
Annual Lockage Report 2010



Annual Lockage Report 2010:

The monitoring of lock operations across the network remains an essential element in our water resources management, business and corporate planning.

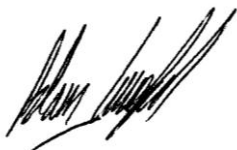
For the 2010 report, we have based the analysis of each Waterway on those lock sites with complete records for both 2009 and 2010 (the comparison sites). We have separated boat movements from lockage to acknowledge that averages can be skewed by the boat: lockage ratio. In the Appendix we have included, for information only, the sites where a complete record for 2009 and/or 2010 is not available.

The number of comparison sites included in the lockage section of the report has increased by 18% from last years report and the total number of sites producing an annual total has also increased, from 73% (in 2009) to 84% (in 2010) of all sites. Increased reliability and coverage of lock counters gives us a much better appreciation of overall business trends.

Nationally, the average number of recorded lock operations decreased by approximately 7% compared with 2009, (for those sites where data was available for both 2009 and 2010). The only Waterways that showed an increase were North Wales & Borders and Kennet & Avon. The North West Waterway showed the largest decrease in lockage. Probable causes for the overall reduction in lockage during 2010 include the restrictions and closures in the summer due to the very dry conditions and the cold weather conditions at both the start and end of the year.

The report contains the following sections: a summary table ranking the Waterway by average annual lock operations for 2010, a national map showing average annual lockage by Waterway, and detailed reports of lockage and boat movements for each Waterway for the last three years, separated into the individual canals within the Waterway. The Appendix provides the data for the incomplete sites.

I trust you find this report informative.

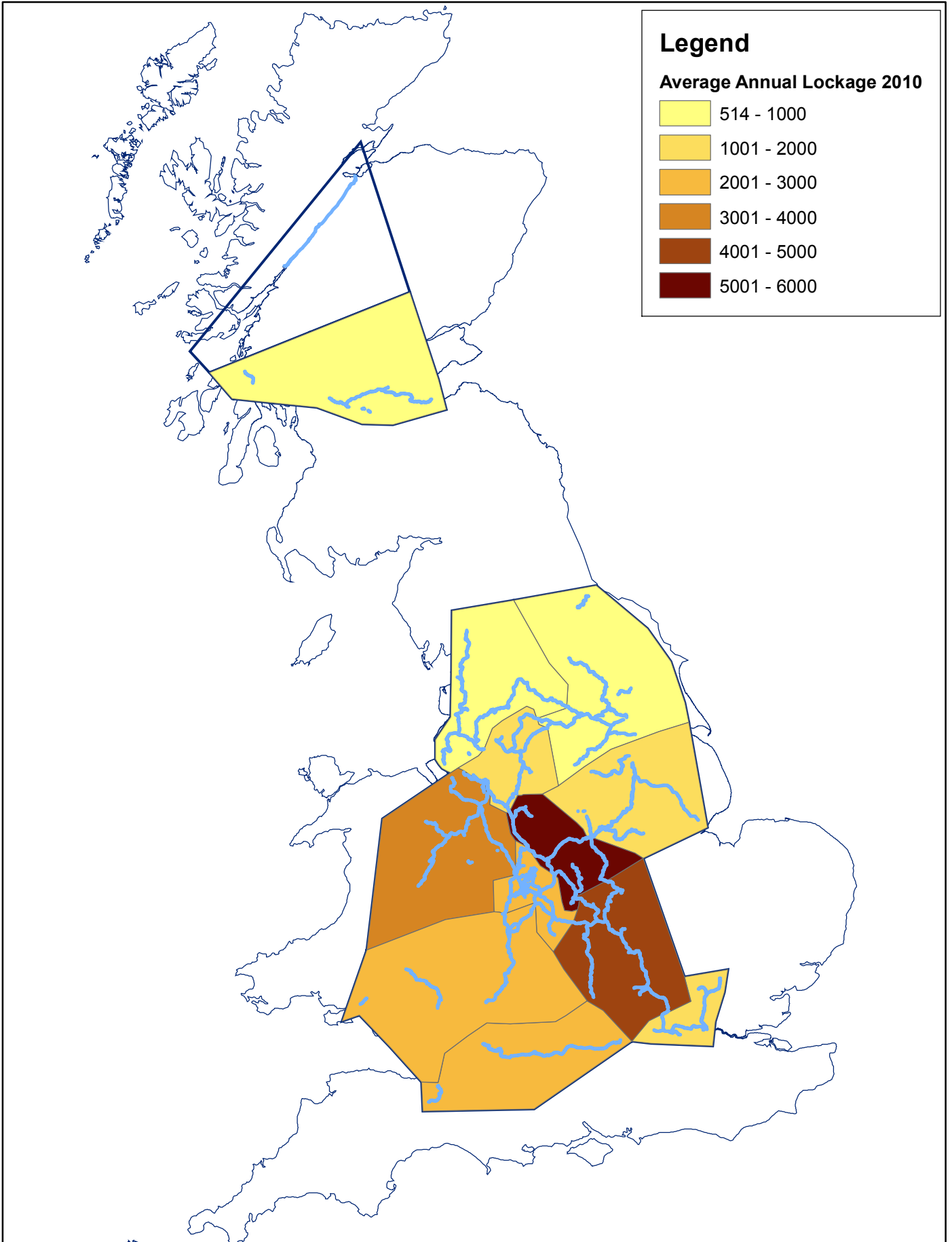
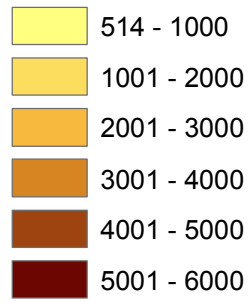


