

Data summary tables for Yorkshire Water (YKS)

These tables contain a summary of results of monitoring undertaken by the water company in 2016 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 2016*.

The tables and full content of the Drinking Water Inspectorate's annual report are available on the Inspectorate's website at <http://www.dwi.defra.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 Yorkshire Water Services Ltd

Report Date Range: For the whole year 2016

Table YKS 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 (Works)	A013B	0.1 mg NO ₂ /l	2,232	0	< 0.002	0.009	0
Totals:			2,232	0			

Table YKS 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
Coliform Bacteria	C001	0 number/100 ml	14,103	1	0	0	1
E coli	C002	0 number/100 ml	14,103	0	0	0	0
Totals:			28,206	1			

Table YKS 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 (Indicator)	C007	No abnormal change	14,104	-n/a	0	2
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	14,104	-n/a	0	1
Residual Disinfectant - Free	C009	No abnormal change	14,104	-n/a	0.03	0.92
Residual Disinfectant - Total	C010	No abnormal change	14,104	-n/a	0.15	1.01
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(14,104)	-n/a	0.01	0.62
Turbidity (Indicator)	A002A	1 nephelometric turbidity units	14,103	1	< 0.03	0.39
Totals:			70,519	1		

*Residual disinfectant combined is presented for information. It is not a parameter required by the regulations. It is derived from the parameters 'Residual Disinfectant - Total' minus 'Residual Disinfectant - Free'.

Table YKS 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
Coliform Bacteria	C001	0 number/100 ml	17,402	6	0	0	0
E coli	C002	0 number/100 ml	17,402	0	0	0	0
Totals:			34,804	6			

Table YKS 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 22°C (Indicator)	C007	No abnormal change	17,403	-n/a	0	45
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	17,403	-n/a	0	1
Residual Disinfectant - Free	C009	No abnormal change	17,403	-n/a	0	0.77
Residual Disinfectant - Total	C010	No abnormal change	17,403	-n/a	0.05	0.86
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(17,403)	-n/a	0.01	0.54
Totals:			69,612	0		

*Residual disinfectant combined is presented for information. It is not a parameter required by the regulations. It is derived from the parameters 'Residual Disinfectant - Total' minus 'Residual Disinfectant - Free'.

