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# Annual Lockage Report 2015



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The monitoring of lock operations across the Canal & River Trust network remains an essential element in our water resources management but also to understand the changing patterns in use of the 2,000 miles of waterways in our care. This report marks the 15th year of publishing an Annual Lockage Report, and covers the period January to December 2015.

Lockage can be defined simply as lock usage through the filling and emptying of a lock chamber, which in turn allows the movement of water and passage of boats. It is important to distinguish lockage from boat movements, which are the actual number of boats which travel through a lock. We have separated boat movements from lockage to acknowledge that averages can be skewed by the boat:lockage ratio (in the case of a typical broad lock, the ratio can be between one and four boats per lockful of water used).

For this report, we have based the analysis of each Waterway on those sites with complete records for both 2014 and 2015 (known as the comparison sites). The number of comparison sites included in the 2015 report is 177, an increase of 2 compared with the previous report. In the Appendix we have included, for information only, sites where the data was of insufficient quality for 2014 and/or 2015 and therefore could not be used for year-to-year comparison.

Nationally, the number of recorded lock operations in 2015 decreased by 0.75% compared with 2014, (for those sites where data was available for both 2014 and 2015). An increase in lock usage was seen in the Kennet & Avon, South Wales & Severn Waterways, East Midlands and North West Waterways. The busiest site recorded in 2015 was Hillmorton Locks 2 & 3, on the Oxford Canal, which saw a total of 9,101 lockages in 2015 (there are paired locks at this location). New Marton Lock on the Llangollen Canal was the next busiest lock with 8,779 lockages recorded in the year.

The reasons for year to year variations from site to site and across the different Waterways are numerous and complex. In terms of weather, 2015 was broadly speaking an average year meaning that the main boating season was largely unaffected by drought or flood restrictions or closures. The heavy rainfall and floods in the final weeks of 2015 would have had some effect on lock usage, particularly in the north during those weeks but very little overall impact on the 2015 annual total, given that this time of year is typically very quiet in terms of the annual pattern.

The report contains the following: a summary table ranking the Waterways by average annual lock operations for 2015; a map showing average annual lockage by Waterway, a graph showing the estimated total annual lockage by Waterway (this is scaled from the recorded lockage using the total number of locks in each of the Waterways) and detailed reports of lockage and boat movements for each Waterway for the last three years, separated into the individual canals within the Waterway. For the first time, the report now includes the 2015 lockage data, ranked from the busiest lock to the least busy, to allow easy identification of where a particular lock sits nationally in terms of its usage.

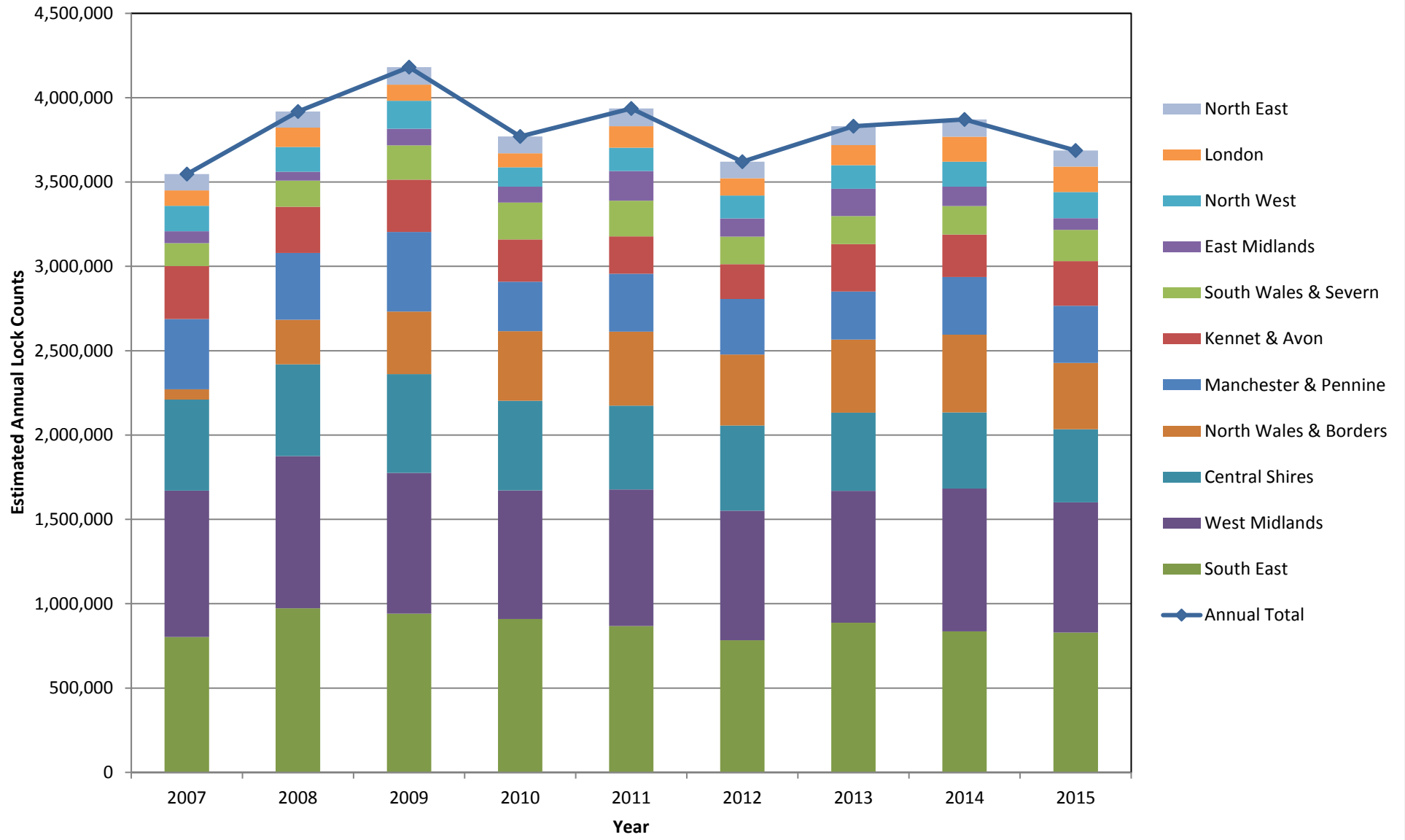
I trust you find this report informative. If you have any queries, or would like to see the data in a different format or for a particular purpose, please contact us via email at [water.information@canalrivertrust.org.uk](mailto:water.information@canalrivertrust.org.uk).



Dr Adam Comerford  
National Hydrology Manager, Water Management team

Ranking position compared to 2014	2015 Ranking	Waterway	2014 Waterway Average lock counts	2015 Waterway Average lock counts
=	1	Central Shires	4440	4289
=	2	South East	4042	4000
=	3	North Wales & Borders	3700	3569
=	4	West Midlands	2755	2747
=	5	Kennet & Avon	2250	2360
=	6	South Wales & Severn	1985	2086
=	7	London	1863	1869
=	8	Manchester & Pennine	1285	1285
=	9	North West	1175	1217
=	10	North East	1057	953
=	11	East Midlands	830	851