Adam Comerford
Group Hydrology Manager,
Water Management

Position compared to 2009	2010 Rank	Waterway	2009 Waterway Average	2010 Waterway Average
=	1	Central Shires	5794	5258
=	2	South East	4154	4089
=	3	North Wales & Borders	3373	3421
=	4	West Midlands	2851	2628
=	5	Kennet & Avon	2325	2341
=	6	South Wales & Severn	2312	2291
=	7	Manchester & Pennine	1683	1487
=	8	London	1370	1181
=	9	East Midlands	1219	1070
▲	10	Scotland - Lowlands	1120	982
▲	11	North East	986	952
▼	12	North West	1207	893

Legend

Average Annual Lockage 2010



Average Annual Lockage 2010

1:4,000,000,000

Produced by:
Water Management

13/01/2011



Waterway: Central Shires

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change	
				2008	2009	2010		
Caldon	Engine Lock	Manual Reading	SJ 900514	2398	2564	2127	-437 -17%	
	Lock 11, Hazelhurst Middle Lock	Telemetry	SJ 948538	2581	2709	2504	-205 -8%	
	Planet Lock	Manual Reading	SJ 878464	3163	3330	2393	-937 -28%	
Summary stats for Caldon				Avg:	2714	2868	2341	-526 -18%

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change	
				2008	2009	2010		
Coventry & Ashby	Lock 1, Atherstone Top Lock	Telemetry	SP 303976	5974	6010	5654	-356 -6%	
	Lock 12, Glascote Top Lock	Telemetry	SK 216033		6538	5868	-670 -10%	
Summary stats for Coventry & Ashby				Avg:	5974	6274	5761	-513 -8%

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change	
				2008	2009	2010		
Trent & Mersey	Lock 11, Wychnor Lock	Telemetry	SK 185161	8041	8652	8144	-508	-6%
	Lock 20, Woodend Lock	Telemetry	SK 127135	9525	9037	8480	-557	-6%
	Lock 21, Colwich Lock	Telemetry	SK 008212	9495	9375	8676	-699	-7%
	Lock 37, Cockshutes Lock	Telemetry	SJ 874461	5589	5573	5223	-350	-6%
	Lock 40, Summit Lock (Etruria)	Telemetry	SJ 872465		5190	4825	-365	-7%
	Lock 6, Stenson Lock	Telemetry	SK 325299	4533	4796	4202	-594	-12%
	Trentham Lock	Telemetry	SJ 884998		5752	5002	-750	-13%
Summary stats for Trent & Mersey			Avg:	7437	6911	6365	-546	-8%
Summary stats for Central Shires			Avg:	5700	5794	5258	-536	-9%

Waterway: East Midlands

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
Beeston Canal							
	Castle Lock	Telemetry	SK 570393		3438	3307	-131 -4%

Summary stats for Beeston Canal			Avg:	3438	3307	-131	-4%
--	--	--	-------------	-------------	-------------	-------------	------------

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
Chesterfield							
	Lock 34, Turner Wood	Telemetry	SK 542813	372	597	363	-234 -39%
	Lock 51, Worksop Bracebridge Lock	Telemetry	SK 595791		641	481	-160 -25%
	Lock 56, Forest Middle Lock	Telemetry	SK 668830	710	950	781	-169 -18%

Summary stats for Chesterfield			Avg:	541	729	542	-188	-26%
---------------------------------------	--	--	-------------	------------	------------	------------	-------------	-------------

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
Erewash							
	Lock 73, East wood Lock	Telemetry	SK 460458	528	467	417	-50 -11%

Summary stats for Erewash			Avg:	528	467	417	-50	-11%
----------------------------------	--	--	-------------	------------	------------	------------	------------	-------------

Summary stats for East Midlands			Avg:	537	1219	1070	-149	-12%
--	--	--	-------------	------------	-------------	-------------	-------------	-------------