Table YKS 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
Boron	D005A	1 mg B/l	136	0	0.0057033	0.029182	0
Cyanide	B003	50 µg CN/l	136	0	< 0.7	10.989	0
Fluoride	A027	1.5 mg F/l	136	0	0.0237	0.1593	0
Mercury	B005	1 µg Hg/l	136	0	< 0.02	0.0563	0
Pesticides - Total Substances	B010	0.5 µg/l	136	0	0	0.16927	0
Pesticides 2,4,5-T	P076	0.1 µg/l	136	0	< 0.002	< 0.009	0
Pesticides 2,4,-Db	P082	0.1 µg/l	136	0	< 0.005	< 0.007	0
Pesticides 2,4-D	P020	0.1 µg/l	136	0	< 0.004	0.00863	0
Pesticides Aldrin	P002	0.03 µg/l	137	0	< 0.001	< 0.001	0
Pesticides Atrazine	P004	0.1 µg/l	136	0	< 0.001	< 0.002	0
Pesticides Bentazone	P006	0.1 µg/l	136	0	< 0.002	0.00463	0
Pesticides Bromacil	P086	0.1 µg/l	136	0	< 0.003	< 0.003	0
Pesticides Bromoxynil	P008	0.1 µg/l	136	0	< 0.003	< 0.006	0
Pesticides Carbetamide	P010	0.1 µg/l	136	0	< 0.002	0.01115	0
Pesticides Chlorpropham	P016	0.1 µg/l	136	0	< 0.003	< 0.003	0
Pesticides Chlorpyrifos	P017	0.1 µg/l	136	0	< 0.002	< 0.00363	0
Pesticides Chlortoluron	P014	0.1 µg/l	136	0	< 0.002	< 0.003	0
Pesticides Clomazone	P246	0.1 µg/l	136	0	< 0.002	< 0.00363	0
Pesticides Clopyralid	P018	0.1 µg/l	136	0	< 0.005	< 0.03126	0
Pesticides Cyanazine	P092	0.1 µg/l	136	0	< 0.002	< 0.002	0
Pesticides Cypermethrin	P094	0.1 µg/l	136	0	< 0.001	< 0.00226	0
Pesticides Cyproconazole	P207	0.1 µg/l	136	0	< 0.002	< 0.00389	0
Pesticides Diazinon	P024	0.1 µg/l	136	0	< 0.001	0.00415	0
Pesticides Dicamba	P025	0.1 µg/l	136	0	< 0.005	< 0.015	0
Pesticides Dichlobenil	P098	0.1 µg/l	137	0	< 0.001	< 0.001	0
Pesticides Dichlorprop	P026	0.1 µg/l	136	0	< 0.003	< 0.005	0
Pesticides Dieldrin	P028	0.03 µg/l	136	0	< 0.001	< 0.001	0
Pesticides Difenoconazole	P247	0.1 µg/l	136	0	< 0.002	< 0.002	0
Pesticides Diflufenican	P157	0.1 µg/l	136	0	< 0.002	< 0.002	0
Pesticides Diuron	P032	0.1 µg/l	136	0	< 0.003	< 0.003	0
Pesticides Epoxyconazole	P217	0.1 µg/l	136	0	< 0.002	< 0.002	0
Pesticides EPTC	P035	0.1 µg/l	136	0	< 0.004	< 0.006	0
Pesticides Fluazifop-butyl	P038	0.1 µg/l	136	0	< 0.001	0.00226	0
Pesticides Flufenacet	P230	0.1 µg/l	136	0	< 0.002	0.00978	0
Pesticides Fluroxypyr	P040	0.1 µg/l	136	0	< 0.003	0.01315	0
Pesticides Flurtamone	P248	0.1 µg/l	136	0	< 0.002	< 0.002	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 Flusilazole	P159	0.1 µg/l	136	0	< 0.002	< 0.002	0
Pesticides Flutriafol	P039	0.1 µg/l	136	0	< 0.002	0.002	0
Pesticides Gamma-HCH (Lindane)	P041	0.1 µg/l	137	0	< 0.001	< 0.001	0
Pesticides Heptachlor	P043	0.03 µg/l	136	0	< 0.001	< 0.001	0
Pesticides Heptachlor epoxide	P044	0.03 µg/l	136	0	< 0.001	< 0.002	0
Pesticides Imazapyr	P160	0.1 µg/l	136	0	< 0.002	< 0.003	0
Pesticides Ioxynil	P049	0.1 µg/l	136	0	< 0.002	< 0.003	0
Pesticides Isoproturon	P048	0.1 µg/l	136	0	< 0.002	< 0.00389	0
Pesticides Linuron	P051	0.1 µg/l	136	0	< 0.003	< 0.007	0
Pesticides MCPA	P054	0.1 µg/l	136	0	< 0.003	0.01915	0
Pesticides Mecoprop-P	P249	0.1 µg/l	136	0	< 0.002	0.00989	0
Pesticides Metaldehyde	P226	0.1 µg/l	136	1	< 0.005	0.11582	1
Pesticides Metazachlor	P203	0.1 µg/l	136	0	< 0.002	0.00426	0
Pesticides Monuron	P113	0.1 µg/l	136	0	< 0.002	< 0.002	0
Pesticides op-DDD (TDE)	P114	0.1 µg/l	137	0	< 0.001	< 0.001	0
Pesticides op-DDE	P115	0.1 µg/l	136	0	< 0.001	< 0.001	0
Pesticides op-DDT	P116	0.1 µg/l	136	0	< 0.001	< 0.001	0
Pesticides Oxadixyl	P154	0.1 µg/l	136	0	< 0.003	< 0.005	0
Pesticides Pendimethalin	P118	0.1 µg/l	136	0	< 0.002	0.00463	0
Pesticides pp-DDD (TDE)	P123	0.1 µg/l	137	0	< 0.001	< 0.00162	0
Pesticides pp-DDE	P124	0.1 µg/l	136	0	< 0.001	< 0.001	0
Pesticides pp-DDT	P125	0.1 µg/l	136	0	< 0.001	< 0.00163	0
Pesticides Propachlor	P126	0.1 µg/l	136	0	< 0.002	< 0.002	0
Pesticides Propham	P067	0.1 µg/l	136	0	< 0.002	< 0.003	0
Pesticides Propiconazole	P068	0.1 µg/l	136	0	< 0.002	0.00741	0
Pesticides Propyzamide	P071	0.1 µg/l	136	0	< 0.002	0.05298	0
Pesticides Prosulfocarb	P243	0.1 µg/l	136	0	< 0.002	< 0.002	0
Pesticides Quinmerac	P244	0.1 µg/l	136	0	< 0.001	0.01852	0
Pesticides Simazine	P073	0.1 µg/l	136	0	< 0.001	< 0.003	0
Pesticides Tri-allate	P079	0.1 µg/l	136	0	< 0.003	< 0.004	0
Pesticides Trichlopyr	P131	0.1 µg/l	136	0	< 0.006	< 0.00763	0
Pesticides Trietazine	P132	0.1 µg/l	136	0	< 0.002	< 0.003	0
Totals:			9,253	1			

