

Key points

- Because fluoride occurs naturally in all water supplies, everyone is drinking water with some fluoride. Below 0.3 parts per million it is unlikely that any dental benefit is obtained.
- Approximately 10% of the UK population (i.e. around 6 million people) currently benefit from a water supply where the fluoride content has been adjusted or is naturally present at around the optimal level for dental health. The West Midlands is the most extensively fluoridated region.
- Worldwide around 400 million people benefit from a fluoridated water supply, with the US being one of the most extensively fluoridated countries.

Fluoridation in the UK

Approximately 6 million people in the UK receive water in which the fluoride content has been adjusted to the optimum level for dental health of around one part of fluoride per million parts of water, or that has a naturally occurring fluoride level of around this levelⁱ. This means that around one in ten of the total population of the UK is currently benefiting from water with a fluoride level that is capable of providing protection against tooth decay.

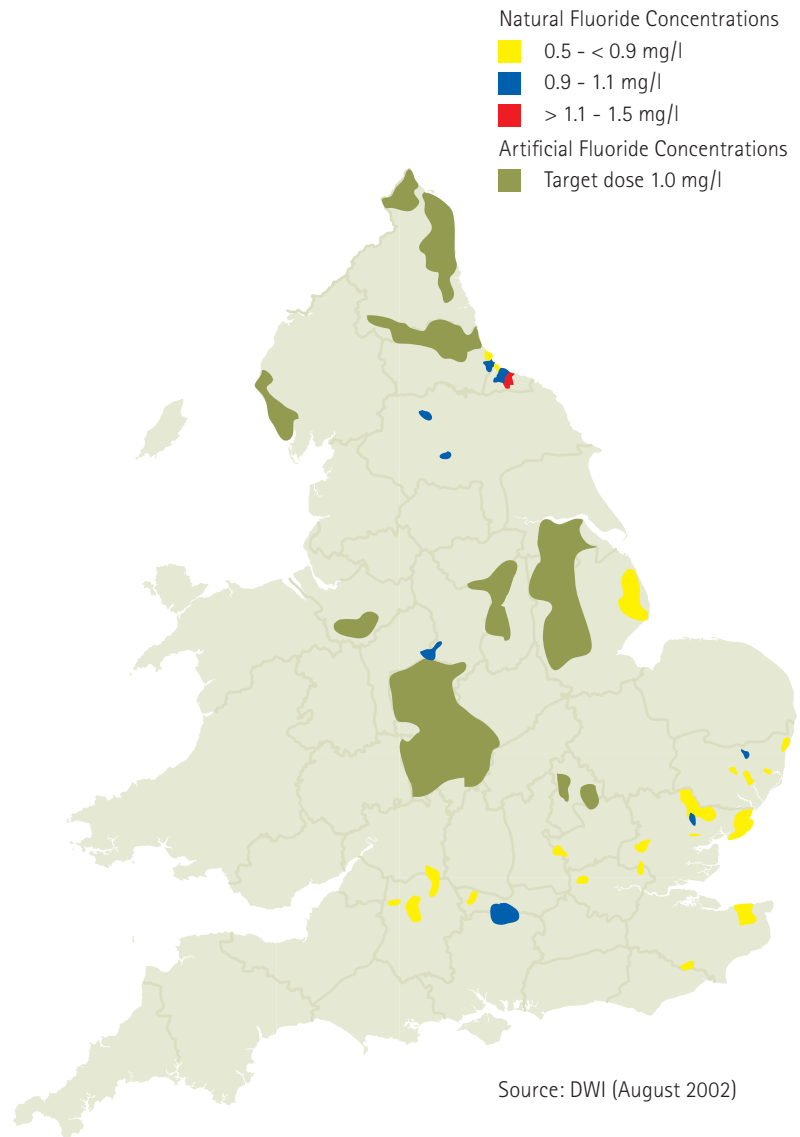
Sub-optimal fluoridation

In some areas people drink water containing what can be described as a 'sub-optimal' natural fluoride content of between 0.3 and 0.7 parts per million. This affords some protection against tooth decay but is below the level at which the optimal benefit is obtained. In some areas (for example parts of Essex, Wiltshire and Norfolk) naturally occurring fluoride levels can vary substantially between places and over time and it is very difficult to quantify this accurately.

Fluoridation across the regions

The map on this page has been produced by the Government Department of the Environment, Food and Rural Affairsⁱⁱ from information supplied by water companies to the Drinking Water Inspectorate. It shows the concentration of fluoride in public drinking water in England and Wales.

Fluoride concentrations in water supplies, August 2002



Source: DWI (August 2002)

ⁱ This information has been compiled by the British Fluoridation Society in collaboration with the dental lead/Consultant in Dental Public Health for each Strategic Health Authority to whom we are most grateful.

ⁱⁱ Map reproduced by kind permission of DeFRA.

As can be seen on the map, the West Midlands is by far the most extensively fluoridated region. In fact, around 3½ million people in the West Midlands drink fluoridated water – some since 1964 when the first scheme was started in Birmingham. In the North East of England fluoridation schemes in Newcastle, North Tyneside and Gateshead serve approximately ½ million people and, in addition, in the town of Hartlepool around ¼ million people benefit from a water supply where the fluoride level is naturally at the optimum for dental health.

In England, there are 10 Strategic Health Authorities (out of 28) whose populations wholly or partly benefit from a fluoridated water supply and these are listed in Table 1. There are no fluoridated areas in Scotland, Wales or Northern Ireland – with the exception of a small pocket of naturally fluoridated water in rural Morayshire, Scotland.

Strategic Health Authorities



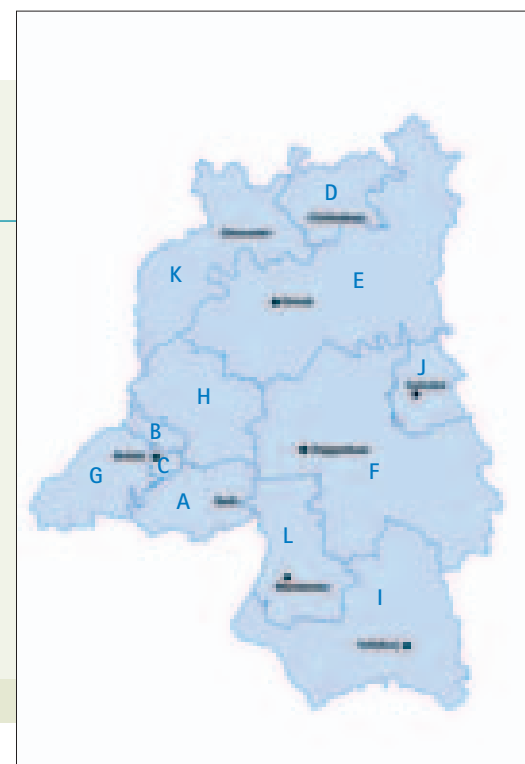
Table 1 Strategic Health Authorities in England in which part or all of the population benefits from fluoridated water

Strategic Health Authority	Total population	Population with fluoridated water supply	% of total population	Natural or adjusted
Bedfordshire & Hertfordshire	1,597,607	197,961	12%	Adjusted
Birmingham, Solihull & the Black Country	2,253,600	2,175,366	97%	Adjusted
Cheshire & Merseyside	2,342,941	136,700	6%	Adjusted
Co Durham & Tees Valley	1,130,907	220,867	20%	Natural & Adjusted
Cumbria & Lancashire	1,900,226	120,000	6%	Adjusted
North & East Yorkshire & Northern Lincolnshire	1,603,635	135,546	8%	Adjusted
Northumberland, Tyne & Wear	1,381,728	647,863	47%	Adjusted
Shropshire & Staffordshire	1,482,537	518,170	35%	Natural & Adjusted
Trent	2,580,579	536,276	21%	Adjusted
West Midlands South	1,524,100	940,212	62%	Adjusted
Totals		5,628,961		

The next section shows the overall national picture in more detail showing the proportion of people who benefit from an optimally fluoridated water supply for each of the 28 Strategic Health Authorities in England and Wales and their respective Primary Care Trusts.

Table 2 Avon, Gloucestershire and Wiltshire Strategic Health Authority

Primary Care Trust (PCT)	PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted
Bath and North East Somerset	A	168,857	*	Natural
Bristol North	B	210,325	0	
Bristol South and West	C	170,088	0	
Cheltenham and Tewkesbury	D	156,444	0	
Cotswold and Vale	E	187,831	0	
North Somerset	F	188,787	0	
Kennet and North Wiltshire	G	191,978	*	Natural
South Gloucestershire	H	244,909	0	
South Wiltshire	I	111,984	0	
Swindon	J	183,706	*	Natural
West Gloucestershire	K	218,086	0	
West Wiltshire	L	116,612	*	Natural
Totals		2,149,607	*	



* Supply source at Ashton Keynes (Wessex Water) contains naturally elevated fluoride levels and is distributed to PCTs in Wiltshire (Kennet & North Wiltshire, Swindon, Bath & North East Somerset, West Wiltshire). Population coverage not known.

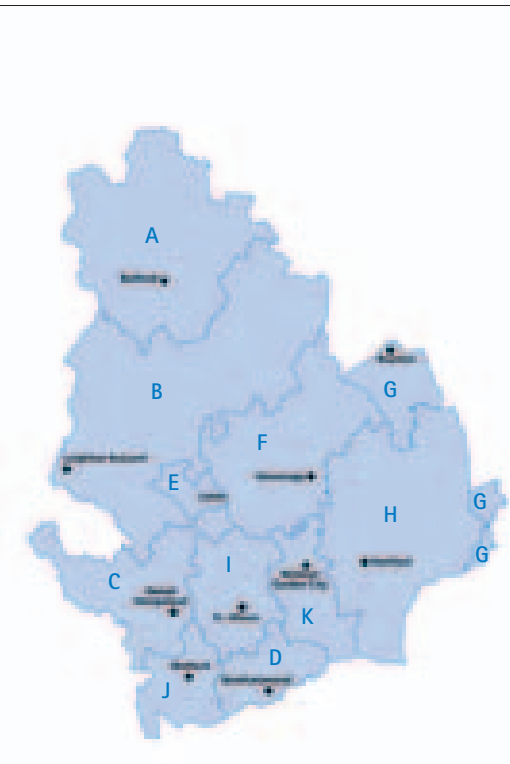


Table 3 Bedfordshire and Hertfordshire Strategic Health Authority

Primary Care Trust (PCT)	PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted
Bedford	A 147,829	147,829	100	Adjusted
Bedfordshire Heartlands	B 232,867	50,132	22	Adjusted
Dacorum	C 137,177	0	0	
Hertsmere	D 94,139	0	0	
Luton	E 184,294	0	0	
North Hertfordshire and Stevenage	F 179,745	0	0	
Royston, Bedford & Bishops Stortford	G 61,985	0	0	
South East Hertfordshire	H 171,365	0	0	
St Albans and Harpenden	I 129,128	0	0	
Watford and Three Rivers	J 161,527	0	0	
Welwyn Hatfield	K 97,551	0	0	
Totals	1,597,607	197,961	12	