Waterway: Manchester & Pennine

Canal:	<u>Huddersfield Narrow</u>			<u>Annual Lockage Totals</u>			Annual Change		
	Site	Type	NGR	2008	2009	2010			
	Lock 16, Westwood Lock	Telemetry	SE 098149	349	272	291	19	7%	
	Lock 22, Upper Mill	Telemetry	SD 996058	757	869	720	-149	-17%	
	Lock 28, HNC	Telemetry	SE 065131	316	247	328	81	33%	
	Lock 30, Shaw Mill	Telemetry	SE 001069	307	249	302	53	21%	
	Lock 41, Marsden Lock	Telemetry	SE 048118		262	313	51	19%	
Summary stats for Huddersfield Narrow				Avg:	432	380	391	11	3%

Canal:	<u>Macclesfield</u>			<u>Annual Lockage Totals</u>			Annual Change		
	Site	Type	NGR	2008	2009	2010			
	Lock 1, Bosley Top Lock	Telemetry	SJ 904666	4056	4068	3356	-712	-18%	
Summary stats for Macclesfield				Avg:	4056	4068	3356	-712	-18%

Canal:	<u>Peak Forest</u>			<u>Annual Lockage Totals</u>			Annual Change		
	Site	Type	NGR	2008	2009	2010			
	Lock 8, Marple Lock	Telemetry	SJ 962884	1341	1373	1317	-56	-4%	
Summary stats for Peak Forest				Avg:	1341	1373	1317	-56	-4%

Canal:	<u>Rochdale</u>			<u>Annual Lockage Totals</u>			
	Site	Type	NGR	2008	2009	2010	Annual Change
	Lock 1, Albert Wood	Telemetry	SE 064236	952	1061	916	-145 -14%
	Lock 5, Edward Kilner	Telemetry	SE 030257	1272	1498	1252	-246 -16%
	Lock 92, Castlefield, Dukes Lock	Telemetry	SJ 831975	1016	1086	976	-110 -10%
	Rochdale Lock 17, Old Royd Lock	Telemetry	SD 948242	722	745	571	-174 -23%

Summary stats for Rochdale Avg: 991 1098 929 -169 -15%

Canal:	<u>Trent & Mersey</u>			<u>Annual Lockage Totals</u>			
	Site	Type	NGR	2008	2009	2010	Annual Change
	Lock 71 Kings Lock	Telemetry	SJ 706656	5202	5090	4340	-750 -15%
	Lock 75, Big Lock	Telemetry	SJ 701669		5063	4651	-412 -8%

Summary stats for Trent & Mersey Avg: 5202 5077 4496 -581 -11%

Summary stats for Manchester & Pennine Avg: 1481 1683 1487 -196 -12%

Waterway: North East

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
	<u>Calder & Hebble Navigation</u>						
	Lock 5, Woodside Mills	Telemetry	SE 101213		943	952	9 1%

Summary stats for Calder & Hebble Navigation			Avg:	943	952	9	1%
---	--	--	-------------	------------	------------	----------	-----------

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
	<u>Huddersfield Broad</u>						
	Lock 2, Huddersfield Broad Canal	Telemetry	SE 176202	489	458	465	7 2%

Summary stats for Huddersfield Broad			Avg:	489	458	465	7	2%
---	--	--	-------------	------------	------------	------------	----------	-----------

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
	<u>Pocklington</u>						
	Lock 8, Gardham Lock	Telemetry	SE 729453	55	90	124	34 38%

Summary stats for Pocklington			Avg:	55	90	124	34	38%
--------------------------------------	--	--	-------------	-----------	-----------	------------	-----------	------------

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
	<u>River Don Navigation</u>						
	Long Sandall Lock	Manual Reading	SE 602066	2210	2453	2266	-187 -8%

Summary stats for River Don Navigation			Avg:	2210	2453	2266	-187	-8%
---	--	--	-------------	-------------	-------------	-------------	-------------	------------

Summary stats for North East			Avg:	918	986	952	-34	-3%
-------------------------------------	--	--	-------------	------------	------------	------------	------------	------------

Waterway: North West

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change	
				2008	2009	2010		
	Glasson Basin Lock	Manual Reading	SD 445561	286	315	280	-35	-11%
	Lock 1, Lodgehill	Telemetry	SD 481544	590	526	430	-96	-18%
	Ribble Lock	Telemetry	SD 478296	382	290	255	-35	-12%
Summary stats for Lancaster			Avg:	419	377	322	-55	-15%