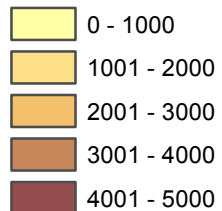
# Estimated Annual Lockage



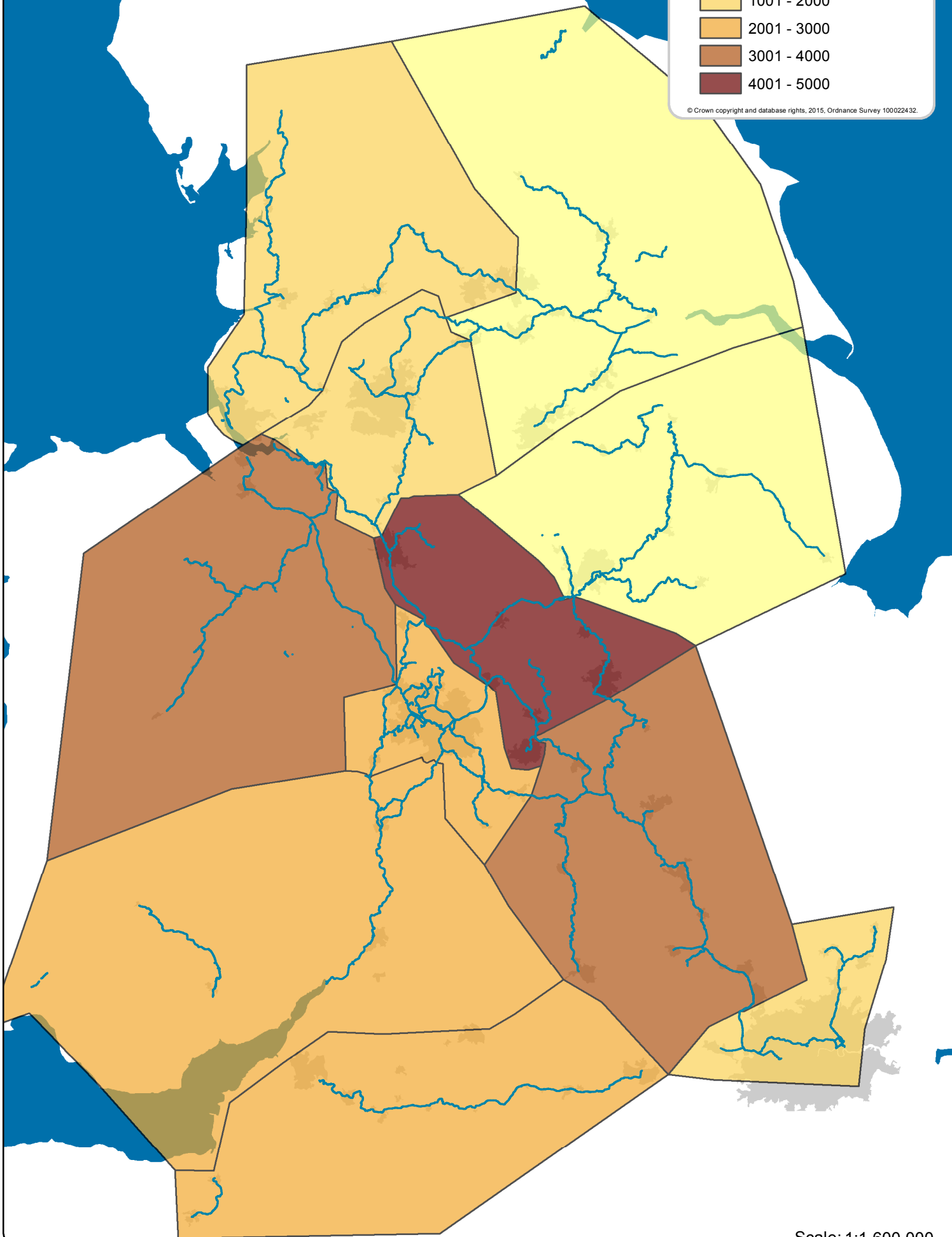


Canal &  
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### Average Annual Lockage 2015



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Scale: 1:1,600,000

# **Annual Lockage Report 2015**

## **Comparison Sites**

## Waterway: Central Shires

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change	
				2013	2014	2015		
<b>Canal: <u>Caldon</u></b>								
	Lock 1, Bedford Street	Telemetry	SJ 873468	2724	2715	2604	-111	-4%
	Lock 11, Hazelhurst Middle Lock	Telemetry	SJ 948538	2457	2646	2537	-109	-4%
	Lock 3, Planet Lock	Manual Reading	SJ 878464	2731	2553	2566	13	1%
	Lock 4, Engine Lock	Manual Reading	SJ 900514	2525	2606	2189	-417	-16%
	Lock 8, Road Lock	Telemetry	SJ 916519	2069	2259	2298	39	2%
<b>Summary stats for Caldon</b>			<b>Avg:</b>	<b>2501</b>	<b>2556</b>	<b>2439</b>	<b>-117</b>	<b>-5%</b>
<b>Canal: <u>Coventry &amp; Ashby</u></b>								
	Lock 1, Atherstone Top Lock	Telemetry	SP 303976	5258	5151	5238	87	2%
	Lock 12, Glascote Top Lock	Telemetry	SK 216033	6404	5890	5576	-314	-5%
<b>Summary stats for Coventry &amp; Ashby</b>			<b>Avg:</b>	<b>5831</b>	<b>5521</b>	<b>5407</b>	<b>-114</b>	<b>-2%</b>
<b>Canal: <u>Grand Union</u></b>								
	Lock 38, Kings Lock	Telemetry	SK 567007	1299	1215	1178	-37	-3%
<b>Summary stats for Grand Union</b>			<b>Avg:</b>	<b>1299</b>	<b>1215</b>	<b>1178</b>	<b>-37</b>	<b>-3%</b>

Canal:	<u>Trent &amp; Mersey</u>			<u>Annual Lockage Totals</u>			Annual Change	
	Site	Type	NGR	2013	2014	2015		
	Lock 11, Wychnor Lock	Telemetry	SK 185161	7258	7184	6606	-578	<b>-8%</b>
	Lock 20, Woodend Lock	Telemetry	SK 127135	7661	7068	7009	-59	<b>-1%</b>
	Lock 21, Colwich Lock	Telemetry	SK 008212	8186	8239	8348	109	<b>1%</b>
	Lock 27, Star Lock	Telemetry	SJ 902336	5965	5943	5852	-91	<b>-2%</b>
	Lock 35, Trentham Lock	Telemetry	SJ 884398	4835	5042	4859	-183	<b>-4%</b>
	Lock 37, Cockshutes Lock	Telemetry	SJ 874461	4652	4657	4330	-327	<b>-7%</b>
	Lock 6, Stenson Lock	Telemetry	SK 325299	3380	3427	3148	-279	<b>-8%</b>
<b>Summary stats for Trent &amp; Mersey</b>			<b>Avg:</b>	<b>5991</b>	<b>5937</b>	<b>5736</b>	<b>-201</b>	<b>-3%</b>
<b>Summary stats for Central Shires</b>			<b>Avg:</b>	<b>4494</b>	<b>4440</b>	<b>4289</b>	<b>-150</b>	<b>-3%</b>



## Waterway: East Midlands

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change		
				2013	2014	2015			
<b>Beeston Canal</b>									
	Lock 6, Castle Lock	Telemetry	SK 570393	3041	2996	3046	50	2%	
<b>Summary stats for Beeston Canal</b>				<b>Avg:</b>	<b>3041</b>	<b>2996</b>	<b>3046</b>	<b>50</b>	<b>2%</b>
Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change		
				2013	2014	2015			
<b>Chesterfield</b>									
	Lock 34, Turner Wood	Telemetry	SK 542813	279	255	236	-19	-7%	
	Lock 51, Worksop Bracebridge Lock	Telemetry	SK 595791	408	462	439	-23	-5%	
	Lock 56, Forest Middle Lock	Telemetry	SK 668830	625	699	618	-81	-12%	
	Lock 61, Gringley Lock	Telemetry	SK 728916	251	253	488	235	93%	
<b>Summary stats for Chesterfield</b>				<b>Avg:</b>	<b>391</b>	<b>417</b>	<b>445</b>	<b>28</b>	<b>7%</b>
Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change		
				2013	2014	2015			
<b>Erewash</b>									
	Lock 61, Long Eaton	Telemetry	SK 488335	715	738	756	18	2%	
	Lock 73, Eastwood Lock	Telemetry	SK 460458		407	376	-31	-8%	
<b>Summary stats for Erewash</b>				<b>Avg:</b>	<b>715</b>	<b>573</b>	<b>566</b>	<b>-7</b>	<b>-1%</b>
<b>Summary stats for East Midlands</b>				<b>Avg:</b>	<b>887</b>	<b>830</b>	<b>851</b>	<b>21</b>	<b>3%</b>

## Waterway: Kennet & Avon

Canal:	Kennet & Avon	Site	Type	NGR	Annual Lockage Totals			Annual Change	
					2013	2014	2015		
		Lock 105, Fobney Lock	Telemetry	SU 705710	1783	1456	1555	99	7%
		Lock 13, Bath Lock	Telemetry	ST 758646	2397	2577	2676	99	4%
		Lock 15, Semington Lock	Telemetry	ST 901609	3432	3761	3841	80	2%
		Lock 21, Seend Lock	Telemetry	ST 933613	3231	3468	3518	50	1%
		Lock 49, Maton Lock	Telemetry	ST 995617	1685	1845	1861	16	1%
		Lock 51, Wootton Rivers	Telemetry	SU 199629	1887	1998	2269	271	14%
		Lock 60, Crofton Lock	Telemetry	SU 248622	1928	1932	1990	58	3%
		Lock 71, Picketsfield Lock	Telemetry	SU 316680	1763	1790	1819	29	2%
		Lock 76, Wire Lock	Telemetry	SU 362681	1811	1994	1994	0	0%
		Lock 78, Kintbury Lock	Telemetry	SU 385671	2058	2068	2190	122	6%
		Lock 85, Newbury Lock	Telemetry	SU 470671	2376	2282	2451	169	7%
		Lock 96, Padworth Middle Lock	Telemetry	SU 606671	1904	1834	2150	316	17%
<b>Summary stats for Kennet &amp; Avon</b>				<b>Avg:</b>	<b>2188</b>	<b>2250</b>	<b>2360</b>	<b>109</b>	<b>5%</b>
<b>Summary stats for Kennet &amp; Avon</b>				<b>Avg:</b>	<b>2188</b>	<b>2250</b>	<b>2360</b>	<b>109</b>	<b>5%</b>

