

Data Summary Tables for Dŵr Cymru Welsh Water (DWR)

These tables contain a summary of results of monitoring undertaken by the water company in 2006 and submitted to the Drinking Water Inspectorate. The tables are published by the Inspectorate as part of the Chief Inspector's Report entitled 'Drinking water 2006'.

The tables and full content of the Drinking Water Inspectorate's annual report are available on the Inspectorate's website at <http://www.dwi.gov.uk>

Notes relating to the interpretation of the tables : -

Columns on the following tables that are headed '1 percentile representing a minimum' and '99 percentile representing a maximum' contain figures for the 1 percentile and 99 percentile sample results respectively except where less than 100 samples were taken, when the figures are the actual maximum and minimum results.

The symbol < indicates that the result was less than the limit of detection of the analytical method used.

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Data Summary 2006 for DWR CYMRU CYFYNGEDIG (WELSH WATER)

Table DWR 1: Quality of water leaving treatment works - European Standards

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of works with failures
Nitrite	A013B	0.1 mg NO ₂ /l	807	0	<0.002	0.03392	0
TOTAL	-	-	807	0	-	-	-

Table DWR 2: Quality of water leaving treatment works - National Standards

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of works with failures
Coliform Bacteria	C001	0 number/100 ml	7076	0	0	0	0
Cryptosporidium	C111	ooocysts >1 in10 litres	6490	0	<0.01	<0.01	0
<i>E. coli</i>	C002	0 number/100 ml	7076	0	0	0	0
TOTAL	-	-	20642	0	-	-	-

Table DWR 3: Quality of water leaving treatment works - Additional Monitoring Requirements

Indicator Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Colony Counts After 3 Days At 22°C	C007	No abnormal change	7077	n/a	<1	21
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	7077	n/a	<1	6
Residual Disinfectant - Free	C009	No abnormal change	7085	n/a	0.03	1.23
Residual Disinfectant - Total	C010	No abnormal change	7085	n/a	0.31	1.4
Turbidity	A002A	1 NTU	11772	43	<0.05	0.5427
TOTAL	-	-	40096	43	-	-

Table DWR 4: Quality of water leaving service reservoirs - National Standards

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of reservoirs failing standard
Coliform Bacteria	C001	0 number/100 ml	22440	16	0	0	0
<i>E. coli</i>	C002	0 number/100 ml	22440	0	0	0	0
TOTAL	-	-	44880	16	-	-	-

Table DWR 5: Quality of water leaving service reservoirs - Additional Monitoring Requirements

Indicator Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Colony Counts After 3 Days At 22°C	C007	No abnormal change	22441	n/a	<1	64
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	22441	n/a	<1	5
Residual Disinfectant - Free	C009	No abnormal change	22449	n/a	<0.03	0.85
Residual Disinfectant - Total	C010	No abnormal change	22446	n/a	<0.01	1.17
TOTAL	-	-	89777	n/a	-	-