Table 4 Birmingham and the Black Country Strategic Health Authority

Primary Care Trust (PCT)	PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted
Dudley Beacon and Castle	A 104,600	104,600	100	Adjusted
Dudley South	B 200,600	122,900	61	Adjusted
Eastern Birmingham	C 227,700	227,700	100	Adjusted
Heart of Birmingham	D 270,900	270,900	100	Adjusted
North Birmingham	E 154,400	154,400	100	Adjusted
Oldbury and Smethwick	F 96,900	96,900	100	Adjusted
Rowley, Regis and Tipton	G 76,600	76,600	100	Adjusted
Solihull	H 199,600	199,600	100	Adjusted
South Birmingham	I 323,300	323,300	100	Adjusted
Walsall	J 253,300	253,300	100	Adjusted
Wednesbury & West Bromwich	K 109,300	109,300	100	Adjusted
Wolverhampton City	L 236,400	236,400	100	Adjusted
Totals	2,253,600	2,175,900	97	Adjusted

Table 5 Cheshire and Merseyside Strategic Health Authority

Primary Care Trust (PCT)	PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted	
Bebington and West Wirral	A	118,951	0	0	
Birkenhead and Wallasey	B	193,264	0	0	
Central Cheshire	C	253,917	132,000	52	Adjusted
Central Liverpool	D	237,680	0	0	
Cheshire West	E	151,111	4,700	3	Adjusted
Eastern Cheshire	F	187,038	0	0	
Ellesmere Port and Neston	G	81,580	0	0	
Halton	H	118,185	0	0	
Knowsley	I	150,494	0	0	
North Liverpool	J	102,529	0	0	
South Liverpool	K	98,107	0	0	
South Sefton	L	168,764	0	0	
Southport and Formby	M	114,120	0	0	
St Helens	N	176,810	0	0	
Warrington	O	190,391	0	0	
Totals		2,342,941	136,700	6	Adjusted

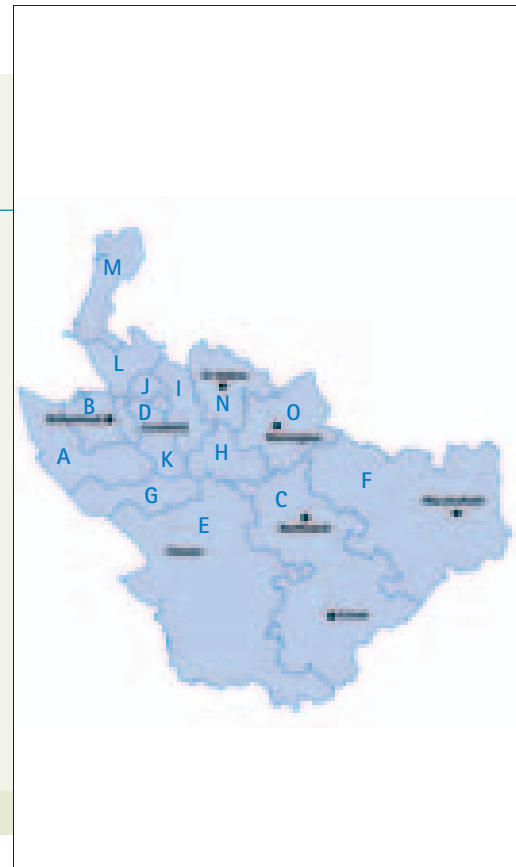


Table 6 County Durham and Tees Valley Strategic Health Authority

Primary Care Trust (PCT)	PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted	
Darlington	A	97,849	0	0	
Derwentside	B	85,171	85,171	100	Adjusted
Durham and Chester-le-Street	C	140,644	0	0	
Durham Dales	D	85,531	0	0	
Easington	E	93,971	46,985	50	Natural
Hartlepool	F	88,711	88,711	100	Natural
Langbaugh	G	97,028	0	0	
Middlesbrough	H	176,806	0	0	
North Tees	I	177,992	0	0	
Sedgefield	J	87,204	0	0	
Totals		1,130,907	220,867	20	Natural & Adjusted

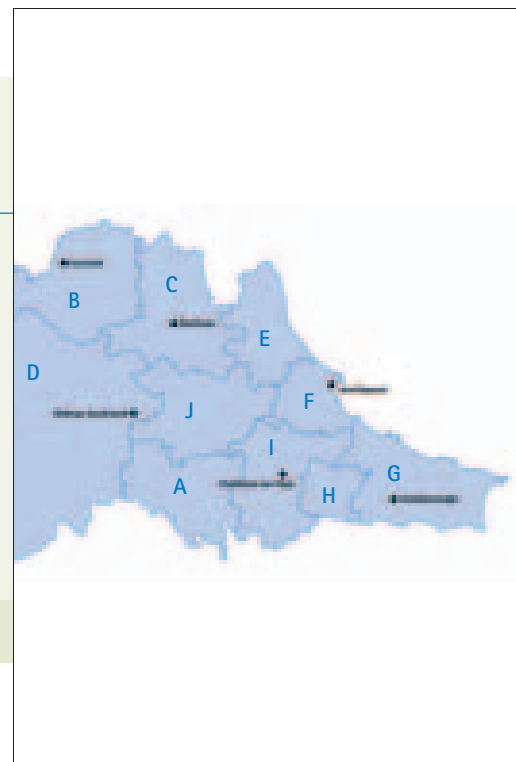
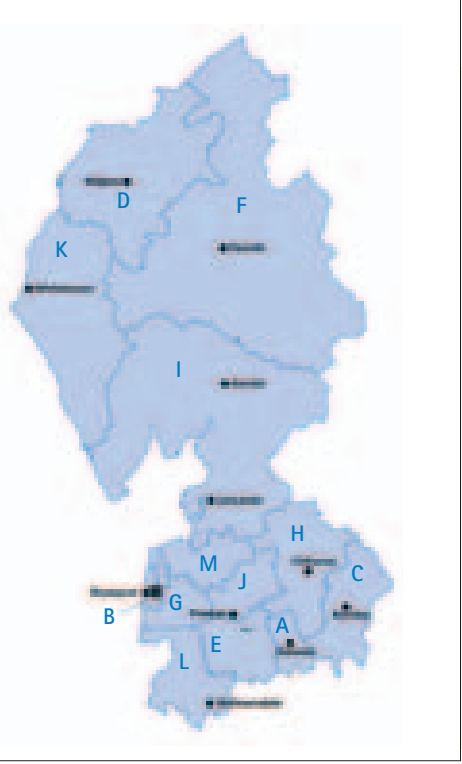



Table 7 Cumbria and Lancashire Strategic Health Authority



Primary Care Trust (PCT)		PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted
Blackburn With Darwen	A	137,556	0	0	
Blackpool	B	142,184	0	0	
Burnley, Pendle and Rossendale	C	244,449	0	0	
Carlisle and District	D	113,582	0	0	
Chorley and South Ribble	E	203,189	0	0	
Eden Valley	F	69,020	0	0	
Fylde	G	72,657	0	0	
Hyndburn and Ribble Valley	H	124,672	0	0	
Morecambe Bay	I	308,189	0	0	
Preston	J	140,065	0	0	
West Cumbria*	K	130,409	120,000	92	Adjusted
West Lancashire	L	108,541	0	0	
Wyre	M	105,713	0	0	
Totals		1,900,226	120,000	6	Adjusted

* Fluoridation intermittent since 1999 for technical reasons.

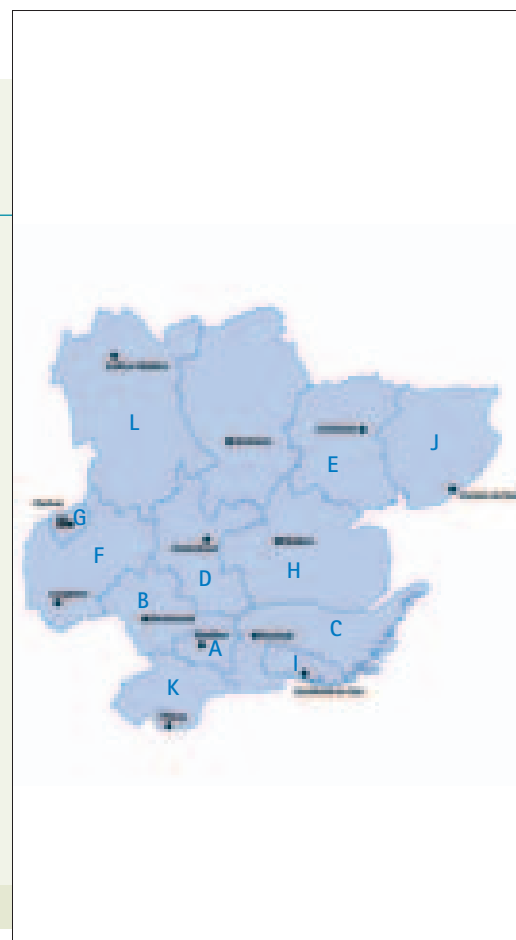
Table 8 Dorset and Somerset Strategic Health Authority



Primary Care Trust (PCT)		PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted
Bournemouth	A	147,140	0	0	
Mendip	B	106,714	0	0	
North Dorset	C	84,882	0	0	
Poole	D	177,766	0	0	
Somerset Coast	E	141,121	0	0	
South and East Dorset	F	146,810	0	0	
South Somerset	G	145,686	0	0	
South West Dorset	H	131,532	0	0	
Taunton Deane	I	101,955	0	0	
Totals		1,183,606	0	0	

Table 9 Essex Strategic Health Authority

Primary Care Trust (PCT)		PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted
Basildon	A	102,623	0	0	
Billericay, Brentwood and Wickford**	B	131,718	variable low levels	variable low levels	Natural low levels
Castle Point and Rochford	C	165,218	0	0	
Chelmsford	D	133,719	0	0	
Colchester*	E	155,376	variable up to 1ppm	variable up to 1ppm	Natural up to 1ppm
Epping Forest**	F	120,964	variable low levels	variable low levels	Natural up to 1ppm
Harlow**	G	78,935	variable low levels	variable low levels	Natural up to 1ppm
Maldon and South Chelmsford	H	87,435	0	0	
Southend On Sea	I	160,344	0	0	
Tendring	J	136,487	130,000 variable levels	95%	Natural up to 1ppm
Thurrock	K	143,212	0	0	
Uttlesford**	L	70,928	variable low levels	variable low levels	Natural low levels
Witham, Braintree and Halstead*	M	125,628	variable up to 1ppm	variable up to 1ppm	Natural
Totals		1,612,587			



* Naturally occurring fluoride levels in some parts of these areas may reach optimal (1ppm). There is considerable natural variation in the level across the year.