Canal: Leeds & Liverpool

Site	Type	NGR	Annual Lockage Totals			Annual Change		
			2008	2009	2010			
Bank Newton Lock	Telemetry	SD 911529		2189	1369	-820	-37%	
Inside Track, Deep Lock (Appley)	Telemetry	SD 428125	1655	1849	1457	-392	-21%	
Lock 1, Poolstock Lock	Telemetry	SD 578044	1649	1885	1492	-393	-21%	
Lock 3, Runnel Brow Lock	Telemetry	SD 453118	954	1004	948	-56	-6%	
Lock 44, Greenberfield Top Lock	Telemetry	SD 889484	2306	2566	1497	-1069	-42%	
Lock 51, Barrowford Bottom Lock	Telemetry	SD 868403	1184	1259	761	-498	-40%	
Lock 58, Johnsons Hillock	Telemetry	SD 359421	1183	1189	862	-327	-28%	
Lock 67, Wigan Lock	Telemetry	SD 588050	948	953	952	-1	0%	
Stanley Lock	Manual Reading	SJ 342921		457	410	-47	-10%	
Summary stats for Leeds & Liverpool			Avg:	1411	1483	1083	-400	-27%
Summary stats for North West			Avg:	1114	1207	893	-314	-26%

Waterway: Scotland - Lowlands

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
Crinan							
	Ardrishaig Lock	Manual Reading	NR 852852	1084	1309	1109	-200 -15%
	Crinan Lock 14	Manual Reading	NR 789944	1611	1617	1486	-131 -8%
	Crinan Sea Lock 15	Manual Reading	NR 788943	1579	1812	1763	-49 -3%
Summary stats for Crinan			Avg:	1425	1579	1453	-127 -8%
Forth Clyde & Monkland							
	Bowling Lock	Manual Reading	NS 449735	513	441	341	-100 -23%
	Carron Sea Lock	Manual Reading	NS 906822	231	336	241	-95 -28%
	Falkirk Wheel, Lock 3	Manual Reading	NS 853796		1203	952	-251 -21%
Summary stats for Forth Clyde & Monkland			Avg:	372	660	511	-149 -23%
Summary stats for Scotland - Lowlands			Avg:	1004	1120	982	-138 -12%

Waterway: Kennet & Avon

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change	
				2008	2009	2010		
	Lock 15, Semington Lock	Telemetry	ST 901609	3477	3591	3450	-141	-4%
	Lock 51, Wootton Rivers	Telemetry	SU 199629	2198	2231	2142	-89	-4%
	Lock 60, Crofton Lock	Telemetry	SU 248622	1893	1539	1898	359	23%
	Lock 85, Newbury Lock	Telemetry	SU 470671	2369	2495	2324	-171	-7%
	Lock 96, Padworth Middle Lock	Telemetry	SU 606671		1767	1890	123	7%
Summary stats for Kennet & Avon			Avg:	2484	2325	2341	16	1%
Summary stats for Kennet & Avon			Avg:	2484	2325	2341	16	1%

Waterway: London

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
Lee & Stort Navigation							
	Lock 10, Waltham Common Lock	Telemetry	TL 370018		1649	1491	-158 -10%
	Lock 16, Stone Bridge	Telemetry	TQ 351904		1603	1292	-311 -19%
Summary stats for Lee & Stort Navigation				Avg:	1626	1392	-235 -14%
Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
Regents							
	Lock 12, Commercial Road	Telemetry	TQ 363811	647	859	759	-100 -12%
Summary stats for Regents				Avg:	647	859	-100 -12%
Summary stats for London				Avg:	647	1370	1181 -190 -14%

Waterway: North Wales & Borders

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
	Llangollen						
	Lock 1, Hurleston	Telemetry	SJ 625553	7259	6922	7199	277 4%

Summary stats for Llangollen			Avg:	7259	6922	7199	277	4%
-------------------------------------	--	--	-------------	-------------	-------------	-------------	------------	-----------

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
	Montgomery						
	Lock 3, Aston Lock	Telemetry	SJ 335264	1648	1691	1624	-67 -4%
	Lock 4, Frankton Locks	Telemetry	SJ 369316	1657	1507	1254	-253 -17%
	Pool Quay Lock	Telemetry	SJ 256115	95	83	125	42 51%

Summary stats for Montgomery			Avg:	1133	1094	1001	-93	-8%
-------------------------------------	--	--	-------------	-------------	-------------	-------------	------------	------------

Canal:	Shropshire Union	Site	Type	NGR	Annual Lockage Totals			Annual Change
					2008	2009	2010	
		Lock 4, Cholmondeston Lock	Telemetry	SJ 633575	8014	9098	8386	-712 -8%
		Lock 7, Tarvin Lock	Telemetry	SJ 427665		2100	2057	-43 -2%
		Top Narrow Lock, Ellesmere Port	Telemetry	SJ 405771	441	535	482	-53 -10%
		Top Wide Lock, Ellesmere Port	Telemetry	SJ 405771	35	27	68	41 152%
		Tyrley Lock	Manual Reading	SJ 689328		5170	6005	835 16%
		Wheaton Aston Lock	Telemetry	SJ 858126		6593	7005	412 6%
Summary stats for Shropshire Union				Avg:	2830	3921	4001	80 2%
Summary stats for North Wales & Borders				Avg:	2736	3373	3421	48 1%