## Waterway: London

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change	
				2013	2014	2015		
<b>Grand Union</b>								
	Lock 90, Hanwell flight (Norwood)	Telemetry	TQ 136793	1443	1272	1037	-235	-18%
<b>Summary stats for Grand Union</b>			<b>Avg:</b>	<b>1443</b>	<b>1272</b>	<b>1037</b>	<b>-235</b>	<b>-18%</b>
Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change	
				2013	2014	2015		
<b>Lee &amp; Stort Navigation</b>								
	Lock 3, Roydon Lock	Telemetry	TL 410104	1824	2145	1935	-210	-10%
	Lock 4, Stanstead Lock	Telemetry	TL 380121	1980	1942	2141	199	10%
<b>Summary stats for Lee &amp; Stort Navigation</b>			<b>Avg:</b>	<b>1902</b>	<b>2044</b>	<b>2038</b>	<b>-6</b>	<b>0%</b>
Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change	
				2013	2014	2015		
<b>Regents</b>								
	Lock 12, Commercial Road	Telemetry	TQ 363811	1213	902	994	92	10%
	Lock 2, Hawley	Telemetry	TQ 287841	2452	3052	3240	188	6%
<b>Summary stats for Regents</b>			<b>Avg:</b>	<b>1833</b>	<b>1977</b>	<b>2117</b>	<b>140</b>	<b>7%</b>
<b>Summary stats for London</b>			<b>Avg:</b>	<b>1782</b>	<b>1863</b>	<b>1869</b>	<b>7</b>	<b>0%</b>

## Waterway: Manchester & Pennine

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change	
				2013	2014	2015		
	<b>Ashton</b>							
	Lock 17, Droylsden Lock	Telemetry	SJ 898978	1161	929	959	30	3%
	Lock 2, Ancoats	Telemetry	SJ 854982	875	849	761	-88	-10%

### Summary stats for Ashton

Avg: 1018 889 860 -29 -3%

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change	
				2013	2014	2015		
	<b>Huddersfield Narrow</b>							
	Lock 12W, HNC	Telemetry	SD 975012	410	454	430	-24	-5%
	Lock 16E, Westwood Lock	Telemetry	SE 098149	349	428	505	77	18%
	Lock 1E, Stanley Dawson Lock	Telemetry	SE 148162	377	400	311	-89	-22%
	Lock 22W, Upper Mill	Telemetry	SD 996058	625	676	574	-102	-15%
	Lock 28E, HNC	Telemetry	SE 065131	355	322	312	-10	-3%
	Lock 30W, Shaw Mill	Telemetry	SE 001069	367	411	432	21	5%
	Lock 3W, Ashton Lock	Telemetry	SJ 948985	503	511	498	-13	-3%
	Lock 41E, Marsden Lock	Telemetry	SE 048118	335	368	319	-49	-13%

### Summary stats for Huddersfield Narrow

Avg: 415 446 423 -24 -5%

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change	
				2013	2014	2015		
	<b>Macclesfield</b>							
	Lock 1, Bosley Top Lock	Telemetry	SJ 904666	3102	3130	3242	112	4%

### Summary stats for Macclesfield

Avg: 3102 3130 3242 112 4%

Canal:	<u>Rochdale</u>			<u>Annual Lockage Totals</u>				
	Site	Type	NGR	2013	2014	2015	Annual Change	
	Lock 1, Albert Wood	Telemetry	SE 064236	806	1017	991	-26	<b>-3%</b>
	Lock 17, Rochdale, Old Royd Lock	Telemetry	SD 948242	576	654	716	62	<b>9%</b>
	Lock 48, Lower Littleborough	Telemetry	SD 940163	281	374	364	-10	<b>-3%</b>
	Lock 49, Rochdale	Telemetry	SD 905124	233	264	223	-41	<b>-16%</b>
	Lock 5, Edward Kilner	Telemetry	SE 030257	1063	1322	1384	62	<b>5%</b>
	Lock 65, Alfred Street	Telemetry	SD 896017	259	309	225	-84	<b>-27%</b>

**Summary stats for Rochdale** Avg: **536** **657** **651** **-6** **-1%**

Canal:	<u>Trent &amp; Mersey</u>			<u>Annual Lockage Totals</u>				
	Site	Type	NGR	2013	2014	2015	Annual Change	
	Lock 42, Limekiln Locks	Telemetry	SJ 830548	3237	3565	3666	101	<b>3%</b>
	Lock 71, Kings Lock	Telemetry	SJ 706656	4488	4938	5038	100	<b>2%</b>
	Lock 75, Big Lock	Telemetry	SJ 701669	3953	4785	4751	-34	<b>-1%</b>

**Summary stats for Trent & Mersey** Avg: **3893** **4429** **4485** **56** **1%**

**Summary stats for Manchester & Pennine** Avg: **1168** **1285** **1285** **0** **0%**

## Waterway: North East

<b>Canal:</b>		<b><u>Aire &amp; Calder Navigation</u></b>		<b><u>Annual Lockage Totals</u></b>				
<b>Site</b>	<b>Type</b>	<b>NGR</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>Annual Change</b>		
Lock 10, Bulholme Lock	Telemetry	SD 433267		1676	1021	-655	<b>-39%</b>	
Lock 13, Pollington Lock	Telemetry	SE 615192	2062	1904	1980	76	<b>4%</b>	
<b>Summary stats for Aire &amp; Calder Navigation</b>			<b>Avg:</b>	<b>2062</b>	<b>1790</b>	<b>1501</b>	<b>-290</b>	<b>-16%</b>
<b>Canal:</b>		<b><u>Calder &amp; Hebble Navigation</u></b>		<b><u>Annual Lockage Totals</u></b>				
<b>Site</b>	<b>Type</b>	<b>NGR</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>Annual Change</b>		
Lock 5, Woodside Mills	Telemetry	SE 101213	768	902	892	-10	<b>-1%</b>	
<b>Summary stats for Calder &amp; Hebble Navigation</b>			<b>Avg:</b>	<b>768</b>	<b>902</b>	<b>892</b>	<b>-10</b>	<b>-1%</b>
<b>Canal:</b>		<b><u>Huddersfield Broad</u></b>		<b><u>Annual Lockage Totals</u></b>				
<b>Site</b>	<b>Type</b>	<b>NGR</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>Annual Change</b>		
Lock 2, Huddersfield Broad Canal	Telemetry	SE 176202	487	478	464	-14	<b>-3%</b>	
<b>Summary stats for Huddersfield Broad</b>			<b>Avg:</b>	<b>487</b>	<b>478</b>	<b>464</b>	<b>-14</b>	<b>-3%</b>
<b>Canal:</b>		<b><u>Pocklington</u></b>		<b><u>Annual Lockage Totals</u></b>				
<b>Site</b>	<b>Type</b>	<b>NGR</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>Annual Change</b>		
Lock 8, Gardham Lock	Telemetry	SE 729453	77	155	195	40	<b>26%</b>	
<b>Summary stats for Pocklington</b>			<b>Avg:</b>	<b>77</b>	<b>155</b>	<b>195</b>	<b>40</b>	<b>26%</b>
<b>Canal:</b>		<b><u>Ripon</u></b>		<b><u>Annual Lockage Totals</u></b>				
<b>Site</b>	<b>Type</b>	<b>NGR</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>Annual Change</b>		
Lock 3, Oxclose Lock	Telemetry	SE 332679	1329	1353	1434	81	<b>6%</b>	
<b>Summary stats for Ripon</b>			<b>Avg:</b>	<b>1329</b>	<b>1353</b>	<b>1434</b>	<b>81</b>	<b>6%</b>

Canal:	<u>Sheffield &amp; South Yorkshire Navigation</u>			<u>Annual Lockage Totals</u>			Annual Change
	Site	Type	NGR	2013	2014	2015	
	Doncaster Lock	Telemetry	SE 570035		1045	1003	-42 <b>-4%</b>
	Eastwood (Sir Frank Price) lock	Telemetry	SK 440942		576	455	-121 <b>-21%</b>
	Long Sandall Lock	Manual Reading	SE 602066	2087	2062	1575	-487 <b>-24%</b>
	Mexborough Top Lock	Telemetry	SK 481996		857	731	-126 <b>-15%</b>
	Sprotborough Lock	Telemetry	SE 539016		923	1073	150 <b>16%</b>
	Swinton (Waddington) Lock	Telemetry	SK 463989		749	617	-132 <b>-18%</b>
<b>Summary stats for Sheffield &amp; South Yorkshire Navigation</b>			<b>Avg:</b>	<b>2087</b>	<b>1035</b>	<b>909</b>	<b>-126 -12%</b>
<b>Summary stats for North East</b>			<b>Avg:</b>	<b>1135</b>	<b>1057</b>	<b>953</b>	<b>-103 -10%</b>