** Naturally occurring fluoride levels in some parts of these areas can exceed 0.3ppm, but never reach optimal. There is considerable natural variation in the level across the year.

Table 10 Greater Manchester Strategic Health Authority

Primary Care Trust (PCT)		PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted
Ashton, Leigh and Wigan	A	301,207	0	0	
Bolton	B	261,329	0	0	
Bury	C	180,637	0	0	
Central Manchester	D	147,788	0	0	
Heywood and Middleton	E	73,378	0	0	
North Manchester	F	118,885	0	0	
Oldham	G	217,456	0	0	
Rochdale	H	131,546	0	0	
Salford	I	215,817	0	0	
South Manchester	J	125,779	0	0	
Stockport	K	284,582	0	0	
Tameside and Glossop	L	245,415	0	0	
Trafford North	M	92,686	0	0	
Trafford South	N	117,470	0	0	
Totals		2,513,975	0	0	

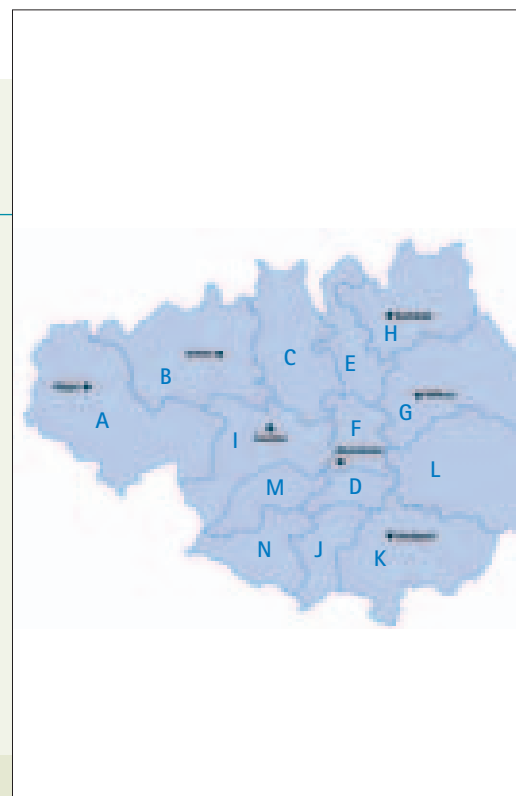
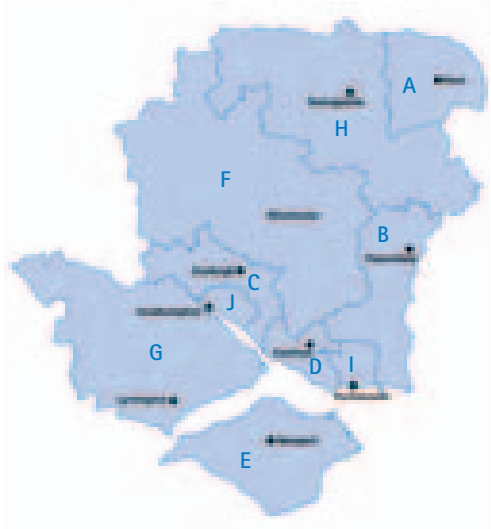
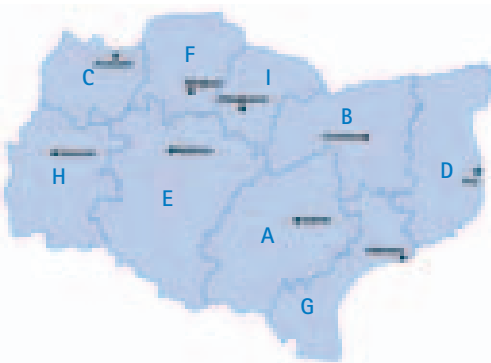


Table 11 Hampshire and Isle of Wight Strategic Health Authority



Primary Care Trust (PCT)		PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted
East Hampshire	A	182,094	0	0	
Eastleigh and Test Valley South	B	149,837	0	0	
Fareham and Gosport	C	187,120	0	0	
Isle of Wight	D	132,908	0	0	
Mid-Hampshire	E	168,599	0	0	
New Forest	F	174,696	0	0	
North Hampshire	G	184,717	0	0	
Portsmouth City	H	180,268	0	0	
Blackwater Valley and Hart	I	182,242	0	0	
Southampton City	J	232,925	0	0	
Totals		1,775,406	0	0	

Table 12 Kent and Medway Strategic Health Authority



Primary Care Trust (PCT)		PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted
Ashford	A	102,527	0	0	
Canterbury and Coastal	B	167,886	0	0	
Dartford, Gravesham and Swanley	C	224,369	0	0	
East Kent Coastal	D	230,581	0	0	
Maidstone Weald	E	231,556	0	0	
Medway	F	258,894	0	0	
Shepway	G	94,515	0	0	
South West Kent	H	176,548	0	0	
Swale	I	87,607	0	0	
Totals		1,574,483	0	0	

Table 13 Leicestershire, Northamptonshire and Rutland Strategic Health Authority

Primary Care Trust (PCT)		PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted
Charnwood & NW Leicestershire	A	230,214	0	0	
Daventry & South Northants	B	101,006	0	0	
Eastern Leicester	C	173,316	0	0	
Hinckley and Bosworth	D	115,004	0	0	
Leicester City West	E	106,430	0	0	
Melton, Rutland and Harborough	F	137,726	0	0	
Northampton	G	208,645	0	0	
Northamptonshire Heartlands	H	283,758	0	0	
South Leicestershire	I	158,350	0	0	
Totals		1,514,449	0	0	

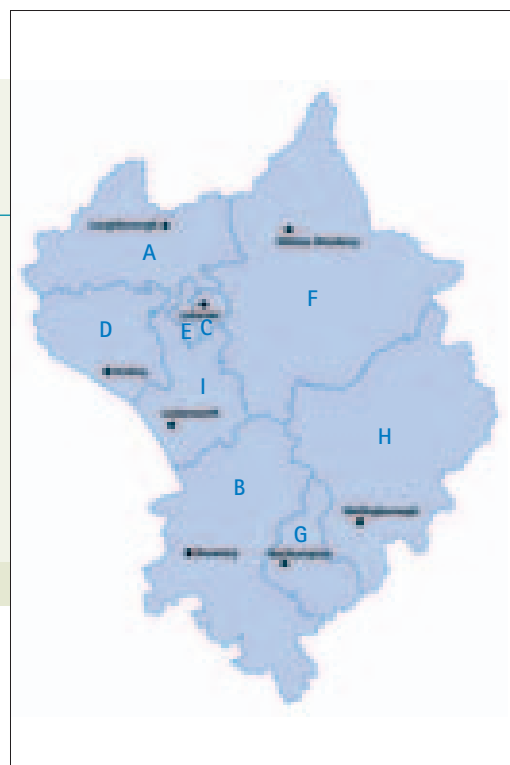
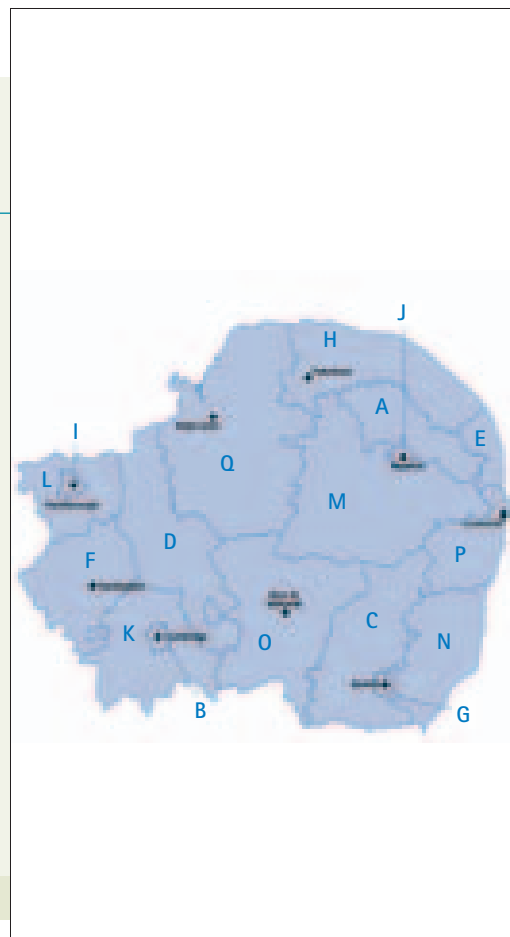


Table 14 Norfolk, Suffolk and Cambridgeshire Strategic Health Authority

Primary Care Trust (PCT)		PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted
Broadland	A	118,302	0.14-0.45	100	Natural
Cambridge City	B	108,466	0.07-0.17	100	Natural
Central Suffolk	C	97,953	0.11-0.8	100	Natural
East Cambridgeshire & Fenland	D	136,129	0.08-0.6	100	Natural
Great Yarmouth	E	90,889	0.15-0.43	100	Natural
Huntingdonshire	F	140,111	0.08-0.6	100	Natural
Ipswich	G	141,672	0.21-0.65	100	Natural
North Norfolk	H	97,168	0.11-0.43	100	Natural
North Peterborough	I	99,239	0.08-0.6	100	Natural
Norwich	J	121,145	0.14-0.22	100	Natural
South Cambridgeshire	K	129,562	0.08-0.6	100	Natural
South Peterborough	L	86,912	0.08-0.6	100	Natural
Southern Norfolk	M	200,492	0.13-0.45	100	Natural
Suffolk Coastal	N	98,237	0.21-0.65	100	Natural
Suffolk West	O	195,747	0.11-0.8	100	Natural
Waveney	P	121,238	0.15-0.93	100	Natural
West Norfolk	Q	154,724	0.07-0.16	100	Natural
Totals		2,137,986			



Naturally occurring fluoride levels in some areas may reach optimal but it is difficult to quantify this accurately.

