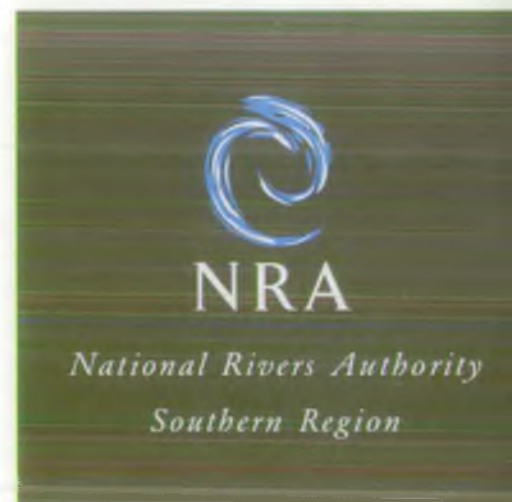


RIVER CATCHMENT MANAGEMENT PLANS DATA REPORT



River Catchment Management Plans Data Report 1993

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The information contained in this report has been compiled in good faith but its accuracy cannot be guaranteed by the Authority.

1	2
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The photographs on the front cover are from the following catchments

1	Itchen	2	Test
3	Arun	4	Medway

National Rivers Authority Information Centre Head Office	
Class No
Accession No	<u>ARRI</u>

Introduction

River Catchment Management Plans (RCMPs) are being prepared by the National Rivers Authority (NRA) to provide a framework for

- Presenting the NRA's vision for improving the water environment

- Integrating the management of the NRA's functions

- Seeking public input into the implementation of NRA policy.

It is intended that this document will supplement Southern Region's Catchment Management Plans by presenting key statistics for each catchment which, when combined, summarise the Region as a whole. The Data Report will be updated in future years.

NRA Southern Region has been divided nominally into 13 catchment areas. Some of these are based on a single major river system such as the Itchen, while others group together a number of rivers and streams such as the Meon, West Hampshire and Adur/Ouse catchments. Taken all together, the 13 catchment areas form a complete mosaic across the Region.

The catchment management plan boundaries represent topographical catchments. However, in some catchment areas it has been necessary to include chalk blocks where the sub-surface boundary is not coincident with the surface RCMP boundary. An example of this is the Worthing chalk block which has been incorporated in the Arun RCMP.

The combined data for the Region is presented first. This is followed by the data for the individual catchments (in alphabetical order). Generally, the Regional total represents the sum of the individual catchments. There are however a few exceptions to this in the Conservation figures. Simple maps show the catchment's major rivers, main towns and significant sub-catchment resource areas. The appendix lists sources of information, clarifies terms and abbreviations and highlights points for consideration when referring to the statistics.

The information presented is by no means comprehensive. The selection has been chosen to provide a broad over-view for each catchment area and the Region. Greater detail is provided in the respective Catchment Management Plan Consultation Reports and Final Action Plans.

Catchment Management Plan Consultation Reports and Final Action Plans that have been published or are nearing completion are shown in the table below.

Catchment Name	Consultation Report	Final Action Plan
Test	yes	early 1993/94
Medway	yes	early 1993/94
Itchen	yes	1993/94
Darent	1993/94	
Stour	1993/94	
Eastern Rother	1993/94	

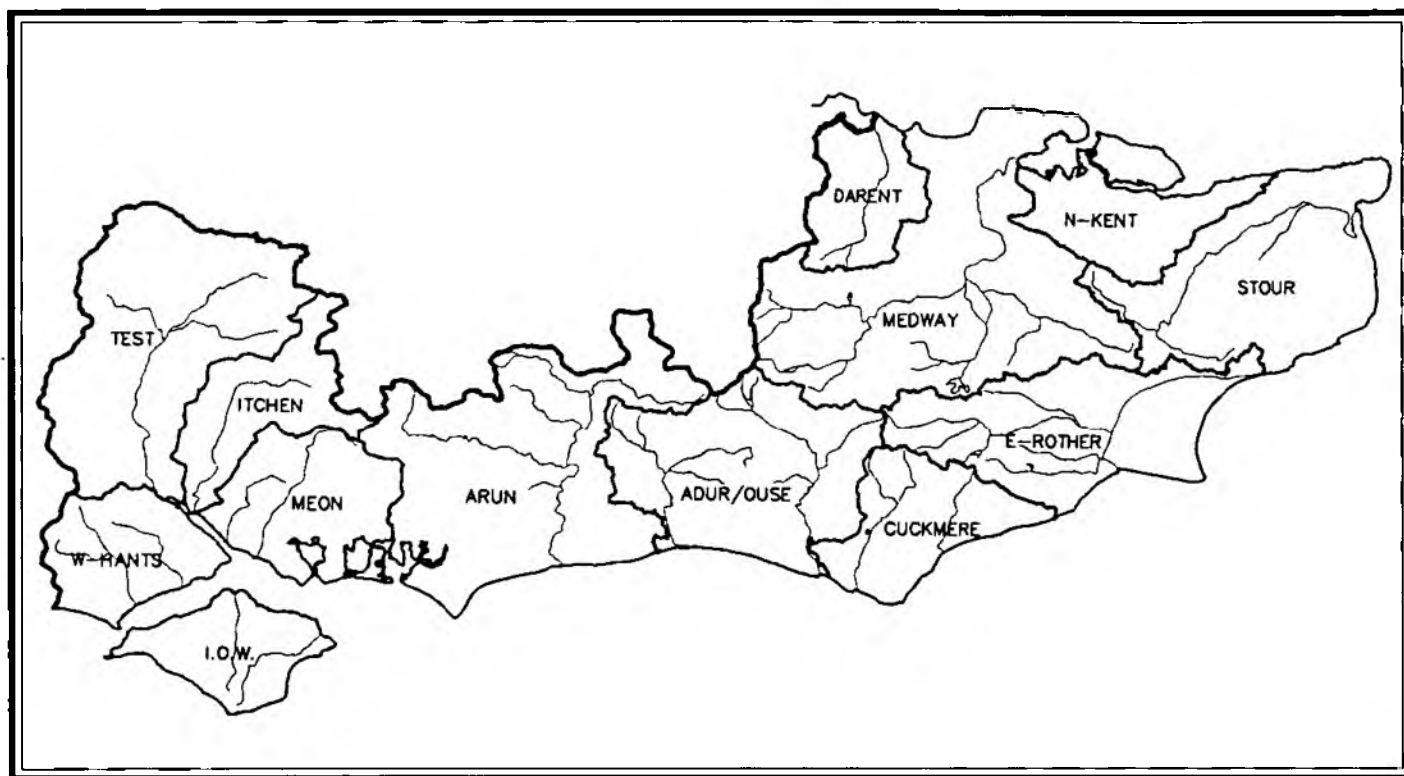
The remaining Catchment Management Plans will be produced over the period 1993/94 to 1997/98.

Further information may be obtained from Southern Region's Headquarters at the following address:

Catchment Management Plan Co-ordinator
National Rivers Authority, Southern Region
Guildbourne House
Chatsworth Road
Worthing
West Sussex
BN11 1LD

Telephone: 0903 820692

Southern Region



Regional Area 10 979 km²

Geology

Geological strata are all sedimentary and relatively young, ranging in age from the topmost formation of the Jurassic series, the Purbeck Beds in the Weald, to recent deposits of peat and alluvium. High quality Chalk is a major feature of the Region and forms the most important aquifer.

Topography

The North and South Downs form the main topographical features together with the Weald in the South East and the Hampshire Basin in the West.

Maximum: 297 m AOD Test Catchment
Minimum: 0 m AOD All Catchments

Resident Population

1991 estimate: 4.6 m
2001 estimate: 4.8 m

1991 holiday trips to Region 10.5 m

Longest River in Region

River Medway 110 km Source - Sheerness

ADMINISTRATION

County Council	Persons per ha	Area (km ²) in Region	% of Region
Kent	4.0	3755	34.2
Hampshire	4.1	2617	23.8
West Sussex	3.5	1853	16.9
East Sussex	3.8	1801	16.4
Isle of Wight	3.3	386	3.5
Surrey	6.1	267	2.4
Wiltshire	1.6	184	1.7
Greater London	42.3	106	1.0
Berkshire	5.8	9	0.1
Dorset	2.4	0.75	0.0

51 District/Borough/City Councils (all or part) in Southern Region

Main Towns and population (1991)

Southampton 199860, Portsmouth 180950, Brighton 143600, Chatham/Rochester/Strood 129700, Margate/Ramsgate 125000, Havant 104200, Worthing 96960, Gillingham 95200, Maidstone 90000, Hove 85360, Eastbourne 81400, Hastings 80820.

