

Data summary tables for Southern Water (SRN)

These tables contain a summary of results of monitoring undertaken by the water company in 2019 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 2019*.

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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Site Summary Data for Southern Water Services Ltd

Report Date Range: For the whole year 2019

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

Parameter Name	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 (Total)	A013B	0.1 mg NO ₂ /l	608	0	< 0.002	0.01146	0
Totals:			608	0			

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

Parameter Name	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
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	12,977	0	0	0	0
Total Coliforms (Confirmed)	C001	0 number/100 ml	12,977	13	0	0	9
Totals:			25,954	13			

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

Parameter Name	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 (Colony Counts)	C007	No abnormal change	12,979	-n/a	0	2
Residual Disinfectant - Free	C009	No abnormal change	12,987	-n/a	0.29	1.05
Residual Disinfectant - Total	C010	No abnormal change	12,987	-n/a	0.35	1.14
Turbidity - Indicator	A002A	1 NTU	12,977	0	< 0.05	0.4
Totals:			51,930	0		

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

Parameter Name	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
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	10,309	1	0	0	1
Total Coliforms (Confirmed)	C001	0 number/100 ml	10,309	6	0	0	0
Totals:			20,618	7			

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

Parameter Name	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 22øc (Colony Counts)	C007	No abnormal change	10,306	-n/a	0	8
Residual Disinfectant - Free	C009	No abnormal change	10,313	-n/a	0.11	0.79
Residual Disinfectant - Total	C010	No abnormal change	10,313	-n/a	0.22	0.85
Totals:			30,932	0		

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

Parameter Name	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 (Total)	F001	3 µg/l	608	0	< 0.06	< 0.16	0
Benzene (Total)	F002	1 µg/l	608	0	< 0.01	< 0.09	0
Boron	D005A	1 mg B/l	608	0	< 0.0149	0.078383	0
Bromate	F003	10 µg BrO3/l	608	0	< 0.1	1.882	0
Cyanide (Total)	B003	50 µg CN/l	607	0	< 0.7	< 5.5	0
Fluoride (Total)	A027	1.5 mg F/l	608	0	0.06	0.2191	0
Mercury (Total)	B005	1 µg Hg/l	608	0	< 0.03	< 0.06	0
Pesticides (Total by Calculation)	B010	0.5 µg/l	608	0	0	0.11691	0
Pesticides 2 4-D	P020	0.1 µg/l	154	0	< 0.003	< 0.01425	0
Pesticides Aldrin	P002	0.03 µg/l	608	0	< 0.001	< 0.005	0
Pesticides Atrazine	P004	0.1 µg/l	537	0	< 0.001	0.02362	0
Pesticides Atrazine Desisopropyl	P212	0.1 N/A	537	0	< 0.001	0.05524	0
Pesticides Benazolin (Total)	P138	0.1 µg/l	99	0	< 0.003	0.015	0
Pesticides Bentazone	P006	0.1 µg/l	468	0	< 0.001	0.02762	0
Pesticides Boscalid	P231	0.1 µg/l	92	0	< 0.002	< 0.011	0
Pesticides Bromacil	P086	0.1 µg/l	273	0	< 0.003	0.016	0
Pesticides Bromoxynil	P008	0.1 µg/l	28	0	< 0.003	< 0.009	0
Pesticides Carbendazim (Total)	P150	0.1 µg/l	408	0	< 0.001	< 0.003	0
Pesticides Carbetamide	P010	0.1 µg/l	67	0	< 0.002	0.011	0
Pesticides Chloromequat	P163	0.1 µg/l	40	0	< 0.001	< 0.003	0
Pesticides Chlorothalonil	P015	0.1 µg/l	8	0	< 0.004	< 0.007	0
Pesticides Chlorpyrifos (Chlorpyrifos Ethyl)	P017	0.1 µg/l	84	0	< 0.002	< 0.016	0
Pesticides Chlortoluron	P014	0.1 µg/l	268	0	< 0.002	< 0.007	0
Pesticides Clopyralid	P018	0.1 µg/l	163	0	< 0.003	0.038	0
Pesticides Cyanazine	P092	0.1 µg/l	120	0	< 0.001	< 0.006	0
Pesticides Cyproconazole	P207	0.1 µg/l	96	0	< 0.001	< 0.007	0
Pesticides Desethylatrazine	P182	0.1 µg/l	537	0	< 0.001	0.071	0
Pesticides Diazinon	P024	0.1 µg/l	164	0	< 0.001	< 0.006	0
Pesticides Dicamba	P025	0.1 µg/l	134	0	< 0.003	< 0.012	0
Pesticides Dichlorprop	P026	0.1 µg/l	54	0	< 0.004	< 0.017	0
Pesticides Dieldrin	P028	0.03 µg/l	609	0	< 0.001	< 0.005	0
Pesticides Diflufenican	P157	0.1 µg/l	88	0	< 0.001	< 0.007	0
Pesticides Diuron	P032	0.1 µg/l	228	0	< 0.002	0.01	0
Pesticides Epoxyconazole	P217	0.1 µg/l	277	0	< 0.001	< 0.005	0
Pesticides Fenpropimorph	P037	0.1 µg/l	253	0	< 0.001	< 0.004	0
Pesticides Flufenacet	P230	0.1 µg/l	168	0	< 0.002	< 0.008	0