Table 15 North and East Yorkshire and Northern Lincolnshire Strategic Health Authority



Primary Care Trust (PCT)	PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted
Craven, Harrogate & Rural Dist	A 202,790	0	0	
East Yorkshire	B 169,845	0	0	
Eastern Hull	C 113,309	0	0	
Hambleton and Richmondshire	D 108,030	0	0	
North East Lincolnshire	E 159,214	23,822	15	Adjusted
North Lincolnshire	F 148,965	111,724	75	Adjusted
Scarborough, Whitby and Ryedale	G 157,007	0	0	
Selby and York	H 271,280	0	0	
West Hull	I 129,614	0	0	
Yorkshire Wolds and Coast	J 143,581	0	0	
Totals	1,603,635	135,546	8	Adjusted

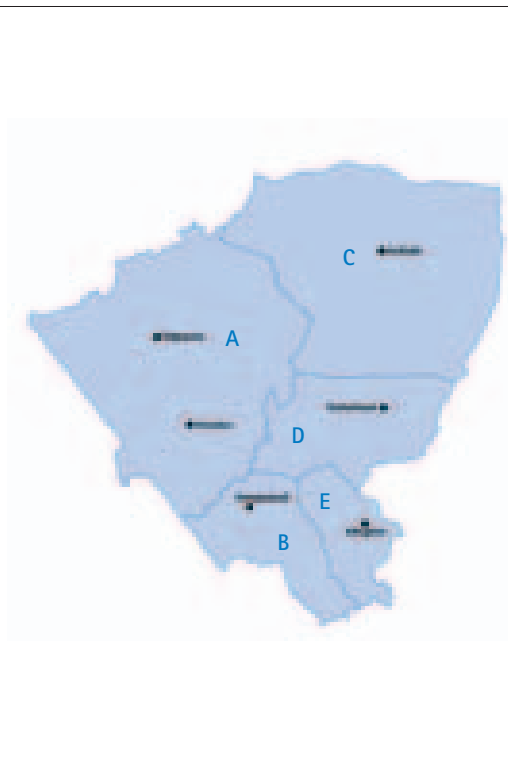
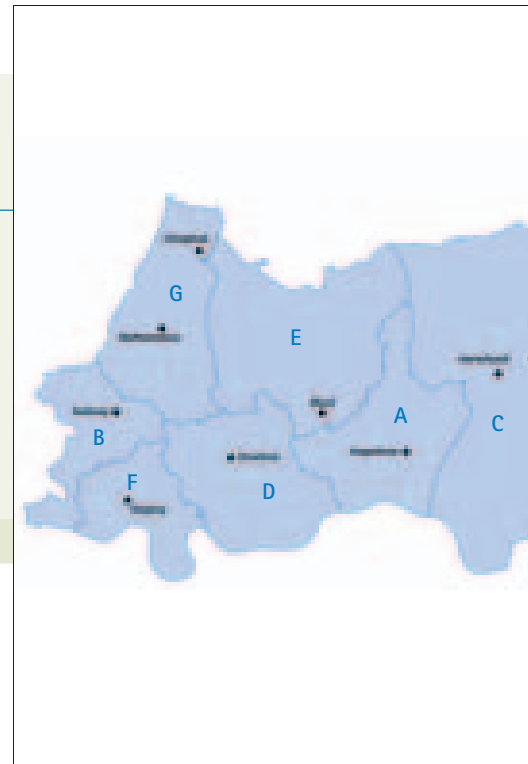


Table 16 North Central London Strategic Health Authority

Primary Care Trust (PCT)	PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted
Barnet	A 314,203	0	0	
Camden	B 198,008	0	0	
Enfield	C 274,330	0	0	
Haringey	D 216,812	0	0	
Islington	E 175,798	0	0	
Totals	1,179,151	0	0	

Table 17 North East London Strategic Health Authority

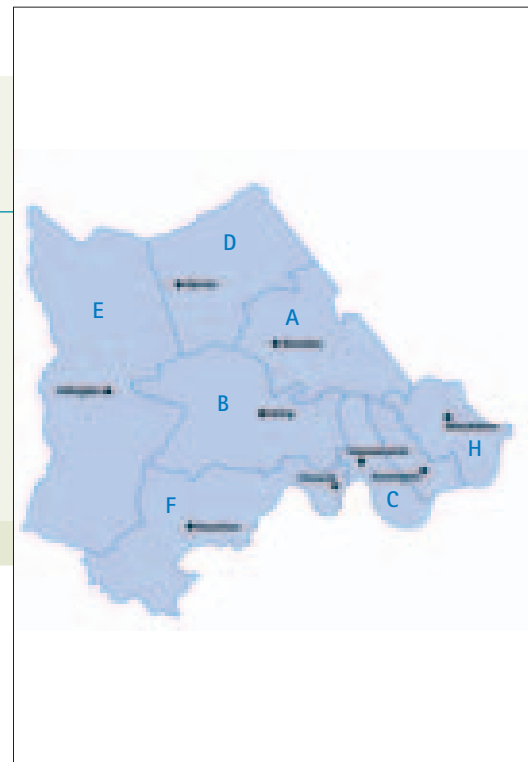
Primary Care Trust (PCT)	PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted
Barking and Dagenham	A	164,344	0	Natural
Chingford, Wanstead & Woodford	B	120,355	0	
City and Hackney	C	210,480	0	
Havering	D	224,634	0	
Newham	E	244,280	0	
Redbridge	F	176,883	?	
Tower Hamlets	G	196,567	0	
Walthamstow, Leyton & Leytonstone	H	160,662	0	
Totals		1,498,205	0	



The natural fluoride content of supplies around Redbridge may reach optimal, but it is difficult to quantify the number of people affected.

Table 18 North West London Strategic Health Authority

Primary Care Trust (PCT)	PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted
Brent	A	263,629	0	Natural
Ealing	B	301,433	0	
Hammersmith and Fulham	C	165,058	0	
Harrow	D	207,389	0	
Hillingdon	E	240,346	0	
Hounslow	F	212,397	0	
Kensington and Chelsea	G	158,935	0	
Westminster	H	179,754	0	
Totals		1,728,941	0	



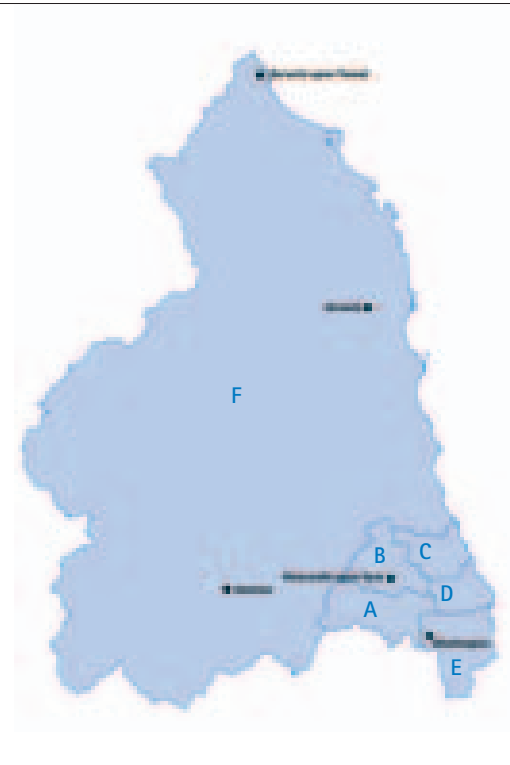


Table 19 Northumberland, Tyne and Wear Strategic Health Authority

Primary Care Trust (PCT)		PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted
Gateshead	A	191,133	191,000	virtually 100	Adjusted
Newcastle	B	259,470	259,470	100	Adjusted
North Tyneside*	C	191,999	191,999	50 Et 50 variable low	Adjusted
Northumberland Care Trust	D	305,536	100,827	33	Adjusted
South Tyneside	E	152,785	0	0	
Sunderland Teaching	F	280,805	0	0	
Totals		1,381,728	647,863	47	Adjusted

* 100% of supply fluoridated, but only 50% at optimal; remaining 50% variable, but never more than 0.4ppm.

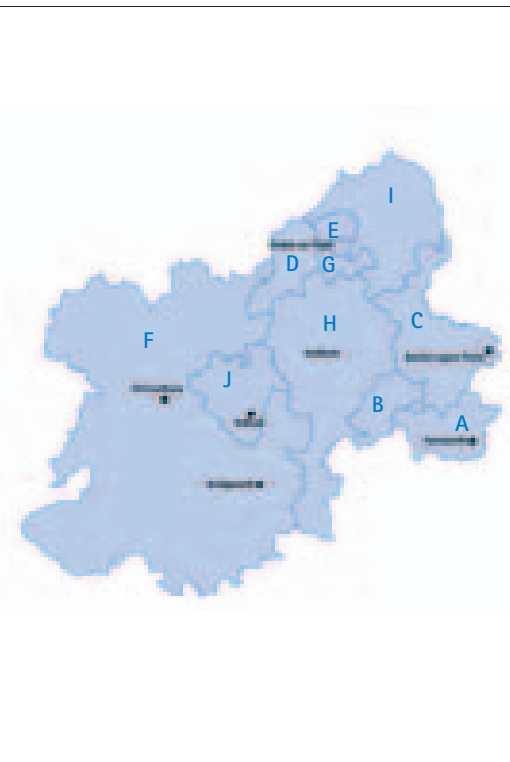


Table 20 Shropshire and Staffordshire Strategic Health Authority

Primary Care Trust (PCT)		PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted
Burntwood, Lichfield Et Tamworth	A	151,500	151,500	100	Adjusted
Cannock Chase	B	127,800	127,800	100	Adjusted
East Staffordshire	C	112,700	112,700	100	Nat Et Adjusted
Newcastle-Under-Lyme	D	102,000	0	0	
North Stoke	E	123,100	0	0	
Shropshire County	F	279,700	22,400	8	Adjusted
South Stoke	G	124,900	0	0	
South Western Staffordshire	H	195,800	103,800	53	Adjusted
Staffordshire Moorlands	I	106,800	0	0	
Telford and Wrekin	J	158,100	0	0	
Totals		1,482,400	518,200	35	Nat Et Adjusted

Table 21 South East London Strategic Health Authority

Primary Care Trust (PCT)		PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted
Bexley	A	218,675	0	0	
Bromley	B	295,865	0	0	
Greenwich	C	214,597	0	0	
Lambeth	D	266,487	0	0	
Lewisham	E	249,428	0	0	
Southwark	F	245,357	0	0	
Totals		1,490,409	0	0	