Waterway: South East

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
	Cosgrove Lock	Telemetry	SP 795422	4439	4756	4834	78 2%
	Cowroast Lock	Telemetry	SP 958103	2410	2574	2345	-229 -9%
	Lock 1, Aylesbury Lock	Telemetry	SP 844143	1405	1557	1429	-128 -8%
	Lock 1, Welford Lock	Telemetry	SP 639813		4732	4236	-496 -10%
	Lock 18, Kibworth Lock	Telemetry	SP 657944	1799	2046	1965	-81 -4%
	Lock 6, Braunston Lock	Telemetry	SP 553657		6405	5898	-507 -8%
	Northampton Botttom Lock	Telemetry	SP 724581	811	1028	1049	21 2%
	Radford Lock	Telemetry	SP 352649	3644	3543	3528	-15 0%
Summary stats for Grand Union			Avg:	2418	3330	3161	-170 -5%

Canal:	<u>Oxford Canal</u>			<u>Annual Lockage Totals</u>			Annual Change
	Site	Type	NGR	2008	2009	2010	
	Claydon Lock	Telemetry	SP 463505		5657	6490	833 15%
	Lock 32, Nell Bridge Lock	Telemetry	SP 494343	4360	4945	4892	-53 -1%
	Lock 40, Bakers Lock	Telemetry	SP 479178	6566	4996	4910	-86 -2%
	Lock 8, Napton Bottom Lock	Telemetry	SP 458592	7348	7609	7487	-122 -2%
Summary stats for Oxford Canal			Avg:	6091	5802	5945	143 2%
Summary stats for South East			Avg:	3642	4154	4089	-65 -2%

Waterway: South Wales & Severn

Canal:	<u>Gloucester & Sharpness</u>			<u>Annual Lockage Totals</u>			Annual Change
	Site	Type	NGR	2008	2009	2010	
	Gloucester Lock	Manual Reading	SO 827184	2044	2298	2326	28 1%
	Sharpness Lock	Manual Reading	SO 670022	406	454	396	-58 -13%

Summary stats for Gloucester & Sharpness Avg: 1225 1376 1361 -15 -1%

Canal:	<u>Staffordshire & Worcestershire</u>			<u>Annual Lockage Totals</u>			Annual Change
	Site	Type	NGR	2008	2009	2010	
	York Street Lock	Telemetry	SO 812712		3756	3810	54 1%

Summary stats for Staffordshire & Worcestershire Avg: 3756 3810 54 1%

Canal:	<u>Worcester & Birmingham</u>			<u>Annual Lockage Totals</u>			Annual Change
	Site	Type	NGR	2008	2009	2010	
	Lock 15, Offerton Lock	Telemetry	SO 895580	2543	2738	2632	-106 -4%

Summary stats for Worcester & Birmingham Avg: 2543 2738 2632 -106 -4%

Summary stats for South Wales & Severn Avg: 1664 2312 2291 -21 -1%

Waterway: West Midlands

Canal:	<u>Birmingham & Fazeley</u>			<u>Annual Lockage Totals</u>			Annual Change
	Site	Type	NGR	2008	2009	2010	
	Lock 3, Minworth	Telemetry	SP 139916		2166	1798	-368 -17%
	Lock 1, Top Lock Curdworth	Telemetry	SP 183937	2151	2345	1744	-601 -26%
Summary stats for Birmingham & Fazeley			Avg:	2151	2256	1771	-485 -21%

Canal:	<u>Birmingham Canal Navigations</u>			<u>Annual Lockage Totals</u>			Annual Change
	Site	Type	NGR	2008	2009	2010	
	Lock 17, Wolverhampton Lock	Telemetry	SO 918993	1928	1797	1731	-66 -4%
	Lock 2, Rushall Lock	Telemetry	SP 039989		270	143	-127 -47%
	Lock 3, Farmers Bridge	Telemetry	SP 062870	2023	1944	1625	-319 -16%
Summary stats for Birmingham Canal Navigations			Avg:	1976	1337	1166	-171 -13%

Canal:	<u>Grand Union</u>			<u>Annual Lockage Totals</u>			
	Site	Type	NGR	2008	2009	2010	Annual Change
	Hatton Top Lock	Telemetry	SP 239669	2844	2625	2427	-198 -8%
	Lock 3, Camp Hill	Telemetry	SP 185859	1500	1469	1375	-94 -6%
	Lock 47, Knowle Bottom Lock	Telemetry	SP 190760		1351	1283	-68 -5%
Summary stats for Grand Union			Avg:	2172	1815	1695	-120 -7%