WATER RESOURCES

Rainfall (weighted av. mm/yr)	Annual	Effective
Average	790	290
1 in 10 yr drought	620	160

Total authorised abstraction (MI) 1 695 055

% Auth. abst. from GW 52%

% Auth. abst. high/med loss 66%

Actual abstraction (MI) 674328

Water Supply Reservoirs

	Area (ha)	Volume (Gross Mm ³)	Reliable yield (MI/d)
8 reservoirs			
combined total	787	61905	213.5

Water Companies

	Area (km ²) in Region	% of Region
--	--------------------------------------	-------------

Southern Water	4208	38.3
Mid Kent	2031	18.5
South East Water, Mid Sussex	966	8.8
Portsmouth	873	7.9
South East Water, Eastbourne	789	7.2
Thames Water	419	3.8
Folkestone & Dover	414	3.8
South East Water, Mid Southern	307	2.8
East Surrey	264	2.4
Bournemouth & West Hants	262	2.4
South East Water, West Kent	237	2.2
Wessex Water	209	1.9

(Southern Water = SWS and South East Water = SEW)

37 Resource Areas in Southern Region

FLOOD DEFENCE

		Length (km)
Coastline	to Schedule 4	796.6
	inc. main tidal waters	1123.7

Main River including tidal lengths 2648.9

Sea Defences	NRA responsibility	143.80
	LA responsibility	41.72
	Other responsibility	10.93

Tidal Banks NRA responsibility 411.60

16 Internal Drainage Districts in Southern Region

WATER QUALITY

Length of Freshwater River in NWC Class (km)

Class	Objective	Achieved
		1990 survey
1A Good	340.3	500.1
1B Good	1178.9	1043.4
2 Fair	704.9	514.2
3 Poor	2.0	150.3
4 Bad	0	18.1
Total	2226.1	2226.1

Number of EC Designated Bathing Waters 67

STWs - Discharges to	Number	Volume (m ³ /d)
River	682	414100
Estuary	73	341046
Sea	5	9980
Total	760	765126

FISHERIES

Length of EC Designated Fisheries (km):

	Freshwater	Tidal
Cyprinid	399.68	30.2
Salmonid	268.76	4.5

CONSERVATION

National Nature Reserves	15
Sites of Special Scientific Interest (SSSIs)	353
Water dependent SSSIs	258
Ramsar and/or Special Protection	
Areas (designated and proposed)	16
Environmentally Sensitive Areas	3

RECREATION AND NAVIGATION

Harbour of Rye NRA responsibility

Length of towpath (km) 52 approx.

Length of inland navigation (km)	89.1
NRA maintained	54.8
LA/Other maintained	34.3

Number of NRA maintained locks 10 Medway
1 E Rother

Adur and Ouse



Catchment Area 1072.69 km²

Geology

North - predominantly Weald Clay, Central - Gault Clay and Greensand, South - Chalk.

Topography

Maximum: 248 m AOD

Minimum: 0 m AOD

Resident Population

1991 estimate: 500000

2001 estimate: 511000

Main Rivers and Streams

R Adur, R Ouse, Chess Str, Cockhaise Brook, Shell Brook, Clayhill Str, Bevern Str, R Uck, Pellingford Str, Glynde Reach, Longford Str, Herrings Str, Pookbourne Str.

ADMINISTRATION

East Sussex County Council

562 km² within catchment

52.4 % of total catchment area

District	Persons per ha	Area (km ²) in catchment	% Catchment area
Brighton	25.1	66	6.2
Hove	35.7	23	2.1
Lewes	3.0	264	24.6
Wealden	1.6	209	19.5

West Sussex County Council

510.7 km² within catchment

47.6 % of total catchment area

District	Persons per ha	Area (km ²) in catchment	% Catchment area
Adur	13.9	26	2.4
Horsham	2.1	244	22.8
Mid Sussex	3.6	241	22.4

Main Towns and population (1991)

Brighton 143600, Burgess Hill 25670, Cuckfield 2660, Haywards Heath 22640, Hove 85360, Lewes 15380, Newhaven 10210, Shoreham/Southwick/Portslade 32000.

WATER RESOURCES

Rainfall (mm/year)	Annual	Effective
Average	838	347
1 in 10 yr drought	659	190

	Adur (A)	Ouse (B)	Chalk (C)
Auth abst (Ml)	1610	24049	42052

% from GW	80%	15%	95%
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% high/med loss	97%	96%	96%
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Actual abst (Ml)	626	15350	35667
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River Flow (cumecs)	Q50	Q95
Adur, East	0.45	0.15
Adur, West	0.27	0.02
Ouse	1.91	0.31

Water Supply Reservoirs

	Area (ha)	Volume (Gross Mm ³)	Reliable yield (Ml/d)
Ardingly	73	5206	53.65 }
Barcombe Mills	16	546	combined }

Water Companies	Area (km ²) in catchment	% Catchment area
SEW, Mid Sussex	623	58
SWS Sussex (Coast)	247	23
SWS Sussex (West)	168	16
SEW, Eastbourne	35	3

Resource Areas

Name	Number	Area (km ²)
Seaford Chalk (part)	19	19.8
River Ouse	21	469.1
Brighton Chalk	22	197.7
River Adur (part)	23	376.6
Worthing Chalk (part)	24	9.5

FLOOD DEFENCE

		Length (km)
Coastline	to Schedule 4	40.2
	including main tidal waters	40.2

Main River	including tidal lengths	290.5
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Sea Defences	NRA responsibility	13.15
	LA responsibility	0

Tidal Banks	NRA responsibility	92.1
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Internal Drainage Districts	Area (km ²)
River Adur	17.37
River Ouse	55.16

WATER QUALITY

Length of Freshwater River in NWC Class (km)

Class	Objective	Achieved 1990 survey
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Adur		
1A Good	0	0
1B Good	34.7	30.1
2 Fair	53.9	43.2
3 Poor	0	15.3
4 Bad	0	0
Adur Total	88.6	88.6

Ouse		
1A Good	1.0	14.0
1B Good	120.2	72.5
2 Fair	24.5	51.2
3 Poor	0	8.0
4 Bad	0	0
Ouse Total	145.7	145.7

Number of EC Designated Bathing Waters	5
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STWs - Discharges to	Number	Volume (m ³ /d)
River	123	33320
Estuary	6	7618
Sea	0	0

FISHERIES

Length of EC Designated Fisheries (km):

	Freshwater	Tidal
Cyprinid	77.33	6.27
Salmonid	0	0

CONSERVATION

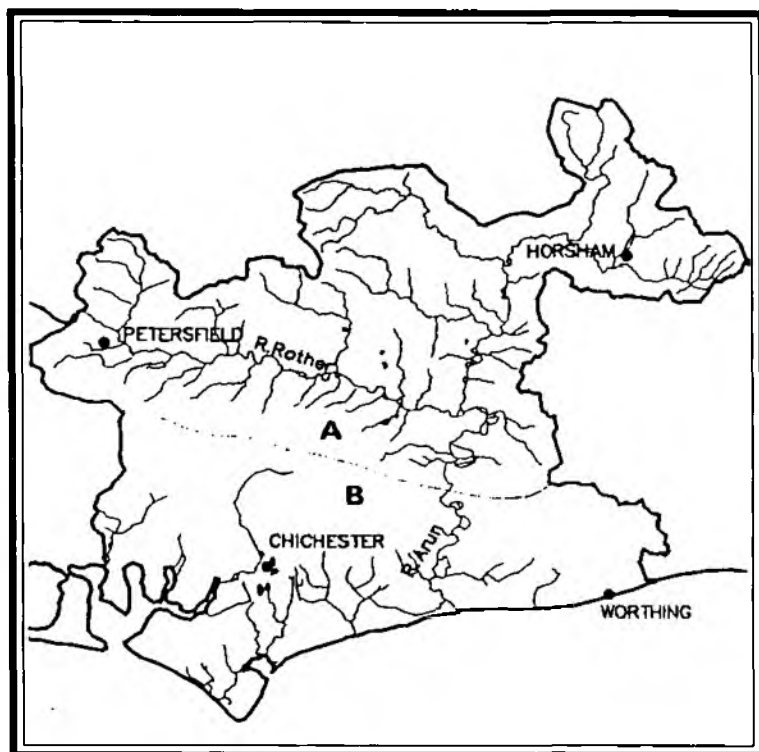
National Nature Reserves	2
Sites of Special Scientific Interest (SSSIs)	25
Water dependent SSSIs	13
Ramsar and/or Special Protection Areas (designated and proposed)	0
Environmentally Sensitive Areas	South Downs

RECREATION AND NAVIGATION

Length of towpath (km)	0
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Length of inland navigation (km)	0
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Arun



Catchment Area 1484.02 km²

Geology

North - predominantly Weald Clay, Central - Chalk and Greensand, South - Tertiary deposits and Chalk.

Topography

Maximum: 294 m AOD
Minimum: 0 m AOD

Resident Population

1991 estimate: 480000
2001 estimate: 520000

Main Rivers and Streams

R Arun, Chichester Canal, Loxwood Str, R Lavant, R Lod, R Ems, R Rother, R Chilt, Ferring Rife.

ADMINISTRATION

West Sussex County Council

1289.2 km² within catchment
86.8 % of total catchment area

District	Persons per ha	Area (km ²) in catchment	% Catchment area
Adur	13.9	18	1.2
Arun	5.9	227	15.3
Chichester	1.3	748	50.4
Horsham	2.0	258	17.4
Mid Sussex	3.6	5	0.3
Worthing	29.6	33	2.2

Surrey County Council

116.0 km² within catchment
7.9 % of total catchment area

District	Persons per ha	Area (km ²) in catchment	% Catchment area
Mole Valley	3.1	49	3.3
Waverley	3.3	66	4.5
Guildford	4.5	1	0.1

Hampshire County Council

78.8 km² within catchment
5.3 % of total catchment area

District	People per ha	Area (km ²) in catchment	% Catchment area
E Hampshire	2.0	79	5.3

Main Towns and population (1991)

Arundel 3260, Billingshurst 5910, Bognor Regis 20605, Chichester 25675, Horsham 40960, Littlehampton 24290, Midhurst 4790, Petersfield 12690, Worthing 96960.