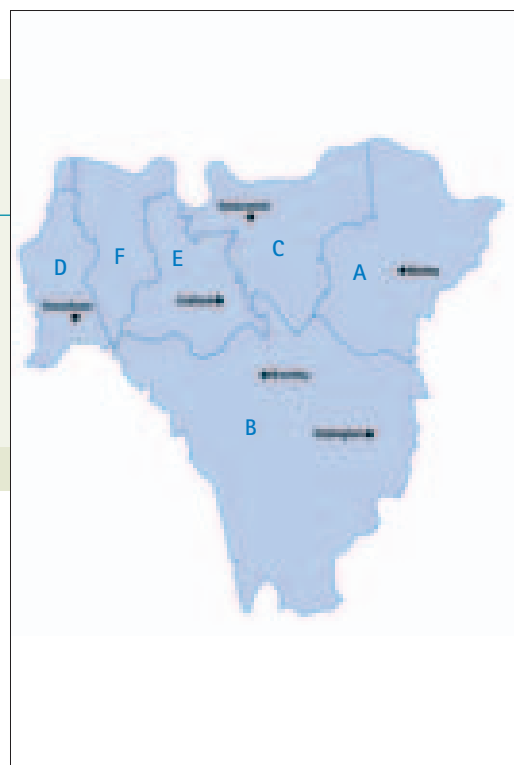
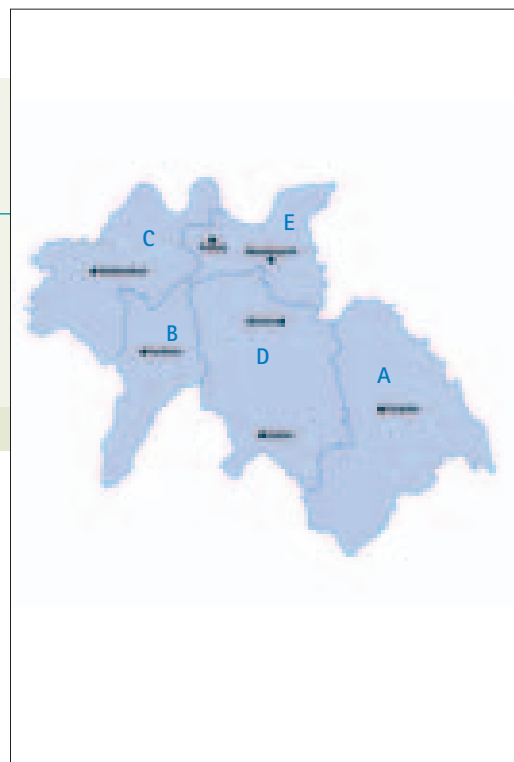


Table 22 South West London Strategic Health Authority

Primary Care Trust (PCT)		PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted
Croydon	A	331,406	0	0	
Kingston	B	147,356	0	0	
Richmond and Twickenham	C	172,474	0	0	
Sutton and Merton	D	368,480	0	0	
Wandsworth	E	259,864	0	0	
Totals		1,279,580	0	0	



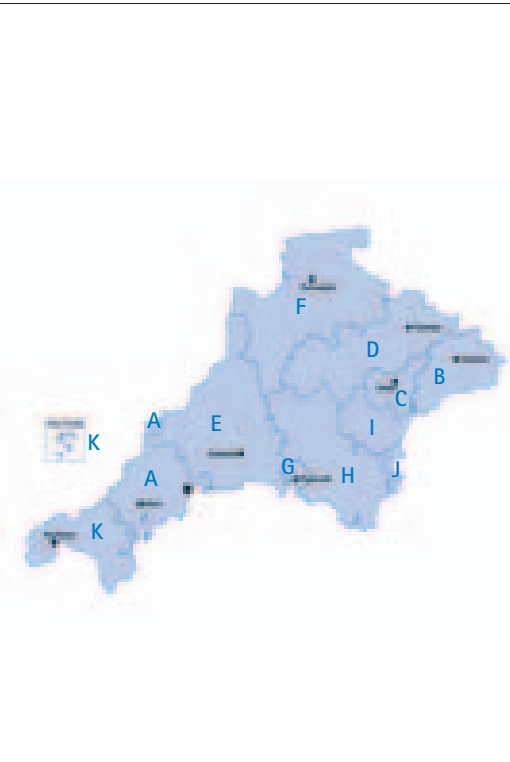


Table 23 South West Peninsula Strategic Health Authority

Primary Care Trust (PCT)		PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted
Central Cornwall	A	184,265	0	0	
East Devon*	B	117,674	variable low levels	variable low levels	Natural low levels
Exeter	C	130,206	0	0	
Mid Devon	D	92,204	0	0	
North and East Cornwall	E	156,064	0	0	
North Devon	F	146,216	0	0	
Plymouth	G	234,266	0	0	
South Hams and West Devon	H	109,761	0	0	
Teignbridge	I	105,290	0	0	
Torbay	J	129,848	0	0	
West of Cornwall	K	156,156			
Totals		1,561,950	0	0	

* Some bore hole supplies have elevated fluoride levels, but too low to be of dental benefit.

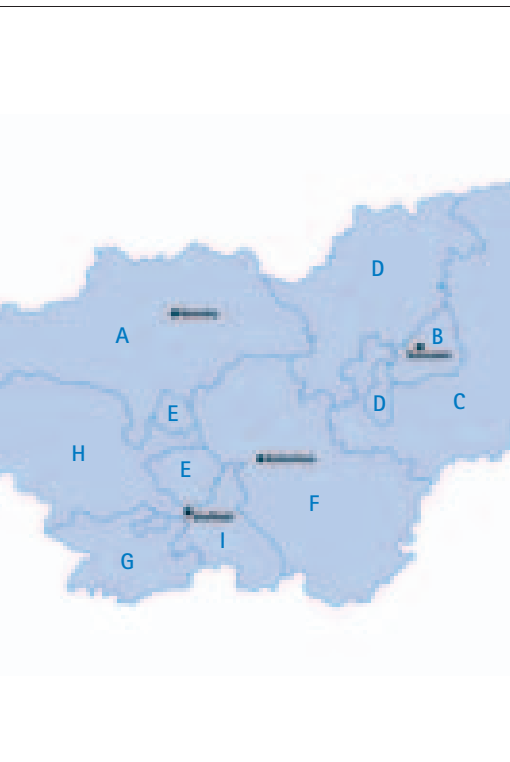


Table 24 South Yorkshire Strategic Health Authority

Primary Care Trust (PCT)		PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted
Barnsley	A	218,125	0	0	
Doncaster Central	B	70,401	0	0	
Doncaster East	C	110,122	0	0	
Doncaster West	D	104,970	0	0	
North Sheffield	E	117,114	0	0	
Rotherham	F	248,352	0	0	
Sheffield South West	G	124,598	0	0	
Sheffield West	H	107,094	0	0	
South East Sheffield*	I	164,239	?	?	Adjusted
Totals		1,265,015	0	0	

* Some parts of this area receive fluoridated supplies from Severn Trent Water Company.

Table 25 Surrey and Sussex Strategic Health Authority

Primary Care Trust (PCT)	PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted
Adur, Arun and Worthing	A	216,387	0	0
Bexhill and Rother	B	87,368	0	0
Brighton and Hove City	C	248,061	0	0
Crawley	D	99,679	0	0
East Elmbridge and Mid Surrey	E	260,806	0	0
East Surrey	F	159,808	0	0
Eastbourne Downs	G	166,311	0	0
Guildford and Waverley	H	222,319	0	0
Hastings and St Leonards	I	85,325	0	0
Horsham and Chanctonbury	J	100,790	0	0
Mid-Sussex	K	130,195	0	0
North Surrey	L	199,554	0	0
Sussex Downs and Weald	M	153,865	0	0
Western Sussex	N	206,581	0	0
Woking	O	199,939	0	0
Totals		2,536,988	0	0

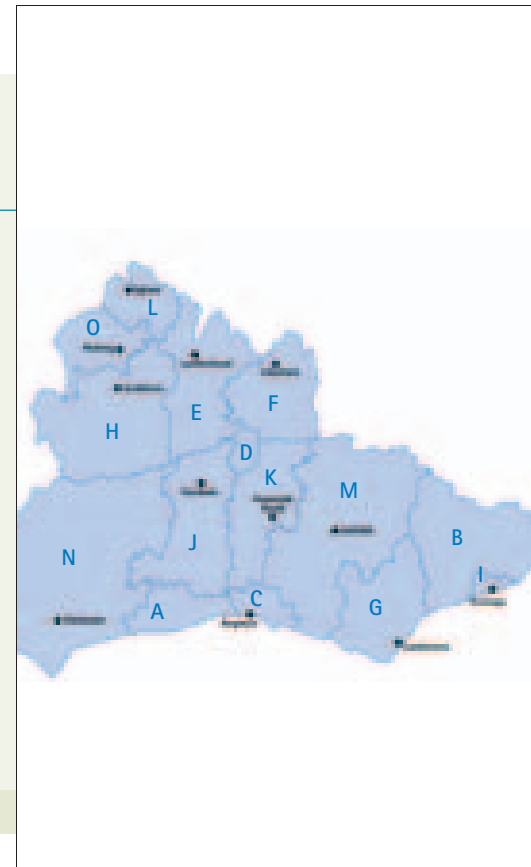


Table 26 Thames Valley Strategic Health Authority

Primary Care Trust (PCT)	PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted
Bracknell Forest	A	108,151	0	0
Cherwell Vale	B	122,009	0	0
Chiltern & South Buckinghamshire	C	159,751	0	0
Milton Keynes	D	211,671	0	0
Newbury and Community	E	93,090	0	0
North East Oxfordshire	F	69,101	0	0
Oxford City	G	154,597	0	0
Reading	H	194,294	0	0
Slough	I	119,059	0	0
South East Oxfordshire	J	92,996	0	0
South West Oxfordshire	K	190,520	0	0
Vale of Aylesbury	L	176,322	0	0
Windsor, Ascot and Maidenhead	M	143,891	0	0
Wokingham	N	148,789	0	0
Wycombe	O	134,621	0	0
Totals		2,118,862	0	0

