WATER SITUATION REPORT

21 August 2023

1. Rainfall

The Yorkshire Region Has Received 77.8% of LTA for August

2. Reservoirs (surface water supply reservoirs not including Hull)

Over the Past Week Our Reservoir Stocks Have Decreased By -0.39% To 83.3%

3. Rivers

Some of Our Rivers are Below Critical Level

4. Demand

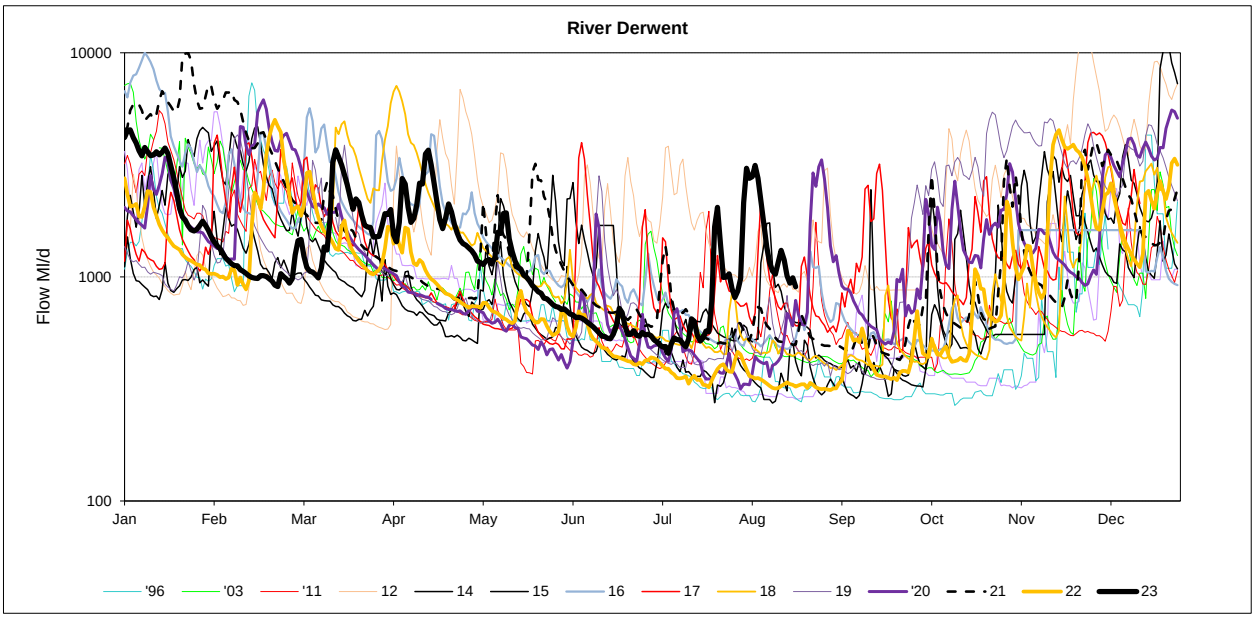
Regional Demand = 1268.9 Ml/d (including York)

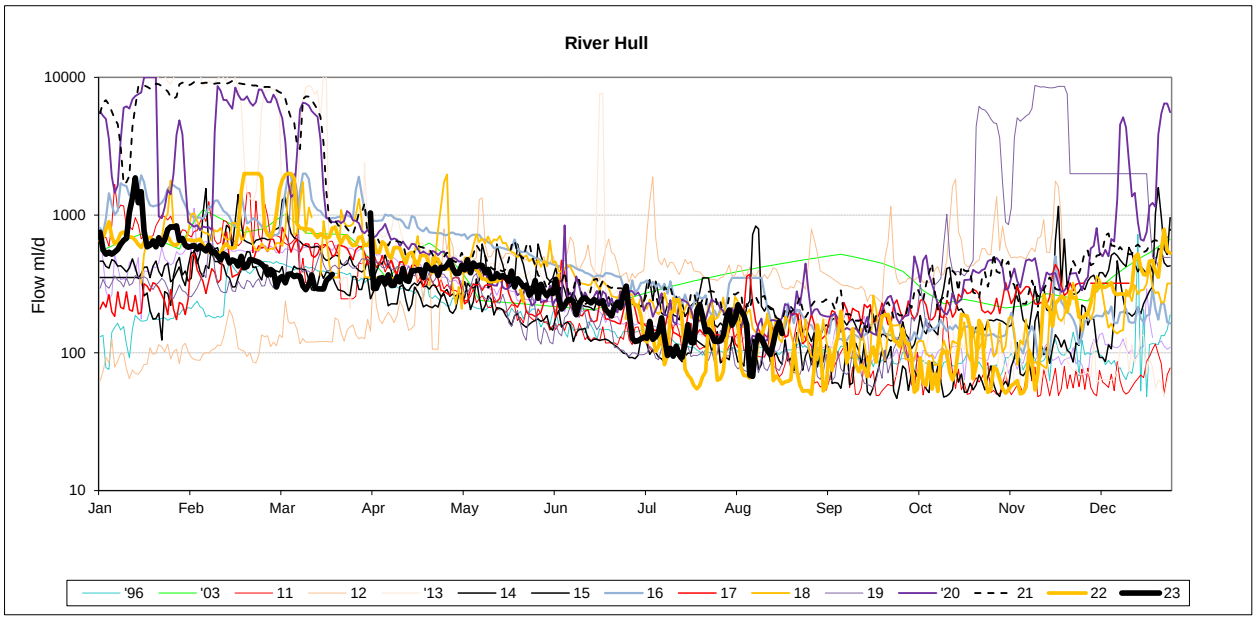
5. Comments

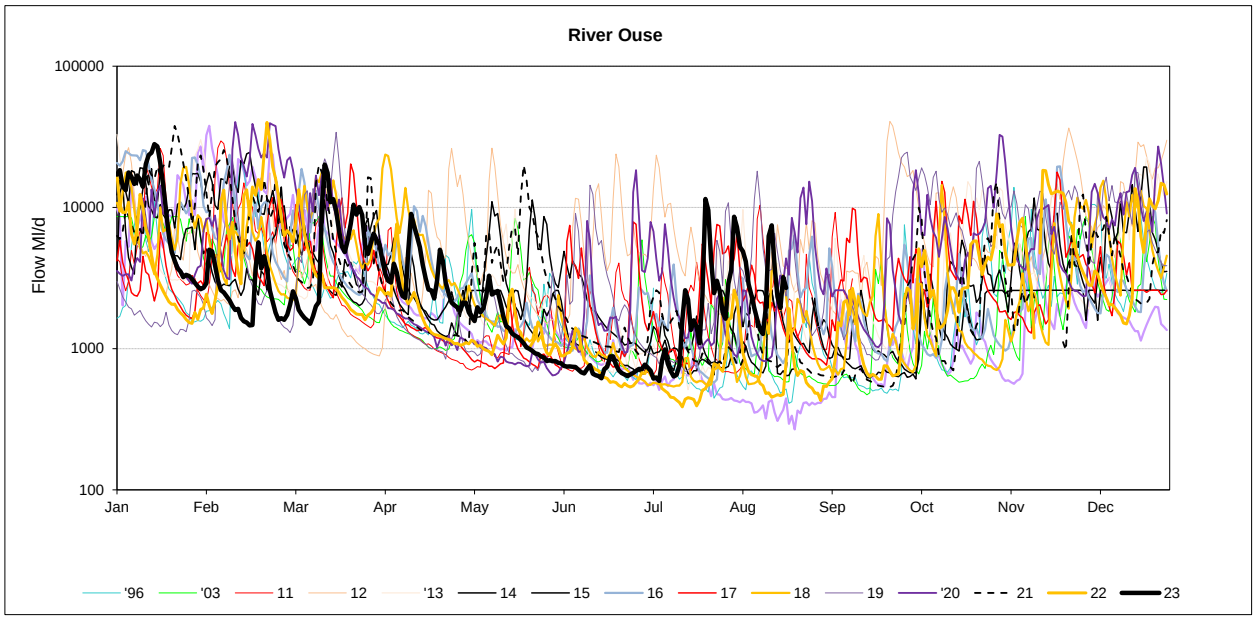
RIVER FLOWS

21 August 2023

	Mon 21-Aug	Mon 14-Aug	Mon 07-Aug	Mon 31-Jul	Critical flow bands
Derwent	✓ 903	✓ 1028	✓ 3145	✓ 809	305
Hull (using gauged (residual flows) only from 2011)	! 138	! 127	! 201	! 122	45 / 159 / 227
Ouse	✓ 2688	✓ 1958	✓ 4148	✓ 1626	400 / 650 / 1000
Ure	✓ 707	✓ 1292	✓ 809	✓ 1125	50 / 163 / 300
Wharfe	! 436	✓ 1339	✓ 630	✓ 1976	252 / 389 / 488 / 580






River Ouse
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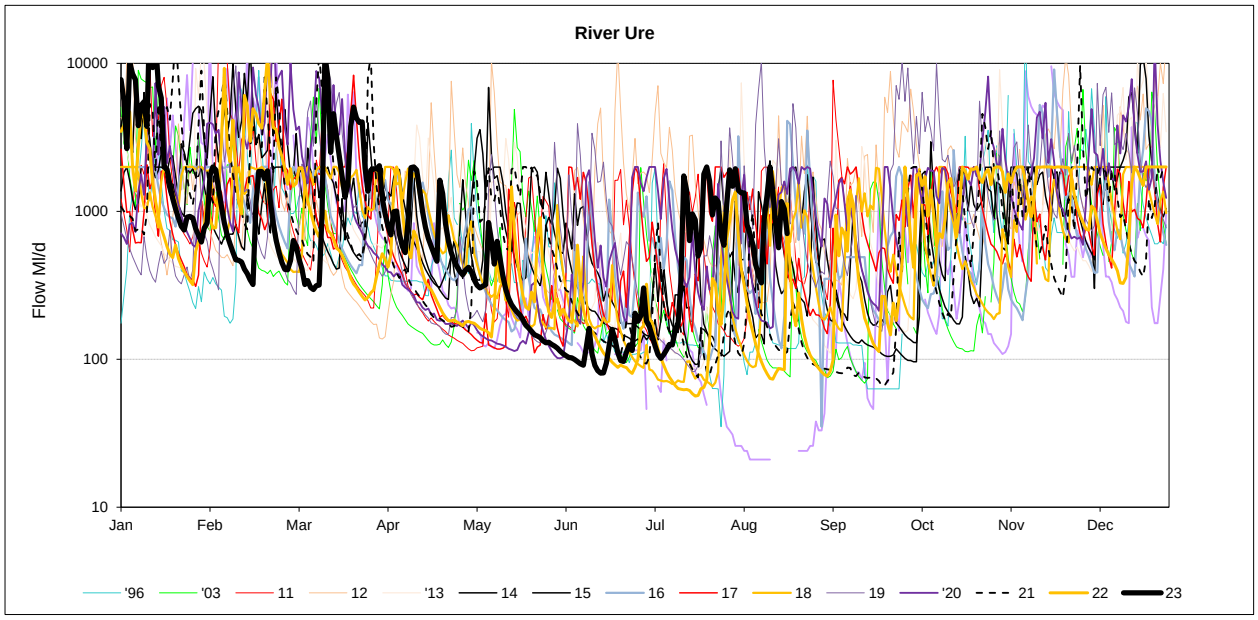
River Ure
Flow Ml/d
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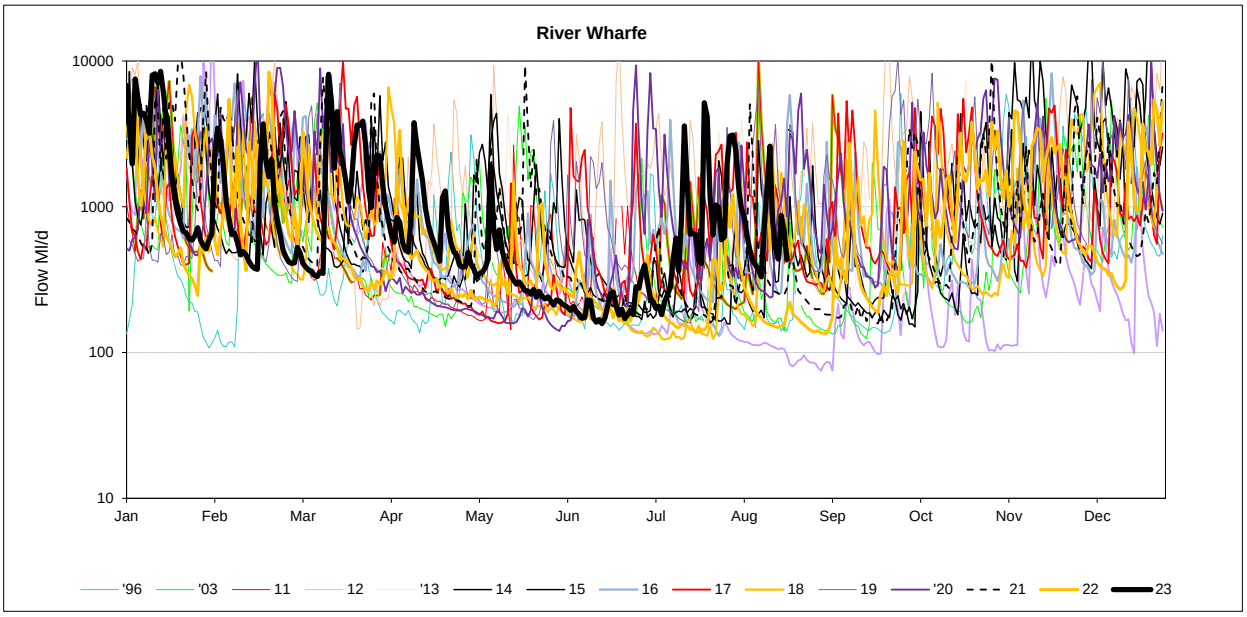
River Wharfe
Flow Ml/d
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Yorkshire Region (Met Office)				England/Wales	
Month	**mm**	**LTA**	**LTA(%)**	**mm**	**LTA(%)**
January	82	80	103%	105	113%
February	22	69	32%	17	23%
March	97	60	163%	131	203%
April	60	58	104%	66	109%
May	28	55	51%	38	62%
June	42	72	58%	42	61%
July	138	68	202%	128	181%
SOURCE OF DATA : Hydrological Summary of Gt Britain, Institute of Hydrology					