## Waterway: North Wales & Borders

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change		
				2013	2014	2015			
<b>Llangollen</b>									
	Lock 1, Hurleston	Telemetry	SJ 625553	6642	6645	6432	-213	-3%	
	Lock 2, New Marton Lock	Telemetry	SJ 331343	8255	8346	8779	433	5%	
	Marbury Lock	Telemetry	SJ 561464	6034	6102	6169	67	1%	
<b>Summary stats for Llangollen</b>				<b>Avg:</b>	<b>6977</b>	<b>7031</b>	<b>7127</b>	<b>96</b>	<b>1%</b>

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change		
				2013	2014	2015			
<b>Montgomery</b>									
	Lock 1, Belan Locks	Telemetry	SJ 217054	32	46	103	57	124%	
	Lock 3, Aston Lock	Telemetry	SJ 335264	1256	1375	735	-640	-47%	
	Lock 4, Frankton Locks	Telemetry	SJ 369316	1281	1321	1060	-261	-20%	
	Pool Quay Lock	Telemetry	SJ 256115	93	116	262	146	126%	
<b>Summary stats for Montgomery</b>				<b>Avg:</b>	<b>666</b>	<b>715</b>	<b>540</b>	<b>-175</b>	<b>-24%</b>



Canal:	Shropshire Union	Site	Type	NGR	Annual Lockage Totals			Annual Change	
					2013	2014	2015		
		Lock 1, Graving Lock	Telemetry	SJ 399667	55	103	98	-5	-5%
		Lock 1, Wardle Lock	Telemetry	SJ 705657	6393	7597	7282	-315	-4%
		Lock 3, Audlem Lock	Telemetry	SJ 658420	4451	4808	4688	-120	-2%
		Lock 4, Cholmondeston Lock	Telemetry	SJ 633575	7662	8424	7850	-574	-7%
		Lock 7, Tarvin Lock	Telemetry	SJ 427665	1900	2267	2126	-141	-6%
		Top Narrow Lock, Ellesmere Port	Telemetry	SJ 405771		585	425	-160	-27%
		Top Wide Lock, Ellesmere Port	Telemetry	SJ 405771		21	30	9	43%
		Tyrley Lock	Manual Reading	SJ 689328	5060	5212	4986	-226	-4%
		Wheaton Aston Lock	Telemetry	SJ 858126	6021	6236	6079	-157	-3%
<b>Summary stats for Shropshire Union</b>				<b>Avg:</b>	<b>4506</b>	<b>3917</b>	<b>3729</b>	<b>-188</b>	<b>-5%</b>
<b>Summary stats for North Wales &amp; Borders</b>				<b>Avg:</b>	<b>3938</b>	<b>3700</b>	<b>3569</b>	<b>-131</b>	<b>-4%</b>

**Waterway: North West**

<b>Canal:</b>	<b>Lancaster</b>	<b>Site</b>	<b>Type</b>	<b>NGR</b>	<b>Annual Lockage Totals</b>			<b>Annual Change</b>	
					<b>2013</b>	<b>2014</b>	<b>2015</b>		
		Lock 1, Lodgehill	Telemetry	SD 481545	459	392	416	24	6%
		Lock 2, Ribble Lock	Telemetry	SD 509311	291	256	237	-19	-7%
		Lock 7, Glasson Basin Lock	Manual Reading	SD 445561	179	240	188	-52	-22%
<b>Summary stats for Lancaster</b>				<b>Avg:</b>	<b>310</b>	<b>296</b>	<b>280</b>	<b>-16</b>	<b>-5%</b>

Canal:	<u>Leeds &amp; Liverpool</u>			<u>Annual Lockage Totals</u>				
	Site	Type	NGR	2013	2014	2015	Annual Change	
	Inside Track, Deep Lock (Appley)	Telemetry	SD 517096	1574	1619	1666	47	3%
	Lock 1, Top Lock Leigh Branch	Telemetry	SD 578044	1550	1730	1688	-42	-2%
	Lock 29, Bingley 5 Rise Top Lock	Telemetry	SE 107399	1343	1371	1432	61	4%
	Lock 3, Runnel Brow Lock	Telemetry	SD 453118	852	829	730	-99	-12%
	Lock 30, Holme Bridge Lock	Telemetry	SD 943544	2219	2187	2308	121	6%
	Lock 35, Stegneck Lock	Telemetry	SD 918539	2234	2250	2355	105	5%
	Lock 36, Bank Newton Lock	Telemetry	SD 911529	1788	1817	2077	260	14%
	Lock 44, Greenberfield Top Lock	Telemetry	SD 889484	1787	1772	1913	141	8%
	Lock 45, Barrowford Lock	Telemetry	SD 868403	1036	1282	1340	58	5%
	Lock 51, Barrowford Bottom Lock	Telemetry	SD 868403	919	1165	1149	-16	-1%
	Lock 55, Blackburn Lock	Telemetry	SD 680269	534	781	873	92	12%
	Lock 58, Johnsons Hillock	Telemetry	SD 596213	1168	1086	1150	64	6%
	Lock 6, Spring Garden Lock	Telemetry	SE 284337	768	874	996	122	14%
	Lock 67, Wigan Lock	Telemetry	SD 606065	661	832	802	-30	-4%
	Stanley Lock	Manual Reading	SJ 342921	493	663	590	-73	-11%
<b>Summary stats for Leeds &amp; Liverpool</b>			<b>Avg:</b>	<b>1262</b>	<b>1351</b>	<b>1405</b>	<b>54</b>	<b>4%</b>
<b>Summary stats for North West</b>			<b>Avg:</b>	<b>1103</b>	<b>1175</b>	<b>1217</b>	<b>42</b>	<b>4%</b>

## Waterway: South East

Canal:	Grand Union	Site	Type	NGR	Annual Lockage Totals			Annual Change	
					2013	2014	2015		
		Lock 1, Aylesbury Lock	Telemetry	SP 917143	144	986	1091	105	11%
		Lock 1, Calcutt Lock	Telemetry	SP 468633	4593	4546	5060	514	11%
		Lock 1, Watford Lock	Telemetry	SP 593689	4998	4984	4925	-59	-1%
		Lock 1, Welford Lock	Telemetry	SP 639813	3993	4139	4108	-31	-1%
		Lock 14, Northampton Lock	Telemetry	SP 724581	932	943	1140	197	21%
		Lock 18, Kibworth Lock	Telemetry	SP 657944	1721	1573	1454	-119	-8%
		Lock 21, Cosgrove Lock	Telemetry	SP 795422	4428	4711	4727	16	0%
		Lock 23, Radford Lock	Telemetry	SP 352649	3386	3203	3008	-195	-6%
		Lock 37, GU (Stalkies) lock	Telemetry	SP 924153	3281	3375	2657	-718	-21%
		Lock 40, GU (Marsworth) Lock	Telemetry	SP 922193	2706	2595	2378	-217	-8%
		Lock 46, Cowroast Lock	Telemetry	SP 958103	2666	2545	2221	-324	-13%
		Lock 6, Braunston Lock	Telemetry	SP 553657	5337	5403	5366	-37	-1%
		Lock 7, Buckby Top Lock	Telemetry	SP 605656	4481	4232	4170	-62	-1%
		Lock 81, Batchworth Lock	Telemetry	TQ 062940	2694	2220	2214	-6	0%
		Lock 9, Foxton Lock	Telemetry	SP 691894	4147	4131	4006	-125	-3%
		Pumping Station 2, Stockton	Telemetry	SP 426647	3169	3037	2979	-58	-2%
<b>Summary stats for Grand Union</b>				<b>Avg:</b>	<b>3292</b>	<b>3289</b>	<b>3219</b>	<b>-70</b>	<b>-2%</b>

Canal:	Oxford Canal	Site	Type	NGR	Annual Lockage Totals			Annual Change	
					2013	2014	2015		
		Hillmorton Locks 2 and 3 combined	Telemetry	SP 537745	10068	10781	9101	-1680	-16%
		Lock 15, Marston Doles Lock	Telemetry	SP 464582	6586	6215	6788	573	9%
		Lock 21, Claydon Lock	Telemetry	SP 463505	5663	5620	5968	348	6%
		Lock 32, Nell Bridge Lock	Telemetry	SP 494343	4419	4516	4682	166	4%
		Lock 40, Bakers Lock	Telemetry	SP 479178	4679	4718	4879	161	3%
		Lock 42, Roundham Lock	Telemetry	SP 483140	4175	4155	4381	226	5%
		Lock 44, Dukes Lock	Telemetry	SP 488107	4128	4309	4215	-94	-2%
		Lock 44A, Dukes Cut Lock	Telemetry	SP 488106	2398	1985	2054	69	3%
		Lock 8, Napton Bottom Lock	Telemetry	SP 458592	6620	6118	6436	318	5%
<b>Summary stats for Oxford Canal</b>				<b>Avg:</b>	<b>5415</b>	<b>5380</b>	<b>5389</b>	<b>10</b>	<b>0%</b>
<b>Summary stats for South East</b>				<b>Avg:</b>	<b>4056</b>	<b>4042</b>	<b>4000</b>	<b>-41</b>	<b>-1%</b>