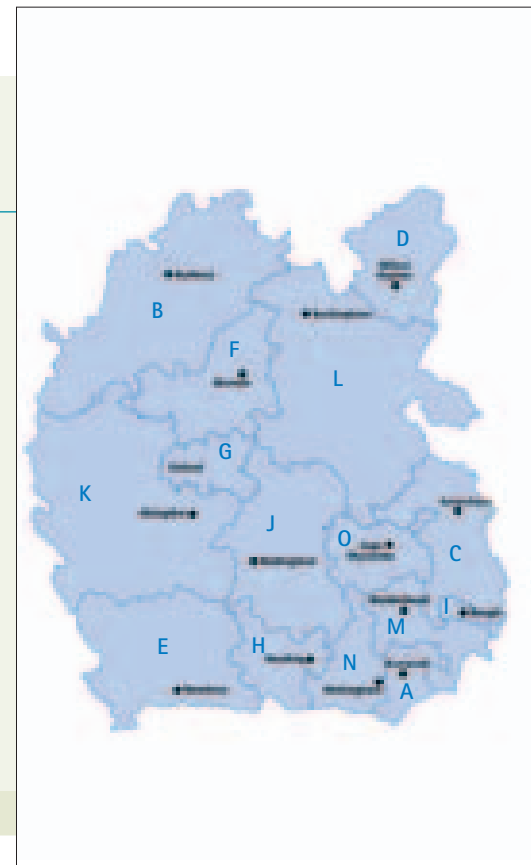




Table 27 Trent Strategic Health Authority

Primary Care Trust (PCT)		PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted
Amber Valley	A	116,564	0	0	
Ashfield	B	81,777	81,777	100	Adjusted
Bassetlaw	C	107,327	107,327	100	Adjusted
Broxtowe and Hucknall	D	136,951	0	0	
Central Derby	E	64,320	0	0	
Chesterfield	F	98,882	0	0	
Derbyshire Dales & S Derbyshire	G	107,461	22,000	20	Adjusted
East Lincolnshire	H	265,403	0	0	
Erewash	I	110,123	0	0	
Gedling	J	111,795	0	0	
Greater Derby	K	157,342	0	0	
High Peak and Dales	L	100,153	0	0	
Lincolnshire South West	M	160,683	32,137	20	Adjusted
Mansfield District	N	97,993	97,993	100	Adjusted
Newark and Sherwood	O	105,709	0	0	
North Eastern Derbyshire*	P	168,767	?	?	Adjusted
Nottingham City	Q	266,780	0	0	
Rushcliffe	R	105,507	0	0	
West Lincolnshire	S	217,042	217,042	100	Adjusted
Totals		2,580,579	558,276	22	Adjusted

* Some parts of this area receive fluoridated supplies from Severn Trent Water Company.

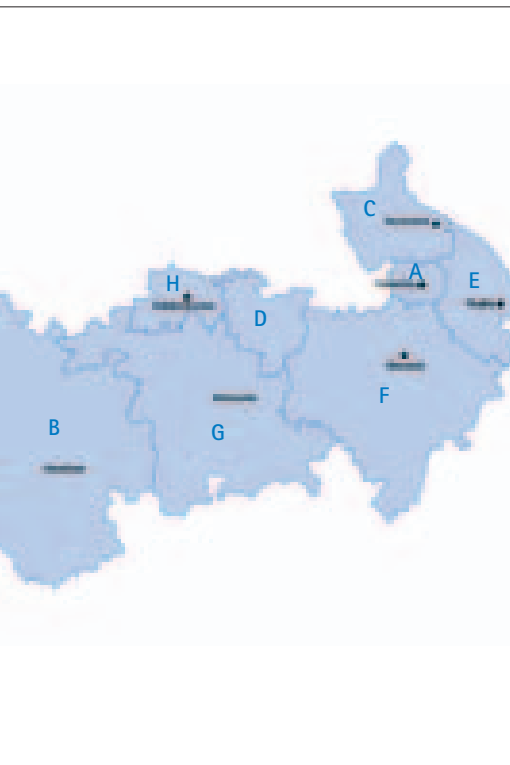
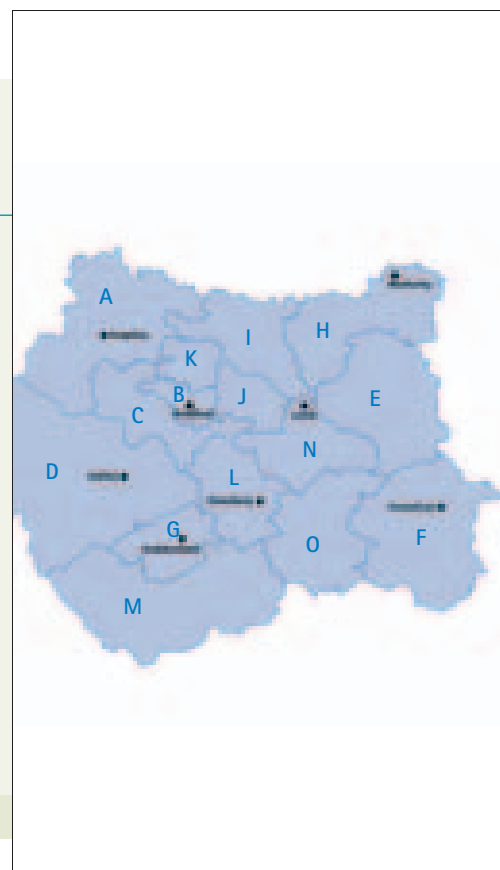


Table 28 West Midlands South Strategic Health Authority

Primary Care Trust (PCT)		PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted
Coventry	A	300,700	300,700	100	Adjusted
Herefordshire	B	174,900	0	0	
North Warwickshire	C	181,100	181,100	100	Adjusted
Redditch and Bromsgrove	D	166,700	152,300	91	Adjusted
Rugby	E	87,500	87,500	100	Adjusted
South Warwickshire	F	237,600	162,200	68	Adjusted
South Worcestershire	G	278,700	87,800	32	Adjusted
Wyre Forest	H	96,900	13,400	14	Adjusted
Totals		1,524,100	985,000	65	Adjusted

Table 29 West Yorkshire Strategic Health Authority

Primary Care Trust (PCT)	PCT population	PCT Population with fluoridated water supply	% of total population	Natural or adjusted
Airedale	A	116,192	0	0
Bradford City	B	135,189	0	0
Bradford South and West	C	132,310	0	0
Calderdale	D	192,381	0	0
East Leeds	E	162,757	0	0
Eastern Wakefield	F	171,976	0	0
Huddersfield Central	G	137,821	0	0
Leeds North East	H	111,524	0	0
Leeds North West	I	185,393	0	0
Leeds West	J	108,892	0	0
North Bradford	K	84,257	0	0
North Kirklees	L	170,627	0	0
South Huddersfield	M	80,460	0	0
South Leeds	N	145,835	0	0
Wakefield West	O	142,712	0	0
Totals		2,078,326	0	0



The information provided about the extent of fluoridation in the UK is an estimate of population coverage. Local water suppliers are able to provide their customers with water quality information (including fluoride concentration) for their own home supply. It is a good idea to establish accurate details of the home water supply fluoride concentration if a fluoride supplementation (e.g. tablets or drops) is being considered for young children. Depending on the water fluoride level, supplementation may not be advisable; parents should therefore seek their dentist's advice before starting. A list of water suppliers and their contact details, together with a map showing the approximate supply area covered by each is included on page 78 at the end of this Section. For further information visit Water UK's website at www.water.org.uk.

How fluoridation could be extended in the UK

In the late 1980s and early 1990s, many health authorities in areas where dental health was poor asked water suppliers to fluoridate their supplies, but had their requests refused (See section 6, *Legal aspects & decision making for further details*).

Dental public health experts recommend that targeted water fluoridation of large public water supplies – as opposed to universal or 'blanket'

fluoridation – is the most cost-effective approach. In some non-fluoridated areas – such as the affluent Home Counties – most people who live there already have good dental health and would probably not benefit much further from water fluoridation. Elsewhere, rural areas with poor dental health, such as the Highlands of Scotland, do not have large enough public water supplies to make water fluoridation a cost effective option.

The British Dental Association argues that a modest increase in coverage of water fluoridation from the current 10% to 25-35% of the UK population to cover areas where dental health is worst and where single water supplies serve large population, would have a significant impact on dental health and dental inequalities.

Fluoridation worldwide

Throughout the world we estimate that approximately 350 million people drink artificially fluoridated water and that at least a further 50 million drink water whose natural fluoride level is at or around optimal (i.e. 1 part of fluoride for every million parts of water)ⁱ. However, it should be noted that for many countries we have not been able to obtain any information about fluoridation status so, in particular, the number of people benefiting

ⁱ The British Fluoridation Society and the US Public Health Service, Division of Oral Health, CDC, have collaborated in the compiling and verification of much of these data. Whilst the information included is the best estimate currently available, some information will be incomplete or may have errors which are unknown to the British Fluoridation Society or to the USPHS Division of Oral Health, CDC. We are grateful to the many colleagues throughout the world who responded to our request for information.

from naturally optimally fluoridated water is likely to be much higher than the 50 million reported. In some countries (particularly parts of India, Africa and China) drinking water can contain very high concentrations of naturally occurring fluoride. These levels are not considered optimal for dental or general health.

Countries using adjusted fluoridation schemes include the UK, Chile, South Korea, Singapore, Spain, Ireland, the United States, Canada, Brazil, Malaysia, Vietnam, Australia, and New Zealand. Other countries (for example South Africa and Japan) have enacted the necessary legislation and plan to introduce schemes in the imminent future. Contrary to opponents claims, fluoridation has not been banned anywhere.

The countries worldwide where at least some of the population is known to benefit from fluoridated water – either natural or adjusted – are listed on page 75 at the end of this Section. For each country, the estimated number and proportion of the population served is given.

The position in Europe

In Western Europe, approximately 12 million people benefit from an artificially fluoridated water supply (UK 6 million; Ireland 2.3 million; Spain 4 million). In Ireland, fluoridation of all sizable public water systems is mandatory.

A water fluoridation scheme serving approximately 0.2 million people in the Swiss canton of Basle was in operation from 1962 until as recently as April 2003. A fluoridated salt programme served the remainder of the Swiss population – and the Swiss Government has now opted to switch from fluoridated water to fluoridated salt in Basleⁱ.

As well as Switzerland, many other European countries including France, Austria, Germany, Hungary, Slovakia and Belarus use fluoridated salt widely. However, in densely populated parts of the UK, where relatively few water sources serve large populations, water fluoridation is considered the most effective means of preventing tooth decay on a community-wide scale.

The Netherlands was amongst the pioneering fluoridating countries and by 1973 around 5 million people (30% of the population) were benefiting from fluoridated water. However, in their attempts to modify inadequate legislation,

the Government were forced into battle with anti-fluoridation activists and this eventually resulted in fluoridation being withdrawn. This was in spite of strong support from the health departments at the time [1]; indeed, after water fluoridation was withdrawn the Government concentrated their efforts on encouraging parents to give children fluoride supplements from a very young age.

Similarly, in Finland a scheme serving the city of Kupio (population 76,000) was in operation from 1959 to 1992. Again, it is sometimes claimed that fluoridation was ‘banned’ in Finland but this is not the case. In fact the scheme was stopped because the plant equipment was in need of repair whereupon the minority opposed to fluoridation stepped up their activities. Subsequently the Finnish Government, who by this time had dental disease in the population largely under control, decided that on balance it was probably not worth re-starting the scheme.

In Sweden, enabling legislation was introduced in the 1960s and many towns and districts sought and were granted permission to fluoridate. However, following another tough political battle, the legislation was withdrawn before they had time to implement the planned schemes [1].