WATER RESOURCES

Rainfall (mm/year)	Annual	Effective
Average	862	354
1 in 10 yr drought	671	204

	Arun (A)	Chalk (B)
Auth abst (MI)	87041	90047
(37843 MI from Arun (A) is used for a Water Wheel. This is not reflected in the actual abstraction figure.)		

% from GW	51%	97%
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% high/med loss	48%	81%
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Actual abst (MI)	25797	54036
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River Flow (cumecs)	Q50	Q95
R Arun	1.26	0.32

Water Supply Reservoirs	None	
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Water Companies	Area (km ²) in catchment	% Catchment area
SWS Sussex (West)	653	44
Portsmouth	430	29
SWS Sussex (Coast)	167	11
SEW, Mid Southern	111	7.5
Thames Water	91	6
East Surrey	28	2
SEW, Mid Sussex	4	0.5

Resource Areas	Number	Area (km ²)
Name		
River Adur (part)	23	2.8
Worthing Chalk (part)	24	162.2
River Arun	25	482.0
Western Rother	26	355.2
Chichester Chalk	27	481.8

FLOOD DEFENCE

Coastline	Length (km)
to Schedule 4	142.5
including main tidal waters	142.5

Main River	including tidal lengths	408.27
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Sea Defences	NRA responsibility	18.81
	LA responsibility	13.74

Tidal Banks	NRA responsibility	65.1
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Internal Drainage Districts	Area (km ²)
River Arun	33.04
South West Sussex	50.05

WATER QUALITY

Length of Freshwater River in NWC Class (km)		
Class	Objective	Achieved 1990 survey

Arun		
1A Good	5.3	22.0
1B Good	122.1	97.5
2 Fair	76.2	65.9
3 Poor	0	18.2
4 Bad	0	0
Arun Total	203.6	203.6

Chalk (Sussex Rifles)		
1A Good	0	2.3
1B Good	3.1	7.7
2 Fair	29.7	9.0
3 Poor	0	12.1
4 Bad	0	1.7
Chalk Total	32.8	32.8

Number of EC Designated Bathing Waters	9
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STWs - Discharges to	Number	Volume (m ³ /d)
River	128	51287
Estuary	8	670
Sea	0	0

FISHERIES

Length of EC Designated Fisheries (km):		
	Freshwater	Tidal
Cyprinid	73.87	0
Salmonid	57.55	0

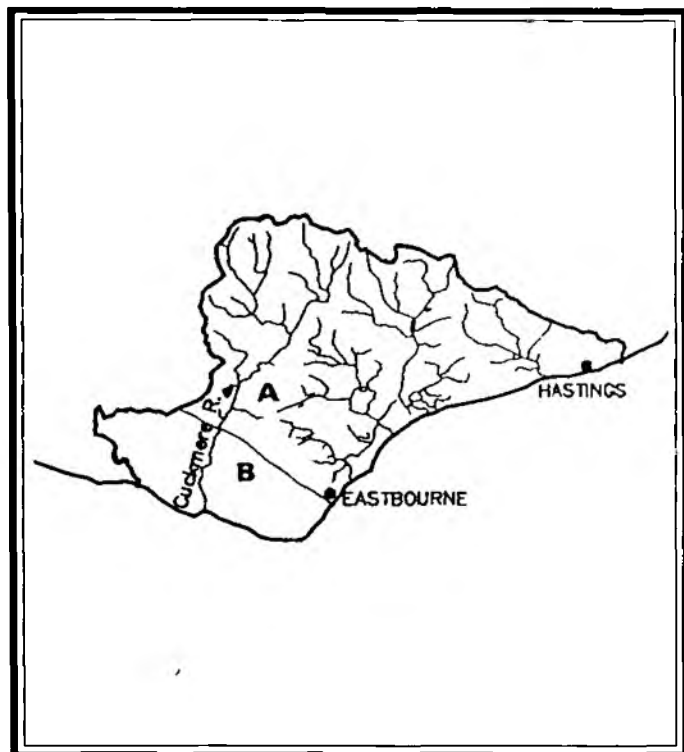
CONSERVATION

National Nature Reserves	1
Sites of Special Scientific Interest (SSSIs)	55
Water dependent SSSIs	28
Ramsar and/or Special Protection Areas (designated and proposed)	3
Environmentally Sensitive Areas	South Downs

RECREATION AND NAVIGATION

Length of towpath (km)		6
Length of inland navigation (km)		partial - 27
Chichester Canal	LA/Other maintained (km)	6
Wey & Arun Canal	LA/Other maintained (km)	
	- proposed restoration	21
	- already restored (of 21km)	7

Cuckmere and Pevensey Levels



Catchment Area 527.49 km²

Geology

North East - Hastings Beds and Weald Clay, recent deposits in marsh areas, South West - Chalk with minor Gault Clay and Greensand.

Topography

Maximum: 183 m AOD
Minimum: 0 m AOD

Resident Population

1991 estimate: 259000
2001 estimate: 287000

Main Rivers and Streams

Cuckmere R, Wallers Haven, Bull R, Huggletts Str, Combe Haven, Powdermill Str, East Str, Pevensey Haven.

ADMINISTRATION

East Sussex County Council

527.5 km² within catchment

100 % of total catchment area

District	Persons per ha	Area (km ²) in catchment	% Catchment area
Eastbourne	18.4	49	9.3
Hastings	27.2	29	5.6
Lewes	3.0	36	6.7
Rother	1.6	95	18.1
Wealden	1.6	318	60.3

Main Towns and population (1991)

Bexhill 38905, Eastbourne 81400, Hailsham 17940, Hastings 80820, Heathfield 10680, Seaford 20930.

WATER RESOURCES

Rainfall (mm/year)	Annual	Effective
Average	808	325
1 in 10 yr drought	637	180

	Cuckmere (A)	Chalk (B)
Auth abst (MI)	19634	19392
% from GW	31%	100%
% high/med loss	89%	98%
Actual abst (MI)	4347	22066

River Flow (cumecs)	Q50	Q95
Cuckmere R	0.40	0.07
Wallers Haven	0.28	0.09

Water Supply Reservoirs

	Area (ha)	Volume (Gross Mm ³)	Reliable yield (MI/d)
Arlington	49	3546	19.8

Water Companies	Area (km ²) in catchment	% Catchment area
SEW, Eastbourne	462.5	88
SEW, Mid Sussex	37.0	7
SWS Sussex (East)	28.0	5

Resource Areas

Name	Number	Area (km ²)
Pevensey Levels	18	274.7
Seaford Chalk (part)	19	106.1
River Cuckmere	20	146.7

FLOOD DEFENCE

		Length (km)
Coastline	to Schedule 4	51.6
	including main tidal waters	51.6

Main River	including tidal lengths	209.72
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Sea Defences	NRA responsibility	12.95
	LA responsibility	3.63

Tidal Banks	NRA responsibility	15.4
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Internal Drainage Districts	Area (km ²)
River Cuckmere	7.47
Pevensey Levels	67.14

WATER QUALITY

Length of Freshwater River in NWC Class (km)

Class	Objective	Achieved 1990 survey
1A Good	0	7.6
1B Good	53.4	50.2
2 Fair	62.5	47.0
3 Poor	0	11.1
4 Bad	0	0
Total	115.9	115.9

Number of EC Designated Bathing Waters	6
--	---

STWs - Discharges to	Number	Volume (m ³ /d)
River	27	26212
Estuary	2	149
Sea	0	0

FISHERIES

Length of EC Designated Fisheries (km):

	Freshwater	Tidal
Cyprinid	40.56	0
Salmonid	10.8	0

CONSERVATION

National Nature Reserves	2
Sites of Special Scientific Interest (SSSIs)	20
Water dependent SSSIs	16
Ramsar and/or Special Protection Areas (designated and proposed)	1
Environmentally Sensitive Areas	South Downs

RECREATION AND NAVIGATION

Length of towpath (km)	0
------------------------	---

Length of inland navigation (km)	0
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Darent



Catchment Area 400.96 km²

Geology

North and Central - Chalk, North West - Tertiary deposits,
South - Greensand and Gault Clay.

Topography

Maximum: 251 m AOD
Minimum: 0 m AOD

Resident Population

1991 estimate: 417000
2001 estimate: 422000

Main Rivers and Streams

R Darent, R Cray, R Shuttle.

ADMINISTRATION

Kent County Council

290.5 km² within catchment
72.4 % of total catchment area

District	Persons per ha	Area (km ²) in catchment	% Catchment area
Dartford	10.9	53	13.3
Sevenoaks	3.0	228	56.8
Tonbridge	4.2	9	2.3

Greater London

105.8 km² within catchment
26.4 % of total catchment area

District	Persons per ha	Area (km ²) in catchment	% Catchment area
Bexley	35.6	32	7.9
Bromley	19.1	64	16.0
Greenwich	43.6	10	2.5

Surrey County Council

4.7 km² within catchment
1.2 % of total catchment area

District	Persons per ha	Area (km ²) in catchment	% Catchment area
Tandridge	3.1	5	1.2

Main Towns and population (1991)

Bexley 19600, Dartford 62400, Gillingham 95200,
Orpington 44160, Sevenoaks 21100, Sidcup 20300.