## Waterway: South Wales & Severn

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change	
				2013	2014	2015		
<b><u>Droitwich Canal</u></b>								
	Lock 7, River Lock	Telemetry	SO 906633	1451	1476	1448	-28	-2%
<b>Summary stats for Droitwich Canal</b>				<b>Avg:</b>	<b>1451</b>	<b>1476</b>	<b>1448</b>	<b>-28</b> <b>-2%</b>
Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change	
				2013	2014	2015		
<b><u>Gloucester &amp; Sharpness</u></b>								
	Lock 2, Gloucester Lock	Manual Reading	SO 827184	1878	2044	2287	243	12%
	Sharpness Lock	Manual Reading	SO 670022	373	308	313	5	2%
<b>Summary stats for Gloucester &amp; Sharpness</b>				<b>Avg:</b>	<b>1126</b>	<b>1176</b>	<b>1300</b>	<b>124</b> <b>11%</b>
Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change	
				2013	2014	2015		
<b><u>Monmouthshire &amp; Brecon</u></b>								
	Lock 65, Coombes Lock	Telemetry	SO 144197	2555	2635	2887	252	10%
	Lock 69, Brynich Lock	Telemetry	SO 077273	3085	3218	3295	77	2%
<b>Summary stats for Monmouthshire &amp; Brecon</b>				<b>Avg:</b>	<b>2820</b>	<b>2927</b>	<b>3091</b>	<b>165</b> <b>6%</b>
Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change	
				2013	2014	2015		
<b><u>Worcester &amp; Birmingham</u></b>								
	Lock 15, Offerton Lock	Telemetry	SO 895580	2112	2152	2314	162	8%
	Lock 2, Diglis	Telemetry	SO 849539	1953	1987	2042	55	3%
	Lock 23, Stoke Prior	Telemetry	SO 951670	2289	2258	2310	52	2%
	Lock 42, Tardebigge	Telemetry	SO 975682	1899	1788	1876	88	5%
<b>Summary stats for Worcester &amp; Birmingham</b>				<b>Avg:</b>	<b>2063</b>	<b>2046</b>	<b>2136</b>	<b>89</b> <b>4%</b>



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Summary stats for South Wales & Severn

Avg:

1955

1985

2086

101

5%

**Waterway: West Midlands**

Canal:	<u>Birmingham &amp; Fazeley</u>			<u>Annual Lockage Totals</u>			Annual Change
	Site	Type	NGR	2013	2014	2015	
	Lock 1, Top Lock Curdworth	Telemetry	SP 183937		1742	1886	144 8%
	Lock 3, Minworth	Telemetry	SP 152923	1716	1899	1881	-18 -1%

**Summary stats for Birmingham & Fazeley** Avg: **1716 1821 1884 63 3%**

Canal:	<u>Birmingham Canal Navigations</u>			<u>Annual Lockage Totals</u>			Annual Change
	Site	Type	NGR	2013	2014	2015	
	Lock 17, Wolverhampton Lock	Telemetry	SO 918993	1350	1803	1891	88 5%
	Lock 2, Farmers Bridge	Telemetry	SP 062870	1457	1558	1712	154 10%

**Summary stats for Birmingham Canal Navigations** Avg: **1404 1681 1802 121 7%**

Canal:	<u>Grand Union</u>			<u>Annual Lockage Totals</u>			Annual Change
	Site	Type	NGR	2013	2014	2015	
	Lock 3, Camp Hill	Telemetry	SP 085859	1279	1327	1301	-26 -2%
	Lock 46, Hatton Top Lock	Telemetry	SP 239669	2123	2623	2647	24 1%

**Summary stats for Grand Union** Avg: **1701 1975 1974 -1 0%**



Canal:	<u>Staffordshire &amp; Worcestershire</u>			<u>Annual Lockage Totals</u>				
	Site	Type	NGR	2013	2014	2015	Annual Change	
	Lock 28, Dimmingsdale Lock	Telemetry	SO 858959	3261	3032	2737	-295	-10%
	Lock 31, Compton Lock	Telemetry	SO 884989	4229	3791	3715	-76	-2%
	Lock 33, Brick Kiln Lock	Telemetry	SJ 922107	5275	5472	5140	-332	-6%
	Lock 43, Tixall Lock	Telemetry	SJ 978219	6289	6587	6089	-498	-8%
	York Street Lock	Telemetry	SO 812712	3508	3585	3919	334	9%

**Summary stats for Staffordshire & Worcestershire** Avg: **4512** **4493** **4320** **-173** **-4%**

Canal:	<u>Stourbridge</u>			<u>Annual Lockage Totals</u>				
	Site	Type	NGR	2013	2014	2015	Annual Change	
	Blowers Green Lock	Telemetry	SO 934887	1359	1084	1197	113	10%
	Lock 4, Stourton Bottom Lock	Telemetry	SO 862851		1410	1528	118	8%

**Summary stats for Stourbridge** Avg: **1359** **1247** **1363** **116** **9%**

Canal:	<u>Stratford</u>			<u>Annual Lockage Totals</u>				
	Site	Type	NGR	2013	2014	2015	Annual Change	
	Lock 19, Lapworth Lock	Telemetry	SP 186705	2536	2462	2470	8	0%
	Lock 2, Lapworth	Telemetry	SP 165716	2802	2738	2772	34	1%
	Lock 38, Preston Bagot Lock	Telemetry	SP 175654	2752	2696	2706	10	0%
	Lock 40, Wilmcote Top Lock	Telemetry	SP 171575	2619	2647	2635	-12	0%
	Lock 53, Maidenhead Road	Telemetry	SP 201553	2698	2457	2420	-37	-2%
	Lock 56, River Lock	Telemetry	SP 204548	2250	3441	3544	103	3%

**Summary stats for Stratford** Avg: **2610** **2740** **2758** **18** **1%**



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Summary stats for West Midlands

Avg: 2794 2755 2747 -9 0%

# **Annual Lockage Report 2015**

## **Lockage Ranking**

## Annual Lockage Report 2015 lockage ranking

Lock	Canal	Waterway	2015 lockage	2015 ranking
Hillmorton Locks 2 and 3 combined	Oxford Canal	South East	9101	1
Lock 2, New Marton Lock	Llangollen	North Wales & Borders	8779	2
Lock 21, Colwich Lock	Trent & Mersey	Central Shires	8348	3
Lock 4, Cholmondeston Lock	Shropshire Union	North Wales & Borders	7850	4
Lock 1, Wardle Lock	Shropshire Union	North Wales & Borders	7282	5
Lock 20, Woodend Lock	Trent & Mersey	Central Shires	7009	6
Lock 15, Marston Doles Lock	Oxford Canal	South East	6788	7
Lock 11, Wychnor Lock	Trent & Mersey	Central Shires	6606	8
Lock 8, Napton Bottom Lock	Oxford Canal	South East	6436	9
Lock 1, Hurleston	Llangollen	North Wales & Borders	6432	10
Marbury Lock	Llangollen	North Wales & Borders	6169	11
Lock 43, Tixall Lock	Staffordshire & Worcestershire	West Midlands	6089	12
Wheaton Aston Lock	Shropshire Union	North Wales & Borders	6079	13
Lock 21, Claydon Lock	Oxford Canal	South East	5968	14
Lock 27, Star Lock	Trent & Mersey	Central Shires	5852	15
Lock 12, Glascote Top Lock	Coventry & Ashby	Central Shires	5576	16
Lock 6, Braunston Lock	Grand Union	South East	5366	17
Lock 1, Atherstone Top Lock	Coventry & Ashby	Central Shires	5238	18
Lock 33, Brick Kiln Lock	Staffordshire & Worcestershire	West Midlands	5140	19
Lock 1, Calcutt Lock	Grand Union	South East	5060	20
Lock 71, Kings Lock	Trent & Mersey	Manchester & Pennine	5038	21
Tyrley Lock	Shropshire Union	North Wales & Borders	4986	22
Lock 1, Watford Lock	Grand Union	South East	4925	23
Lock 40, Bakers Lock	Oxford Canal	South East	4879	24
Lock 35, Trentham Lock	Trent & Mersey	Central Shires	4859	25
Lock 75, Big Lock	Trent & Mersey	Manchester & Pennine	4751	26
Lock 21, Cosgrove Lock	Grand Union	South East	4727	27
Lock 3, Audlem Lock	Shropshire Union	North Wales & Borders	4688	28
Lock 32, Nell Bridge Lock	Oxford Canal	South East	4682	29
Lock 42, Roundham Lock	Oxford Canal	South East	4381	30
Lock 37, Cockshutes Lock	Trent & Mersey	Central Shires	4330	31
Lock 44, Dukes Lock	Oxford Canal	South East	4215	32