Parameter Name	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
Pesticides Fluroxypyr	P040	0.1 µg/l	124	0	< 0.003	< 0.00975	0
Pesticides Flusilazole	P159	0.1 µg/l	60	0	< 0.001	< 0.006	0
Pesticides Flutriafol	P039	0.1 µg/l	312	0	< 0.001	0.014	0
Pesticides Fluxapyroxad	P274	0.1 µg/l	44	0	< 0.002	< 0.009	0
Pesticides Gamma-HCH (Lindane)	P041	0.1 µg/l	8	0	< 0.001	< 0.006	0
Pesticides Glyphosate	P042	0.1 µg/l	144	0	< 0.002	0.0286	0
Pesticides Heptachlor	P043	0.03 µg/l	608	0	< 0.001	< 0.004	0
Pesticides Heptachlor Epoxide - Total (Trans, CIS) (Heptachlor Epoxide)	P044	0.03 µg/l	608	0	< 0.002	< 0.005	0
Pesticides Isoproturon	P048	0.1 µg/l	132	0	< 0.001	< 0.005	0
Pesticides Linuron	P051	0.1 µg/l	52	0	< 0.002	< 0.012	0
Pesticides MCPA 4-chloro-o-tolyloxyacetic acid	P054	0.1 µg/l	131	0	< 0.003	< 0.012	0
Pesticides MCPB	P055	0.1 µg/l	36	0	< 0.004	< 0.018	0
Pesticides MCPP (Mecoprop)	P053	0.1 µg/l	198	0	< 0.002	0.01204	0
Pesticides Mepiquat Chloride	P280	0.1 µg/l	24	0	< 0.002	< 0.004	0
Pesticides Metaldehyde	P226	0.1 µg/l	461	0	< 0.003	0.02714	0
Pesticides Metazachlor	P203	0.1 µg/l	242	0	< 0.002	0.02057	0
Pesticides Methabenzthiazuron	P167	0.1 µg/l	222	0	< 0.001	< 0.005	0
Pesticides Parathion (Parathion ethyl)	P059	0.1 µg/l	16	0	< 0.001	< 0.007	0
Pesticides Pendimethalin	P118	0.1 µg/l	136	0	< 0.002	< 0.02	0
Pesticides Pentachlorophenol	P060	0.1 µg/l	20	0	< 0.005	< 0.02	0
Pesticides Picloram (Total)	P122	0.1 µg/l	244	0	< 0.004	0.0223	0
Pesticides Pirimicarb	P064	0.1 µg/l	129	0	< 0.001	< 0.005	0
Pesticides Prometryne	P070	0.1 µg/l	152	0	< 0.001	< 0.004	0
Pesticides Propazine	P066	0.1 µg/l	390	0	< 0.001	< 0.004	0
Pesticides Propiconazole	P068	0.1 µg/l	131	0	< 0.002	< 0.007	0
Pesticides Propyzamide	P071	0.1 µg/l	108	0	< 0.002	0.0201	0
Pesticides Prosulfocarb	P243	0.1 µg/l	168	0	< 0.002	< 0.009	0
Pesticides Quinmerac	P244	0.1 µg/l	332	0	< 0.001	< 0.01201	0
Pesticides Simazine	P073	0.1 µg/l	598	0	< 0.001	0.011	0
Pesticides Spiroxamine	P239	0.1 µg/l	259	0	< 0.001	< 0.006	0
Pesticides Tebuconazole	P177	0.1 µg/l	136	0	< 0.001	< 0.005	0
Pesticides Terbutylazine	P173	0.1 µg/l	20	0	< 0.001	< 0.003	0
Pesticides Terbutryn	P077	0.1 µg/l	281	0	< 0.001	< 0.003	0
Pesticides Tri-allate	P079	0.1 µg/l	148	0	< 0.001	< 0.005	0
Pesticides Triclopyr	P131	0.1 µg/l	91	0	< 0.003	< 0.028	0
Pesticides Trietazine	P132	0.1 µg/l	302	0	< 0.001	0.009	0
Pesticides Trifluralin	P081	0.1 µg/l	16	0	< 0.001	< 0.002	0
Radon	F031	100 Bq/l	165	0	< 0.5	10.904	0
Totals:			18,673	0			