Clearly, fluoridation of water supplies is not as extensive in Europe as it is in the US and elsewhere. However, it is important to note that the use of *fluoride* – whether in water, salt, toothpaste, milk or tablets and drops – is the foundation of prevention of tooth decay throughout Europe.

The United States continues to extend fluoridation

The United States is one of the most extensively fluoridated countries in the world with the first schemes starting in 1945. Some 171 million people – almost 68% of the population on public water systems – receive artificially fluoridated water. Major cities which are fluoridated include New York, Chicago, Philadelphia, Houston, Detroit, Dallas, San Francisco, Washington DC, Boston, Seattle, Memphis and Atlanta.

The 2000 US Surgeon General’s report stated that: *‘community water fluoridation continues to be the most cost-effective, practical and safe means for reducing and controlling the occurrence of tooth decay in a community.’*

As such, the US continues to extend fluoridation and in recent years fluoridation schemes have

ⁱ Personal communication from Professor Thomas Marthaler, 2003.

been introduced for several millions more US citizens in major cities including San Antonio, Los Angeles, Las Vegas, Sacramento and Mesa. A scheme that will benefit approximately 7 million more Southern Californians has

recently been announced by the largest water supply agency in California.

Forty-six of the 50 largest US cities are fluoridated (see Table 30 below).

Table 30 Fluoridation Status of the Largest 50 U. S. Citiesⁱ

Rank 1999	City	State	Population*	Fluoridation Status	Year
1	New York	NY	8,008,278	Fluoridated	1965
2	Los Angeles	CA	3,694,820	Fluoridated	1999
3	Chicago	IL	2,896,016	Fluoridated	1956
4	Houston	TX	1,953,631	Fluoridated	1982
5	Philadelphia	PA	1,517,550	Fluoridated	1954
6	Phoenix	AZ	1,321,045	Fluoridated	1990
7	San Diego	CA	1,223,400	Approved**	2000
8	Dallas	TX	1,188,580	Fluoridated	1966
9	San Antonio	TX	1,144,646	Fluoridated	2002
10	Detroit	MI	951,270	Fluoridated	1967
11	San Jose	CA	894,943	Non Fluoridated***	
12	Indianapolis	IN	791,926	Fluoridated	1951
13	San Francisco	CA	776,733	Fluoridated	1952
14	Jacksonville	FL	735,617	Natural	N/A
15	Columbus	OH	711,470	Fluoridated	1973
16	Austin	TX	656,562	Fluoridated	1973
17	Baltimore	MD	651,154	Fluoridated	1952
18	Memphis	TN	650,100	Fluoridated	1970
19	Milwaukee	WI	596,974	Fluoridated	1953
20	Boston	MA	589,141	Fluoridated	1978
21	Washington	DC	572,059	Fluoridated	1952
22	Nashville–Davidson	TN	569,891	Fluoridated	1953
23	El Paso	TX	563,662	Natural	N/A
24	Seattle	WA	563,374	Fluoridated	1970
25	Denver	CO	554,636	Fluoridated	1954
26	Charlotte	NC	540,828	Fluoridated	1949
27	Fort Worth	TX	534,694	Fluoridated	1965
28	Portland	OR	529,121	Not Fluoridated****	---
29	Oklahoma City	OK	506,132	Fluoridated	1954
30	Tucson	AZ	486,699	Natural (partial)	N/A
31	New Orleans	LA	484,674	Fluoridated	1974
32	Las Vegas	NV	478,434	Fluoridated	2000
33	Cleveland	OH	478,403	Fluoridated	1956
34	Long Beach	CA	461,522	Fluoridated	1971
35	Albuquerque	NM	448,607	Fluoridated	1974

ⁱ Reproduced by kind permission of M. W. Easley, National Center for Fluoridation Policy & Research, All Rights Reserved. Revised 6 August 2002

Rank 1999	City	State	Population*	Fluoridation Status	Year
36	Kansas City	MO	441,545	Fluoridated	1983
37	Fresno	CA	427,652	Fluoridated (partial)	1954
38	Virginia Beach	VA	425,257	Fluoridated	1952
39	Atlanta	GA	416,474	Fluoridated	1969
40	Sacramento	CA	407,018	Fluoridated	2000
41	Oakland	CA	399,484	Fluoridated	1976
42	Mesa	AZ	396,375	Fluoridated	2000
43	Tulsa	OK	393,049	Fluoridated	1953
44	Omaha	NE	390,007	Fluoridated	1969
45	Minneapolis	MN	382,618	Fluoridated	1957
46	Honolulu	HI	371,657	Not Fluoridated****	---
47	Miami	FL	362,470	Fluoridated	1952
48	Colorado Springs	CO	360,890	Natural	N/A
49	St. Louis	MO	348,189	Fluoridated	1955
50	Wichita	KS	344,284	Not Fluoridated*****	---

* U.S. Census Bureau Population Estimates, April 2000

** San Diego (California) recently approved fluoridation. Fluoridation has not been implemented yet, however it will commence as soon as fluoridation equipment installation is completed at the jurisdictions' water plants.

*** San Jose (California) will be required to fluoridate under California's Mandatory Fluoridation Law (AB733) enacted in 1995.

**** Portland (Oregon) and Honolulu (Hawai'i) are not fluoridated, however legislation has been introduced in both states' legislatures that, if passed, will mandate fluoridation in all cities.

***** Wichita (Kansas), while not fluoridated, is experiencing extensive local legislative efforts that, if successful, would require Wichita to fluoridate.

Sources: U.S. Bureau of Census, April 1, 2000, U.S. Population, City Rankings; University of Texas Health Science Center, San Antonio, Fluoridation Facts; & Division of Oral Health, U.S. Centers for Disease Control & Prevention, Fluoridation Census, 1992.

Central and South America

A number of South American countries practice artificial water fluoridation – including Brazil, Argentina and Chile. In many other Central and South American countries (including Costa Rica, Guatemala, Nicaragua, Jamaica, Uruguay, Ecuador and Mexico) the use of fluoridated salt is widespread – indeed Mexico now requires all salt to be fluoridated and does not allow non-fluoridated salt into the country.

References

1. Frank RM, O'Hickey S, (1987): *Strategy for dental caries prevention in European countries according to their laws and regulations*: IRL Press.

Table 31 Optimal Water Fluoridation: Status Worldwideⁱ

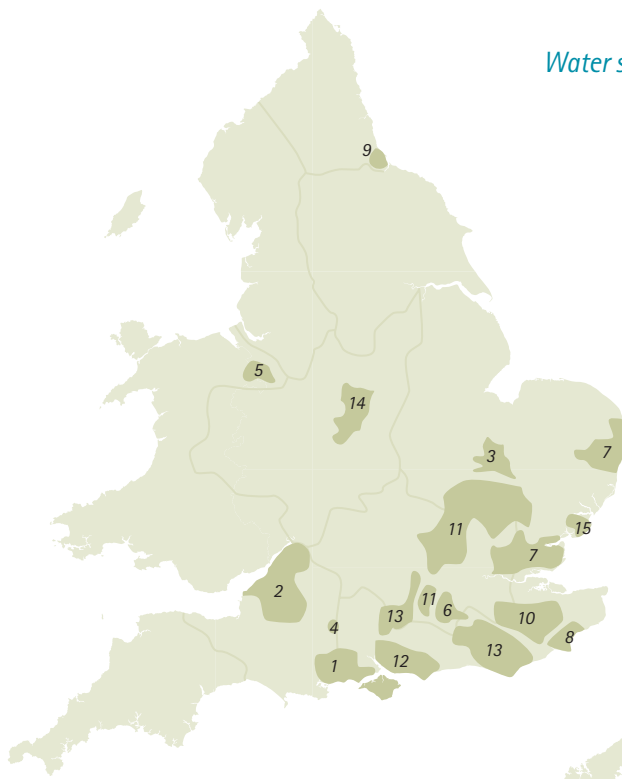
Country	Population	Adjusted population served	Natural population served	Total population served (%)
Argentina ^a	35,926,000	3,100,000	4,500,000	21.1
Australia ^b	19,338,000	11,722,000	143,433	61.0
Austria ^c	8,070,000	0	160,000	2.0
Brazil ^b	172,558,000	65,585,000	?	>41.0
Brunei ^a	310,000	175,000	0	56.0
Canada ^c	31,000,000	13,330,000	300,000	43.0
Chile ^b	15,401,000	5,423,877	788,550	40.0
China	1,292,378,000	0	200,000,000 ⁱⁱ	15.0
Colombia	42,802,000	29,406,860	600,140	70.0
Cuba ^d	11,236,000	iii	0	
Cyprus ^c	689,471	0	approx 40,000	5.7
Czech Republic	10,260,000	0 ^{iv}	15,000	<0.1
Denmark	5,332,000	0	50,000	1.0
Egypt ^d	69,079,000	v	0	
Fiji	822,000	300,000	0	36.0
Finland	5,177,000	0 ^{vi}	200,000	4.3
France	59,452,000	0 ^{vii}	1,800,000	3.0
Gabon	1,261,000	0	1,261,000	100
Germany	82,183,824	0 ^{viii}	0	0
Guatemala ^c	11,686,000	1,800,000	?	15.0
Guyana	762,000	45,000	200,000	32.0
Haiti	8,269,000	0	11,461	<0.1
Hong Kong ^c	6,708,309	6,708,309	0	100.0
Iran	71,368,000	0	ix	
Ireland ^f	3,840,000	2,345,000	200,300	66.0
Israel ^a	6,370,000	4,267,900	509,000	75.0
Italy	57,502,000	0	x	
Japan ^g	127,334,000	0 ^{xi}	0	0
Korea ^g	46,125,000	5,367,000	0	11.4
Kiribati	84,000	0	50,400	approx 60.0
Libya ^d	5,407,000	400,000	1,000,000	26.0
Malaysia ^a	22,632,000	approx 15,842,000	0	approx 70.0