<b>Lock</b>	<b>Canal</b>	<b>Waterway</b>	<b>2015 lockage</b>	<b>2015 ranking</b>
Lock 7, Buckby Top Lock	Grand Union	South East	4170	33
Lock 1, Welford Lock	Grand Union	South East	4108	34
Lock 9, Foxton Lock	Grand Union	South East	4006	35
York Street Lock	Staffordshire & Worcestershire	West Midlands	3919	36
Lock 15, Semington Lock	Kennet & Avon	Kennet & Avon	3841	37
Lock 31, Compton Lock	Staffordshire & Worcestershire	West Midlands	3715	38
Lock 42, Limekiln Locks	Trent & Mersey	Manchester & Pennine	3666	39
Lock 56, River Lock	Stratford	West Midlands	3544	40
Lock 21, Seend Lock	Kennet & Avon	Kennet & Avon	3518	41
Lock 69, Brynich Lock	Monmouthshire & Brecon	South Wales & Severn	3295	42
Lock 1, Bosley Top Lock	Macclesfield	Manchester & Pennine	3242	43
Lock 2, Hawley	Regents	London	3240	44
Lock 6, Stenson Lock	Trent & Mersey	Central Shires	3148	45
Lock 6, Castle Lock	Beeston Canal	East Midlands	3046	46
Lock 23, Radford Lock	Grand Union	South East	3008	47
Pumping Station 2, Stockton	Grand Union	South East	2979	48
Lock 65, Coombes Lock	Monmouthshire & Brecon	South Wales & Severn	2887	49
Lock 2, Lapworth	Stratford	West Midlands	2772	50
Lock 28, Dimmingsdale Lock	Staffordshire & Worcestershire	West Midlands	2737	51
Lock 38, Preston Bagot Lock	Stratford	West Midlands	2706	52
Lock 13, Bath Lock	Kennet & Avon	Kennet & Avon	2676	53
Lock 37, GU (Stalkies) lock	Grand Union	South East	2657	54
Lock 46, Hatton Top Lock	Grand Union	West Midlands	2647	55
Lock 40, Wilmcote Top Lock	Stratford	West Midlands	2635	56
Lock 1, Bedford Street	Caldon	Central Shires	2604	57
Lock 3, Planet Lock	Caldon	Central Shires	2566	58
Lock 11, Hazelhurst Middle Lock	Caldon	Central Shires	2537	59
Lock 19, Lapworth Lock	Stratford	West Midlands	2470	60
Lock 85, Newbury Lock	Kennet & Avon	Kennet & Avon	2451	61
Lock 53, Maidenhead Road	Stratford	West Midlands	2420	62
Lock 40, GU (Marsworth) Lock	Grand Union	South East	2378	63
Lock 35, Stegneck Lock	Leeds & Liverpool	North West	2355	64
Lock 15, Offerton Lock	Worcester & Birmingham	South Wales & Severn	2314	65

<b>Lock</b>	<b>Canal</b>	<b>Waterway</b>	<b>2015 lockage</b>	<b>2015 ranking</b>
Lock 23, Stoke Prior	Worcester & Birmingham	South Wales & Severn	2310	66
Lock 30, Holme Bridge Lock	Leeds & Liverpool	North West	2308	67
Lock 8, Road Lock	Caldon	Central Shires	2298	68
Lock 2, Gloucester Lock	Gloucester & Sharpness	South Wales & Severn	2287	69
Lock 51, Wootton Rivers	Kennet & Avon	Kennet & Avon	2269	70
Lock 46, Cowroast Lock	Grand Union	South East	2221	71
Lock 81, Batchworth Lock	Grand Union	South East	2214	72
Lock 78, Kintbury Lock	Kennet & Avon	Kennet & Avon	2190	73
Lock 4, Engine Lock	Caldon	Central Shires	2189	74
Lock 96, Padworth Middle Lock	Kennet & Avon	Kennet & Avon	2150	75
Lock 4, Stanstead Lock	Lee & Stort Navigation	London	2141	76
Lock 7, Tarvin Lock	Shropshire Union	North Wales & Borders	2126	77
Lock 36, Bank Newton Lock	Leeds & Liverpool	North West	2077	78
Lock 10, Waltham Common Lock	Lee & Stort Navigation	London	2077	79
Lock 44A, Dukes Cut Lock	Oxford Canal	South East	2054	80
Lock 2, Diglis	Worcester & Birmingham	South Wales & Severn	2042	81
Lock 76, Wire Lock	Kennet & Avon	Kennet & Avon	1994	82
Lock 60, Crofton Lock	Kennet & Avon	Kennet & Avon	1990	83
Lock 13, Pollington Lock	Aire & Calder Navigation	North East	1980	84
Lock 3, Roydon Lock	Lee & Stort Navigation	London	1935	85
Lock 44, Greenberfield Top Lock	Leeds & Liverpool	North West	1913	86
Lock 17, Wolverhampton Lock	Birmingham Canal Navigations	West Midlands	1891	87
Lock 1, Top Lock Curdworth	Birmingham & Fazeley	West Midlands	1886	88
Lock 3, Minworth	Birmingham & Fazeley	West Midlands	1881	89
Lock 42, Tardebigge	Worcester & Birmingham	South Wales & Severn	1876	90
Lock 49, Maton Lock	Kennet & Avon	Kennet & Avon	1861	91
Lock 71, Picketsfield Lock	Kennet & Avon	Kennet & Avon	1819	92
Lock 2, Farmers Bridge	Birmingham Canal Navigations	West Midlands	1712	93
Lock 1, Top Lock Leigh Branch	Leeds & Liverpool	North West	1688	94
Inside Track, Deep Lock (Appley)	Leeds & Liverpool	North West	1666	95
Long Sandall Lock	Sheffield & South Yorkshire Navigation	North East	1575	96
Lock 105, Fobney Lock	Kennet & Avon	Kennet & Avon	1555	97
Lock 4, Stourton Bottom Lock	Stourbridge	West Midlands	1528	98

<b>Lock</b>	<b>Canal</b>	<b>Waterway</b>	<b>2015 lockage</b>	<b>2015 ranking</b>
Lock 18, Kibworth Lock	Grand Union	South East	1454	99
Lock 7, River Lock	Droitwich Canal	South Wales & Severn	1448	100
Lock 3, Oxclose Lock	Ripon	North East	1434	101
Lock 29, Bingley 5 Rise Top Lock	Leeds & Liverpool	North West	1432	102
Lock 5, Edward Kilner	Rochdale	Manchester & Pennine	1384	103
Lock 45, Barrowford Lock	Leeds & Liverpool	North West	1340	104
Lock 3, Camp Hill	Grand Union	West Midlands	1301	105
Blowers Green Lock	Stourbridge	West Midlands	1197	106
Lock 38, Kings Lock	Grand Union	Central Shires	1178	107
Lock 58, Johnsons Hillock	Leeds & Liverpool	North West	1150	108
Lock 51, Barrowford Bottom Lock	Leeds & Liverpool	North West	1149	109
Lock 14, Northampton Lock	Grand Union	South East	1140	110
Lock 1, Aylesbury Lock	Grand Union	South East	1091	111
Sprotborough Lock	Sheffield & South Yorkshire Navigation	North East	1073	112
Lock 4, Frankton Locks	Montgomery	North Wales & Borders	1060	113
Lock 90, Hanwell flight (Norwood)	Grand Union	London	1037	114
Lock 10, Bulholme Lock	Aire & Calder Navigation	North East	1021	115
Doncaster Lock	Sheffield & South Yorkshire Navigation	North East	1003	116
Lock 6, Spring Garden Lock	Leeds & Liverpool	North West	996	117
Lock 12, Commercial Road	Regents	London	994	118
Lock 1, Albert Wood	Rochdale	Manchester & Pennine	991	119
Lock 17, Droylsden Lock	Ashton	Manchester & Pennine	959	120
Lock 5, Woodside Mills	Calder & Hebble Navigation	North East	892	121
Lock 55, Blackburn Lock	Leeds & Liverpool	North West	873	122
Lock 67, Wigan Lock	Leeds & Liverpool	North West	802	123
Lock 2, Ancoats	Ashton	Manchester & Pennine	761	124
Lock 61, Long Eaton	Erewash	East Midlands	756	125
Lock 3, Aston Lock	Montgomery	North Wales & Borders	735	126
Mexborough Top Lock	Sheffield & South Yorkshire Navigation	North East	731	127
Lock 3, Runnel Brow Lock	Leeds & Liverpool	North West	730	128
Lock 17, Rochdale, Old Royd Lock	Rochdale	Manchester & Pennine	716	129
Lock 56, Forest Middle Lock	Chesterfield	East Midlands	618	130
Swinton (Waddington) Lock	Sheffield & South Yorkshire Navigation	North East	617	131