Yorkshire Water Services Data			
Rainfall Station	**Total August**	**LTA August**	**LTA % August**
Tophill	NDA	61	**0%**
Cottingham	NDA	66	**0%**
Bridlington	NDA	62	**0%**
Roundhill	87.6	87	**101%**
Fewston	80.1	77	**104%**
Osmotherley	72.8	76	**96%**
Scar House	98.2	112	**88%**
Watersheddles	110.5	121	**91%**
Gt Walden Edge	73.6	117	**63%**
Walshaw Dean	74.9	121	**62%**
Blackmoorfoot	NDA	96	**0%**
Ramsden	75.7	119	**64%**
Redmires	42.4	82	**52%**
Langsett	58.5	83	**70%**
YORKSHIRE REGION	**77.4**	**99.5**	**78%**
EAST REGION	**72.8**	**76.0**	**96%**
PENNINE (WEST)	**77.4**	**99.5**	**78%**
NDA= No data available/lack of readings, impacts % LTA for the month			
SOURCE OF DATA : YWS RAIN GAUGES- weekly, so monthly data may include previous month or miss start of month			

MAJOR SOURCE OUTPUTS

21 August 2023

17/08/2023

	Operational Maxima & Design Yields (Ml/d)	WRAP Targets Week Beginning - 17/08/2023	Daily Average Previous 5 Days Starting - 17/08/2023	WRAP Targets Week Starting - 10/08/2023	Daily Average Week Starting - 10/08/2023
WATER TREATMENT WORKS					
CENTRAL					
ECCUP NO 1 WTW	100	53	55	53	57
ECCUP NO 2 WTW	60	44	33	44	33
HEADINGLEY	95	63	63	63	63
HARLOW HILL	41.5	27	25	27	25
THORNTON STEWARD	22.5	20	23	20	21
EAST					
EAST NESS	17	8	9	8	9
IRTON	23.5	13	13	13	13
RUSWARP	12	7	8	7	7
TOPHILL LOW	68	40	47	40	46
KELDGATE	90	60	62	60	55
NORTH WEST					
CHELLOW	175	148	138	148	143
GRAINCLIFFE	60	38	37	38	39
SLADEN VALLEY	12	8	8	8	7
OLDFIELD	10.1	6	6	6	6
EMBSAY	25	17	18	17	18
SOUTH					
INGBIRCHWORTH	20	20	18	20	20
LANGSETT	56	36	50	36	46
(TOTAL)	75	**56**	**68**	**56**	**66**
EWDEN	40	35	29	35	27
LOXLEY	40	26	36	26	36
(TOTAL)	80	**61**	**65**	**61**	**63**
RIVELIN	75	64	58	64	59
SOUTH WEST					
ALBERT	55	51	47	51	43
FIXBY	30	21	15	21	17
KIRKHAMGATE	30	17	14	17	14
(TOTAL)	115	**89**	**77**	**89**	**74**
BLACKMOORFOOT	23	20	17	20	13
LONGWOOD	32	27	18	27	20
(TOTAL)	55	**47**	**36**	**47**	**34**
HOLMBRIDGE	29	19	20	19	15
GRID					
ELVINGTON	260	159	123	159	137
LOFTSOME BRIDGE	110	75	65	75	67

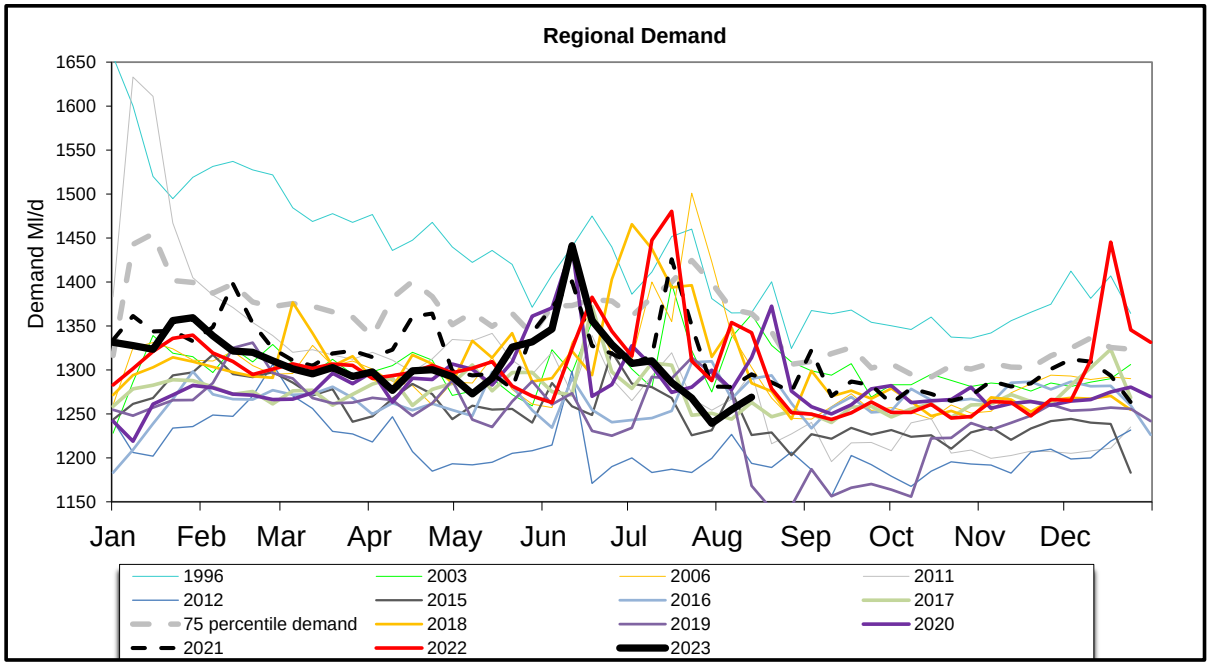
Daily Average Demand Ml/d

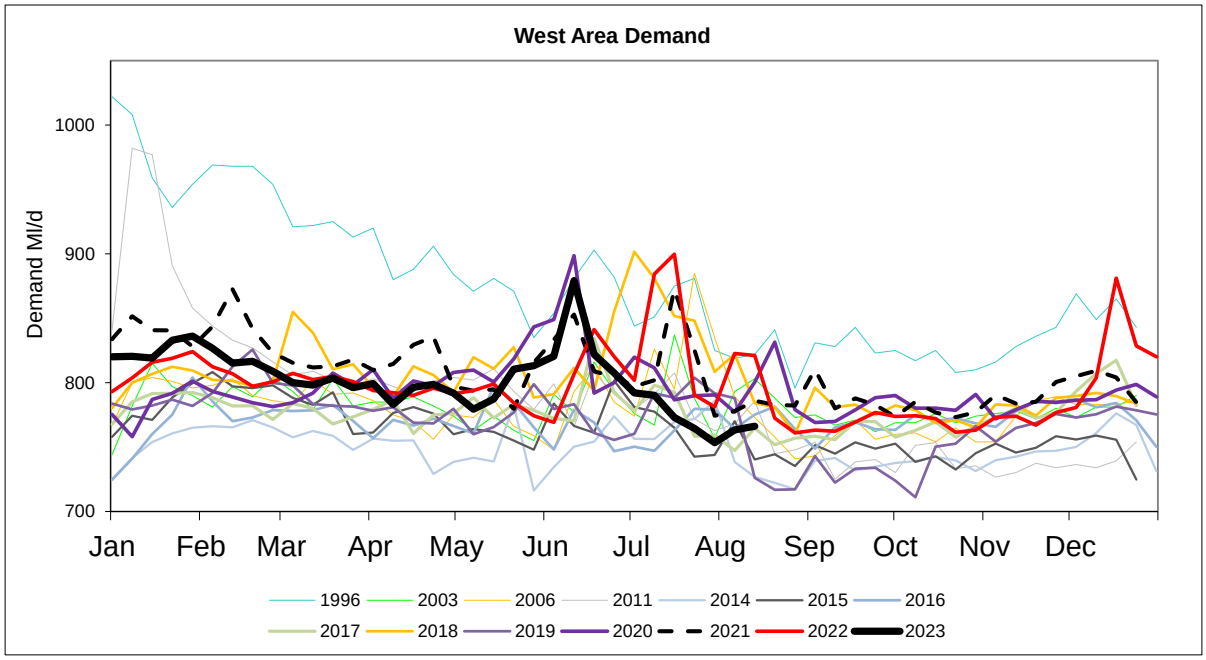
Week Ending Wednesday	LEEDS	WAKEFIELD + MORLEY	SELBY	HARROGATE	HULL	MALTON	SHEFF/BLY	DONCASTER	BRADFORD	CALDER	SKIPTON	YORK AREA	REGION
19/07/2023	174	77	42	76	164	55	262	76	135	144	36	44	1286
26/07/2023	170	75	42	75	160	54	261	75	134	142	36	44	1268
02/08/2023	157	73	41	74	155	55	260	74	129	141	35	45	1239
09/08/2023	158	73	42	74	158	55	262	76	133	143	36	46	1255
16/08/2023	158	71	42	76	165	58	263	77	133	144	35	45	1269
MONTHLY DEMANDS FROM WIS REPORT													
Jul-23	532	79	45	78	170	58	287	76	144	144	37	49	1700
Jun-23	456	74	42	74	164	53	274	68	139	137	34	45	1560