Table DWR 6: Quality of water leaving bulk supply points - European Standards

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of supply points with failures
1,2 Dichloroethane	F001	3 µg/l	258	0	<0.08	<0.08	0
Benzene	F002	1 µg/l	258	0	<0.06	<0.06	0
Boron	D005A	1 mg B/l	258	0	<0.013	0.04774	0
Bromate	F003	10 µg BrO ₃ /l	68	0	<0.001	0.004	0
Cyanide	B003	50 µg CN/l	258	0	<0.4	0.941	0
Fluoride	A027	1.5 mg F/l	258	0	<0.009	0.07164	0
Mercury	B005	1 µg Hg/l	258	0	<0.012	<0.015	0
Tetrachloroethene/Trichloroethene	D009B	10 µg/l	258	0	<0.16	<0.16	0
Pesticides (2,4,5-T)	P076	µg/l	185	0	<0.002	<0.003	0
Pesticides (2,4,-Db)	P082	µg/l	184	0	<0.002	<0.003	0
Pesticides (2,4-D)	P020	µg/l	185	0	<0.002	0.01598	0
Pesticides (Aldrin)	P002	µg/l	258	0	<0.001	<0.002	0
Pesticides (Alpha-HCH)	P003	µg/l	258	0	<0.001	<0.001	0
Pesticides (Asulam)	P133	µg/l	185	1	<0.005	<0.03902	1
Pesticides (Atrazine)	P004	µg/l	259	0	<0.001	0.0208	0
Pesticides (Benazolin)	P138	µg/l	185	0	<0.002	0.002	0
Pesticides (Beta-HCH)	P007	µg/l	258	0	<0.001	<0.002	0
Pesticides (Bromoxynil)	P008	µg/l	185	0	<0.001	0.00314	0
Pesticides (Captan)	P192	µg/l	259	0	<0.0042	0.007	0
Pesticides (Carbendazim)	P150	µg/l	108	0	<0.002	<0.003	0
Pesticides (Chlorfenvinphos)	P013	µg/l	258	0	<0.009	<0.01269	0
Pesticides (Chlorothalonil)	P015	µg/l	258	0	<0.001	0.003	0
Pesticides (Chlorpyrifos)	P017	µg/l	258	0	<0.003	<0.00423	0
Pesticides (Chlortoluron)	P014	µg/l	108	0	<0.002	<0.004	0
Pesticides (Diazinon)	P024	µg/l	258	0	<0.005	<0.00705	0
Pesticides (Dicamba)	P025	µg/l	185	0	<0.001	<0.002	0
Pesticides (Dichlofluanid)	P140	µg/l	258	0	<0.013	<0.01833	0
Pesticides (Dichlorprop)	P026	µg/l	185	0	<0.002	<0.002	0
Pesticides (Dieldrin)	P028	µg/l	258	0	<0.002	<0.002	0
Pesticides (Diuron)	P032	µg/l	108	0	<0.003	0.01865	0
Pesticides (Endosulfan A (alpha-Endosulfan))	P101	µg/l	258	0	<0.001	0.002	0
Pesticides (Endosulfan B (beta-Endosulfan))	P102	µg/l	258	0	<0.002	<0.004	0
Pesticides (Endrin)	P034	µg/l	258	0	<0.002	0.002	0
Pesticides (Ethofumersate)	P221	µg/l	259	0	<0.002	0.002	0

Pesticides (Fenpropidin)	P168	µg/l	259	0	<0.003	<0.003	0
Pesticides (Fenpropimorph)	P037	µg/l	259	0	<0.006	<0.006	0
Pesticides (Gamma-HCH (Lindane))	P041	µg/l	258	0	<0.001	<0.002	0
Pesticides (Glyphosate)	P042	µg/l	31	0	<0.008	0.008	0
Pesticides (Heptachlor)	P043	µg/l	258	0	<0.001	<0.002	0
Pesticides (Heptachlor epoxide)	P044	µg/l	258	0	<0.002	<0.002	0
Pesticides (Hexachlorobenzene)	P045	µg/l	258	0	<0.001	0.001	0
Pesticides (Ioxynil)	P049	µg/l	185	0	<0.001	<0.002	0
Pesticides (Isoproturon)	P048	µg/l	108	0	<0.003	<0.004	0
Pesticides (Linuron)	P051	µg/l	108	0	<0.003	<0.007	0
Pesticides (MCPA)	P054	µg/l	185	1	<0.002	0.09186	1
Pesticides (MCPB)	P055	µg/l	185	0	<0.002	<0.006	0
Pesticides (MCPB(Mecoprop))	P053	µg/l	185	0	<0.001	0.0137	0
Pesticides (Metamitron)	P194	µg/l	108	0	<0.002	<0.004	0
Pesticides (Methabenzthiazuron)	P167	µg/l	108	0	<0.002	<0.005	0
Pesticides (op-DDD (TDE))	P114	µg/l	258	0	<0.001	<0.002	0
Pesticides (op-DDE)	P115	µg/l	258	0	<0.001	<0.002	0
Pesticides (op-DDT)	P116	µg/l	258	0	<0.002	0.003	0
Pesticides (Parathion (Parathion ethyl))	P059	µg/l	258	0	<0.005	<0.00705	0
Pesticides (Pentachlorophenol)	P060	µg/l	185	0	<0.002	<0.012	0
Pesticides (Permethrin)	P119	µg/l	258	0	<0.003	0.004	0
Pesticides (pp-DDD (TDE))	P123	µg/l	258	0	<0.002	0.002	0
Pesticides (pp-DDE)	P124	µg/l	258	0	<0.001	<0.002	0
Pesticides (pp-DDT)	P125	µg/l	258	0	<0.001	<0.002	0
Pesticides (Propachlor)	P126	µg/l	259	0	<0.002	<0.002	0
Pesticides (Propazine)	P066	µg/l	259	0	<0.001	0.001	0
Pesticides (Propetamphos)	P069	µg/l	258	0	<0.004	<0.00564	0
Pesticides (Propyzamide)	P071	µg/l	259	0	<0.0012	0.002	0
Pesticides (Simazine)	P073	µg/l	259	0	<0.001	0.004	0
Pesticides (Terbutryn)	P077	µg/l	259	0	<0.002	<0.002	0
Pesticides (Trietazine)	P132	µg/l	259	0	<0.001	<0.001	0
Pesticides (Trifluralin)	P081	µg/l	259	0	<0.0012	0.002	0
Pesticides (Triphenyltin (fentin))	P169	µg/l	2	0	<0.02	0.02	0
Pesticides - Total Substances	B010	0.5 µg/l	259	0	<0.01	0.1274	0
TOTAL	-	-	14884	2	-	-	-