Canal:	<u>Staffordshire & Worcestershire</u>			<u>Annual Lockage Totals</u>			
	Site	Type	NGR	2008	2009	2010	Annual Change
	Lock 28, Dimmingsdale Lock	Telemetry	SO 858959	1779	3987	3588	-399 -10%
	Lock 31, Compton Lock	Telemetry	SO 884989	4101	4661	4227	-434 -9%
	Lock 33, Brick Kiln Lock	Telemetry	SJ 922107	6425	5894	5794	-100 -2%
	Lock 43, Tixall Lock	Telemetry	SJ 978219	7734	7660	7536	-124 -2%
Summary stats for Staffordshire & Worcestershire			Avg:	5010	5551	5286	-264 -5%

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change	
				2008	2009	2010		
	Blowers Green Lock	Telemetry	SO 934887		1308	1168	-140	-11%
	Lock 4, Stourton	Telemetry	SO 867853	1299	1430	1566	136	10%

Summary stats for Stourbridge

Avg: **1299** **1369** **1367** **-2** **0%**

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change	
				2008	2009	2010		
	Lapworth Lock 19	Telemetry	SP 186705	3219	2896	2725	-171	-6%
	Lapworth Lock 23	Telemetry	SP 186705	3438	3401	2836	-565	-17%
	Lock 38, Preston Bagot	Telemetry	SP 175654	3527	3143	2911	-232	-7%
	Lock 40, Wilmcote Top Lock	Telemetry	SP 171575	3291	2978	2823	-155	-5%

Summary stats for Stratford

Avg: **3369** **3105** **2824** **-281** **-9%**

Summary stats for West Midlands **Avg:** **3233** **2851** **2628** **-224** **-8%**

Boat Movement Report 2010

Waterway: East Midlands

Canal: <u>Chesterfield</u>		Annual Boat Movement Totals					
Site	Type	NGR	2008	2009	2010	Annual Change	
Stockwith Lock	Manual Reading	SK 785946	1115	1285	1451	166	13%
Summary stats for Chesterfield		Avg:	1115	1285	1451	166	13%
Canal: <u>Fosdyke & Witham</u>		Annual Boat Movement Totals					
Site	Type	NGR	2008	2009	2010	Annual Change	
Torksey Lock	Manual Reading	SK 837780	2537	2591	2016	-575	-22%
Summary stats for Fosdyke & Witham		Avg:	2537	2591	2016	-575	-22%
Canal: <u>Trent Navigation</u>		Annual Boat Movement Totals					
Site	Type	NGR	2008	2009	2010	Annual Change	
Cromwell Lock	Manual Reading	SK 808611	2607	2774	2362	-412	-15%
Gunthorpe Lock	Manual Reading	SK 688437	3636	3838	3400	-438	-11%
Hazleford Lock	Manual Reading	SK 732494	3044	3628	3468	-160	-4%
Holme Lock	Manual Reading	SK 615393	3814	3978	2818	-1160	-29%
Newark Nether Lock	Manual Reading	SK 800554	2734	2903	2416	-487	-17%
Newark Town Lock	Manual Reading	SK 794538	3836	4214	3712	-502	-12%
Stoke Lock	Manual Reading	SK 649407	3010	3211	2185	-1026	-32%
Summary stats for Trent Navigation		Avg:	3240	3507	2909	-598	-17%
Summary stats for East Midlands		Avg:	2926	3158	2648	-510	-16%

Waterway: North East

Canal:	River Ouse			Annual Boat Movement Totals			
	Site	Type	NGR	2008	2009	2010	Annual Change
	Naburn Lock	Manual Reading	SE 594444		1326	1068	-258 -19%
Summary stats for River Ouse			Avg:		1326	1068	-258 -19%
Canal:	Selby			Annual Boat Movement Totals			
	Site	Type	NGR	2008	2009	2010	Annual Change
	Lock 1, Selby Lock	Manual Reading	SE 622322		974	800	-174 -18%
Summary stats for Selby			Avg:		974	800	-174 -18%
Summary stats for North East			Avg:		1150	934	-216 -19%