WATER RESOURCES

Rainfall (mm/year)	Annual	Effective
Average	655	191
1 in 10 yr drought	515	50

Auth abst (Ml) 101086

% from GW 96%

% high/med loss 99%

Actual abst (Ml) 70834

River Flow (cumecs)	Q50	Q95
R Darent	0.46	0.02

Water Supply Reservoirs None

Water Companies	Area (km ²) in catchment	% Catchment area
Thames Water	262	65
Mid Kent	60	15
SEW, West Kent	50	13
SWS Kent (Medway)	18	4
East Surrey	11	3

Resource Areas Name	Number	Area (km ²)
Darent & Cray	37	401.0

FLOOD DEFENCE

Coastline	Length (km)
to Schedule 4	0
including main tidal waters	9.2

Main River including tidal lengths 78.7

Sea Defences NRA responsibility 0
LA responsibility 0

Tidal Banks NRA responsibility 13.1

Internal Drainage Districts Area (km²)
Commissioned Area West of Gravesend 6 approx.

WATER QUALITY

Length of Freshwater River in NWC Class (km)		
Class	Objective	Achieved 1990 survey
1A Good	0	13.4
1B Good	38.2	45.7
2 Fair	20.9	0
3 Poor	0	0
4 Bad	0	0
Total	59.1	59.1

Number of EC Designated Bathing Waters 0

STWs - Discharges to	Number	Volume (m ³ /d)
River	11	141
Estuary	0	0
Sea	0	0

FISHERIES

Length of EC Designated Fisheries (km):		
	Freshwater	Tidal
Cyprinid	51.64	0
Salmonid	0	0

CONSERVATION

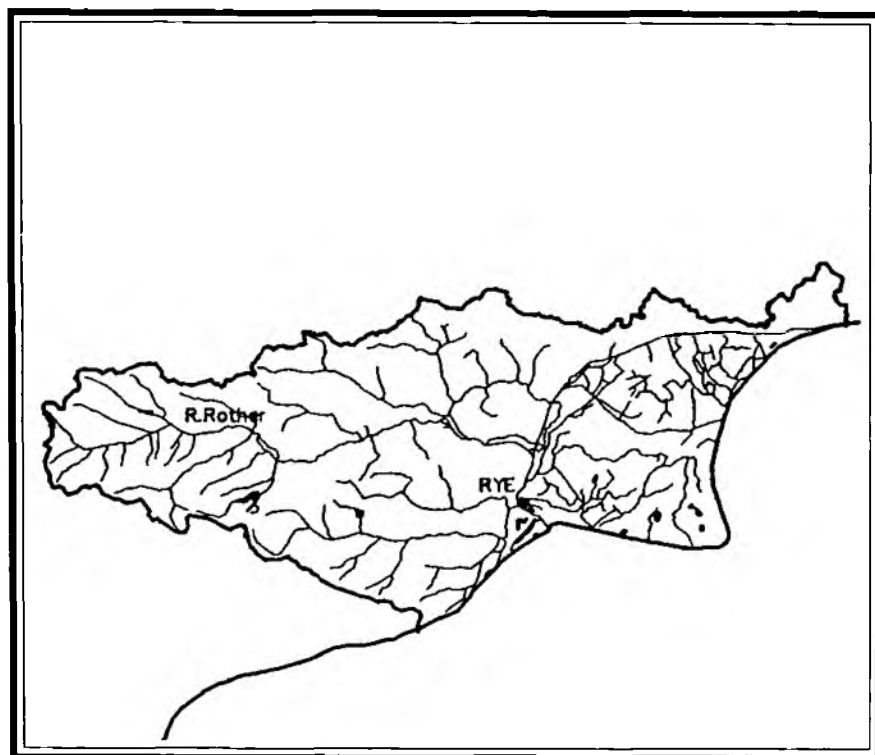
National Nature Reserves	0
Sites of Special Scientific Interest (SSSIs)	19
Water dependent SSSIs	18
Ramsar and/or Special Protection Areas (designated and proposed)	0
Environmentally Sensitive Areas	-

RECREATION AND NAVIGATION

Length of towpath (km) 0

Length of inland navigation (km) 0

Eastern Rother



Catchment Area 970.83 km²

Geology

Hastings Beds and Weald Clay, recent deposits in marsh areas.

Topography

Maximum: 197 m AOD
Minimum: 0 m AOD

Resident Population

1991 estimate: 170000
2001 estimate: 188000

Main Rivers and Streams

Eastern Rother, Royal Military Canal, R Brede, R Tillingham, R Dudwell, R Darwell, New Sewer, Clobdsen Sewer.

ADMINISTRATION

East Sussex County Council

489.2 km² within catchment
50.4 % of total catchment area

District	Persons per ha	Area (km ²) in catchment	% Catchment area
Hastings	27.2	5	0.5
Rother	1.6	406	41.8
Wealden	1.6	78	8.0

Kent County Council

481.6 km² within catchment
49.6 % of total catchment area

District	Persons per ha	Area (km ²) in catchment	% Catchment area
Ashford	1.6	191	19.6
Shepway	2.6	223	23.0
Tunbridge Wells	3.0	68	7.0

Main Towns and population (1991)

Battle 5730, Hythe 18000, Lydd 5309, New Romney 6204, Rye 4210, Tenterden 5700.

WATER RESOURCES

Rainfall (mm/year)	Annual	Effective
Average	754	246
1 in 10 yr drought	596	133

Auth abst (MI) 76494

% from GW 70%

% high/med loss 41%

Actual abst (MI) 28148

River Flow (cumecs)	Q50	Q95
E Rother	0.9	0.21

Water Supply Reservoirs

	Area (ha)	Volume (Gross Mm ³)	Reliable yield (MI/d)
Darwell	73	4728	21.9
Powdermill	21	856	2.1

Water Companies	Area (km ²) in catchment	% Catchment area
Mid Kent	363	37
SEW, Eastbourne	280	29
SWS Sussex (East)	137	14
Folkestone & Dover	132	14
SEW, Mid Sussex	59	6

Resource Areas

Name	Number	Area (km ²)
Romney Marsh	15	206.7
Lower Rother	16	558.8
Upper Rother	17	205.3

FLOOD DEFENCE

	Length (km)
Coastline to Schedule 4	55.2
including main tidal waters	55.2

Main River including tidal lengths 324.0

Sea Defences NRA responsibility 39.97
LA responsibility 0

Tidal Banks NRA responsibility 10.8

Internal Drainage Districts	Area (km ²)
Denge Southbrooks	37.59
Romney Marsh Levels	105.03
Pett Level	34.01
Rother	65.92
Walland Marsh	89.16

WATER QUALITY

Length of Freshwater River in NWC Class (km)

Class	Objective	Achieved 1990 survey
1A Good	40.6	11.1
1B Good	120.3	111.8
2 Fair	44.7	51.5
3 Poor	1.0	24.7
4 Bad	0	7.5
Total	206.6	206.6

Number of EC Designated Bathing Waters 6

STWs - Discharges to	Number	Volume (m ³ /d)
River	82	13760
Estuary	1	1180
Sea	1	2700

FISHERIES

Length of EC Designated Fisheries (km):

	Freshwater	Tidal
Cyprinid	27.9	10.04
Salmonid	3.5	0

CONSERVATION

National Nature Reserves	1
Sites of Special Scientific Interest (SSSIs)	21
Water dependent SSSIs	18
Ramsar and/or Special Protection Areas (designated and proposed)	1
Environmentally Sensitive Areas	-

RECREATION AND NAVIGATION

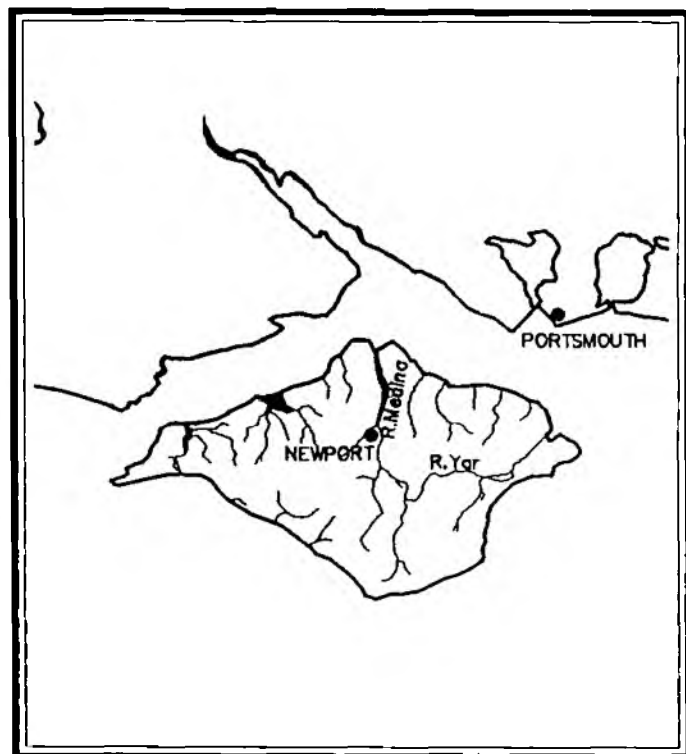
Harbour of Rye NRA responsibility

Length of towpath (km) 0

Length of inland navigation (km)	31.1
Royal Military Canal (Iden Lock - Seabrook Outfall)	
NRA maintained	23.8
LA/Other maintained	7.3

NRA maintained locks 1 - Scots Float

Isle of Wight



Catchment Area 386.54 km²

Geology

North - predominantly Tertiary deposits, Central - Chalk and minor Greensand, South - Wadhurst Clay and Ashdown Beds with minor Chalk and Greensand.

Topography

Maximum: 236 m AOD
Minimum: 0 m AOD

Resident Population

1991 estimate: 127000
2001 estimate: 135400

Main Rivers and Streams

R Medina, E Yar, W Yar.