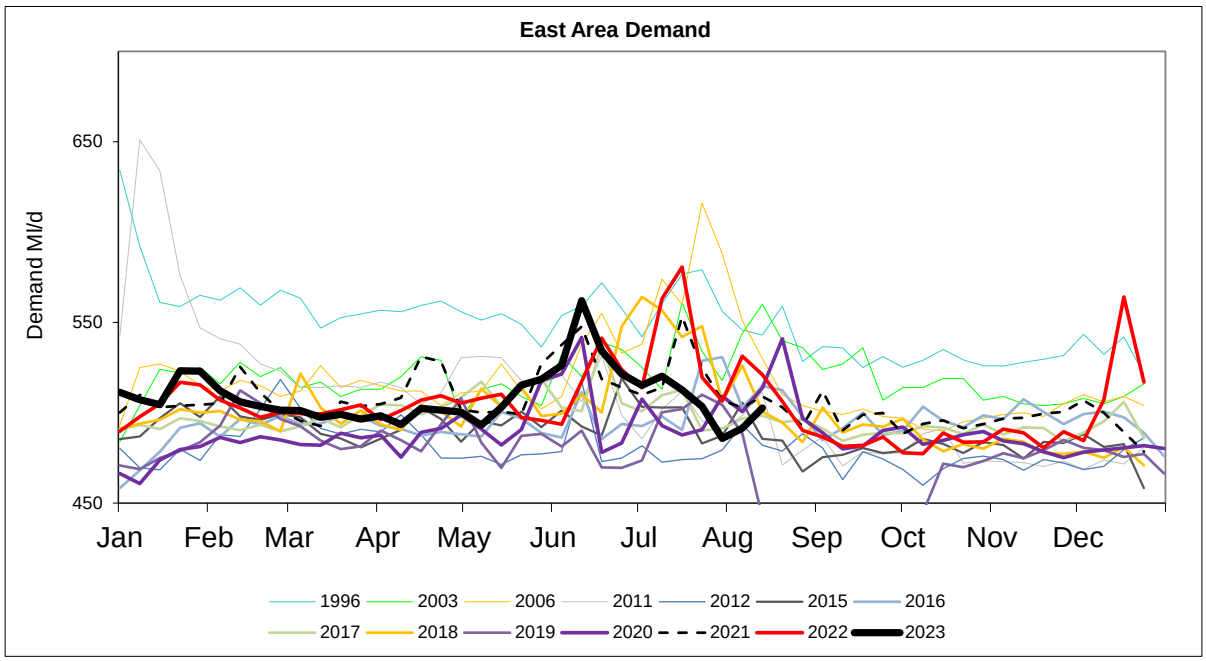
NB Current month demands include some estimates for minor sources and are not exactly comparable with previous months' figures.

DEMAND

21 August 2023






East Area Demand
Demand Ml/d
650
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450
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2016
2017
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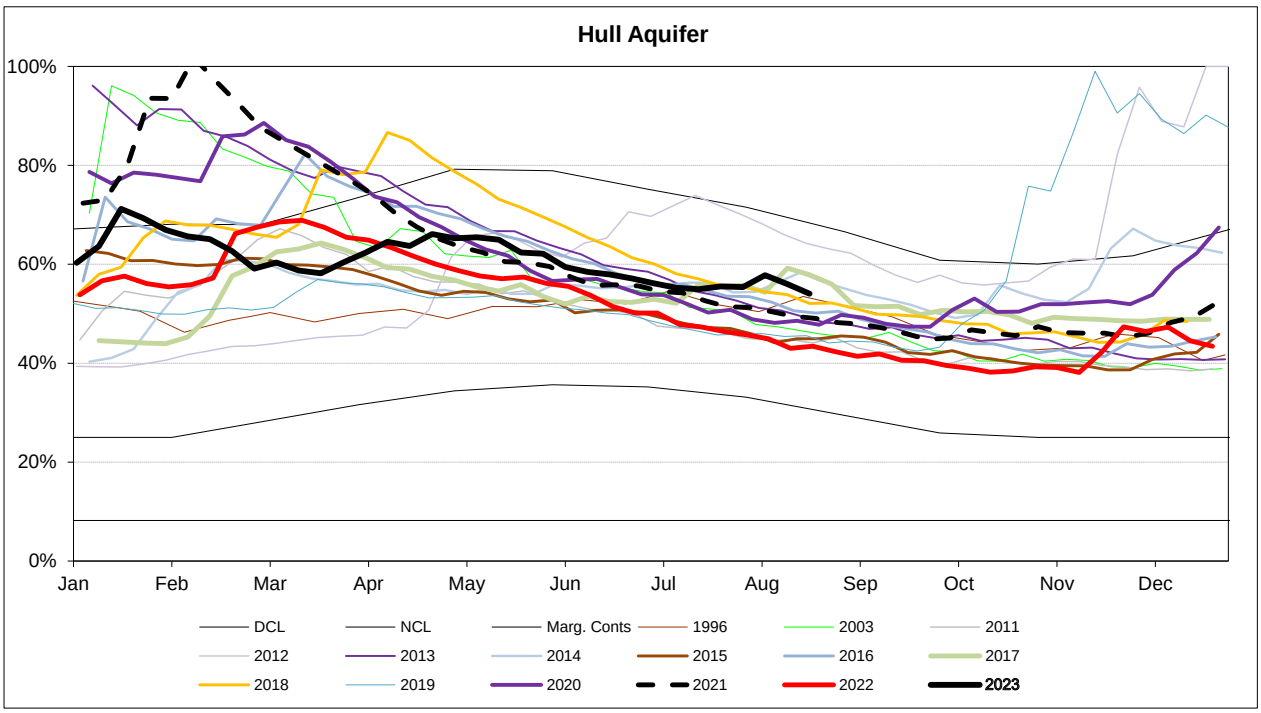
2019
2020
2021
2022
2023


Hull Aquifer
100%
80%
60%
40%
20%
0%
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DCL
NCL
Marg. Conts
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2014
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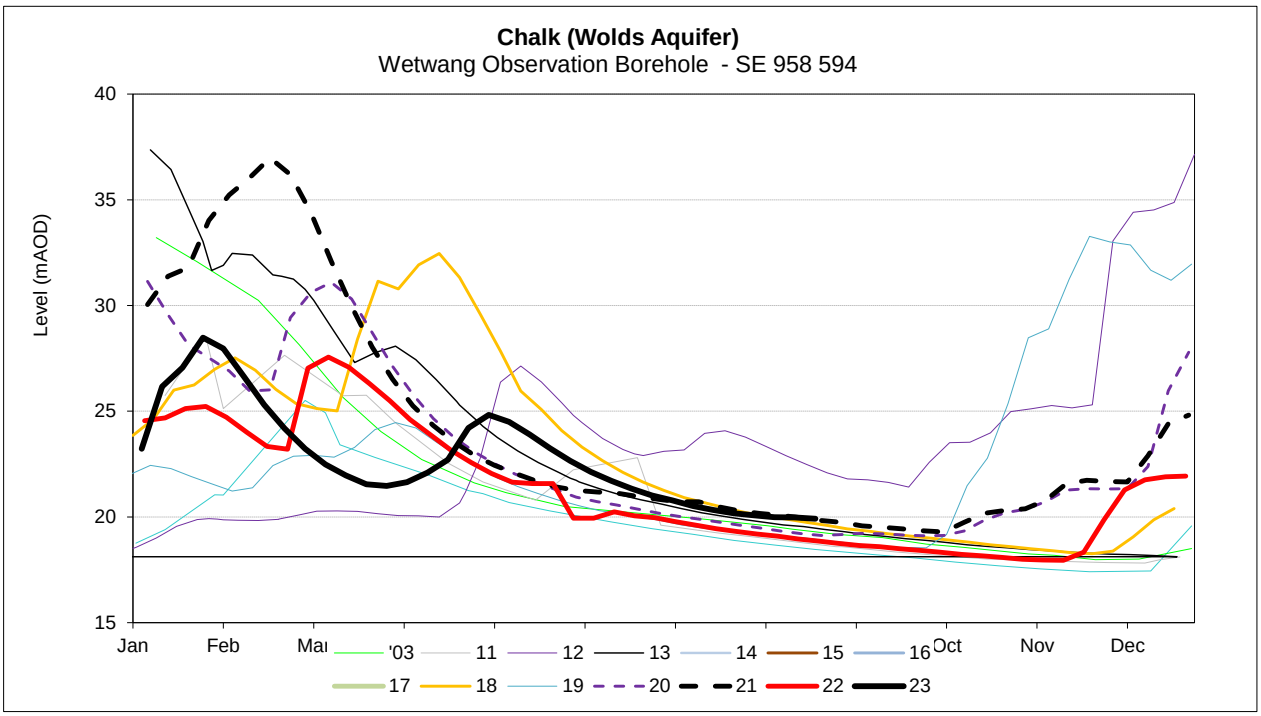
2017
2018
2019
2020
2021
2022
2023