Table YKS 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 (Indicator)	D002A	250 mg Cl/l	136	0	6.811	37.567
Clostridium Perfringens (Indicator)	C004A	0 number/100 ml	5,164	2	0	0
Gross Alpha Activity	F004	0.1 Bq/l	136	0	< 0.012	< 0.03463
Gross Beta Activity	F005	1 Bq/l	136	0	< 0.009	0.08978
Total organic carbon (indicator)	A017	No abnormal change	136	-n/a	< 0.1433	4.267
Totals:			5,708	2		

Table YKS 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	F001	3 µg/l	564	0	< 0.07	< 0.1	0
Antimony	B008A	5 µg Sb/l	560	0	< 0.033	0.20012	0
Arsenic	B001A	10 µg As/l	560	0	< 0.18	1.9095	0
Benzene	F002	1 µg/l	564	0	< 0.02	< 0.07	0
Benzo (a) Pyrene	D007	0.01 µg/l	560	0	< 0.00022	0.0004156	0
Boron	D005A	1 mg B/l	432	0	0.0070666	0.046401	0
Bromate	F003	10 µg BrO3/l	560	0	< 0.1	2.839	0
Cadmium	B002	5 µg Cd/l	560	0	< 0.006	0.04878	0
Chromium	B004	50 µg Cr/l	560	0	< 0.06	1.2178	0
Copper	A024A	2 mg Cu/l	560	0	< 0.0006	0.18436	0
Cyanide	B003	50 µg CN/l	416	0	< 0.7	7.392	0
E coli	C002	0 number/100 ml	11,738	1	0	0	1
Enterococci	C003	0 number/100 ml	565	0	0	0	0
Fluoride	A027	1.5 mg F/l	432	0	0.04	0.15	0
Lead (>10 µg/l)	B007B	10 µg Pb/l	560	5	< 0.03	8.992	5
Mercury	B005	1 µg Hg/l	416	0	< 0.02	0.05	0
Nickel	B006A	20 µg Ni/l	560	0	0.24	7.3635	0
Nitrate	A012	50 mg NO3/l	1,066	0	0.8034	41.333	0
Nitrate/Nitrite Formula	A013C	1 mg NO2/l	1,066	0	< 0.37	0.83	0
Nitrite (Consumers tap)	A013A	0.5 mg NO2/l	1,066	0	< 0.002	0.27531	0
Pesticides - Total Substances	B010	0.5 µg/l	416	0	0	0.21766	0
Pesticides 2,4,5-T	P076	0.1 µg/l	416	0	< 0.002	< 0.009	0
Pesticides 2,4,-Db	P082	0.1 µg/l	416	0	< 0.005	< 0.007	0
Pesticides 2,4-D	P020	0.1 µg/l	416	0	< 0.004	0.00983	0
Pesticides Aldrin	P002	0.03 µg/l	424	0	< 0.001	< 0.001	0
Pesticides Atrazine	P004	0.1 µg/l	416	0	< 0.001	0.034	0
Pesticides Bentazone	P006	0.1 µg/l	416	0	< 0.002	0.014	0
Pesticides Bromacil	P086	0.1 µg/l	416	0	< 0.003	< 0.003	0
Pesticides Bromoxynil	P008	0.1 µg/l	416	0	< 0.003	< 0.006	0
Pesticides Carbetamide	P010	0.1 µg/l	416	0	< 0.002	0.00883	0
Pesticides Chlorpropham	P016	0.1 µg/l	416	0	< 0.003	< 0.003	0
Pesticides Chlorpyrifos	P017	0.1 µg/l	416	0	< 0.002	< 0.003	0
Pesticides Chlortoluron	P014	0.1 µg/l	416	0	< 0.002	< 0.003	0
Pesticides Clomazone	P246	0.1 µg/l	416	0	< 0.002	< 0.003	0
Pesticides Clopyralid	P018	0.1 µg/l	416	0	< 0.005	0.03483	0
Pesticides Cyanazine	P092	0.1 µg/l	416	0	< 0.002	0.002	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 Cypermethrin	P094	0.1 µg/l	418	0	< 0.001	< 0.00181	0
Pesticides Cyproconazole	P207	0.1 µg/l	416	0	< 0.002	0.002	0
Pesticides Diazinon	P024	0.1 µg/l	416	0	< 0.001	0.001	0
Pesticides Dicamba	P025	0.1 µg/l	416	0	< 0.005	< 0.015	0
Pesticides Dichlobenil	P098	0.1 µg/l	424	0	< 0.001	< 0.001	0
Pesticides Dichlorprop	P026	0.1 µg/l	416	0	< 0.003	< 0.005	0