Table DWR 7: Quality of water leaving bulk supply points - National Standards

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of supply points with failures
Tetrachloromethane	D008	3 µg/l	258	0	<0.02	<0.0482	0
TOTAL	-	-	258	0	-	-	-

Table DWR 8: Quality of water leaving bulk supply points - Additional Monitoring Requirements

Indicator Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Chloride	D002A	250 mg Cl/l	258	0	6.036	68.715
<i>Clostridium perfringens</i>	C004A	0 number/100 ml	1670	2	0	0
Conductivity	D001	2500 µS/cm	1672	0	53	740.54
Radioactivity - Gross Alpha	F004	0.1 Bq/l	258	0	<0.008	0.07533
Radioactivity - Gross Beta	F005	1 Bq/l	258	0	<0.011	0.11987
Radioactivity - Tritium	F006	100 Bq/l	258	0	<1.4	<3.441
Sulphate	A007	250 mg SO ₄ /l	258	0	<2.1	56.463
Total Organic Carbon (TOC)	A017	No abnormal change	258	n/a	0.26	2.3958
TOTAL	-	-	4890	2	-	-

Table DWR 9: Quality of water at consumer's tap (zones) - European Standards

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of zones with failures
1,2 Dichloroethane	F001	3 µg/l	366	0	<0.08	<0.08	0
Antimony	B008A	5 µg Sb/l	621	0	<0.12	<0.24	0
Arsenic	B001A	10 µg As/l	620	0	<0.37	0.7316	0
Benzene	F002	1 µg/l	366	0	<0.06	<0.06	0
Benzo (a) Pyrene	D007	0.01 µg/l	624	1	<0.001	0.001	1
Boron	D005A	1 mg B/l	365	0	<0.013	0.02434	0
Bromate	F003	10 µg BrO ₃ /l	561	0	<0.001	0.00338	0
Cadmium	B002	5 µg Cd/l	620	0	<0.06	<0.23	0
Chromium	B004	50 µg Cr/l	620	0	<0.34	1.5	0
Copper	A024A	2 mg Cu/l	619	0	<0.001	0.1796	0
Cyanide	B003	50 µg CN/l	365	0	<0.4	1.202	0
<i>E. coli</i>	C002	0 number/100 ml	7712	0	0	0	0
Enterococci	C003	0 number/100 ml	618	0	0	0	0
Fluoride	A027	1.5 mg F/l	365	0	<0.009	0.05406	0
Lead	B007A	25 µg Pb/l	619	1	<0.5	5.36	1
Mercury	B005	1 µg Hg/l	365	0	<0.012	<0.015	0
Nickel	B006A	20 µg Ni/l	620	0	<0.001	0.003	0
Nitrate	A012	50 mg NO ₃ /l	939	0	<0.26	23.466	0
Nitrite	A013A	0.5 mg NO ₂ /l	939	4	<0.002	0.368	2
Nitrate/Nitrite Formula	A013C	1 mg NO ₂ /l	847	0	<0.001	0.47912	0
Polycyclic aromatic hydrocarbons (PAHs)	B011F	0.1 µg/l	620	1	<0.001	0.01479	1
Selenium	B009	10 µg Se/l	620	0	<0.22	0.6537	0
Tetrachloroethene/Trichloroethene	D009B	10 µg/l	363	0	<0.16	<0.16	0
Trihalomethanes (THMs)	D011	100 µg/l	619	2	2.18	80.27	2
Pesticides (2,4,5-T)	P076	µg/l	330	0	<0.002	<0.003	0
Pesticides (2,4,-Db)	P082	µg/l	328	0	<0.002	<0.003	0
Pesticides (2,4-D)	P020	µg/l	330	0	<0.002	0.02176	0
Pesticides (Aldrin)	P002	µg/l	365	0	<0.001	<0.002	0
Pesticides (Alpha-HCH)	P003	µg/l	365	0	<0.001	<0.001	0
Pesticides (Asulam)	P133	µg/l	350	0	<0.005	<0.005	0
Pesticides (Atrazine)	P004	µg/l	365	0	<0.001	0.01268	0
Pesticides (Benazolin)	P138	µg/l	330	0	<0.002	<0.002	0
Pesticides (Beta-HCH)	P007	µg/l	365	0	<0.001	<0.002	0
Pesticides (Bromoxynil)	P008	µg/l	330	0	<0.001	0.003	0

