

Appendix 2

Royal Canal Lengths and Estimated Flood Volumes

Level Name	Water Level	Length	Est embanked length	Embankment Condition	Depth	Ave Width	Volume	Spread Radius	Overflows	Receiving Water	Intakes to Canal	Historic Flooding	
	mOD	km	(m)		m	m	m³	m					
					(will vary)	(approx)							
SDK	1.99	1.15	0		2.5	20	57500	271				Spencer Dock area flooded in 2002 due to the high tide level in the River Liffey which was 0.4m higher than the level in the Royal Canal. This caused widespread flooding (DCC). New sea lock flood protection since constructed.	Sea Lock / Spencer Dock
1	4.09	1.10	0		2.59	12	34188	209					Newcomen Bridge
2	10.19	0.30	0		1.94	12	6995	94					Binns Bridge
3	15.76	0.25	0		2.20	12	6591	92					
4	21.33	0.35	0		2.26	12	9496	110					
5	26.96	0.30	0		2.19	12	7884	100					Cross Guns
6	32.42	1.20	350	Fair	2.15	12	30960	199					
7	35.08	1.20	500	Fair	2.04	12	29405	193					Liffey Junction
8	37.62	0.60	500	Fair	2.11	12	15170	139					Reilly's Bridge
9	39.77	1.05	500	Fair	2.23	12	28085	189	Emergency overflows behind towpath	River Tolka			
10	44.91	1.45	0		1.86	12	32364	203	Overflow below 11th Lock	River Tolka			Longford Bridge
11	50.49	0.95	0		2.00	12	22800	170	Overflow at M50	River Tolka			
12	56.53	12.40	500	Fair	2.39	12	355930	673	Ryewater aqueduct overflow near Louisa Bridge	Ryewater			Blanchardstown
13	59.11	6.35	50	Fair	2.07	12	157658	448				Maynooth Harbour has occasional flooding of 1 no. garden if locks left incorrectly by boaters. Lock-keepers generally inspect the lock after boat traffic.	Deey Bridge
14	61.79	2.10	50	Fair	1.97	12	49568	251					Jacksons Bridge
15	64.67	1.65	100	Fair	1.94	12	38313	221					Chambers Bridge
16	69.85	3.80	600	Fair	2.13	12	96991	351	Ferns Lock Overflow below 17th Lock	Ryewater	Ryewater intake		Shaws Bridge
17		32.4	16000		2	12	776400	994				Bank overtops - road can be flooded	Ferns Lock
18		0.5	0		2	12	10800	117					Thomastown Harbour
19		0.4	0		2	12	9600	111					
20		0.5	0		2	12	12000	124					
21		0.4	0		2	12	9600	111					
22		0.4	0		2	12	9600	111				East of Darcy's Bridge Occasional flooding	Killucan
23		0.5	0		2	12	12000	124					
24		0.2	100		2	12	4800	78					
25		24.5	12000		2	12	589000	866			Lough Owel Feeder		Summit Level
26					2	12	0	0					Coolnahay Bridge
27		0.4	0		2	12	9600	111					
28		0.5	0		2	12	12000	124					
29		0.2	75		2	12	3600	68					
30		0.4	175		2	12	8400	103					
31		0.3	0		2	12	6000	87					
32		0.7	350		2	12	16800	146					Kill Bridge
33		0.6	275		2	12	13200	130					
34		1.2	600		2	12	28800	191			Balroe Feeder		Balroe Bridge
35		1.9	925		2	12	44400	238					Ballinacarrigy Harbour
36		1.7	825		2	12	39600	225					
37		1.2	575		2	12	27600	187					
38		0.3	150		2	12	7200	96					Kelly's Bridge
39		7.2	3575		2	12	171600	467					Draper's Bridge
40		11.3	565		2	12	271200	588					
41		7.2	3600		2	12	172800	469					Coolnahinch Bridge
42		2.2	0		2	12	52800	259					Ards
43		4.1	2050		2	12	98400	354					Kilashee
44		0.5	520		2	12	12500	126					Kilashee Harbour
45		5.1	0		2	12	121200	393					Rinnmount
46		0.8	0		2	12	19200	156					Richmond Harbour
								0					

Notes: } - North Bank SB - South Bank Occasional ponding around at locks during boat movements - not considered as flooding