ADMINISTRATION

Isle of Wight County Council
386.5 km² within catchment
100 % of total catchment area

District	Persons per ha	Area (km ²) in catchment	% Catchment area
Medina	6.1	117	30.2
South Wight	2.0	270	69.8

Main Towns and population (1991)

Cowes 19920, Newport 25035, Ryde 26150, Sandown/
Shanklin 17760, Ventnor 5980.

WATER RESOURCES

Rainfall (mm/year)	Annual	Effective
Average	850	361
1 in 10 yr drought	662	203

Auth abst (MI) 29372

% from GW 65%

% high/med loss 85%

Actual abst (MI) 12506

River Flow (cumecs)	Q50	Q95
R Medina	0.19	0.08
Lukely Brook	0.04	0.01
E Yar	0.34	0.13

Water Supply Reservoirs None

Water Companies	Area (km ²)	% Catchment
	in catchment	area
SWS IoW	386.5	100

Resource Areas	Number	Area (km ²)
Name		
Isle of Wight	36	386.5

FLOOD DEFENCE

		Length (km)
Coastline	to Schedule 4	127.5
	including main tidal waters	127.5
Main River	including tidal lengths	114.27
Sea Defences	NRA responsibility	0.5
	LA responsibility	1.44
Tidal Banks	NRA responsibility	1.0
Internal Drainage Districts		None

WATER QUALITY

Length of Freshwater River in NWC Class (km)		
Class	Objective	Achieved
		1990 survey
1A Good	0	20.3
1B Good	51.5	38.1
2 Fair	36.0	16.5
3 Poor	0	12.6
4 Bad	0	0
Total	87.5	87.5

Number of EC Designated Bathing Waters 13

STWs - Discharges to	Number	Volume (m ³ /d)
River	20	3257
Estuary	5	12415
Sea	3	7160

FISHERIES

Length of EC Designated Fisheries (km):		
	Freshwater	Tidal
Cyprinid	14.28	0
Salmonid	0	0

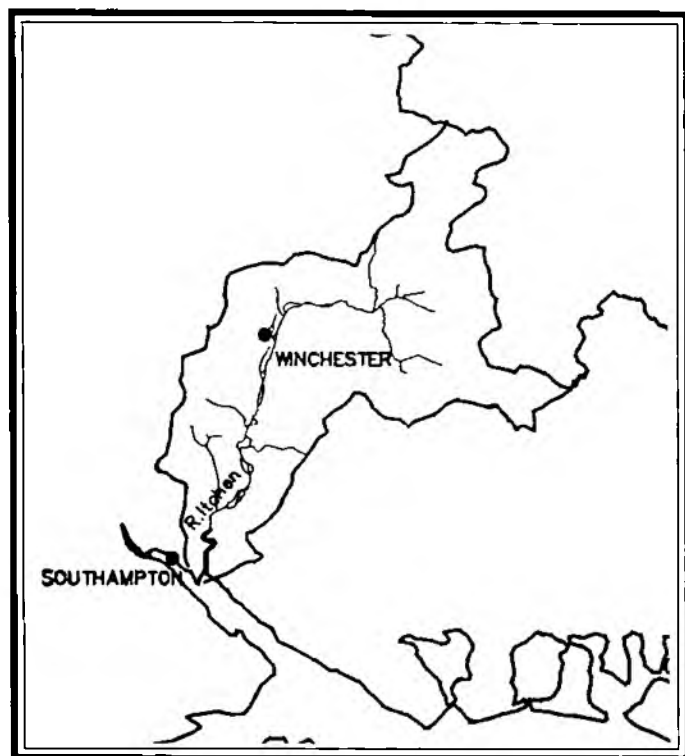
CONSERVATION

National Nature Reserves	0
Sites of Special Scientific Interest (SSSIs)	40
Water dependent SSSIs	20
Ramsar and/or Special Protection	
Areas (designated and proposed)	0
Environmentally Sensitive Areas	-

RECREATION AND NAVIGATION

Length of towpath (km)	0
Length of inland navigation (km)	0

Itchen



Catchment Area 473.0 km²

Geology

North - predominantly Chalk, South - Tertiary deposits.

Topography

Maximum: 234 m AOD

Minimum: 0 m AOD

Resident Population

1991 estimate: 240000

2001 estimate: 242000

Main Rivers and Streams

R Itchen, Candover Str, R Alre, Cheriton Str, Monks Brook, Bow Lake, Allington Lane Str, Sholing Common Str, Weston Common Str.

ADMINISTRATION

Hampshire County Council

473.0 km² within catchment

100 % of total catchment area

District	Persons per ha	Area (km ²) in catchment	% Catchment area
Basingstoke	2.3	41	8.7
East Hampshire	2.0	53	11.1
Eastleigh	13.3	46	9.7
Southampton	39.5	28	6.0
Test Valley	1.6	15	3.1
Winchester	1.5	290	61.3

Main Towns and population (1991)

Eastleigh 53905, Southampton (part) 199860, Winchester 29465.

WATER RESOURCES

Rainfall (mm/year)	Annual	Effective
Average	870	404
1 in 10 yr drought	678	196

Auth abst (Ml) 230748

% from GW 40%

% high/med loss 33%

Actual abst (Ml) 76025

River Flow (cumecs)	Q50	Q95
R Itchen	4.81	2.94

Water Supply Reservoirs None

Water Companies	Area (km ²) in catchment	% Catchment area
SWS Hants	364	77
SEW, Mid Southern	90	19
Portsmouth	19	4

Resource Areas Name	Number	Area (km ²)
River Meon (part)	29	24.2
Lower Itchen (part)	31	288.3
Upper Itchen (part)	32	158.9
Upper Test (part)	34	1.6

FLOOD DEFENCE

		Length (km)
Coastline	to Schedule 4 including main tidal waters	0 7.3
Main River	including tidal lengths	105.7
Sea Defences	NRA responsibility LA responsibility	0 0
Tidal Banks	NRA responsibility	0
Internal Drainage Districts		None

WATER QUALITY

Length of Freshwater River in NWC Class (km)		
Class	Objective	Achieved 1990 survey
1A Good	60.6	79.4
1B Good	30.8	16.2
2 Fair	6.3	2.1
3 Poor	0	0
4 Bad	0	0
Total	97.7	97.7

Number of EC Designated Bathing Waters 0

STWs - Discharges to	Number	Volume (m ³ /d)
River	8	44969
Estuary	2	42700
Sea	0	0

FISHERIES

Length of EC Designated Fisheries (km):		
	Freshwater	Tidal
Cyprinid	0	0
Salmonid	51.13	0

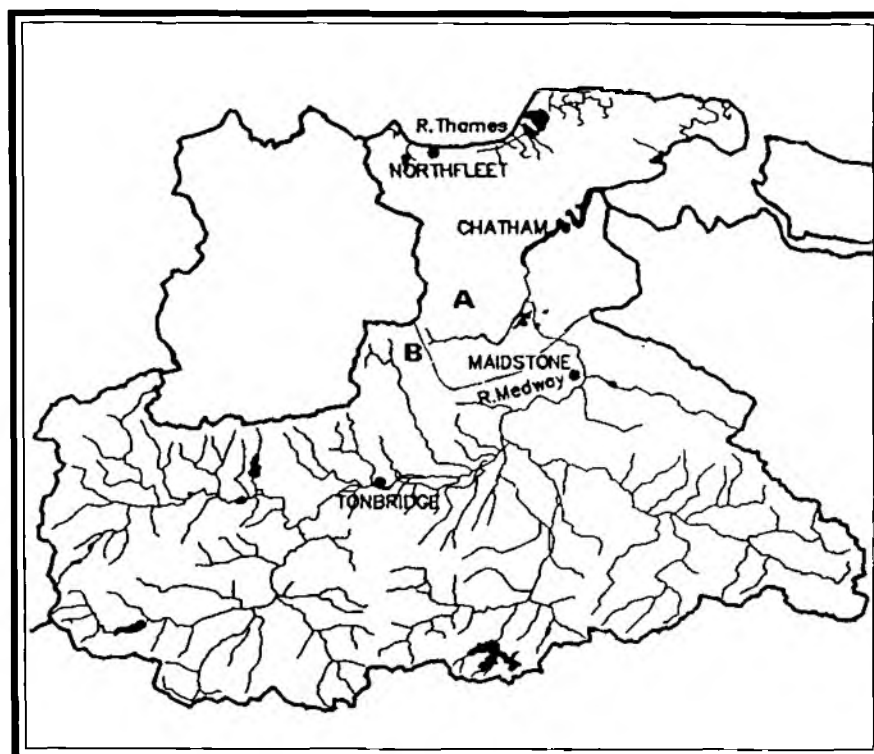
CONSERVATION

National Nature Reserves	0
Sites of Special Scientific Interest (SSSIs)	10
Water dependent SSSIs	10
Ramsar and/or Special Protection Areas (designated and proposed)	1
Environmentally Sensitive Areas	-

RECREATION AND NAVIGATION

Length of towpath (km)	15 approx.
Length of inland navigation (km)	0

Medway



Catchment Area 1780.99 km²

Geology

North - Chalk, Gault Clay and Greensand
Central - Weald Clay, South - Hastings Beds.

Topography

Maximum: 277 m AOD
Minimum: 0 m AOD

Resident Population

1991 estimate: 734000
2001 estimate: 755000

Main Rivers and Streams

R Medway, R Teise, R Beult, R Bourne,
R Eden, R Len, Lesser Teise, Edenbrook.