Chalk (Wolds Aquifer)
Wetwang Observation Borehole - SE 958 594
Level (mAOD)
40
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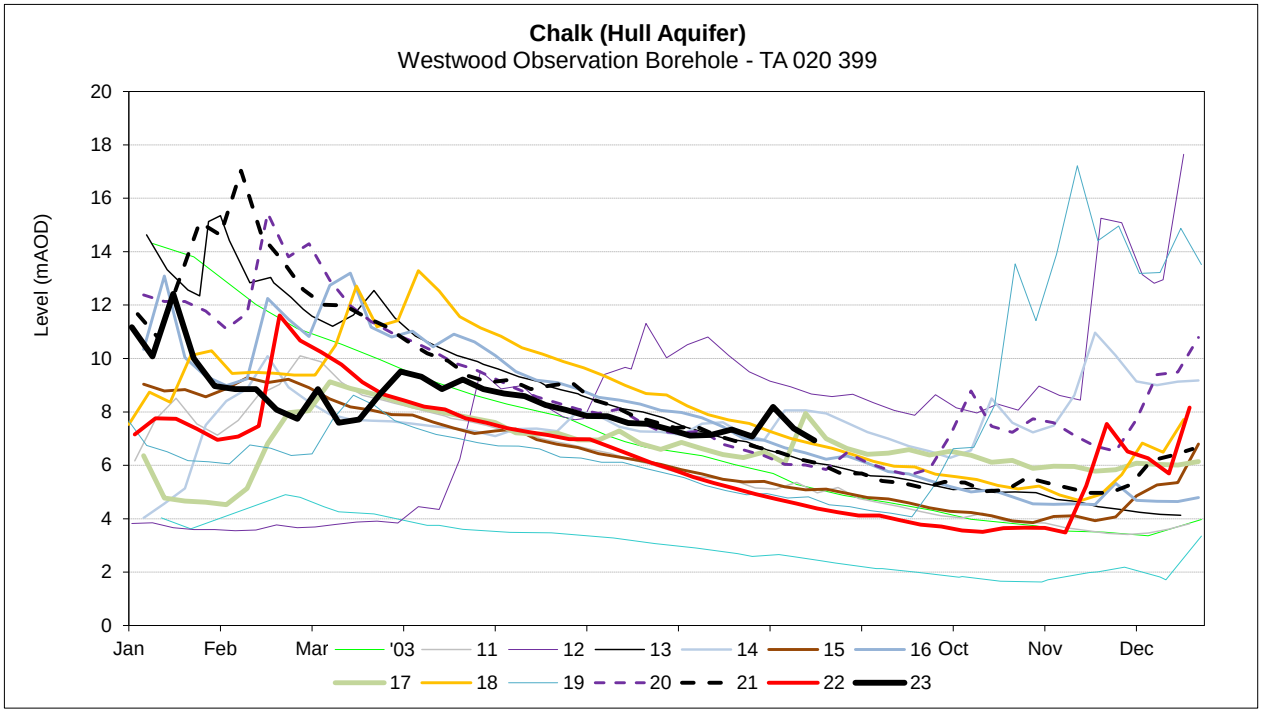
Chalk (Hull Aquifer)
Westwood Observation Borehole - TA 020 399
Level (mAOD)
20
18
16
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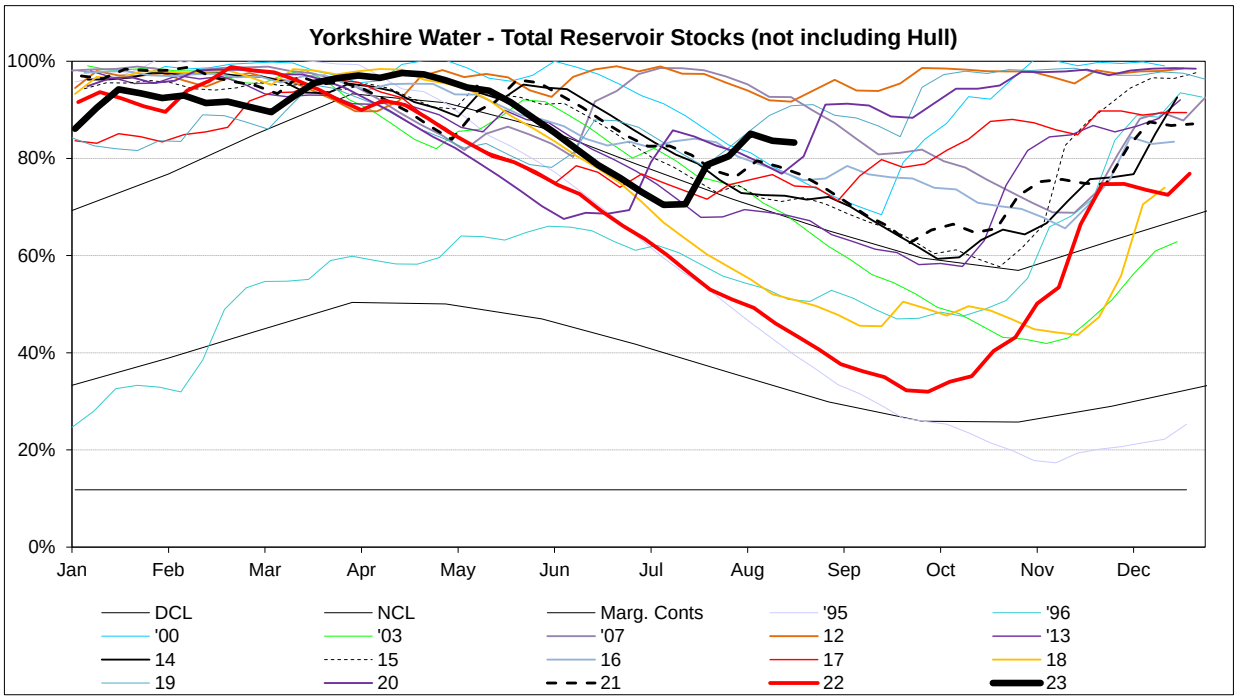
RESERVOIR STOCKS Reservoir Group	21/08/2023 % Stocks @	% Change	% Change last week	Planned Reservoir Safety Work Reason for Drawdown	Required Drawdown & Duration	
Calderdale (excl Withens Clough)	85.6%	0.3%	-2.4%			
Boothwood/Ryburn (incl WC)	95.3%	-0.9%	-1.2%			
(Gorpley)	72.4%	-2.7%	0.1%			
Huddersfield	88.2%	-1.3%	-1.8%			
Brownhill/Digley	91.0%	-1.1%	-1.4%			
Gorple Lower	59.6%	-2.3%	-6.8%	Spillway Improvements	May 23 - Dec 23	78.0%
Walshaw Dean Middle	28.7%	0.5%	-2.3%	Access for Tunnel Grounting at Upper IRE	June 23 - Dec 23	24.0%
Walshaw Dean Lower	99.1%	1.0%	-1.9%	Access for Tunnel Grounting at Middle IRE	Dates tbc	28.0%
Widdop	95.3%	-0.6%	-3.3%	Increase Drawdown Capacity	Feb 24 - Aug 24	11.0%
Calder Area Total	**90.0%**	**-0.7%**	**-1.8%**			
Nidd/Barden/Chelker	74.1%	0.7%	-1.7%			
Grimwith	80.9%	1.1%	-0.7%			
Worth Valley	93.6%	0.3%	-1.0%			
Gouthwaite	45.9%	-1.8%	-13.0%	Drawdown Improvements	May 23 - Oct 23	53.0%
Ponden	100.0%	0.4%	-0.4%	Pull Out Tests	Sept 23 - Mar 24	50.0%
Keighley Moor	42.0%	-3.0%	-0.4%	Spillway Improvements	Jul 23 - Sept 23	92.0%
March Ghyll	80.9%	16.7%	1.1%	Embankment Stability Works	Jan 23 - Dec 24	86.0%
North West Area Total	**79.7%**	**0.8%**	**-1.4%**			
Leighton/Roundhill	78.4%	1.3%	-0.8%			
Haverah Park	96.0%	-1.2%	11.2%			
Swinsty	65.7%	-4.8%	-3.9%			
Thruscross	91.2%	-1.9%	-4.2%			
Swinsty	65.7%	-4.8%	-3.9%	Outlet Channel Repairs	Dates tbc	93.0%
Thruscross	91.2%	-1.9%	-4.2%	Bridge Repairs	Dates tbc	TBC
North Area Total	**82.4%**	**-0.2%**	**0.1%**			
Little Don	70.6%	-2.0%	-1.7%			
Ewden Valley	72.9%	-2.6%	-1.4%			
Loxley Valley	83.4%	-1.5%	-1.3%			
Redmires	96.1%	-0.5%	-1.6%			
Broomhead	72.9%	-2.6%	-1.4%	Install Overflow Debris Barrier	Dates tbc	95.0%
South Area Total	**80.5%**	**-1.6%**	**-1.3%**			
Tophill Low	72.7%	-4.2%	-4.6%			
Hull Aquifer	54.0%	-1.9%	-1.8%			
East Area Total	**55.6%**	**-2.1%**	**-2.1%**			
Regional Total (DCP) (inc East Area)	**80.1%**	**-0.6%**	**-1.5%**			
YORKSHIRE TOTAL (Supply) (not inc East Area)	**83.3%**	**-0.4%**	**-1.45%**			