Pesticides (Captan)	P192	µg/l	365	0	<0.002	0.007	0
Pesticides (Carbendazim)	P150	µg/l	260	0	<0.002	<0.003	0
Pesticides (Chlorfenvinphos)	P013	µg/l	365	0	<0.009	<0.009	0
Pesticides (Chlorothalonil)	P015	µg/l	365	0	<0.001	0.003	0
Pesticides (Chlorpyrifos)	P017	µg/l	365	0	<0.003	<0.003	0
Pesticides (Chlortoluron)	P014	µg/l	260	0	<0.002	0.006	0
Pesticides (Diazinon)	P024	µg/l	365	0	<0.005	<0.005	0
Pesticides (Dicamba)	P025	µg/l	330	0	<0.001	<0.002	0
Pesticides (Dichlofluanid)	P140	µg/l	365	0	<0.013	<0.013	0
Pesticides (Dichlorprop)	P026	µg/l	330	0	<0.002	<0.002	0
Pesticides (Dieldrin)	P028	µg/l	365	0	<0.002	<0.002	0
Pesticides (Diuron)	P032	µg/l	260	1	<0.003	0.02892	1
Pesticides (Endosulfan A (alpha-Endosulfan))	P101	µg/l	365	0	<0.001	0.002	0
Pesticides (Endosulfan B (beta-Endosulfan))	P102	µg/l	365	0	<0.002	<0.004	0
Pesticides (Endrin)	P034	µg/l	365	0	<0.002	0.002	0
Pesticides (Ethofumersate)	P221	µg/l	365	0	<0.002	<0.002	0
Pesticides (Fenpropidin)	P168	µg/l	365	0	<0.003	<0.003	0
Pesticides (Fenpropimorph)	P037	µg/l	365	0	<0.006	<0.006	0
Pesticides (Gamma-HCH (Lindane))	P041	µg/l	365	0	<0.001	<0.002	0
Pesticides (Glyphosate)	P042	µg/l	148	0	<0.008	<0.008	0
Pesticides (Heptachlor)	P043	µg/l	365	0	<0.001	<0.002	0
Pesticides (Heptachlor epoxide)	P044	µg/l	365	0	<0.002	<0.002	0
Pesticides (Hexachlorobenzene)	P045	µg/l	365	0	<0.001	0.001	0
Pesticides (Ioxynil)	P049	µg/l	330	0	<0.001	<0.002	0
Pesticides (Isoproturon)	P048	µg/l	260	0	<0.003	0.0148	0
Pesticides (Linuron)	P051	µg/l	260	0	<0.003	<0.007	0
Pesticides (Mancozeb (a Dithiocarbamate Fun	P187	µg/l	41	0	0.004	<0.1	0
Pesticides (MCPA)	P054	µg/l	330	0	<0.002	0.01845	0
Pesticides (MCPB)	P055	µg/l	330	0	<0.002	<0.006	0
Pesticides (MCPP(Mecoprop))	P053	µg/l	330	0	<0.001	0.01469	0
Pesticides (Metamitron)	P194	µg/l	260	0	<0.002	<0.004	0
Pesticides (Methabenzthiazuron)	P167	µg/l	260	0	<0.002	<0.005	0
Pesticides (op-DDD (TDE))	P114	µg/l	365	0	<0.001	<0.002	0
Pesticides (op-DDE)	P115	µg/l	365	0	<0.001	<0.002	0
Pesticides (op-DDT)	P116	µg/l	365	0	<0.002	0.003	0
Pesticides (Parathion (Parathion ethyl))	P059	µg/l	365	0	<0.005	<0.005	0
Pesticides (Pentachlorophenol)	P060	µg/l	330	0	<0.002	<0.004	0
Pesticides (Permethrin)	P119	µg/l	365	0	<0.003	0.004	0
Pesticides (pp-DDD (TDE))	P123	µg/l	365	0	<0.002	0.002	0
Pesticides (pp-DDE)	P124	µg/l	365	0	<0.001	<0.002	0
Pesticides (pp-DDT)	P125	µg/l	365	0	<0.001	<0.002	0