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

Parameter Name	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	608	0	10.009	65.228
Clostridium Perfringens (Sulphite-reducing Clostridia) (Confirmed)	C004A	0 number/100 ml	608	0	0	0
Conductivity (Electrical Conductivity)	D001	2500 µS/cm at 20°C	3,069	0	273	720
Gross Alpha	F004	0.1 Bq/l	165	0	< 0.01832	0.06874
Gross Beta	F005	1 Bq/l	162	0	< 0.01593	0.15759
Sulphate	A007	250 mg SO ₄ /l	608	0	3.799	71.849
Total Organic Carbon	A017	No abnormal change	608	-n/a	0.3	3
Tritium	F006	100 Bq/l	164	0	< 5	11.98
Totals:			5,992	0		

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

Parameter Name	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 failing standard
1 2-Dichloroethane (Total)	F001	3 µg/l	3	0	< 0.07	< 0.07	0
Antimony	B008A	5 µg Sb/l	527	0	0.03	0.2772	0
Arsenic (Total)	B001A	10 µg As/l	527	0	0.0956	0.6744	0
Benzene (Total)	F002	1 µg/l	3	0	< 0.02	< 0.02	0
Benzo[a]Pyrene (Total)	D007	0.01 µg/l	537	0	< 0.00022	< 0.0011	0
Boron	D005A	1 mg B/l	3	0	< 0.0149	0.124	0
Bromate	F003	10 µg BrO3/l	124	0	< 0.1	2.025	0
Cadmium (Total)	B002	5 µg Cd/l	527	0	< 0.002	< 0.03	0
Chromium (Total)	B004	50 µg Cr/l	527	0	0.17	2.0888	0
Copper (Total)	A024A	2 mg Cu/l	527	1	0.001528	1.2488	1
Cyanide (Total)	B003	50 µg CN/l	3	0	< 0.7	0.7	0
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	6,507	3	0	0	2
Enterococci (Confirmed)	C003	0 number/100 ml	527	1	0	0	1
Fluoride (Total)	A027	1.5 mg F/l	3	0	0.1	0.14	0
Lead (10 - will apply 25.12.2013)	B007B	10 µg Pb/l	527	5	0.02	10.0368	5
Mercury (Total)	B005	1 µg Hg/l	3	0	< 0.03	< 0.03	0
Nickel (Total)	B006A	20 µg Ni/l	527	0	0.364	6.438	0
Nitrate (Total)	A012	50 mg NO3/l	528	0	2.1503	41.171	0
Nitrite - Consumer's Taps	A013A	0.5 mg NO2/l	528	0	< 0.002	0.00984	0
Nitrite/Nitrate formula	A013C	1 mg/l	524	0	0.0425	0.82	0
Pesticides (Total by Calculation)	B010	0.5 µg/l	3	0	0	0.079	0
Pesticides 2 4-D	P020	0.1 µg/l	3	0	< 0.003	0.005	0
Pesticides Aldrin	P002	0.03 µg/l	3	0	< 0.002	< 0.003	0
Pesticides Atrazine	P004	0.1 µg/l	3	0	< 0.001	< 0.002	0
Pesticides Benazolin (Total)	P138	0.1 µg/l	3	0	< 0.003	< 0.003	0
Pesticides Bentazone	P006	0.1 µg/l	3	0	< 0.001	< 0.002	0
Pesticides Boscalid	P231	0.1 µg/l	3	0	< 0.003	< 0.005	0
Pesticides Bromacil	P086	0.1 µg/l	3	0	< 0.003	< 0.003	0
Pesticides Bromoxynil	P008	0.1 µg/l	3	0	< 0.003	< 0.003	0
Pesticides Carbendazim (Total)	P150	0.1 µg/l	3	0	< 0.001	< 0.001	0
Pesticides Carbetamide	P010	0.1 µg/l	3	0	< 0.002	< 0.002	0
Pesticides Chloromequat	P163	0.1 µg/l	3	0	< 0.001	< 0.003	0
Pesticides Chlorothalonil	P015	0.1 µg/l	3	0	< 0.001	< 0.007	0
Pesticides Chlorpyrifos (Chlorpyrifos Ethyl)	P017	0.1 µg/l	3	0	< 0.002	< 0.003	0
Pesticides Chlortoluron	P014	0.1 µg/l	3	0	< 0.002	< 0.003	0
Pesticides Clopyralid	P018	0.1 µg/l	3	0	< 0.003	0.026	0