<b>Lock</b>	<b>Canal</b>	<b>Waterway</b>	<b>2015 lockage</b>	<b>2015 ranking</b>
Stanley Lock	Leeds & Liverpool	North West	590	132
Lock 22W, Upper Mill	Huddersfield Narrow	Manchester & Pennine	574	133
Lock 16E, Westwood Lock	Huddersfield Narrow	Manchester & Pennine	505	134
Lock 3W, Ashton Lock	Huddersfield Narrow	Manchester & Pennine	498	135
Aldwarke Lock	Sheffield & South Yorkshire Navigation	North East	494	136
Lock 61, Gringley Lock	Chesterfield	East Midlands	488	137
Lock 2, Huddersfield Broad Canal	Huddersfield Broad	North East	464	138
Eastwood (Sir Frank Price) lock	Sheffield & South Yorkshire Navigation	North East	455	139
Lock 51, Worksop Bracebridge Lock	Chesterfield	East Midlands	439	140
Lock 30W, Shaw Mill	Huddersfield Narrow	Manchester & Pennine	432	141
Lock 12W, HNC	Huddersfield Narrow	Manchester & Pennine	430	142
Top Narrow Lock, Ellesmere Port	Shropshire Union	North Wales & Borders	425	143
Lock 1, Lodgehill	Lancaster	North West	416	144
Lock 73, Eastwood Lock	Erewash	East Midlands	376	145
Lock 48, Lower Littleborough	Rochdale	Manchester & Pennine	364	146
Lock 41E, Marsden Lock	Huddersfield Narrow	Manchester & Pennine	319	147
Sharpness Lock	Gloucester & Sharpness	South Wales & Severn	313	148
Lock 28E, HNC	Huddersfield Narrow	Manchester & Pennine	312	149
Lock 1E, Stanley Dawson Lock	Huddersfield Narrow	Manchester & Pennine	311	150
Lock 2, Rushall Lock	Birmingham Canal Navigations	West Midlands	301	151
Pool Quay Lock	Montgomery	North Wales & Borders	262	152
Lock 2, Ribble Lock	Lancaster	North West	237	153
Lock 34, Turner Wood	Chesterfield	East Midlands	236	154
Lock 65, Alfred Street	Rochdale	Manchester & Pennine	225	155
Lock 49, Rochdale	Rochdale	Manchester & Pennine	223	156
Lock 8, Gardham Lock	Pocklington	North East	195	157
Lock 7, Glasson Basin Lock	Lancaster	North West	188	158
Lock 1, Belan Locks	Montgomery	North Wales & Borders	103	159
Lock 1, Graving Lock	Shropshire Union	North Wales & Borders	98	160
Top Wide Lock, Ellesmere Port	Shropshire Union	North Wales & Borders	30	161



# **Boat Movement Report 2015**

## **Comparison Sites**

**Waterway: East Midlands**

<b>Canal:</b>	<b>Site</b>	<b>Type</b>	<b>NGR</b>	<b><u>Annual Boat Movement Totals</u></b>			<b>Annual Change</b>
				<b>2013</b>	<b>2014</b>	<b>2015</b>	
<b><u>Chesterfield</u></b>							
	Lock 65, Stockwith Lock	Manual Reading	SK 785946	754	857	745	-112 -13%
<b>Summary stats for Chesterfield</b>			<b>Avg:</b>	<b>754</b>	<b>857</b>	<b>745</b>	<b>-112 -13%</b>
<b>Canal:</b>	<b>Site</b>	<b>Type</b>	<b>NGR</b>	<b><u>Annual Boat Movement Totals</u></b>			<b>Annual Change</b>
				<b>2013</b>	<b>2014</b>	<b>2015</b>	
<b><u>Fosdyke &amp; Witham</u></b>							
	Lock 1, Torksey Lock	Manual Reading	SK 837780	1892	1972	1778	-194 -10%
<b>Summary stats for Fosdyke &amp; Witham</b>			<b>Avg:</b>	<b>1892</b>	<b>1972</b>	<b>1778</b>	<b>-194 -10%</b>
<b>Canal:</b>	<b>Site</b>	<b>Type</b>	<b>NGR</b>	<b><u>Annual Boat Movement Totals</u></b>			<b>Annual Change</b>
				<b>2013</b>	<b>2014</b>	<b>2015</b>	
<b><u>River Witham</u></b>							
	Boston Lock	Manual Reading	TF 323445	401	504	426	-78 -15%
<b>Summary stats for River Witham</b>			<b>Avg:</b>	<b>401</b>	<b>504</b>	<b>426</b>	<b>-78 -15%</b>

Canal:	Trent Navigation	Site	Type	NGR	Annual Boat Movement Totals			Annual Change	
					2013	2014	2015		
		Lock 10, Stoke Lock	Manual Reading	SK 649407	2671	2347	2649	302	13%
		Lock 11, Gunthorpe Lock	Manual Reading	SK 688437	3140	2935	3088	153	5%
		Lock 12, Hazleford Lock	Manual Reading	SK 732494	3248	3112	3219	107	3%
		Lock 13, Newark Town Lock	Manual Reading	SK 794538	3503	3389	3541	152	4%
		Lock 14, Newark Nether Lock	Manual Reading	SK 800554	2121	2167	2147	-20	-1%
		Lock 15, Cromwell Lock	Manual Reading	SK 808611	2210	2067	2037	-30	-1%
		Lock 8, Holme Lock	Manual Reading	SK 615393	2984	2504	2804	300	12%
<b>Summary stats for Trent Navigation</b>				<b>Avg:</b>	<b>2840</b>	<b>2646</b>	<b>2784</b>	<b>138</b>	<b>5%</b>
<b>Summary stats for East Midlands</b>				<b>Avg:</b>	<b>2292</b>	<b>2185</b>	<b>2243</b>	<b>58</b>	<b>3%</b>

**Waterway: Manchester & Pennine**

<b>Canal:</b>	<b>Site</b>	<b>Type</b>	<b>NGR</b>	<b>Annual Boat Movement Totals</b>			<b>Annual Change</b>	
				<b>2013</b>	<b>2014</b>	<b>2015</b>		
	<b>Rochdale</b>							
	Bridge 51, Ben Healey Bridge	Telemetry	SD 937161	392	441	401	-40	-9%
	Bridge 65A, Trub Farm Bridge	Telemetry	SD 883099	330	343	353	10	3%
	River Irk Aqueduct	Telemetry	SD 891063	298	242	197	-45	-19%
<b>Summary stats for Rochdale</b>			<b>Avg:</b>	<b>340</b>	<b>342</b>	<b>317</b>	<b>-25</b>	<b>-7%</b>
<b>Summary stats for Manchester &amp; Pennine</b>			<b>Avg:</b>	<b>340</b>	<b>342</b>	<b>317</b>	<b>-25</b>	<b>-7%</b>

**Waterway: North East**

<b>Canal:</b>	<u>River Ouse</u>	<b>Site</b>	<b>Type</b>	<b>NGR</b>	<u>Annual Boat Movement Totals</u>			<b>Annual Change</b>	
					<b>2013</b>	<b>2014</b>	<b>2015</b>		
		Naburn Lock	Manual Reading	SE 594445	905	943	941	-2	0%
<b>Summary stats for River Ouse</b>				<b>Avg:</b>	<b>905</b>	<b>943</b>	<b>941</b>	<b>-2</b>	<b>0%</b>
<b>Canal:</b>	<u>Selby</u>	<b>Site</b>	<b>Type</b>	<b>NGR</b>	<u>Annual Boat Movement Totals</u>			<b>Annual Change</b>	
					<b>2013</b>	<b>2014</b>	<b>2015</b>		
		Lock 1, Selby Lock	Manual Reading	SE 622322	688	764	730	-34	-4%
<b>Summary stats for Selby</b>				<b>Avg:</b>	<b>688</b>	<b>764</b>	<b>730</b>	<b>-34</b>	<b>-4%</b>
<b>Canal:</b>	<u>Stainforth &amp; Keadby</u>	<b>Site</b>	<b>Type</b>	<b>NGR</b>	<u>Annual Boat Movement Totals</u>			<b>Annual Change</b>	
					<b>2013</b>	<b>2014</b>	<b>2015</b>		
		Keadby Lock	Manual Reading	SE 834114	1791	1113	996	-117	-11%
<b>Summary stats for Stainforth &amp; Keadby</b>				<b>Avg:</b>	<b>1791</b>	<b>1113</b>	<b>996</b>	<b>-117</b>	<b>-11%</b>
<b>Summary stats for North East</b>				<b>Avg:</b>	<b>1128</b>	<b>940</b>	<b>889</b>	<b>-51</b>	<b>-5%</b>