Yorkshire Water - Total Reservoir Stocks (not including Hull)
100%
80%
60%
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20%
0%
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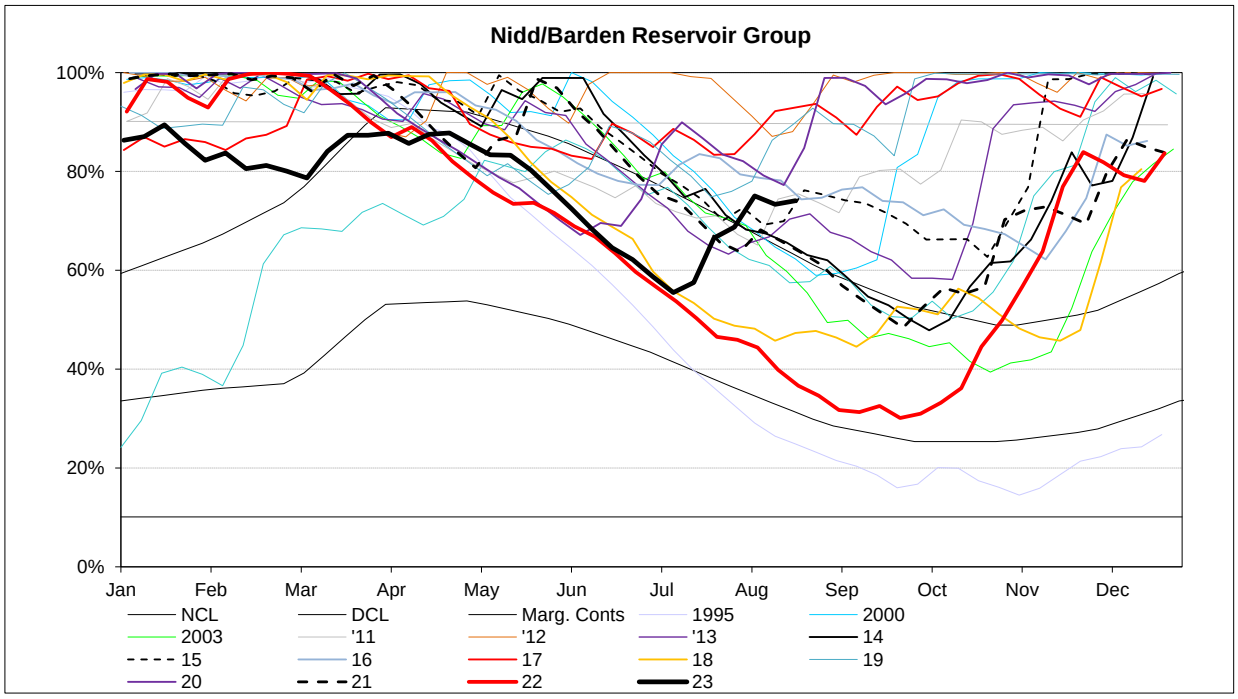
Nidd/Barden Reservoir Group
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60%
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20%
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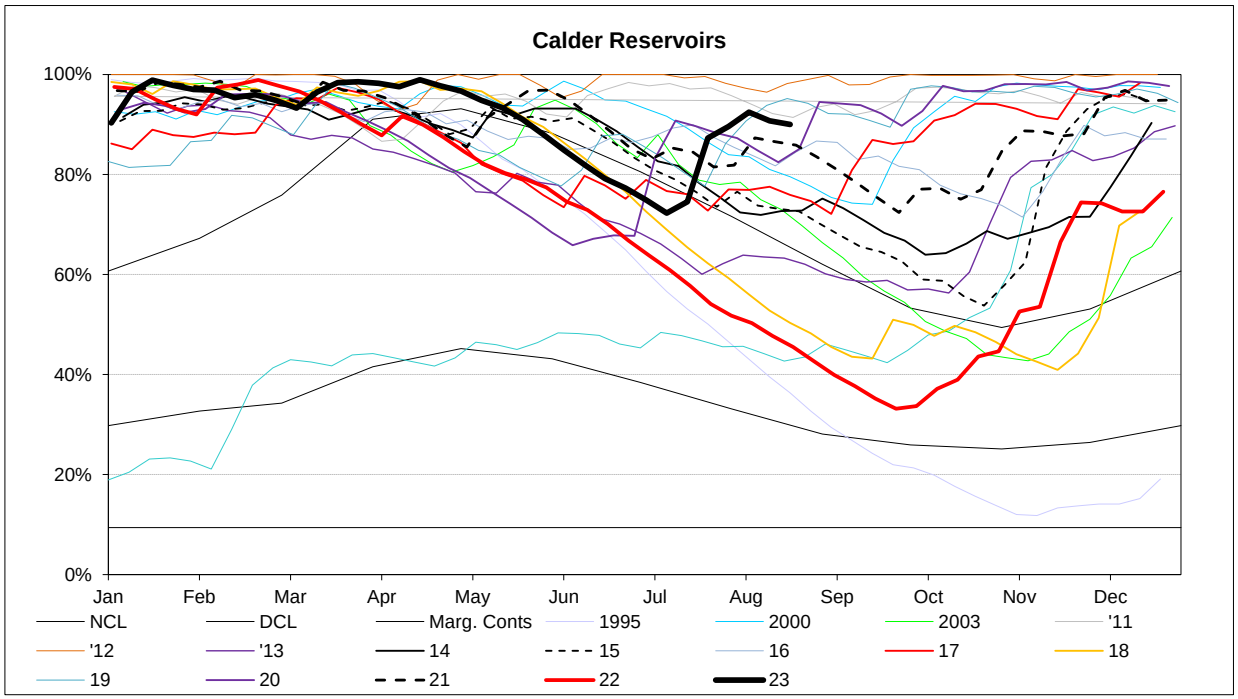
Calder Reservoirs
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40%
20%
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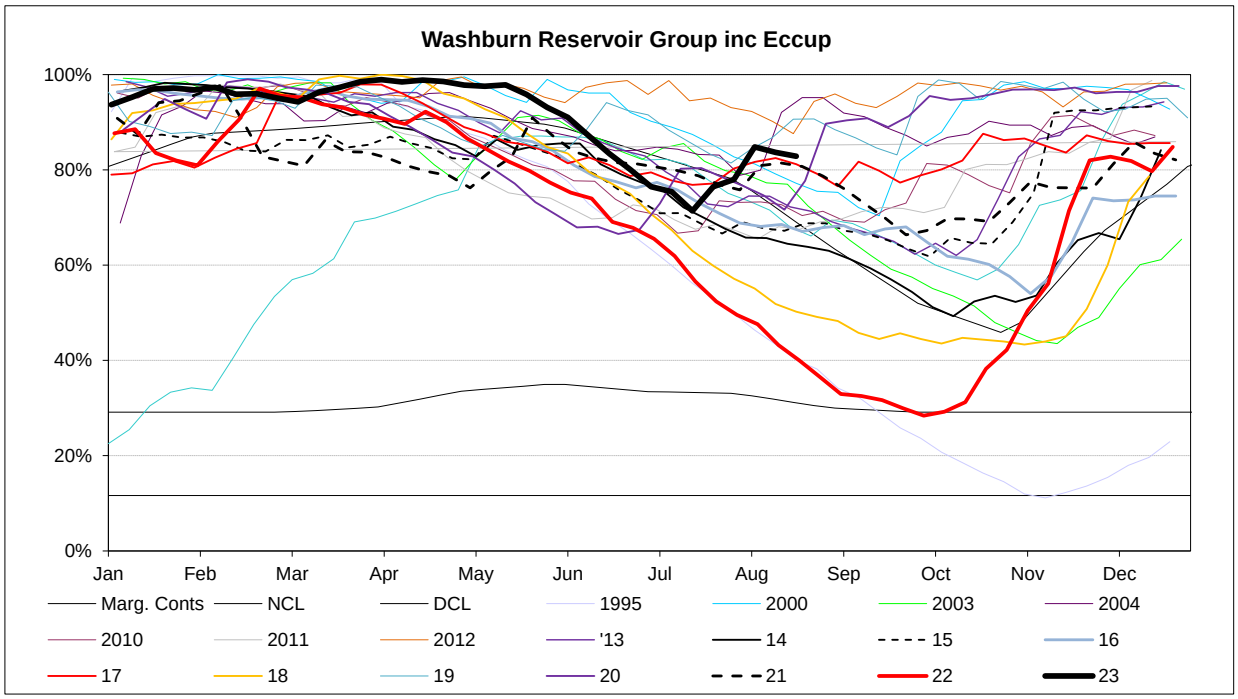
Washburn Reservoir Group inc Eccup
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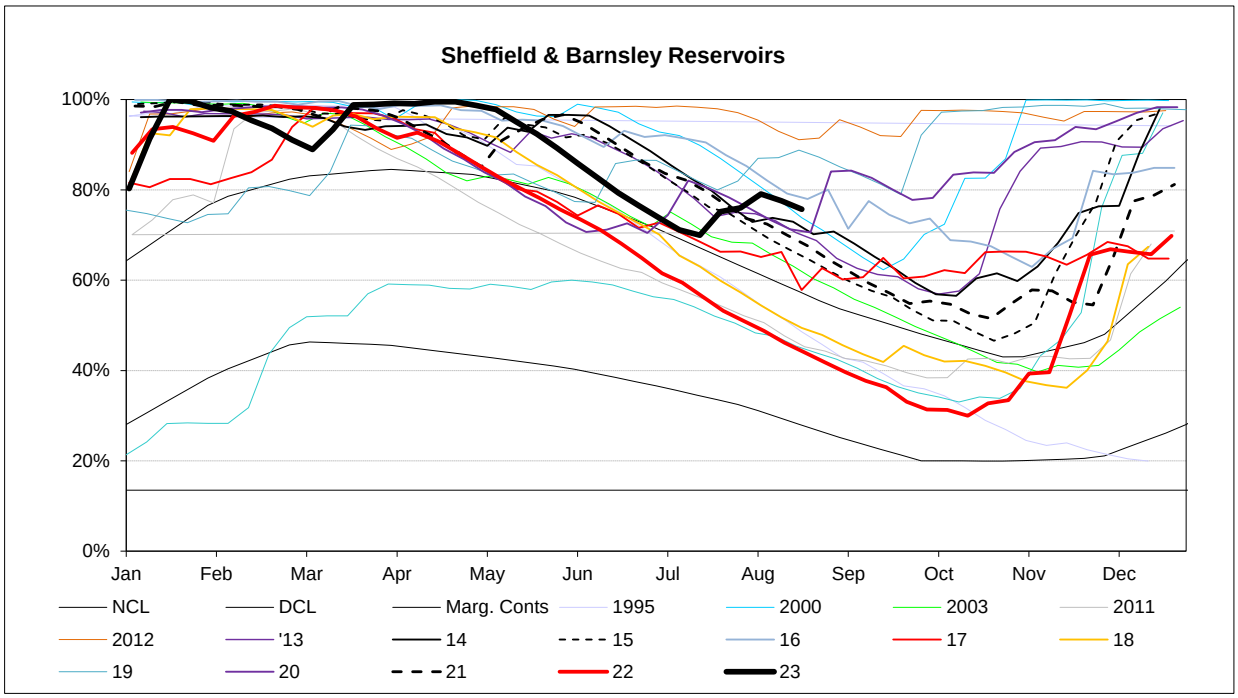
Sheffield & Barnsley Reservoirs
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Marg. Conts
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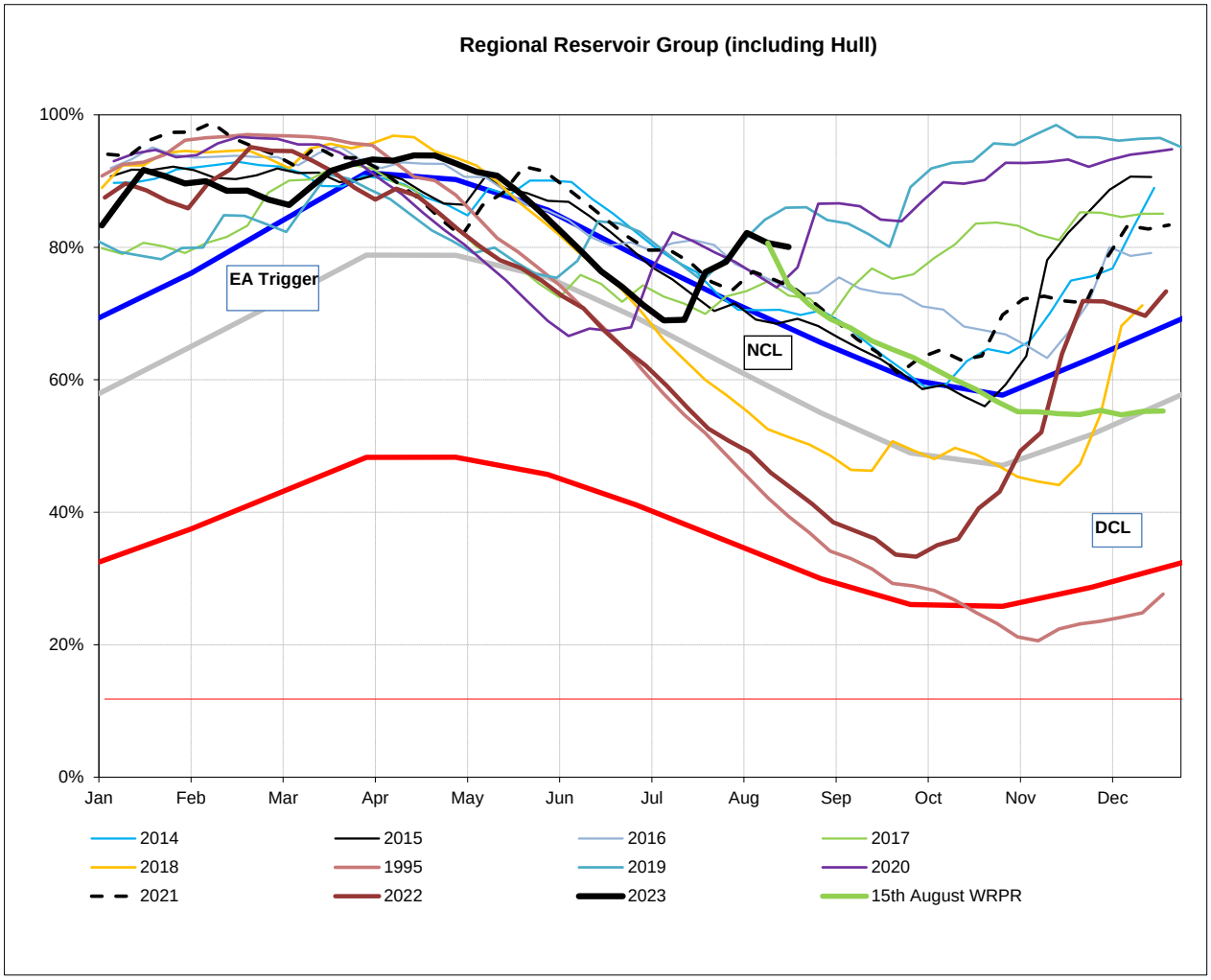
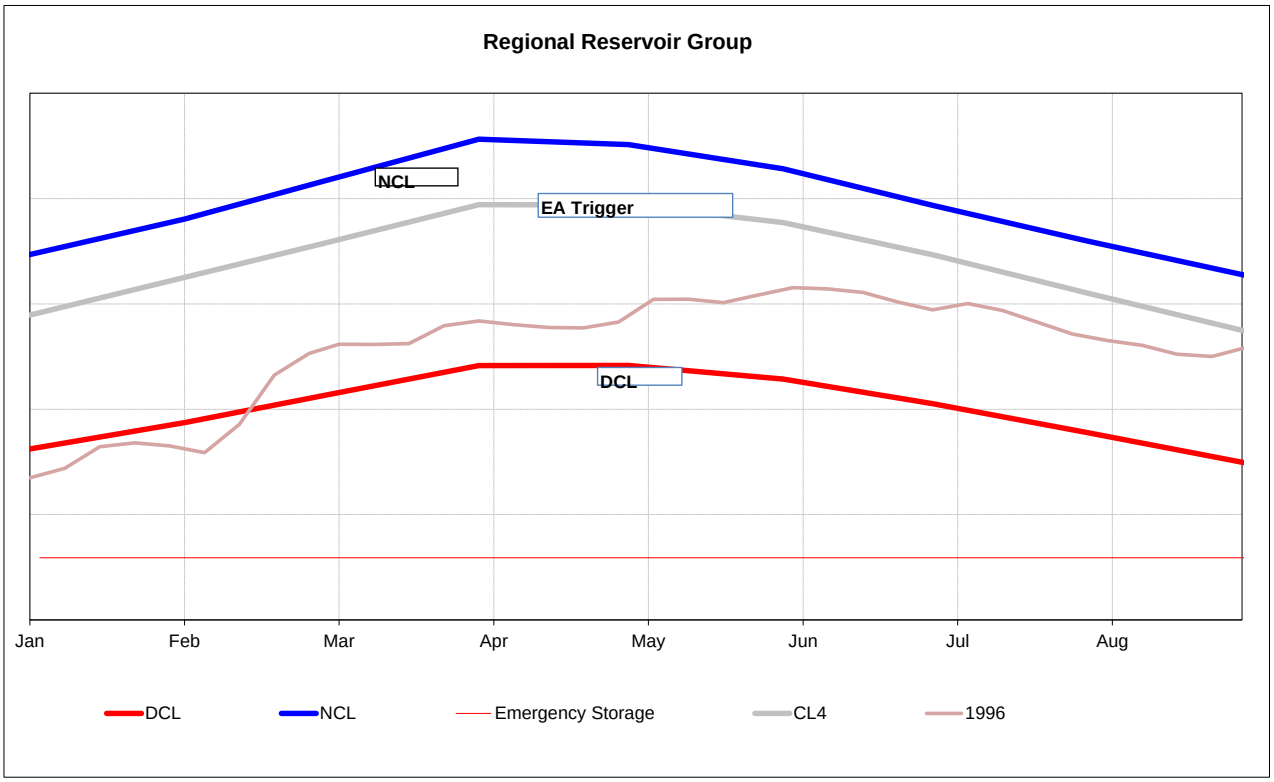
EA Stocks Report		21/08/2023	
	Ml	%	% change
South West Area Supply Reservoirs			
Calderdale Group	9536	85.6%	0.3%
Huddersfield Group	12448	88.1%	-1.3%
Brownhill/Digley excl Holmestye:	5087	90.6%	-1.1%
Boothwood/Ryburn	11120	95.0%	-0.9%
South West Reservoir Group	39623	90.0%	-0.7%
Bradford Area Supply Reservoirs			
Gouthwaite	2667	45.9%	-1.8%
Grimwith	17609	80.9%	1.1%
Nidd/Barden/Chelker	14208	74.1%	0.7%
Rombalds/Thornton Group	2039	91.3%	-1.0%
Skipton Area Supply Reservoirs			
Embsay	657	91.0%	0.7%
Worth Valley Group	3100	93.6%	0.3%
North West Reservoir Group	37613	79.7%	0.8%
Compensation inc Silsden	2309	98.1%	-0.6%
Gouthwaite	2667	45.9%	-1.8%
March Ghyll & Elslack Reservoirs excluded			
for consistency with stocks predictions in WRAPSIM			
East Area Supply Reservoirs			
Tophill Low	1224	72.7%	-4.2%
Hull Aquifer	10268	54.0%	-1.9%
East Reservoir Group	11493	55.6%	-2.1%