Parameter Name	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 failing standard
Pesticides Cyanazine	P092	0.1 µg/l	3	0	< 0.001	< 0.002	0
Pesticides Cyproconazole	P207	0.1 µg/l	3	0	< 0.001	< 0.002	0
Pesticides Diazinon	P024	0.1 µg/l	3	0	< 0.001	< 0.003	0
Pesticides Dicamba	P025	0.1 µg/l	3	0	< 0.003	< 0.004	0
Pesticides Dichlorprop	P026	0.1 µg/l	3	0	< 0.004	< 0.005	0
Pesticides Dieldrin	P028	0.03 µg/l	3	0	< 0.001	< 0.002	0
Pesticides Diflufenican	P157	0.1 µg/l	3	0	< 0.001	< 0.004	0
Pesticides Diuron	P032	0.1 µg/l	3	0	< 0.002	< 0.003	0
Pesticides Epoxyconazole	P217	0.1 µg/l	3	0	< 0.001	< 0.002	0
Pesticides Fenpropimorph	P037	0.1 µg/l	3	0	< 0.001	< 0.001	0
Pesticides Flufenacet	P230	0.1 µg/l	3	0	< 0.003	0.005	0
Pesticides Fluroxypyr	P040	0.1 µg/l	3	0	< 0.003	0.004	0
Pesticides Flusilazole	P159	0.1 µg/l	3	0	< 0.001	< 0.002	0
Pesticides Flutriafol	P039	0.1 µg/l	3	0	< 0.001	< 0.002	0
Pesticides Fluxapyroxad	P274	0.1 µg/l	3	0	< 0.002	< 0.002	0
Pesticides Gamma-HCH (Lindane)	P041	0.1 µg/l	3	0	< 0.001	< 0.003	0
Pesticides Glyphosate	P042	0.1 µg/l	3	0	< 0.002	< 0.003	0
Pesticides Heptachlor	P043	0.03 µg/l	3	0	< 0.001	< 0.002	0
Pesticides Heptachlor Epoxide - Total (Trans, CIS) (Heptachlor Epoxide)	P044	0.03 µg/l	3	0	< 0.002	< 0.002	0
Pesticides Isoproturon	P048	0.1 µg/l	3	0	< 0.002	< 0.002	0
Pesticides Linuron	P051	0.1 µg/l	3	0	< 0.002	< 0.007	0
Pesticides MCPA 4-chloro-o-tolyloxyacetic acid	P054	0.1 µg/l	3	0	< 0.003	< 0.004	0
Pesticides MCPB	P055	0.1 µg/l	3	0	< 0.004	< 0.006	0
Pesticides MCPP (Mecoprop)	P053	0.1 µg/l	3	0	< 0.002	< 0.003	0
Pesticides Mepiquat Chloride	P280	0.1 µg/l	3	0	< 0.002	< 0.003	0
Pesticides Metaldehyde	P226	0.1 µg/l	3	0	< 0.005	0.025	0
Pesticides Metazachlor	P203	0.1 µg/l	3	0	< 0.002	< 0.002	0
Pesticides Methabenzthiazuron	P167	0.1 µg/l	3	0	< 0.001	< 0.001	0
Pesticides Parathion (Parathion ethyl)	P059	0.1 µg/l	3	0	< 0.001	< 0.004	0
Pesticides Pendimethalin	P118	0.1 µg/l	3	0	< 0.002	0.004	0
Pesticides Pentachlorophenol	P060	0.1 µg/l	3	0	< 0.005	< 0.006	0
Pesticides Picloram (Total)	P122	0.1 µg/l	3	0	< 0.004	< 0.006	0
Pesticides Pirimicarb	P064	0.1 µg/l	3	0	< 0.001	< 0.001	0
Pesticides Prometryne	P070	0.1 µg/l	3	0	< 0.001	< 0.001	0
Pesticides Propazine	P066	0.1 µg/l	3	0	< 0.001	< 0.001	0
Pesticides Propiconazole	P068	0.1 µg/l	3	0	< 0.002	< 0.003	0
Pesticides Propyzamide	P071	0.1 µg/l	3	0	< 0.002	< 0.005	0
Pesticides Prosulfocarb	P243	0.1 µg/l	3	0	< 0.002	< 0.002	0
Pesticides Quinmerac	P244	0.1 µg/l	3	0	< 0.001	0.012	0
Pesticides Simazine	P073	0.1 µg/l	3	0	< 0.001	< 0.003	0