Country	Population	Adjusted population served	Natural population served	Total population served (%)
Malta ^c	386,000	0	38,600	10.0
Mexico ^a	100,367,000	0 ^{xii}	3,000,000	3.0
Namibia	1,787,000	0	approx 200,000	approx 11.0
Nauru	13,000	0	^{xiii}	
Netherlands	16,000,000	0 ^{xiv}	0	0
New Zealand	3,807,000	2,317,728	0	61.0
Nigeria	116,928,000	0	20,000	<0.1
Panama ^a	2,898,000	509,554 ^{xv}	0	18.0
Papua New Guinea (1975)	4,919,000	102,000	70,000	3.0
Paraguay (1977)	5,635,000	350,000	^{xvi}	>6.0
Peru ^d	26,092,000	500,000	80,000	2.0
Philippines	77,130,000	approx 5,000,000	850,000	approx 8.0
Poland	38,576,000	80,000	300,000	1.0
Puerto Rico ^a	3,500,000	approx 35,000 ^{xvii}	0	<1.0
Senegal	9,661,000	0	1,000,000	10.0
Serbia	10,537,000	300,000	?	approx 3.0
Singapore ^b	4,107,000	4,107,000	0	100.0
South Africa ^a	43,791,000	0 ^{xviii}	?	?
Spain	39,920,000	4,000,000	0	10.0
Sri Lanka	19,103,000	0	2,799,390	15.0
Sweden	8,832,000	0	750,000	8.4
Taiwan ^e	22,500,000	0 ^{xix}	?	
Tanzania ^c	35,000,000	0	12,250,000 ^{xx}	35.0
Thailand ^a	60,161,000	91,000	approx 150,000	approx 4.0
UK ^c	59,541,000	5,400,000	330,000	10.0
USA ^a	281,421,906	171,000,000	10,001,000	64.0 ^{xxi}
Uruguay	3,360,000	0	15,000	<0.1
Venezuela	24,631,000	0	100,000	<0.1
Vietnam	79,700,000	4,400,000	0	6.0
Zaire	37,500,000	0	600,000	2.0
Zambia ^c	10,200,000	0	947,166 ^{xxii}	10.0
Zimbabwe ^c	13,000,000	0	2,600,000 ^{xxiii}	20.0
TOTALS		355,105,318	49,961,040^{xxiv}	

- i Data published by FDI 1990 unless otherwise indicated as follows: a USPHS Division of Oral Health, CDC, 2002/3; b USPHS Division of Oral Health, CDC, 1998; c British Fluoridation Society survey, 2002; d FDI 1981; e FDI 1984; f O'Mullane, 1996; g Journal of Dental Health (Official publication of the Japanese Society for Dental Health) 51(4) 2001.
- ii Includes above optimal.
- iii Water fluoridation schemes in operation in 5 communities, number of people affected unknown.
- iv Extensive fluoridation served 1.5 million people in the Prague area, 1975-1989.
- v Pilot study begun in Alexandria number of people affected unknown.
- vi Kuopio (population 76,000) fluoridated 1959-1992.
- vii Fluoridated salt was introduced in 1986 and, for example for the period 1991-1996, made up 40-50% of sales.
- viii Fluoridation in former GDR discontinued since reunification. Fluoridated salt was introduced in 1991 and as at 1997 made up 25% of sales.
- ix Several cities, population coverage not known.
- x 1 community, population coverage not known.
- xi Planning to start fluoridation in Kumejima, Okinawa soon.
- xii 100% of salt is fluoridated.
- xiii Water supplies imported from Australia & New Zealand, not known if fluoridated.
- xiv Fluoridation to around 30% of the Netherlands population was ceased in 1973 because of inadequate legislation and anti-fluoridation activity.
- xv This estimate dates from 1974. However, recent communication with CDC confirmed that artificial fluoridation continues in the two largest cities.
- xvi 3 communities numbers covered not known.
- xvii Puerto Rico has passed a mandatory fluoridation law which has not been enforced yet.
- xviii Mandatory fluoridation regulations signed in 2001; expected to start widespread fluoridation during 2003/2004.
- xix Fluoridation project serving 600,000 operational from 1969 to 1981. Discontinued because of antifuoridation activity.
- xx Remaining 65% of the population are at higher than optimal concentrations.
- xxi This rises to 67.9% when expressed as a % of the population served by public water systems
- xxii Approximately 300,000 people receive water at 2.78 parts per million.
- xxiii Approximately 650,000 people receive water with higher than optimal fluoride concentration
- xxiv Excluding China where levels include above optimal.

Approximate supply areas covered by water companies

Water supply only companies



- 1 Bournemouth & West Hampshire Water plc
- 2 Bristol Water plc
- 3 Cambridge Water plc
- 4 Cholderton & District Water Company
- 5 Dee Valley Water plc
- 6 Sutton and East Surrey Water plc
- 7 Essex & Suffolk Water (part of Northumbrian Water Ltd)
- 8 Folkestone & Dover Water Services Ltd
- 9 Anglian Water Services Ltd
- 10 Mid Kent Water plc
- 11 Three Valleys Water plc
- 12 Portsmouth Water plc
- 13 South East Water plc
- 14 South Staffordshire Water plc
- 15 Tendring Hundred Water Services Ltd

Water and sewerage operators and Northern Ireland Water Service



Water company details

Water supply only companies

Anglian Water Services Ltd (part of awg plc)

Anglian House
Ambury Road
Huntingdon
Cambs PE23 3NZ
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Fax: +44 (0)1480 323 115
<http://www.anglianwater.co.uk>

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Bournemouth
Dorset BH11 8NB
Phone: +44 (0)1202 591 111
Fax: +44 (0)1202 597 022
<http://www.bwhwater.co.uk>

Bristol Water plc

PO Box 218
Bridgwater Road
Bristol BS99 7AU
Phone: +44 (0)117 966 5881
Fax: +44 (0)117 963 4576
<http://www.bristolwater.co.uk>

Cambridge Water plc

41 Rustat Road
Cambridge CB1 3QS
Phone: +44 (0)1223 403 000
Fax: +44 (0)1223 214 052
<http://www.cambridge-water.co.uk>

Cholderton & District Water Company

Estate Office
Cholderton
Salisbury
Wiltshire SP4 0DR
Phone: +44 (0)1980 629 203
Fax: +44 (0)1980 629 307

Dee Valley Water plc

Packsaddle
Wrexham Road
Rhostyllen
Wrexham LL14 4EH
Phone: +44 (0)1978 846 946
Fax: +44 (0)1978 846 888

Essex & Suffolk Water plc (part of Northumbrian Water Ltd)

Hall Street
Chelmsford
Essex CM2 0HH
Phone: +44 (0)1245 491234
Fax: +44 (0)1245 212345
<http://www.eswater.co.uk>

Folkestone & Dover Water Services Ltd

Cherry Garden Lane
Folkestone
Kent CT19 4QB
Phone: +44 (0)1303 298800
Fax: +44 (0)1303 276712

Mid Kent Water plc

Snodland
Kent ME6 5AH
Phone: +44 (0)1634 873 111
Fax: +44 (0)1634 242 764
<http://www.midkentwater.co.uk>

Portsmouth Water plc

PO Box 8
West Street, Havant
Hampshire PO9 1LG
Phone: +44 (0)2392 499 888
Fax: +44 (0)2392 453 632
Minicom: +44 (0)345 585873
<http://www.portsmouthwater.co.uk>

South East Water plc (part of the SAUR group)

3 Church Road
Haywards Heath
West Sussex RH16 3NY
Phone: +44 (0)1444 448 200
Fax: +44 (0)1444 413 200
<http://www.southeastwater.co.uk>

South Staffordshire Water plc

Green Lane
Walsall
West Midlands WS2 7PD
Phone: +44 (0)1922 638 282
Fax: +44 (0)1922 723 631
Minicom: +44 (0)1922 618 025
<http://www.south-staffs-water.co.uk>

Sutton and East Surrey Water plc

London Road
Redhill
Surrey RH1 1LY
Phone: +44 (0)1737 772 000
Fax: +44 (0)1737 766 807
<http://www.waterplc.com>

Tending Hundred Water Services Ltd

Mill Hill
Manningtree
Essex CO11 2AZ
Phone: +44 (0)1206 399 200
Fax: +44 (0)1206 399 210
<http://www.thws.co.uk>

Three Valleys Water plc

PO Box 48
 Bishops Rise
 Hatfield
 Hertfordshire AL10 9HL
 Phone: +44 (0)1707 268 111
 Fax: +44 (0)1707 277 333
<http://www.3valleys.co.uk>

*Water and sewerage operators and Northern Ireland Water Service**Anglian Water Services Ltd (part of awg plc)*

Anglian House
 Ambury Road
 Huntingdon
 Cambs PE29 3NZ
 Phone: +44 (0)1480 323 000
 Fax: +44 (0)1480 323 115
<http://www.anglianwater.co.uk>

Dwr Cymru Cyfyngedig/Welsh Water

Pentwyn Road,
 Nelson
 Treharris
 Mid Glamorgan CF46 6LY
 Phone: +44 (0)1443 452300
 Fax: +44 (0)1443 452809
<http://www.dwrcymru.co.uk>

Northern Ireland Water Service

Northland House
 3 Frederick Street
 Belfast BT1 2NR
 Phone: +44 (0)2890 244 711
 Fax: + 44 (0)2890 354 888
<http://www.doeni.gov.uk/water>

Northumbrian Water Ltd

(part of Ondeo group)
 Abbey Road
 Pity Me
 Durham DH1 5FJ
 Phone: +44 (0)191 383 2222
 Fax: +44 (0)191 384 1920
<http://www.nwl.co.uk>

Scottish Water

6 Castle Drive
 Carnegie Campus
 Dunfirmline
 KY11 8GG
 Phone: +44 (0) 1383 848200
 Fax: +44 (0) 1328 622090
<http://www.scottishwater.co.uk/>

Severn Trent plc

2297 Coventry Road
 Birmingham B26 3PU
 Phone: +44 (0)121 722 4000
 Fax: +44 (0)121 722 4800
<http://www.severn-trent.com>

South West Water Ltd

(subsidiary of Pennon Group plc)
 Peninsula House
 Rydon Lane
 Exeter EX2 7HR
 Phone: +44 (0)1392 446 688
 Fax: +44 (0)1392 434 966
<http://www.southwestwater.co.uk>

Southern Water

Southern House
 Yeoman Road
 Worthing
 West Sussex BN13 3NX
 Phone: +44 (0)1903 264 444
 Fax: +44 (0)1903 262 185
<http://www.southernwater.co.uk>

Thames Water Utilities Ltd

Gainsborough House
 Manor Farm Road
 Reading RG2 0JN
 Phone: +44 (0)118 959 1159
 Fax: +44 (0)1793 420711
<http://www.thames-water.com>

United Utilities Water plc

Dawson House
 Liverpool Road
 Great Sankey
 Warrington WA5 3LW
 Phone: +44 (0)1925 234 000
 Fax: +44 (0)1925 233 360
<http://www.unitedutilities.com>

Wessex Water Services Ltd

Claverton Down
 Bath
 BA2 7WW
 Phone: +44 (0)1225 526000
 Fax: +44 (0)1225 528000
<http://www.wessexwater.co.uk>

Yorkshire Water Services Ltd

Western House
 Western Way
 Halifax Road
 Bradford BD6 2LZ
 Phone: +44 (0)1274 600 111
 Fax: +44 (0)1274 608 608
<http://www.yorkshirewater.com>