	Ml	%	% change
South Area Supply Reservoirs			
Don Valley	2040	98.1%	0.6%
Little Don	5202	70.6%	-2.0%
Ewden Valley	3597	72.9%	-2.6%
Loxley Valley	5732	83.4%	-1.5%
Rivelin	770	94.4%	-3.1%
Redmires	2671	96.1%	-0.5%
South Reservoir Group	20012	80.5%	-1.6%
Winscar Group	7515	80%	-2.1%
Compensation Reservoirs			
Scout Dike	307	44.3%	-2.7%
Underbank	1575	54.9%	-2.8%
Morehall	1220	56.1%	-2.9%
Damflask	3914	76.7%	-1.8%
North Area Supply Reservoirs			
Washburn	19363	82.8%	-0.8%
Eccup	5589	79.7%	-3.6%
Leighton/Roundhill	5800	78.4%	1.3%
Haverah Park	963	96.0%	-1.2%
Lumley Moor	381	100.0%	0.0%
Thornton Steward	901	95.0%	2.9%
North Reservoir Group	27408	82.4%	-0.2%
Lindley Wood Compensation	1348	46.2%	-3.3%
Regional Reservoir Group	143663	80.1%	-0.6%
(sum of South West, North West, East, South, North & Winscar Reservoirs)			

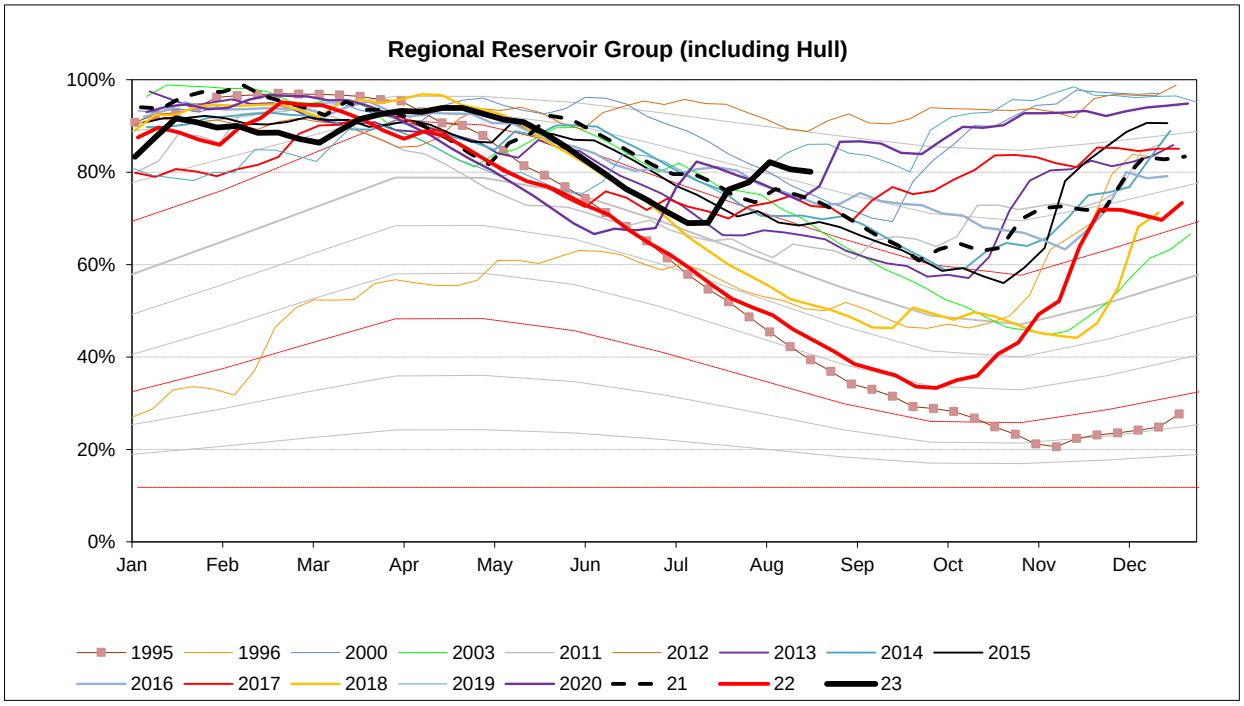
CHART REGIONAL DCP (Including Hull)

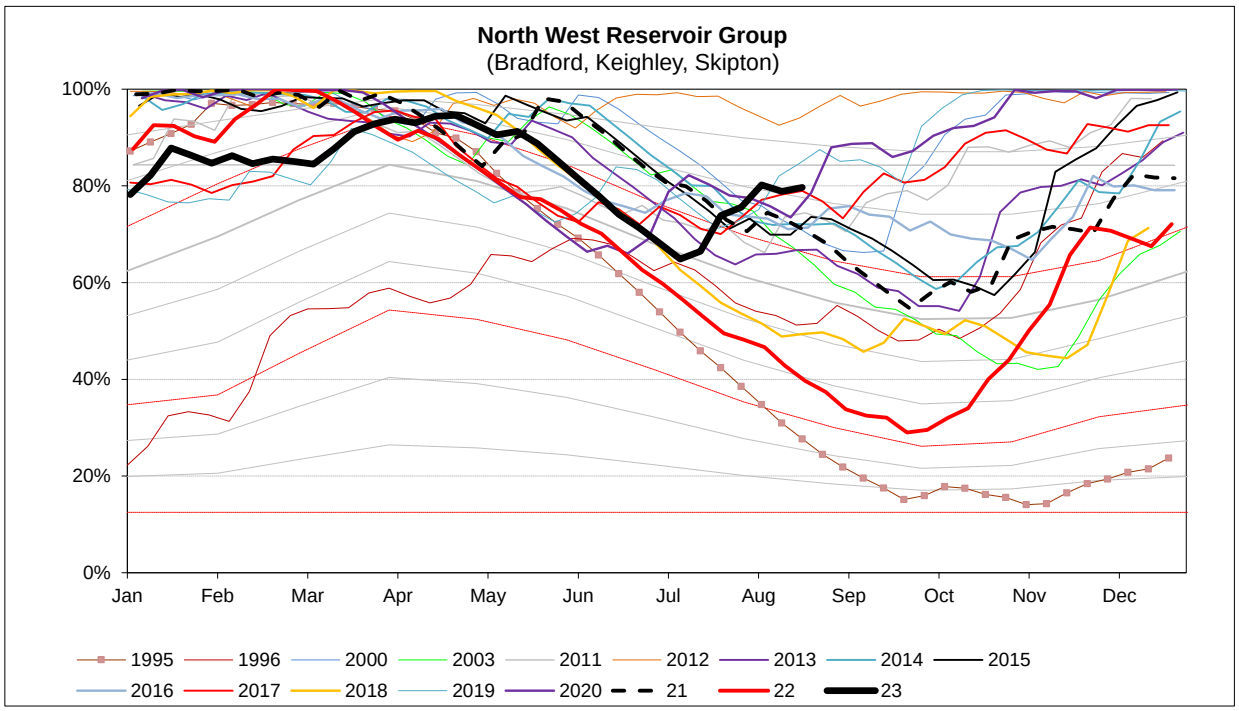
21 August 2023




Regional Reservoir Group
NCL
EA Trigger
DCL
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
DCL
NCL
Emergency Storage
CL4
1996

Triggers	
EA early warning (CL4)	Water resources to advise EA on production
Hosepipe Restrictions	When projected falling stocks fall below DCL
Drought Orders	When stocks are below DCL.