Pesticides Dieldrin	P028	0.03 µg/l	418	0	< 0.001	< 0.00181	0
Pesticides Difenconazole	P247	0.1 µg/l	416	0	< 0.002	< 0.002	0
Pesticides Diflufenican	P157	0.1 µg/l	416	0	< 0.002	< 0.002	0
Pesticides Diuron	P032	0.1 µg/l	416	0	< 0.003	< 0.003	0
Pesticides Epoxyconazole	P217	0.1 µg/l	416	0	< 0.002	0.002	0
Pesticides EPTC	P035	0.1 µg/l	416	0	< 0.004	< 0.006	0
Pesticides Fluazifop-butyl	P038	0.1 µg/l	419	0	< 0.001	< 0.002	0
Pesticides Flufenacet	P230	0.1 µg/l	416	0	< 0.002	0.01283	0
Pesticides Fluroxypyr	P040	0.1 µg/l	416	0	< 0.003	0.006	0
Pesticides Flurtamone	P248	0.1 µg/l	416	0	< 0.002	< 0.002	0
Pesticides Flusilazole	P159	0.1 µg/l	416	0	< 0.002	< 0.002	0
Pesticides Flutriafol	P039	0.1 µg/l	416	0	< 0.002	0.00283	0
Pesticides Gamma-HCH (Lindane)	P041	0.1 µg/l	424	0	< 0.001	< 0.00175	0
Pesticides Heptachlor	P043	0.03 µg/l	418	0	< 0.001	< 0.001	0
Pesticides Heptachlor epoxide	P044	0.03 µg/l	417	0	< 0.001	< 0.002	0
Pesticides Imazapyr	P160	0.1 µg/l	416	0	< 0.002	0.003	0
Pesticides Ioxynil	P049	0.1 µg/l	416	0	< 0.002	< 0.003	0
Pesticides Isoproturon	P048	0.1 µg/l	416	0	< 0.002	< 0.002	0
Pesticides Linuron	P051	0.1 µg/l	416	0	< 0.003	< 0.007	0
Pesticides MCPA	P054	0.1 µg/l	416	0	< 0.003	0.01483	0
Pesticides Mecoprop-P	P249	0.1 µg/l	416	0	< 0.002	0.01549	0
Pesticides Metaldehyde	P226	0.1 µg/l	416	7	< 0.005	0.15132	7
Pesticides Metazachlor	P203	0.1 µg/l	416	0	< 0.002	0.01183	0
Pesticides Monuron	P113	0.1 µg/l	416	0	< 0.002	0.00283	0
Pesticides op-DDD (TDE)	P114	0.1 µg/l	422	0	< 0.001	< 0.001	0
Pesticides op-DDE	P115	0.1 µg/l	418	0	< 0.001	< 0.001	0
Pesticides op-DDT	P116	0.1 µg/l	419	0	< 0.001	< 0.001	0
Pesticides Oxadixyl	P154	0.1 µg/l	416	0	< 0.003	< 0.005	0
Pesticides Pendimethalin	P118	0.1 µg/l	416	0	< 0.002	0.003	0
Pesticides pp-DDD (TDE)	P123	0.1 µg/l	422	0	< 0.001	< 0.001	0
Pesticides pp-DDE	P124	0.1 µg/l	419	0	< 0.001	< 0.001	0
Pesticides pp-DDT	P125	0.1 µg/l	418	0	< 0.001	< 0.001	0
Pesticides Propachlor	P126	0.1 µg/l	416	0	< 0.002	< 0.002	0
Pesticides Propham	P067	0.1 µg/l	416	0	< 0.002	0.003	0
Pesticides Propiconazole	P068	0.1 µg/l	416	0	< 0.002	< 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 Propyzamide	P071	0.1 µg/l	416	0	< 0.002	0.02483	0
Pesticides Prosulfocarb	P243	0.1 µg/l	416	0	< 0.002	0.002	0
Pesticides Quinmerac	P244	0.1 µg/l	416	0	< 0.001	0.02515	0
Pesticides Simazine	P073	0.1 µg/l	416	0	< 0.001	0.006	0
Pesticides Tri-allate	P079	0.1 µg/l	416	0	< 0.003	0.004	0
Pesticides Trichlopyr	P131	0.1 µg/l	416	0	< 0.006	< 0.007	0
Pesticides Trietazine	P132	0.1 µg/l	416	0	< 0.002	0.004	0
Polycyclic aromatic hydrocarbons	B011F	0.1 µg/l	560	0	0	0.002	0
Selenium	B009	10 µg Se/l	560	0	< 0.31	2.2378	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	562	0	0	0.1337	0
Total Trihalomethanes	D011	100 µg/l	562	0	4.9452	75.2728	0
Totals:			52,289	13			