Waterway: Scotland - Highlands

Canal:	Caledonian	Site	Type	NGR	Annual Boat Movement Totals			Annual Change	
					2008	2009	2010		
		Aberchalder Bridge	Manual Reading	NH 338035	4246	4349	4301	-48	-1%
		Banavie Lock	Manual Reading	NN 116772	1433	1464	1351	-113	-8%
		Clachnaharry Sea Lock	Manual Reading	NH 644467	1434	1325	1308	-17	-1%
		Clachnaharry Works Lock	Manual Reading	NH 648466	1369	1424	1275	-149	-10%
		Corpach Sea Lock	Manual Reading	NN 096766	1676	1634	1456	-178	-11%
		Corpach Double lock	Manual Reading	NN 098766	1543	1473	1343	-130	-9%
		Cullochy Lock	Manual Reading	NH 341041	4310	4429	4347	-82	-2%
		Dochgarroch Lock	Manual Reading	NH 618405	5082	4987	5132	145	3%
		Fort Augustus Lock	Manual Reading	NH 379092	4038	4128	4126	-2	0%
		Gairlochy Lock	Manual Reading	NN 178843	3070	3443	3074	-369	-11%
		Kytra Lock	Manual Reading	NH 353068	4256	4403	4173	-230	-5%
		Laggan Bridge	Manual Reading	NN 299983	4179	4456	4201	-255	-6%
		Laggan Lock	Manual Reading	NN 286963	4202	4350	4086	-264	-6%
		Moy Bridge	Manual Reading	NN 162826	2992	3348	3032	-316	-9%
		Muirtown Lock	Manual Reading	NH 652455	1454	1595	1417	-178	-11%
		Tom Bridge	Manual Reading	NH 654438	3954	4068	4150	82	2%
Summary stats for Caledonian				Avg:	3077	3180	3048	-132	-4%
Summary stats for Scotland - Highlands				Avg:	3077	3180	3048	-132	-4%

Waterway: London

Canal:	<u>Grand Union</u>			<u>Annual Boat Movement Totals</u>			
	Site	Type	NGR	2008	2009	2010	Annual Change
	Thames Lock	Manual Reading	TQ 178772		1561	1689	128 8%
Summary stats for Grand Union			Avg:		1561	1689	128 8%
Canal:	<u>Limehouse Basin</u>			<u>Annual Boat Movement Totals</u>			
	Site	Type	NGR	2008	2009	2010	Annual Change
	Limehouse Basin Lock	Manual Reading	TQ 363808		2588	2574	-14 -1%
Summary stats for Limehouse Basin			Avg:		2588	2574	-14 -1%
Summary stats for London			Avg:		2075	2132	57 3%

APPENDIX

Incomplete Data Sites

For lockage sites to be included in the main body of the report, they are required to have good quality data for both 2009 and 2010 (the comparison years). The rules for assessing the quality of the lockage data have remained unchanged since the first Annual Lockage Report in 2001. This provides a consistent basis for analysis from year to year. Incomplete sites within this Appendix are therefore those lockage sites where the data was of insufficient quality for either 2009 and/or 2010. Where annual totals are given for a particular year, it means that the data quality has met the minimum requirements.

Waterway: Central Shires

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
<u>Caldon</u>	Lock 1, Bedford Street	Telemetry	SJ 873468				
	Lock 8, Road Lock	Telemetry	SJ 916519				

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
<u>Grand Union</u>	Lock 38, Kings Lock	Telemetry	SK 567007	1136		1249	

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
<u>Trent & Mersey</u>	Lock 12, Alrewas Lock	Telemetry	SK 171154			8671	
	Lock 27, Star Lock	Telemetry	SJ 902336	6821		6038	

Waterway: East Midlands

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
<u>Chesterfield</u>	Lock 61, Gringley Lock	Telemetry	SK 728916				
	West Stockwith Lock	Manual Reading	SK 785946	621	746		

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
<u>Erewash</u>	Lock 61, Long Eaton	Telemetry	SK 488335	768			

Waterway: Manchester & Pennine

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
Ashton	Lock 17, Droylsden Lock	Telemetry	SJ 898978				
	Lock 2, Ancoats	Telemetry	SJ 854982			916	

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
Huddersfield Narrow	Lock 12, (HNC)	Telemetry	SD 975012			427	
	Lock 1E, Stanley Dawson Lock	Telemetry	SE 148162			287	
	Lock 3, Ashton Lock	Telemetry	SJ 942987	450	549		

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
Rochdale	Lock 49, Rochdale	Telemetry	SD 905124				
	Lock 65, Alfred Street	Telemetry	SD 896017		251		
	Lower Littleborough Lock 48	Telemetry	SD 940163	354			

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
Trent & Mersey	Lock 42, Limekiln Locks	Telemetry	SJ 830548	4329	4799		

Waterway: North East

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
<u>Ripon</u>	Lock 1, Oxclose Lock	Telemetry	SE 332679			1392	
	Lock 1, Rhodesfield Lock	Telemetry	SE 323703			490	

Waterway: North West

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
<u>Leeds & Liverpool</u>	Higherland Lock	Manual Reading	SD 930543	2603			
	Lock 29, Bingley 5 Rise Top Lock	Telemetry	SE 107399	1623	2516		
	Lock 35, Stegneck Lock	Telemetry	SD 918539			1473	
	Lock 6, Spring Garden Lock	Telemetry	SE 284337			628	

Waterway: Scotland - Lowlands

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
<u>Crinan</u>	Lock 9, Dunardry Lock	Manual Reading	NR 823911	1169		1216	