ADMINISTRATION

Kent County Council

1372.0 km² within catchment
77.0 % of total catchment area

District	Persons per ha	Area (km ²) in catchment	% Catchment area
Ashford	1.6	133	7.5
Dartford	10.9	16	0.9
Gillingham	29.4	12	0.7
Gravesham	9.3	102	5.7
Maidstone	3.5	309	17.4
Rochester	9.1	164	9.2
Sevenoaks	3.0	144	8.1
Tonbridge	4.2	229	12.8
Tunbridge Wells	3.0	263	14.7

East Sussex County Council

222.2 km² within catchment
12.5 % of total catchment area

District	Persons per ha	Area (km ²) in catchment	% Catchment area
Rother	1.6	13	0.7
Wealden	1.6	209	11.7

Surrey County Council

146.8 km² within catchment
8.2 % of total catchment area

District	Persons per ha	Area (km ²) in catchment	% Catchment area
Tandridge	3.1	147	8.2

West Sussex County Council

40.0 km² within catchment
2.3 % of total catchment area

District	Persons per ha	Area (km ²) in catchment	% Catchment area
Mid Sussex	3.6	40	2.3

Main Towns and population (1991)

Chatham/Rochester/Strood 129700, Crowborough 19120,
East Grinstead 23955, Gravesend/Northfleet 70900,
Maidstone 90000, Swanscombe 6000, Tonbridge 34900,
Tunbridge Wells 56300.

WATER RESOURCES

Rainfall (mm/year)	Annual	Effective
Average	729	235
1 in 10 yr drought	571	145

	Estuary (A)	Upper M (B)
Auth abst (Ml)	133549	187729

% from GW	52%	24%
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% high/med loss	56%	95%
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Actual abst (Ml)	74489	36371
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River Flow (cumecs)	Q50	Q95
R Medway	4.79	1.49

Reservoirs	Area (ha)	Volume (Gross Mm ³)	Reliable yield (Ml/d)
Bowl Water	312	31300	75
Bough Beech	130	10100	27
Weir Wood	113	5623	14

Water Companies	Area (km ²) in catchment	% Catchment area
Mid Kent	822	46
SWS Kent (Medway)	270	15
SEW, Mid Sussex	243	14
East Surrey	225	13
SEW, West Kent	186	10
Thames Water	24	1
SEW, Eastbourne	11	1

Resource Areas	Number	Area (km ²)
Medway Estuary	1	335.5
Medway (middle)	2	380.8
Eden	3	222.8
Medway (upper)	4	253.1
Teise	5	227.8
Beult	6	294.3
West Swale (part)	7	66.7

FLOOD DEFENCE

		Length (km)
Coastline	to Schedule 4	12.0
	including main tidal waters	119.4

Main River	including tidal lengths	259.74
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Sea Defences	NRA responsibility	7.14
	LA responsibility	0.42

Tidal Banks	NRA responsibility	80.7
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Internal Drainage Districts	Area (km ²)
Commissioned Areas E & W of Gravesend	≈ 42
Lower Medway	19.20
Upper Medway	139.13

WATER QUALITY

Length of Freshwater River in NWC Class (km)		
Class	Objective	Achieved 1990 survey

1A Good	23.7	51.1
1B Good	312.2	204.3
2 Fair	60.1	108.6
3 Poor	0.2	24.8
4 Bad	0	7.4
Total	396.2	396.2

Number of EC Designated Bathing Waters	0
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STWs - Discharges to	Number	Volume (m ³ /d)
River	164	140903
Estuary	11	42709
Sea	0	0

FISHERIES

Length of EC Designated Fisheries (km):		
	Freshwater	Tidal
Cyprinid	87.2	0
Salmonid	0	0

CONSERVATION

National Nature Reserves	2
Sites of Special Scientific Interest (SSSIs)	49
Water dependent SSSIs	40
Ramsar and/or Special Protection Areas (designated and proposed)	2
Environmentally Sensitive Areas	North Kent Marshes

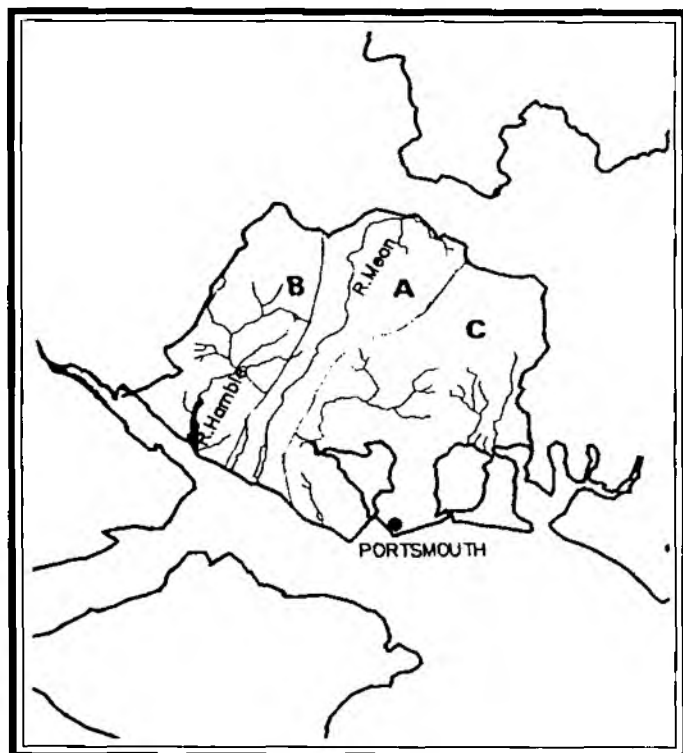
RECREATION AND NAVIGATION

Length of towpath (km)	31
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Length of inland navigation (km)	31
Medway (Allington Lock - Leigh Barrier)	
NRA maintained	31

NRA maintained locks	10
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Meon, Hamble and Portsmouth



Catchment Area 570.99 km²

Geology

North - predominantly Chalk, South - Tertiary deposits.

Topography

Maximum: 248 m AOD

Minimum: 0 m AOD

Resident Population

1991 estimate: 589000

2001 estimate: 605000

Main Rivers and Streams

R Meon, R Hamble, R Wallington.

ADMINISTRATION

Hampshire County Council

557.5 km² within catchment

97.6 % of total catchment area

District	Persons per ha	Area (km ²) in catchment	% Catchment area
E Hampshire	2.0	83	14.5
Eastleigh	13.3	34	6.0
Fareham	13.4	79	13.9
Gosport	34.1	27	4.8
Havant	21.7	55	9.7
Portsmouth	41.6	39	6.9
Southampton	39.5	1	0.2
Winchester	1.5	239	41.8

West Sussex County Council

13.5 km² within catchment

2.4 % of total catchment area

District	Persons per ha	Area (km ²) in catchment	% Catchment area
Chichester	1.3	14	2.4

Main Towns and population (1991)

Fareham 33165, Gosport 79750, Havant 104200, Hayling Island 15510, Horndean 11960, Portsmouth 180950.

WATER RESOURCES

Rainfall (mm/year)	Annual	Effective
Average	850	369
1 in 10 yr drought	662	205

	Meon (A)	Hamble (B)	Ports. (C)
Auth abst (MI) 19903	12223	60088	
% from GW	82%	95%	99%
% high/med loss	53%	99%	97%
Actual abst (MI) 9163	5259	28181	

River Flow (cumecs)	Q50	Q95
R Meon	0.70	0.19
R Hamble	0.27	0.09

Water Supply Reservoirs	None
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Water Companies	Area (km ²) in catchment	% Catchment area
Portsmouth	425	74
SWS Hants	114	20
SEW, Mid Southern	32	6

Resource Areas	Number	Area (km ²)
Name		
Wallington	28	301
Meon (part)	29	102.5
Hamble	30	147.7
Lower Itchen (part)	31	19.8

FLOOD DEFENCE

		Length (km)
Coastline	to Schedule 4	142.4
	including main tidal waters	165.3
Main River	including tidal lengths	160.0
Sea Defences	NRA responsibility	2.95
	LA responsibility	8.61
Tidal Banks	NRA responsibility	23.8
Internal Drainage Districts		None

WATER QUALITY

Length of Freshwater River in NWC Class (km)		
Class	Objective	Achieved 1990 survey

Meon		
1A Good	0	24.4
1B Good	38.2	13.8
2 Fair	0	0
3 Poor	0	0
4 Bad	0	0
Meon Total	38.2	38.2

Hamble		
1A Good	0	10.4
1B Good	0	25.8
2 Fair	58.1	16.9
3 Poor	0	5.0
4 Bad	0	0
Hamble Total	58.1	58.1

Portsmouth etc.		
1A Good	0	5.9
1B Good	0	44.8
2 Fair	65.3	13.1
3 Poor	0	0
4 Bad	0	1.5
Portsmouth Total	65.3	65.3

Number of EC Designated Bathing Waters	7
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STWs - Discharges to	Number	Volume (m ³ /d)
River	19	6386
Estuary	7	136237
Sea	0	0

FISHERIES

Length of EC Designated Fisheries (km):		
	Freshwater	Tidal
Cyprinid	0	0
Salmonid	24.42	0

CONSERVATION

National Nature Reserves	2
Sites of Special Scientific Interest (SSSIs)	25
Water dependent SSSIs	16
Ramsar and/or Special Protection Areas (designated and proposed)	2
Environmentally Sensitive Areas	South Downs

RECREATION AND NAVIGATION

Length of towpath (km)	0
Length of inland navigation (km)	0

North Kent



Catchment Area 530.05 km²

Geology

North - recent deposits in marsh areas and Tertiary deposits, South - predominantly Chalk.