Pesticides (Propachlor)	P126	µg/l	365	0	<0.002	<0.002	0
Pesticides (Propazine)	P066	µg/l	365	0	<0.001	<0.001	0
Pesticides (Propetamphos)	P069	µg/l	365	0	<0.004	<0.004	0
Pesticides (Propyzamide)	P071	µg/l	365	0	<0.002	0.002	0
Pesticides (Simazine)	P073	µg/l	365	0	<0.001	0.01534	0
Pesticides (Terbutryn)	P077	µg/l	365	0	<0.002	<0.002	0
Pesticides (Trietazine)	P132	µg/l	365	0	<0.001	<0.001	0
Pesticides (Trifluralin)	P081	µg/l	365	0	<0.002	0.002	0
Pesticides (Triphenyltin (fentin))	P169	µg/l	25	0	<0.02	<0.1	0
Pesticides - Total Substances	B010	0.5 µg/l	365	0	<0.01	0.08608	0
TOTAL	-	-	41205	10	-	-	-

Table DWR 10: Quality of water at consumer's tap (zones) - National Standards

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of zones with failures
Aluminium	A021	200 µg Al/l	1888	2	<5	116.33	2
Colour	A001	20 mg/l Pt/Co scale	1504	0	<0.4	4.2	0
Hydrogen ion (pH)	A006	6.5 -10 pH value	1798	0	7.1099	8.9102	0
Iron	A022	200 µg Fe/l	2542	23	<7	177.85	14
Manganese	A023	50 µg Mn/l	1890	4	<1.5	35	4
Organoleptic Odour	A003	Dilution no. 3 at 25°C	2002	0	0	1	0
Organoleptic Taste	A004	Dilution no. 3 at 25°C	1708	0	0	0	0
Sodium	A009	200 mg Na/l	621	0	3.1	29.78	0
Tetrachloromethane	D008	3 µg/l	370	0	<0.02	<0.04	0
Turbidity	A002	4 NTUs	1676	2	<0.05	0.5346	2
TOTAL	-	-	15999	31	-	-	-

Table DWR 11: Quality of water at consumer's tap (zones) - Additional Monitoring Requirements

Indicator Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Ammonium	A014	0.5 mg NH ₄ /l	1576	0	<0.016	0.26069
Chloride	D002A	250 mg Cl/l	365	0	5.566	47.4
<i>Clostridium perfringens</i>	C004A	0 number/100 ml	1895	1	0	0
Coliform Bacteria	C001A	0 number/100 ml	7712	36	0	0
Colony Counts After 3 Days At 22°C	C007	No abnormal change	2156	n/a	<1	119
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	2155	n/a	<1	52
Conductivity	D001	2500 µS/cm	957	0	50	416.68
Hydrogen ion (pH)	A006A	9.5 pH Value	1798	1	7.1099	8.9102
Radioactivity - Gross Alpha	F004	0.1 Bq/l	620	2*	<0.009	0.06837
Radioactivity - Gross Beta	F005	1 Bq/l	620	0	0.012	0.12695
Radioactivity - Tritium	F006	100 Bq/l	365	0	<1.4	<3.8
Residual Disinfectant - Free	C009	No abnormal change	7653	n/a	<0.02	0.8
Residual Disinfectant - Total	C010	No abnormal change	7759	n/a	0.07	1.05
Sulphate	A007	250 mg SO ₄ /l	365	0	<2.1	65.56
Total Organic Carbon (TOC)	A017	No abnormal change	365	n/a	0.3528	3.5374
TOTAL	-	-	36361	40	-	-

* requires more specific analysis to determine the source and type of radioactivity (Total Indicative Dose).