North West Reservoir Group
(Bradford, Keighley, Skipton)
100%
80%
60%
40%
20%
0%
Jan
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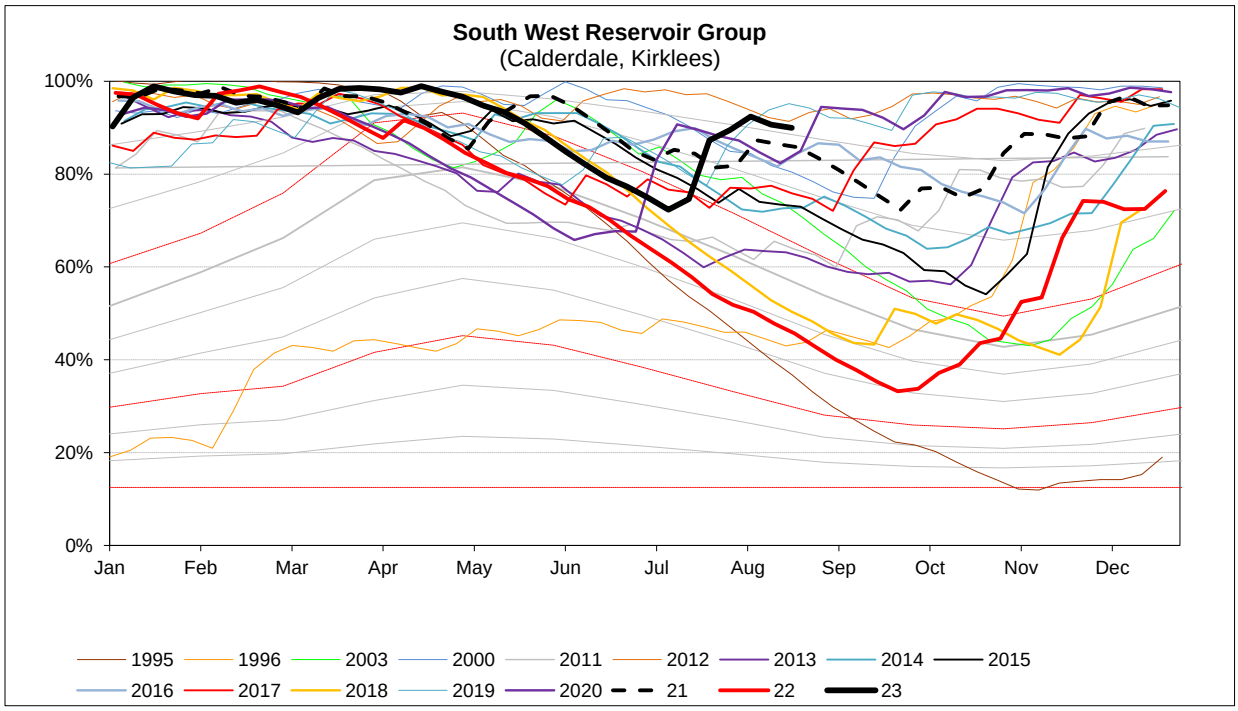
South West Reservoir Group
(Calderdale, Kirklees)
100%
80%
60%
40%
20%
0%
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Jul
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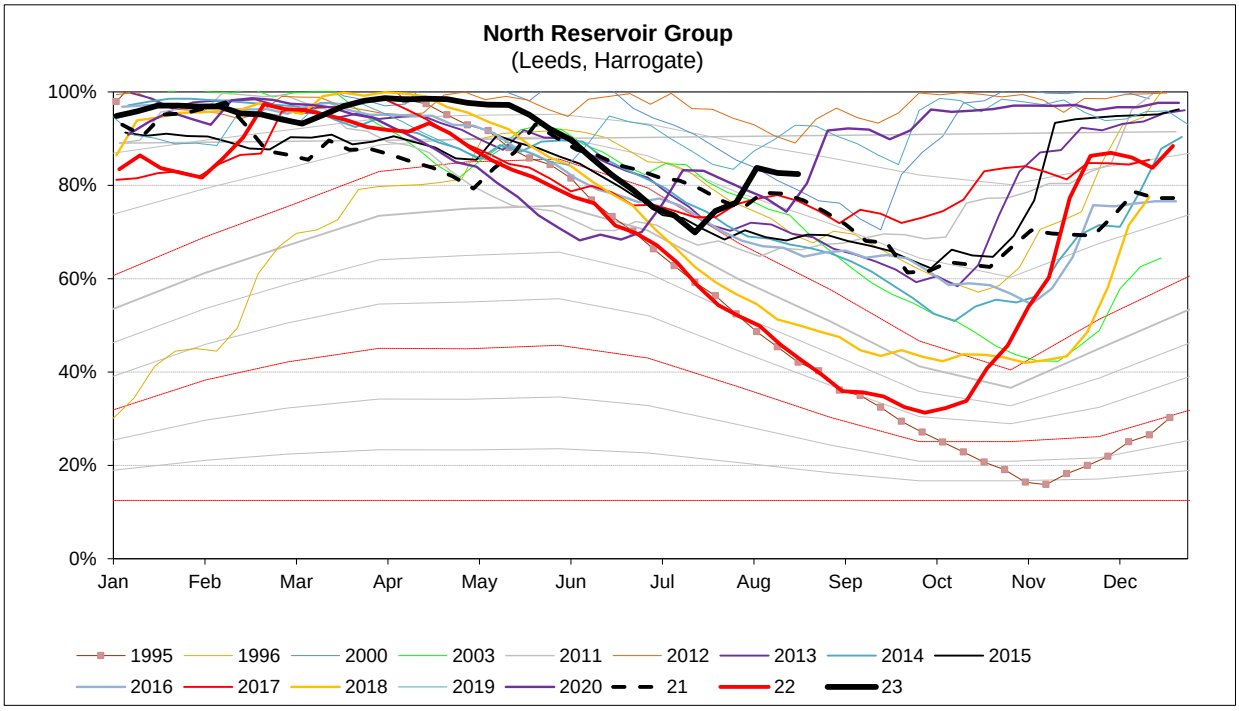
North Reservoir Group
(Leeds, Harrogate)
100%
80%
60%
40%
20%
0%
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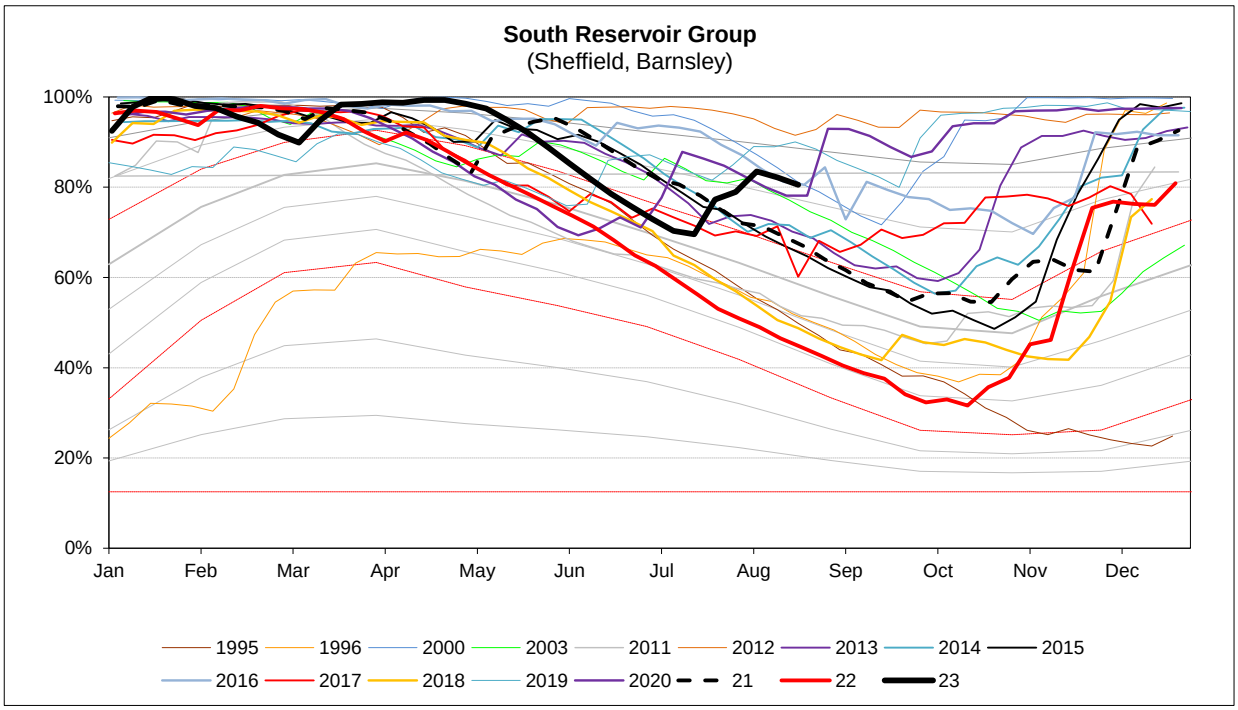
South Reservoir Group
(Sheffield, Barnsley)
100%
80%
60%
40%
20%
0%
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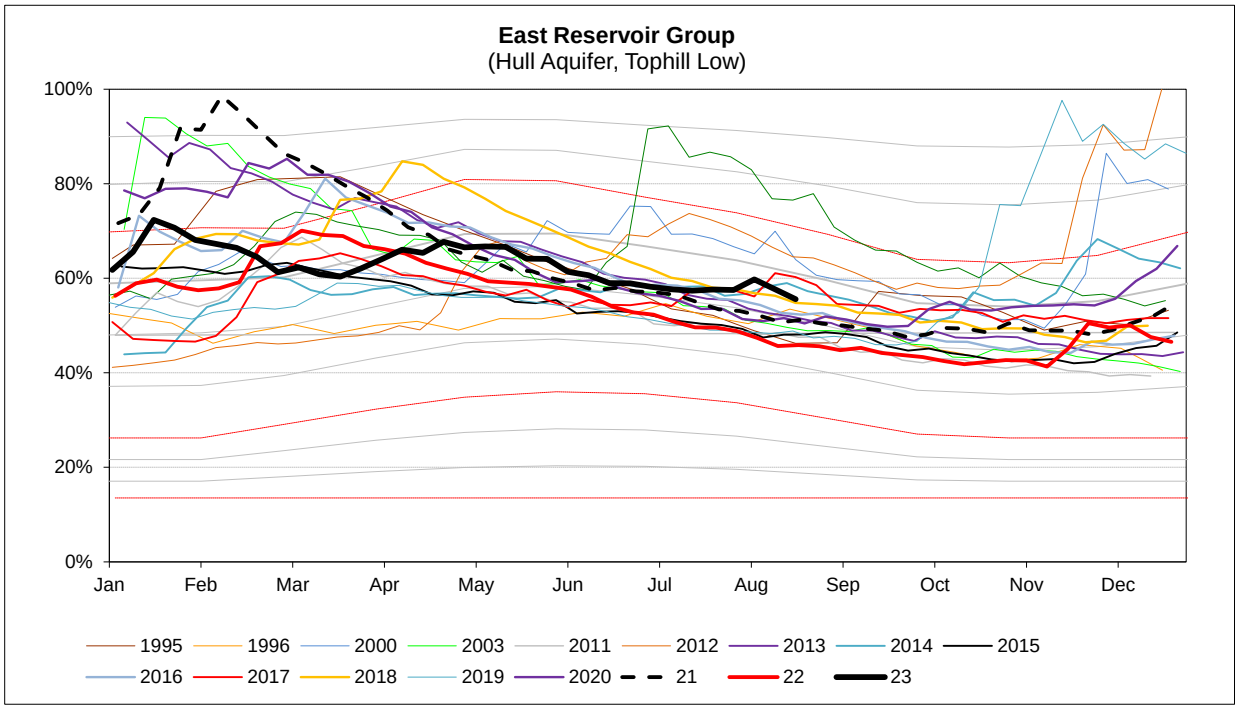
East Reservoir Group
(Hull Aquifer, Tophill Low)
100%
80%
60%
40%
20%
0%
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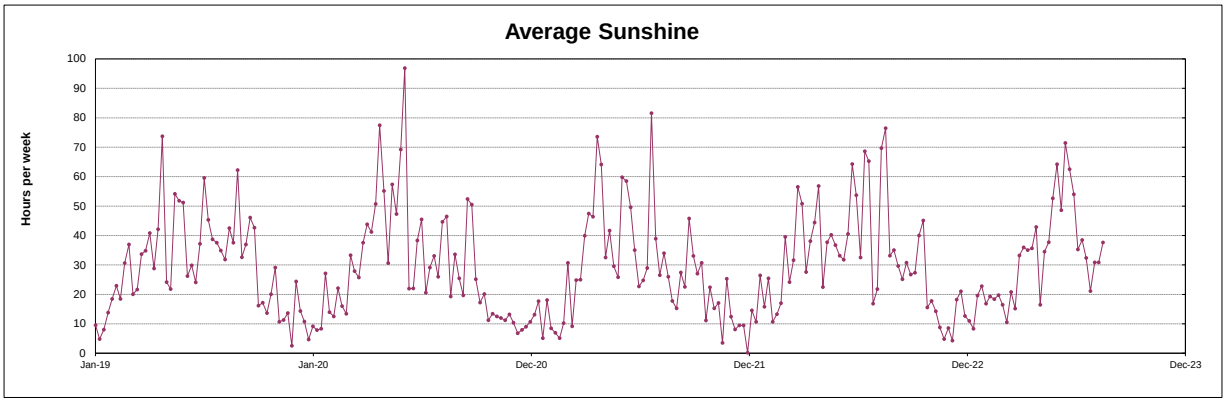
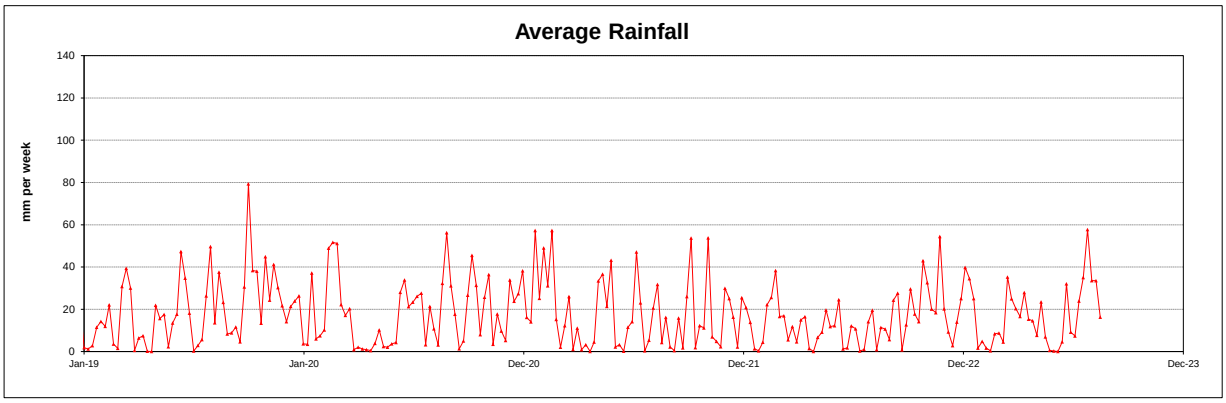
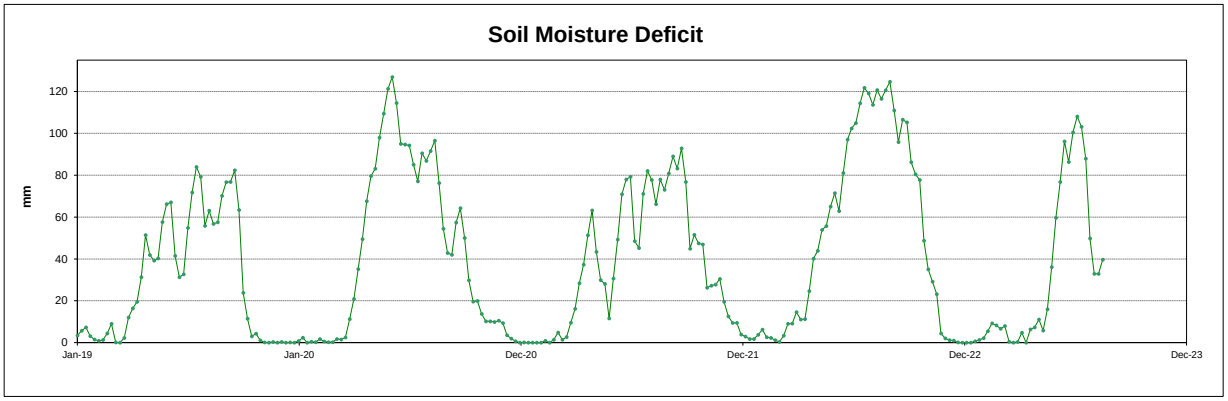
MORECS DATA

21 August 2023







This page will normally be updated monthly (approx mid month).
This data may be subject to change following routine validation checks.
Where showing a negative value, this is normal at certain sources, due to the imports of water into that source being greater than the volumes abstracted.
Annual licences run from April to March.