Topography

Maximum: 171 m AOD

Minimum: 0 m AOD

Resident Population

1991 estimate: 226000

2001 estimate: 234000

Main Rivers and Streams

Swalecliffe Brook and minor streams feeding to the Swale and Medway Estuary.

ADMINISTRATION

Kent County Council

530.1 km² within catchment
100 % of total catchment area

District	Persons per ha	Area (km ²) in catchment	% Catchment area
Ashford	1.6	18	3.4
Canterbury	4.0	56	10.5
Gillingham	29.4	22	4.1
Maidstone	3.5	64	12.2
Swale	3.1	370	69.8

Main Towns and population (1991)

Faversham 15800, Herne Bay 31900, Sheerness 31000, Sittingbourne 38200, Whitstable 29800.

WATER RESOURCES

Rainfall (mm/year)	Annual	Effective
Average	665	200
1 in 10 yr drought	523	48

Auth abst (Ml) 49470

% from GW 97%

% high/med loss 96%

Actual abst (Ml) 33607

River Flow (cumecs)	Q50	Q95
No significant rivers	-	-

Water Supply Reservoirs None

Water Companies	Area (km ²) in catchment	% Catchment area
Mid Kent	345	65
SWS Kent (Medway)	185	35

Resource Areas	Number	Area (km ²)
Name		
West Swale (part)	7	159.2
East Swale (part)	8	370.9

FLOOD DEFENCE

Coastline	Length (km)
to Schedule 4	69.6
including main tidal waters	198.2

Main River including tidal lengths 55.66

Sea Defences	NRA responsibility	20.01
	LA responsibility	3.38

Tidal Banks NRA responsibility 71.55

Internal Drainage Districts	Area (km ²)
Lower Medway	127.11

WATER QUALITY

Length of Freshwater River in NWC Class (km)		
Class	Objective	Achieved 1990 survey
1A Good	0	0
1B Good	3.5	0
2 Fair	6.7	3.5
3 Poor	0	6.7
4 Bad	0	0
Total	10.2	10.2

Number of EC Designated Bathing Waters 4

STWS - Discharges to	Number	Volume (m ³ /d)
River	3	7170
Estuary	5	36671
Sea	1	120

FISHERIES

Length of EC Designated Fisheries (km):		
	Freshwater	Tidal
Cyprinid	0	0
Salmonid	0	0

CONSERVATION

National Nature Reserves	2
Sites of Special Scientific Interest (SSSIs)	12
Water dependent SSSIs	11
Ramsar and/or Special Protection Areas (designated and proposed)	3
Environmentally Sensitive Areas	North Kent Marshes

RECREATION AND NAVIGATION

Length of towpath (km) 0

Length of inland navigation (km) 0

Stour and East Kent



Catchment Area 1080.77 km²

Geology

North - Tertiary deposits, South - predominantly Chalk with minor Gault Clay and Greensand.

Topography

Maximum: 205 m AOD
Minimum: 0 m AOD

Resident Population

1991 estimate: 452000
2001 estimate: 476400

Main Rivers and Streams

Great Stour, Little Stour, Nailbourne, R Dour, Wingham R, East Stour, Aylesford Str, Sarre Penn.

ADMINISTRATION

Kent County Council

1080.8 km² within catchment
100 % of total catchment area

District	Persons per ha	Area (km ²) in catchment	% Catchment area
Ashford	1.6	236	21.8
Canterbury	4.0	252	23.4
Dover	3.3	321	29.7
Maidstone	3.5	17	1.5
Shepway	2.6	141	13.0
Swale	3.1	6	0.6
Thanet	12.0	108	10

Main Towns and population (1991)

Ashford 54200, Canterbury 45600, Deal 29100, Dover 42600, Folkestone 40500, Margate/Broadstairs/Ramsgate 125000, Sandwich 4730.

WATER RESOURCES

Rainfall (mm/year)	Annual	Effective
Average	730	246
1 in 10 yr drought	575	125
	Thanet Chalk 40	

Auth abst (MI) 134056

% from GW 84%

% high/med loss 88%

Actual abst (MI) 62448

River Flow (cumecs)	Q50	Q95
R Stour	3.34	1.56
R Dour	0.32	0.07

Water Supply Reservoirs None

Water Companies	Area (km ²) in catchment	% Catchment area
Mid Kent	442	41
SWS Kent (Thanet)	357	33
Folkestone & Dover	282	26

Resource Areas	Number	Area (km ²)
Name		
Stour Marshes	9	173.5
Great Stour	10	171.2
Upper Great Stour	11	233.2
Little Stour	12	285.3
Thanet Chalk	13	76.1
Dover Chalk	14	141.5

FLOOD DEFENCE

Coastline	Length (km)
to Schedule 4	80.6
including main tidal waters	80.6

Main River including tidal lengths 254.58

Sea Defences NRA responsibility 17.85
LA responsibility 7.56

Tidal Banks NRA responsibility 38.05

Internal Drainage Districts Area (km²)
River Stour (Kent) 119.14

WATER QUALITY

Length of Freshwater River in NWC Class (km)		
Class	Objective	Achieved 1990 survey
1A Good	20.5	38.1
1B Good	117.7	71.7
2 Fair	28.6	50.0
3 Poor	0.8	7.8
4 Bad	0	0
Total	167.6	167.6

Number of EC designated Bathing Waters 12

STWs - Discharges to	Number	Volume (m ³ /d)
River	26	52848
Estuary	4	2192
Sea	0	0

FISHERIES

Length of EC Designated Fisheries (km):		
	Freshwater	Tidal
Cyprinid	26.9	13.9
Salmonid	0	4.5

CONSERVATION

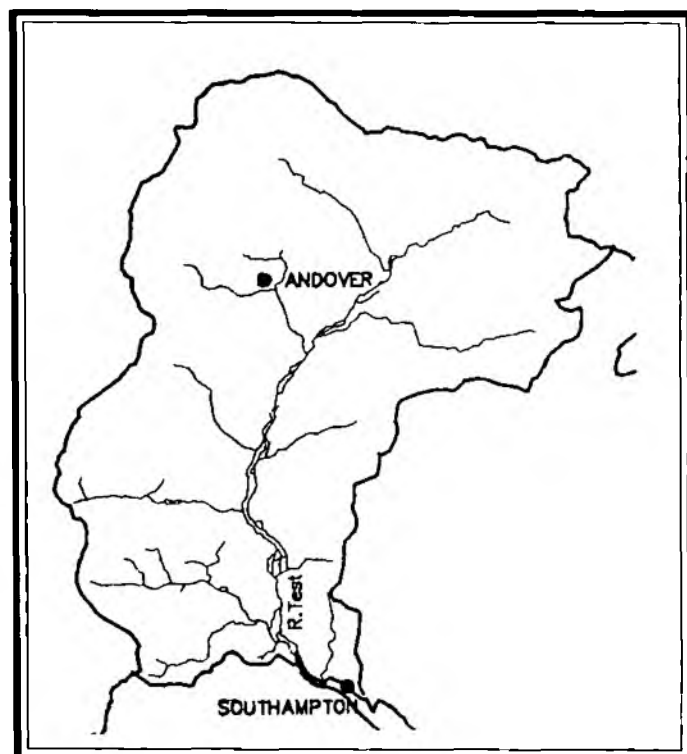
National Nature Reserves	2
Sites of Special Scientific Interest (SSSIs)	34
Water dependent SSSIs	29
Ramsar and/or Special Protection Areas (designated and proposed)	2
Environmentally Sensitive Areas	-

RECREATION AND NAVIGATION

Length of towpath (km) 0

Length of inland navigation (km) 0

Test



Catchment Area 1250.32 km²

Geology

North - predominantly Chalk, South - Tertiary deposits.

Topography

Maximum: 297 m AOD
Minimum: 0 m AOD

Resident Population

1991 estimate: 300000
2001 estimate: 316000

Main Rivers and Streams

R Test, R Blackwater, Wallop Brook, R Anton, R Dever, R Dun.

ADMINISTRATION

Hampshire County Council

1057.8 km² within catchment
84.6 % of total catchment area

District	Persons per ha	Area (km ²) in catchment	% Catchment area
Basingstoke	2.3	267	21.4
New Forest	2.1	53	4.2
Southampton	39.5	22	1.8
Test Valley	1.6	592	47.3
Winchester	1.5	124	9.9

Wiltshire County Council

183.9 km² within catchment
14.7 % of total catchment area

District	Persons per ha	Area (km ²) in catchment	% Catchment area
Kennet	0.7	63	5.1
Salisbury	1.0	121	9.6

Berkshire County Council

8.6 km² within catchment
0.7 % of total catchment area

District	Persons per ha	Area (km ²) in catchment	% Catchment area
Newbury	1.9	8.6	0.7

Main Towns and population (1991)

Andover 32325, Romsey 14340, Southampton (part)
199860, Totton 26770.

WATER RESOURCES

Rainfall (mm/year)	Annual	Effective
Average	823	352
1 in 10 yr drought	642	195

Auth abst (MI) 374063
(245887 MI is authorised for fish farming. This is not reflected in the actual abstraction figure.)

