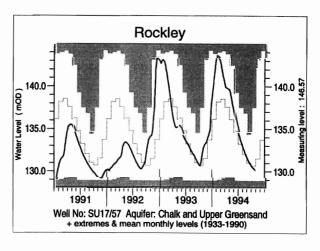


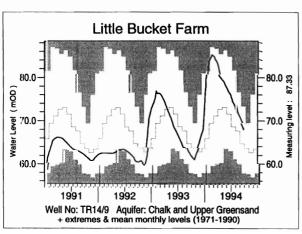


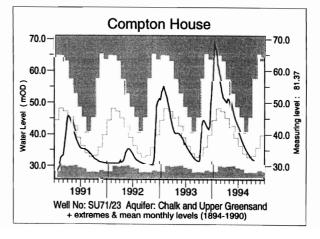


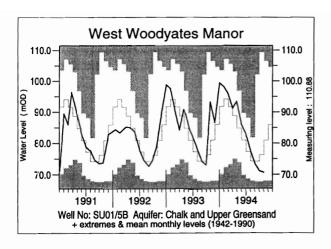


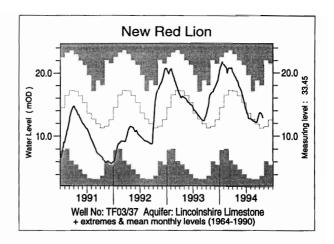


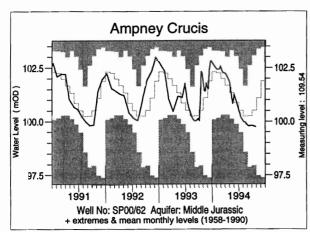


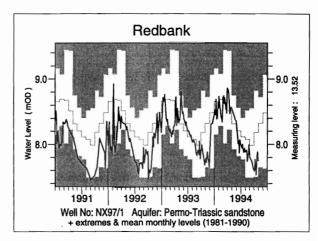


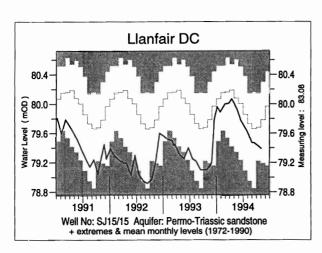


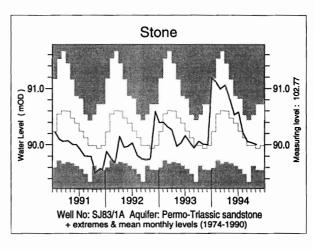


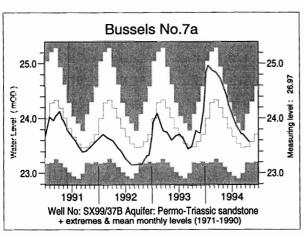












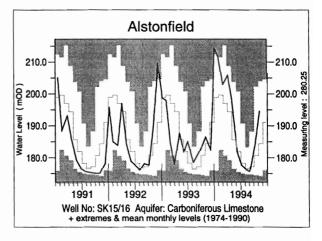


TABLE 5 A COMPARISON OF OCTOBER GROUNDWATER LEVELS: 1993 AND 1994

Site	Aquifer	Records commence	Minimum Oct	Average Oct	Maximum Oct	Octo		Oct/N	Tov 994
			< 1994	<1994	<1994	day	level	day	level
Dalton l-Iolme	C & UGS	1889	10.86	15.07	22.12	31/10	13.82	01/11	12.93
Wetwang	C & UGS	1971	17.26	19.17	20.80	31/10	20.62	01/11	18.47
Washpit Farm	C & UGS	1950	40.43	43.45	46.09	06/10	42.73	01/11	44.41
The Holt	C & UGS	1964	84.19	87.00	89.65	31/10	89.65	24/10	88.67
Therfield Rectory	C & UGS	1883	dry <71.6	79.20	97.72	31/10	77.24	01/11	79.80
Redlands Hall	C & UGS	1964	32.29	39.10	49.90	07/10	36.01	28/10	37.43
Rockley	C & UGS	1933	dry <128.44	130.73	137.35	31/10	132.69	24/10	130.17
Little Bucket Farm	C & UGS	1971	57.48	63.62	69.33	30/10	62.72	28/10	65.7
Farm									
Compton House	C & UGS	1984	27.64	33.57	57.30	27/10	44.08	21/10	31.8
Chilgrove House	C & UGS	1836	33.88	42.37	75.90	27/10	55.16	21/10	39.1
Westdean No.3	C & UGS	1940	1.11	1.55	3.68	28/10	1.64	28/10	1.5
Lime Kiln Way	C & UGS	1969	123.75	124.84	125.53	06/10	124.08	06/10	125.3
Ashton Farm	C & UGS	1974	63.48	65.21	69.12	28/10	69.12	31/10	64.7
West Woodyates Manor	C & UGS	1942	67.72	75.59	109.40	28/10	93.12	31/10	70.6
Killyglen (NI)	C & UGS	1985	113.30	114.84	117.55	31/10	113.81	16/10	113.5
New Red Lion	LLst	1964	3.82	11.52	17.98	25/10	16.44	24/10	12.9
Ampney Crucis	Mid Jur	1958	97.95	100.49	103.05	31/10	101.81	24/10	99.7
Yew Tree Farm	PTS	1973	11.54	13.27	13.73	29/10	13.43	02/11	13.5
Llanfair D.C	PTS	1972	78.98	79.53	80.15	26/10	79.10	02/11	79.3
Morris Dancers	PTS	1969	31.83	32.51	33.55	04/10	31.96	11/10	32.4
Weeford Flats	PTS	1966	dry <88.61	89.89	91.38	05/10	89.06	08/11	89.7
Stone	PTS	1974	89.50	89.99	90.54	04/10	90.06	08/11	90.0
Skirwith	PTS	1978	129.51	129.93	130.29	28/10	129.94	09/11	130.0
Redbank	PTS	1981	7.47	8.12	8.82	27/10	7.68	31/10	7.7
Bussels No.7A	PTS	1972	23.16	23.49	24.07	26/10	23.77	27/10	23.5
Rushyford NE	MgLst	1967	64.82	72.26	76.41	22/10	75.93	27/10	76.1
Peggy Ellerton	MgLst	1968	31.46	33.90	36.38	06/10	31.88	10/10	33.0
Alstorifield	CLst	1974	174.35	180.39	202.28	01/10	182.89	07/11	194.0

groundwater levels are in metres above Ordnance Datum

C & UGS LLst

PTS

Chalk and Upper Greensand Lincolnshire Limestone Permo-Triassic sandstones Mid Jur MgLst CLst Middle Jurassic limestones Magnesian Limestone Carboniferous Limestone

Note: Table 5 has been redesigned to include both monthly minimum and monthly maximum levels.