Table YKS 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	A021	200 µg Al/l	3,880	1	< 3.21	51.471	1
Colour	A001	20 mg/l Pt/Co scale	3,881	0	< 0.5	2.3	0
Iron	A022	200 µg Fe/l	3,880	7	< 1.73	121.19	7
Manganese	A023	50 µg Mn/l	3,880	1	< 0.14	8.5904	1
Organoleptic Odour	A003	0 Dilution number	3,882	8	0	0	8
Organoleptic Taste	A004	0 Dilution number	3,882	6	0	0	6
Sodium	A009	200 mg Na/l	560	0	4.8922	43.039	0
Tetrachloromethane	D008	3 µg/l	564	0	< 0.02	< 0.14	0
Turbidity	A002	4 nephelometric turbidity units	3,881	1	< 0.03	0.43	1
Totals:			28,290	24			

Table YKS 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 (Indicator)	A014	0.5 mg NH ₄ /l	3,880	0	< 0.004	0.157
Chloride (Indicator)	D002A	250 mg Cl/l	432	0	7.433	52.769
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	11,738	29	0	0
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	3,885	-n/a	0	43
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	3,885	-n/a	0	12
Conductivity (Indicator)	D001	2500 µS/cm	3,881	0	117	700
Gross Alpha Activity	F004	0.1 Bq/l	436	1	< 0.012	0.081
Gross Beta Activity	F005	1 Bq/l	432	0	0.011	0.11067
Hydrogen ion (pH)	A006	6.5 - 9.5 pH Value	3,881	1	6.94	8.57
Residual Disinfectant - Free	C009	No abnormal change	11,736	-n/a	0.01	0.67
Residual Disinfectant - Total	C010	No abnormal change	11,736	-n/a	0.05	0.7763
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(11,736)	-n/a	0.01	0.36
Sulphate (Indicator)	A007	250 mg SO ₄ /l	560	0	22.291	126.39
Total organic carbon (indicator)	A017	No abnormal change	432	-n/a	0.3	2.5
Totals:			56,914	31		

*Residual disinfectant combined is presented for information. It is not a parameter required by the regulations. It is derived from the parameters 'Residual Disinfectant - Total' minus 'Residual Disinfectant - Free'.