**Waterway: London**

<b>Canal:</b>				<b>Annual Boat Movement Totals</b>			<b>Annual Change</b>
	<b>Site</b>	<b>Type</b>	<b>NGR</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	
<b>Grand Union</b>							
	Thames Lock	Manual Reading	TQ 178772	1507	1312	1492	180 14%
<b>Summary stats for Grand Union</b>			<b>Avg:</b>	<b>1507</b>	<b>1312</b>	<b>1492</b>	<b>180 14%</b>
<b>Canal:</b>	<b>Lee &amp; Stort Navigation</b>			<b>Annual Boat Movement Totals</b>			
	<b>Site</b>	<b>Type</b>	<b>NGR</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>Annual Change</b>
	Lock 20, Bow Locks	Manual Reading	TQ 383823	66	99	60	-39 -39%
<b>Summary stats for Lee &amp; Stort Navigation</b>			<b>Avg:</b>	<b>66</b>	<b>99</b>	<b>60</b>	<b>-39 -39%</b>
<b>Canal:</b>	<b>Limehouse Basin</b>			<b>Annual Boat Movement Totals</b>			
	<b>Site</b>	<b>Type</b>	<b>NGR</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>Annual Change</b>
	Limehouse Basin Lock	Manual Reading	TQ 363808	1903	1662	1362	-300 -18%
<b>Summary stats for Limehouse Basin</b>			<b>Avg:</b>	<b>1903</b>	<b>1662</b>	<b>1362</b>	<b>-300 -18%</b>
<b>Canal:</b>	<b>London Docklands</b>			<b>Annual Boat Movement Totals</b>			
	<b>Site</b>	<b>Type</b>	<b>NGR</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>Annual Change</b>
	West India Dock Lock	Manual Reading	TQ 381799	651	966	696	-270 -28%
<b>Summary stats for London Docklands</b>			<b>Avg:</b>	<b>651</b>	<b>966</b>	<b>696</b>	<b>-270 -28%</b>
<b>Summary stats for London</b>			<b>Avg:</b>	<b>1032</b>	<b>1010</b>	<b>903</b>	<b>-107 -11%</b>

# APPENDIX - Incomplete Data Sites

**For lockage recording sites to be included in the main body of the report, they are required to be operational and have good quality data for both 2014 and 2015 (the comparison years). Incomplete sites within this Appendix are primarily those lockage sites where the data was of insufficient quality for 2014 and/or 2015.**

**Waterway: Central Shires**

<b>Canal:</b>	<u>Trent &amp; Mersey</u>	<b>Site</b>	<b>Type</b>	<b>NGR</b>	<u>Annual Lockage Totals</u>			<b>Comments</b>
					<b>2013</b>	<b>2014</b>	<b>2015</b>	
		Lock 1, Derwent Mouth	Telemetry	SK 455306	3777	3777	Technical issues, resolved in Mar 2015	
		Lock 12, Alrewas Lock	Telemetry	SK 171154	7178		Technical issues, under investigation	
		Lock 40, Summit Lock (Etruria)	Telemetry	SJ 872465	4250	4773	Technical issue, under investigation	



**Waterway: Manchester & Pennine**

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<b>Canal:</b>	<u>Peak Forest</u>	<b>Site</b>	<b>Type</b>	<b>NGR</b>	<u>Annual Lockage Totals</u>			<b>Comments</b>
					<b>2013</b>	<b>2014</b>	<b>2015</b>	
		Lock 8, Marple Lock	Telemetry	SJ 962884	1082	1142	Technical issue, resolved late 2015	

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<b>Canal:</b>	<u>Rochdale</u>	<b>Site</b>	<b>Type</b>	<b>NGR</b>	<u>Annual Lockage Totals</u>			<b>Comments</b>
					<b>2013</b>	<b>2014</b>	<b>2015</b>	
		Lock 79, Coal Pit Middle	Telemetry	SJ 858991		277	Technical issue, under investigation	

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**Waterway: North East**

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<b>Canal:</b>	<b><u>Aire &amp; Calder Navigation</u></b>			<b><u>Annual Lockage Totals</u></b>			<b>Comments</b>
	<b>Site</b>	<b>Type</b>	<b>NGR</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	
	Lock 12, Whitley Lock	Telemetry	SE 566221	1720			Long term transducer issues

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<b>Canal:</b>	<b><u>Ripon</u></b>			<b><u>Annual Lockage Totals</u></b>			<b>Comments</b>
	<b>Site</b>	<b>Type</b>	<b>NGR</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	
	Lock 1, Rhodesfield Lock	Telemetry	SE 323703	461	562		Technical & communications issues, resolved in Mar 2015

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Canal:	<u>Sheffield &amp; South Yorkshire Navigation</u>			<u>Annual Lockage Totals</u>			Comments
	Site	Type	NGR	2013	2014	2015	
	Aldwarke Lock	Telemetry	SK 451943			494	Site installed in 2014, data good in 2015
	Mexborough Low Lock	Telemetry	SE 501001		323		Technical issues, under investigation

Canal:	<u>Sheffield &amp; Tinsley Canal</u>			<u>Annual Lockage Totals</u>			Comments
	Site	Type	NGR	2013	2014	2015	
	Lock 1, Tinsley Lock	Telemetry	SK 392898	440	434		Technical issues, under investigation

**Waterway: Kennet & Avon**

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<b>Canal:</b>	<u>Bridgwater &amp; Taunton</u>			<u>Annual Lockage Totals</u>			<b>Comments</b>
	<b>Site</b>	<b>Type</b>	<b>NGR</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	
	Lock 6, Higher Maunsel Lock	Telemetry	ST 307293				Site no longer functional

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<b>Canal:</b>	<u>Kennet &amp; Avon</u>			<u>Annual Lockage Totals</u>			<b>Comments</b>
	<b>Site</b>	<b>Type</b>	<b>NGR</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	
	Lock 14, Bradford on Avon Lock	Telemetry	ST 825602	6471			Technical issues, under investigation

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**Waterway: London**

<b>Canal:</b>	<u>Hertford Union</u>	<b>Site</b>	<b>Type</b>	<b>NGR</b>	<u>Annual Lockage Totals</u>			<b>Comments</b>
					<b>2013</b>	<b>2014</b>	<b>2015</b>	
		Lock 1, Top Lock Victoria Park	Telemetry	TQ 367839				Technical and communications issues, under investigation

Canal:	Lee & Stort Navigation	Site	Type	NGR	Annual Lockage Totals			Comments
					2013	2014	2015	
		Lock 1, Ponders End Lock	Telemetry	TQ 364955				Technical issues, under investigation
		Lock 10, Sheering Mill	Telemetry	TL 488144	1138			Technical issue, resolved late 2015
		Lock 10, Waltham Common Lock	Telemetry	TL 370018	1429		2077	Technical issues from 2014, now resolved
		Lock 16, Stonebridge	Telemetry	TQ 351904				Installation issues - issue resolved for one lock, other lock not in use
		Lock 2, Ponders End Lock	Telemetry	TQ 364955				Technical issues, under investigation

**Waterway: South East**

<b>Canal:</b>	<u>Oxford Canal</u>	<b>Site</b>	<b>Type</b>	<b>NGR</b>	<u>Annual Lockage Totals</u>			<b>Comments</b>
					<b>2013</b>	<b>2014</b>	<b>2015</b>	
		Lock 46, Isis Lock	Telemetry	SP 505066	3084	3015	Technical issues, under investigation	

**Waterway: South Wales & Severn**

<b>Canal:</b>	<u>Droitwich Canal</u>	<b>Site</b>	<b>Type</b>	<b>NGR</b>	<u>Annual Lockage Totals</u>			<b>Comments</b>
					<b>2013</b>	<b>2014</b>	<b>2015</b>	
		Lock 8, Ladywood	Telemetry	SO 868610	1091	1081	Technical issue, resolved in Nov 2015	

**Waterway: West Midlands**

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<b>Canal:</b>	<b><u>Birmingham Canal Navigations</u></b>			<b><u>Annual Lockage Totals</u></b>			<b>Comments</b>
	<b>Site</b>	<b>Type</b>	<b>NGR</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	
	Lock 2, Rushall Lock	Telemetry	SP 039989	328		301	Technical issue in 2014, now resolved

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<b>Canal:</b>	<b><u>Grand Union</u></b>			<b><u>Annual Lockage Totals</u></b>			<b>Comments</b>
	<b>Site</b>	<b>Type</b>	<b>NGR</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	
	Lock 47, Knowle Bottom Lock	Telemetry	SP 190760		1488		Technical issue, resolved in Sept 2015

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<b>Canal:</b>	<b><u>Stratford</u></b>			<b><u>Annual Lockage Totals</u></b>			<b>Comments</b>
	<b>Site</b>	<b>Type</b>	<b>NGR</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	
	Lock 23, Lapworth	Telemetry	SP 186705	2679	2676		Technical issue, resolved in Nov 2015

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