Parameter Name	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 failing standard
Pesticides Spiroxamine	P239	0.1 µg/l	3	0	< 0.001	< 0.001	0
Pesticides Tebuconazole	P177	0.1 µg/l	3	0	< 0.002	< 0.002	0
Pesticides Terbutryn	P077	0.1 µg/l	3	0	< 0.001	< 0.001	0
Pesticides Tri-allate	P079	0.1 µg/l	3	0	< 0.001	< 0.003	0
Pesticides Triclopyr	P131	0.1 µg/l	3	0	< 0.003	< 0.009	0
Pesticides Trietazine	P132	0.1 µg/l	3	0	< 0.001	< 0.003	0
Pesticides Trifluralin	P081	0.1 µg/l	3	0	< 0.001	< 0.002	0
Polycyclic Aromatic Hydrocarbons (Total by Calculation)	B011F	0.1 µg/l	537	0	0	0.00624	0
Selenium (Total)	B009	10 µg Se/l	527	0	< 0.16	1.06	0
Trichloroethene & Tetrachloroethene - Sum Of 2 Substances (Total by Calculation)	D009B	10 µg/l	527	0	0	2.4188	0
Trihalomethanes (Total by Calculation)	D011	100 µg/l	524	0	1.5825	57.3025	0
Totals:			15,286	10			

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

Parameter Name	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 failing standard
Aluminium (Total)	A021	200 µg Al/l	2,288	0	< 3.21	29.311	0
Colour	A001	20 mg/l Pt/Co	2,291	0	< 0.6	< 2.8	0
Iron (Total)	A022	200 µg Fe/l	2,288	1	< 0.7	45.031	1
Manganese (Total)	A023	50 µg Mn/l	2,288	1	< 0.14	4.5955	1
Odour	A003	0 Dilution number at 25°C	2,299	6	0	0	5
Sodium (Total)	A009	200 mg Na/l	527	0	5.7652	48.688	0
Taste (Taste Quant)	A004	0 Dilution number at 25°C	2,291	8	0	0	5
Tetrachloromethane (Total)	D008	3 µg/l	527	0	< 0.02	< 0.14	0
Turbidity	A002	4 NTU	2,291	1	< 0.05	0.44	1
Totals:			17,090	17			

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

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Ammonium (Total)	A014	0.5 mg NH ₄ /l	528	0	< 0.004	0.02281
Chloride	D002A	250 mg Cl/l	3	0	10.5	44.9
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	6,507	19	0	0
Colony Counts After 3 Days At 22°C (Colony Counts)	C007	No abnormal change	2,292	-n/a	0	35
Hydrogen ion (pH) - Indicator (Hydrogen ion) (pH)	A006	6.5 - 9.5 pH Value	2,291	1	7.04	7.79
Residual Disinfectant - Free	C009	No abnormal change	6,512	-n/a	0.04	0.7287
Residual Disinfectant - Total	C010	No abnormal change	6,512	-n/a	0.13	0.78
Sulphate	A007	250 mg SO ₄ /l	3	0	4.58	61.2
Total Organic Carbon	A017	No abnormal change	127	-n/a	0.4	4.22
Totals:			24,775	20		