% from GW 21%

% high/med loss 33%

Actual abst (MI) 78570

River Flow (cumecs)	Q50	Q95
R Test	9.95	5.91

Water Supply Reservoirs None

Water Companies	Area (km ²) in catchment	% Catchment area
SWS Hants	925	74
Wessex Water	209	17
SEW, Mid Southern	74	6
Thames Water	42	3

Resource Areas	Number	Area (km ²)
Name		
Lower Itchen (part)	31	61.8
Upper Itchen (part)	32	1.6
Lower Test (part)	33	580.5
Upper Test (part)	34	606.4

FLOOD DEFENCE

		Length (km)
Coastline	to Schedule 4 including main tidal waters	0 18.4
Main River	including tidal lengths	272.5
Sea Defences	NRA responsibility LA responsibility	0 0
Tidal Banks	NRA responsibility	0
Internal Drainage Districts		None

WATER QUALITY

Length of Freshwater River in NWC Class (km)		
Class	Objective	Achieved 1990 survey
1A Good	143.5	111.0
1B Good	22.2	124.6
2 Fair	97.0	23.1
3 Poor	0	4.0
4 Bad	0	0
Total	262.7	262.7

Number of EC Designated Bathing Waters 0

STWs - Discharges to	Number	Volume (m ³ /d)
River	51	32679
Estuary	2	54970
Sea	0	0

FISHERIES

Length of EC Designated Fisheries (km):		
	Freshwater	Tidal
Cyprinid	0	0
Salmonid	103.53	0

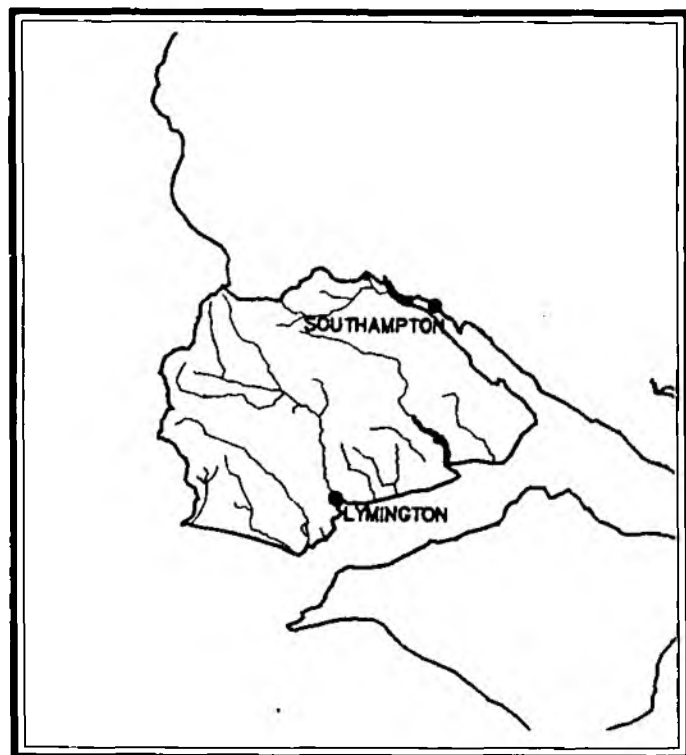
CONSERVATION

National Nature Reserves	0
Sites of Special Scientific Interest (SSSIs)	30
Water dependent SSSIs	26
Ramsar and/or Special Protection Areas (designated and proposed)	1
Environmentally Sensitive Areas	Test Valley

RECREATION AND NAVIGATION

Length of towpath (km)	0
Length of inland navigation (km)	0

West Hampshire



Catchment Area 450.49 km²

Geology

Tertiary deposits.

Topography

Maximum: 114 m AOD

Minimum: 0 m AOD

Resident Population

1991 estimate: 97000

2001 estimate: 105000

Main Rivers and Streams

R Beulieu, R Lymington.

ADMINISTRATION

Hampshire County Council

449.8 km² within catchment

99.8 % of total catchment area

District	Persons per ha	Area (km ²) in catchment	% Catchment area
New Forest	2.1	449.8	99.8

Dorset County Council

0.75 km² within catchment

0.2 % of total catchment area

District	Persons per ha	Area (km ²) in catchment	% Catchment area
Christchurch	8.1	0.75	0.2

Main Towns and population (1991)

Lymington and Pennington 13405.

WATER RESOURCES

Rainfall (mm/year)	Annual	Effective
Average	833	324
1 in 10 yr drought	649	203

Auth abst (Ml)	2449
% from GW	65%
% high/med loss	89%
Actual abst (Ml)	838

River Flow (cumecs)	Q50	Q95
R Lymington	0.44	0.05

Water Supply Reservoirs	None
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Water Companies	Area (km ²) in catchment	% Catchment area
Bournemouth & West Hants	261.5	58
SWS Hants	189.0	42

Resource Areas	Number	Area (km ²)
Name		
Lower Test (part)	33	37.6
New Forest	35	412.9

FLOOD DEFENCE

Coastline	Length (km) to Schedule 4 including main tidal waters	75.0 108.3
Main River	including tidal lengths	115.27
Sea Defences	NRA responsibility LA responsibility	10.47 2.94
Tidal Banks	NRA responsibility	0
Internal Drainage Districts		None

WATER QUALITY

Length of Freshwater River in NWC Class (km)		
Class	Objective	Achieved 1990 survey
1A Good	45.1	89.1
1B Good	110.8	88.6
2 Fair	34.4	12.6
3 Poor	0	0
4 Bad	0	0
Total	190.3	190.3

Number of EC Designated Bathing Waters	5
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STWs - Discharges to	Number	Volume (m ³ /d)
River	20	1168
Estuary	20	3535
Sea	0	0

FISHERIES

Length of EC Designated Fisheries (km):		
	Freshwater	Tidal
Cyprinid	0	0
Salmonid	17.83	0

CONSERVATION

National Nature Reserves	1
Sites of Special Scientific Interest (SSSIs)	13
Water dependent SSSIs	13
Ramsar and/or Special Protection Areas (designated and proposed)	1
Environmentally Sensitive Areas	-

RECREATION AND NAVIGATION

Length of towpath (km)	0
Length of inland navigation (km)	0

Appendix

General and Administration

Map Scales - Region 1:1 000 000, Catchments 1:600 000.

Catchment Area - from 1:100 000 and 1:50 000 maps.

Topography m AOD - metres above ordnance datum. From Institute of Hydrology gauging station data sheets (1989).

Resident Population - 1991 figure derived from Registrar General's provisional mid-1991 estimates. 2001 figure derived from 1990 NRA demand forecast review. Using data by District/Borough/City Council, catchment population has been estimated as a percentage of Council area within each catchment. Adjustments have been made for population concentrated in main towns.

County and District Councils - area from 1:250 000 map. Persons per ha (hectare) from OPCS 1991 County Monitors.

Main Towns - towns recorded by Ordnance Survey as over 2km² in area. Town population - estimate of 1991 population from County and District Councils.

Water Resources

Rainfall, Effective - total rainfall minus actual evapotranspiration. 1 in 10 yr drought - drought with a statistical probability of occurring once in a 10 year period.

Authorised Abstraction - annual figure as at March 1993. Saline water abstraction is excluded from all abstraction data shown. All abstraction data given +/- 5% confidence.

% from GW - percentage of authorised abstraction from groundwater.

% high/med loss - percentage of authorised abstraction in high and medium loss factor categories (1993 Scheme of Abstraction Charges). Indication of consumptive use.

Actual Abstraction - for water year Oct 1990 to Sept 1991.

Q50/Q95 - flow exceeded for 50/95% of the flow record. On 1 day duration. Calculated from archived flow records. Measured at downstream catchment gauges located at:

E Adur	- Sakeham	W Adur	- Hatterrell
Ouse	- Barcombe Mills		
Arun	- Pallingham		
Cuckmere	- Shermans Br.	Widdersley	- Boreham Br.
Darent	- Hawley		
E Rother	- Udiam		
IoW Medina	- U Shide	Lukely	- Newport
IoW E Yar	- Alverstene		
Itchen	- Allbrook & Highbridge		

Medway	- Teston	
Meon	- Mislingford	Hamble - Frogmill
Stour	- Plucks Gutter	Dour - Crabble Mill
Test	- Broadlands	
Lymington	- Brockenhurst	

Reservoirs - area from Water Authority leaflet (1985).

Water Companies - area from 1:250 000 map.

Flood Defence

Coastline - from 1:25 000 map along mean high water mark and Schedule 4 boundary (Coast Protection Act 1949, plus 1990 Portsmouth, Chichester and Langstone Harbour revisions). Second figure includes main tidal waters above Schedule 4 boundary (Thames Estuary, Medway Estuary, Swale and Southampton Water).

Main River - sum of tidal and non tidal main river lengths.

Sea Defences/Tidal Banks - from National Sea Defence Survey. Sea defences under private/military responsibility are not shown by catchment.

Water Quality

NWC - National Water Council.

STWs - Sewage Treatment Works. Data shown relates to works with discharge volumes in excess of 5m³/d.

Fisheries

Salmonid - Salmon *Salmo salar*, Brown and Sea Trout *Salmo trutta* and Rainbow Trout *Salmo gairdneri*.
Cyprinid - all non-salmonid freshwater fish.

Conservation

SSSIs and Ramsar/SPAs - sites that straddle catchment boundaries have been recorded in both/all catchments except Southampton Water/Solent Marshes Ramsar site/SPA which is only included in the Regional total.

Water dependent SSSIs - sites where operations that involve a change of water levels/tables or water utilization require prior consultation with English Nature. These are included in the total number of SSSIs shown.

Recreation and Navigation

Inland navigation - navigation above the tidal limit.

LA/Other - Local Authority or other body responsible for maintenance etc.