Units in Ml

				Run date	01-Aug-23
Serial No	**Source**	**Last calendar month Ml**	**Year to date Ml**	**Annual Limit**	**% of Annual Limit**
02/27/023/332	Ainderby Steeple Boreholes	116	480	1760	27%
03/28/083/010	Armthorpe Boreholes	199	862	3319	26%
03/28/083/012	Austerfield Boreholes	259	1213	11615	10%
02/27/022/020	Aysgarth & Newbiggin Springs	14	59	341	17%
02/27/012/035	Baitings, Ryburn & Blackhouse reservoirs	148	1465	20457	7%
02/27/023/032	Bellerby Borehole and springs near Bellerby	75	290	1250	23%
02/27/022/209	Birk Gill & River Burn	219	1177	6400	18%
02/27/012/254	Boothwood Reservoir & associated catchwaters	237	1093	20457	5%
02/27/10/112	Boshaw Whams Reservoir	0	0	55	0%
03/28/083/105	Boston Park Boreholes	197	767	3318	23%
02/27/024/305	Brayton Barff Boreholes	0	0	2250	0%
02/26/030/002	Bridlington	125	556	2500	22%
02/27/005/031	Broomhead Reservoir	741	3812	12410	31%
02/26/030/004	Burton Agnes	77	301	1000	30%
02/27/018/080	Carlton Hanger Lane Boreholes	199	779	3500	22%
02/27/018/079	Carlton Mill Lane Boreholes	167	624	3800	16%
02/27/019/009	Carr Bottom Reservoir, Burley Woodhead	6	39	409	9%
02/27/023/340	Catterick Boreholes	213	821	2920	28%
02/27/027/136	Cayton Carr Lane Boreholes	177	696	3928	18%
02/27/027/163	Cayton Station Road Borehole	49	163	2646	6%
02/27/019/137	Chelker Reservoir	182	521	5000	10%
02/27/023/031	Coalsgarth Springs	2	29	750	4%
02/27/011/064	Colne Valley Catchwaters	400	1055	5840	18%
02/26/032/126	Cottingham Well	616	2568	18184	14%
02/27/018/081	Cowick Boreholes	364	1445	5250	28%
02/27/023/046	Cranehow & Downholme Springs	0	0	318	0%
02/27/023/030	Crumma, Newsham & Gandale Springs	75	322	1364	24%
02/27/005/030	Dale Dyke & Agden Reservoirs	838	3785	12410	31%
02/27/012/261	Dean Head & Scammonden	197	520	3650	14%
02/27/19/121	Dib Spring, Hawkswick	0	0	27	0%
02/26/032/126	Dunswell Well	721	2664	16593	16%
NE/27/025/021	East Ness Boreholes	258	1120	5680	20%
02/26/031/087	Elmswell Wold Borehole	42	67	1273	5%
02/27/015/045	Embsay Reservoir			1846	0%
02/27/016/196	Esholt Sewage Treatment Works	0	0	88	0%
02/26/032/124	Etton Boreholes	151	660	5100	13%
03/28/083/012	Finningley Boreholes	288	1186	6780	17%
02/27/022/328	Fossdale (High Shaw) Springs	11	43	227	19%
02/27/018/120	Goosehouse Boreholes	332	1308	3500	37%
02/27/012/043	Gorpley Reservoir	0	0	1823	0%
02/27/016/022	Graincliffe Reservoir & Morton Springs	-90	180	2728	7%
02/27/012/037	Green Withens Ringstone Res & catchwater	397	1911	20457	9%
02/27/019/051	Greenhow Tunnel (Nidd Aqueduct) Dale Head Intake	0	0	214	0%
02/27/019/052	Greenhow Tunnel (Nidd Aqueduct) No.2 Access Shaft	0	0	6819	0%
NE/27/019/005	Grimwith Reservoir to Nidd Aqueduct	0	653	3650	18%
02/26/030/003	Haisthorpe Boreholes	393	1541	5000	31%
03/28/083/012	Hatfield Boreholes	205	710	3319	21%
03/28/083/100	Hatfield Woodhouse Boreholes	0	0	3320	0%
02/27/029/010	Hazel Head Springs	38	118	1162	10%
02/27/012/041	Hebden, Luddenden & Hebble Valley Resrs	1127	4118	15695	26%
02/27/018/077	Heck Boreholes	126	502	2489	20%
03/28/083/012	Highfield Lane Boreholes	414	1651	11615	14%
02/27/023/685	Hollin Hill Borehole	3	13	45	30%
02/27/010/063	Holmestyes & Digley Reservoirs	279	1490	5840	26%
02/27/22/024	Horsehouse Spring, leyburn	0	0	33	0%
02/27/027/002	Howe Hill Well	77	310	1014	31%
02/26/031/006	Hutton Cranswick	37	176	796	22%
02/27/005/012	Ingbirchworth Reservoir & Annat Royd Intake	35	583	3637	16%
02/27/005/202	Ingbirchworth South Borehole	4	17	132	13%
02/27/027/058	Irton	451	1800	8215	22%
02/27/21/015	John O'Gaunts and Beaverdyke Reservoirs	0	0	1909	0%
02/27/014/010	Keighley Moor Reservoir	39	199	6951	3%
02/27/025/128	Keld Head Boreholes	167	672	3319	20%
02/26/032/126	Keldgate Boreholes	147	539	5819	9%

02/26/031/002	Kilham	3	146	1818	8%
02/27/005/032	Langsett Reservoir	834	4291	17155	25%
02/27/022/210	Leighton Reservoir & Spruce Gill stream intake	423	2653	13184	20%
03/28/083/107	Littleworth Borehole	0	0	1659	0%
02/27/028/270	Loftsome Bridge ASR Borehole No.1	0	0	750	0%
02/27/014/009	Lower Laithe Reservoir	197	823	6951	12%
02/27/005/011	Midhope Reservoir & Knoll Brook Intake	212	1290	17155	8%
02/26/034/006	North Newbald	0	0	1137	0%
03/28/083/012	Nutwell Boreholes	246	1011	4983	20%
02/27/019/006	Panorama, Hilltop & Old Reservoirs & Springs	0	0	1000	0%
02/27/018/078	Pollington Boreholes	272	1068	5000	21%
02/27/014/058	Ponden Reservoir	50	228	6951	3%
02/27/016/023	Reva Reservoir, Hawkesworth	66	308	1364	23%
02/27/005/029	Rivelin and Redmires Reservoirs	187	859	8030	11%
02/27/028/017	River Derwent at Elvington	4731	15632	75000	21%
02/27/028/083	River Derwent at Loftsome Bridge	2654	9446	30400	31%
02/27/029/012	River Esk	296	1090	7823	14%
02/26/031/047	River Hull & West Beck	1606	5708	25000	23%
02/26/032/194	River Hull for Sewer Cleaning	0	0	91	0%
02/27/024/078	River Ouse at Acomb	864	3580	35000	10%
02/27/024/158	River Ouse at Moor Monkton	3209	11343	73000	16%
02/27/022/214	River Ure at Kilgram Bridge	639	1082	15000	7%
02/27/020/196	River Wharfe at Arthington	655	655	19009	3%
02/27/019/129	River Wharfe at Lobwood	2181	7572	23742	32%
03/28/083/012	Rossington Bridge Boreholes	0	0	5172	0%
02/27/022/027	Roundhill and Lumley Moor Reservoirs	0	1	3500	0%
02/27/005/013	Royd Moor Reservoir & Intakes	102	200	2955	7%
02/27/021/016	Scargill Reservoir	95	156	1932	8%
02/27/021/092	Scarhouse & Angram Resvrs with tunnel & catchwater	2220	11355	38164	30%
02/27/15/149	Silsden Beck, Stilling-Basin at foot of Silsden Reservoir Embankment	0	0	10	0%
02/26/032/126	Springhead Well	637	2501	13638	18%
02/27/022/021	Stalling Busk & Marsett Springs	0	0	33	0%
02/27/022/208	Stock Beck, Carlesmoor Beck & River Laver	0	628	3500	18%
02/27/023/684	Stubbing Nook Borehole	13	52	135	39%
03/28/083/012	Thornham Boreholes	284	1178	6213	19%
02/27/016/160	Thornton Moor & Stubden Reservoirs	96	735	6214	12%
02/27/012/038	Turvin Clough	300	314	4014	8%
02/27/019/054	Upper & Lower Barden Reservoirs	217	1540	14223	11%
02/27/020/088	Washburn Valley Reservoirs	2839	11306	43800	26%
02/27/015/041	Watersheddles Reservoir	158	538	6951	8%
02/27/016/021	Weecher Reservoir	16	84	909	9%
02/27/011/065	Wessenden Valley, Blackmoorfoot & Deerhill	544	2950	12410	24%
02/27/023/034	West Stonesdale (Garland Hill) Springs	0	0	282	0%
02/27/015/042	Whinney Gill & Jenny Gill Reservoirs	7	14	377	4%
02/27/005/026	Winscar, U & L Windleden, Harden & Snailsden	777	1695	10140	17%
02/27/012/036	Withens Clough Resr & Catchwater	177	637	3319	19%
02/27/010/011	Yateholme, Riding Wood, Ramsden & Brownhill	119	930	6820	14%

*Embsay Reservoir - awaiting flow data

Licences with Aggregated Annual Quantities	Last calendar month Ml	Year to date Ml	Annual Limit	% of Annual Limit
Baitings, Ryburn, Boothwood, Green Withens	782	4468	20457	22%
Langsett, Midhope	1047	5581	17155	33%
Worth Valley	444	1787	6951	26%
River Derwent (Elvington, Loftsome)	7385	25078	94841	26%
Cayton, Irton	677	2659	10700	25%
Selby Boreholes	1461	5726	25283	23%
Doncaster Wellfield	2093	8579	30295	28%
Doncaster Sub Group	1696	6949	26049	27%
Austerfield & Highfield Lane	673	2864	9956	29%
Hull Groundwater Sources	2120	8272	32850	25%

Third Party Agreements (Calendar Year) **Units in Ml** **Run date** **01-Aug-23**

Source	Last calendar month Ml	Year to date Ml	Annual Limit	% of Annual Limit
CRT, Hudds Narrow Canal	134	565	1273	44%
Severn Trent Ladybower Reservoir	1391	11829	21550	55%

Reading date: **03-Aug-23**

	Year to date Ml	Annual Limit	% of Annual Limit
Winscar To Langsett Transfer Usage	429	2482	17%