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
<u>Forth Clyde & Monkland</u>	Lock 1, Speaker Lock Port Dundas	Telemetry	NS 592666	40			
	Wyndford Lock	Telemetry	NS 776678				

Waterway: Kennet & Avon

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
<u>Bridgwater & Taunton</u>							
	Lock 6, Higher Maunsel Lock	Telemetry	ST 307293	154			

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
<u>Kennet & Avon</u>							
	Lock 105, Fobney Lock	Telemetry	SU 705710			1468	
	Lock 13 Bath Lock	Telemetry	ST 758646	2289		2880	
	Lock 14, Bradford on Avon Lock	Telemetry	ST 825602	5872	5917		
	Lock 21, Seend Lock	Telemetry	ST 933613	3138		2778	
	Lock 49, Maton Lock	Telemetry	ST 995617	1614		1680	
	Lock 71, Picketsfield Lock	Telemetry	SU 316680	1619	1840		
	Lock 76, Wire Lock	Telemetry	SU 362681			1964	
	Lock 78, Kintbury Lock	Telemetry	SU 385671	2316		2136	

Waterway: London

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
<u>Grand Union</u>							
	Lock 2, Hawley	Telemetry	TQ 287841	2241			
	Lock 90, Hanwell flight (Norwood)	Telemetry	TQ 136793				
<u>Hertford Union</u>							
	Lock 1, Top Lock Victoria Park	Telemetry	TQ 367839				
<u>Lee & Stort Navigation</u>							
	Lock 10, Sheering Mill	Telemetry	TL 488144		954		
	Lock 3, Roydon Lock	Telemetry	TL 410104			1530	
	Lock 4, Stanstead Lock	Telemetry	TL 380121		2149		
	Ponders End Lock 1	Telemetry	TQ 364955		1144		
	Ponders End Lock 2	Telemetry	TQ 364955		90		

Waterway: North Wales & Borders

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
<u>Llangollen</u>							
	Marbury Lock	Telemetry	SJ 561464				
	New Marton Lock counter	Telemetry	SJ 331343			9357	
<u>Montgomery</u>							
	Lock 1, Belan Locks	Telemetry	SJ 217054			26	
<u>Shropshire Union</u>							
	Dee Branch	Telemetry	SJ 399667			20	
	Lock 1, Wardle Lock	Telemetry	SJ 676688			7475	
	Lock 3, Audlem Lock	Telemetry	SJ 655439			5150	

Waterway: South East

Canal:	Grand Union	Site	Type	NGR	Annual Lockage Totals			Annual Change
					2008	2009	2010	
		Lock 1, Calcutt Lock	Telemetry	SP 468633	7454		6296	
		Lock 1, Watford Lock	Telemetry	SP 593689	5873			
		Lock 7, Buckby Top Lock	Telemetry	SP 605656			4818	
		Lock 81, Batchworth Lock	Telemetry	TQ 062940	3124		2676	
		Lock 9, Foxton Lock	Telemetry	SP 691894	3750		4610	
		Marsworth Top Lock	Manual Reading	SP 928139	3203	3127		
		Pumping Station 2, Stockton	Telemetry	SP 426647	3574		3274	
		Soulbury Lock	Manual Reading	SP 892284				
		Stalkies Lock	Manual Reading	SP 924152				
		Stoke Bruerne Lock	Manual Reading	SP 743499				

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
Oxford Canal	Hillmorton Lock 2	Telemetry	SP 537745	6773		5756	
	Hillmorton Lock 3	Telemetry	SP 537745	6500		5009	
	Lock 15, Marston Doles Lock	Telemetry	SP 464582	7689	7779		
	Lock 42, Roundham Lock	Telemetry	SP 483140				
	Lock 44, Dukes Lock	Telemetry	SP 488107	4530		4554	
	Lock 44A, Dukes Cut Lock	Telemetry	SP 488106			2705	
	Lock 46, Isis Lock	Telemetry	SP 505066			3386	

Waterway: South Wales & Severn

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
Monmouthshire & Brecon	Lock 65, Coombes Lock	Telemetry	SO 144197				
	Lock 69, Brynich Lock	Telemetry	SO 307227			3221	

Canal:	Site	Type	NGR	Annual Lockage Totals			Annual Change
				2008	2009	2010	
Worcester & Birmingham	Lock 2, Diglis	Telemetry	SO 849539	1946		2357	
	Lock 42, Tardebigge	Telemetry	SO 991692		2137		

Waterway: West Midlands

Canal:	Stratford	Site	Type	NGR	Annual Lockage Totals			Annual Change
					2008	2009	2010	
		Lapworth Lock 2	Telemetry	SP 165716				
		Lock 53, Maidenhead Road	Telemetry	SP 201553	1977	2610		
		Lock 56, River Lock	Telemetry	SP 204548	1848		1970	