

## **Appendix No. 3**

### **Hydrometric Data**

STATION NAME RATHGORGIN  
 STATION No. 29001  
 RIVER RAFORD  
 CATCHMENT DUNKELLIN

## Annual Maximum Series of Recorded Water Levels &amp; Estimated Flows

HYDROMETRIC YEAR	WATER LEVEL (mAOD - Poolbeg)	S.G. READING (m)	ESTIMATED FLOW (m <sup>3</sup> /s)	DATE
1957	33.48	1.84	N/A	30/10/1957
1958	32.77	1.13	N/A	14/10/1958
1959	33.51	1.87	N/A	28/12/1959
1960	33.39	1.75	N/A	05/12/1960
1961	33.46	1.85	13.37	01/12/1961
1962	33.28	1.67	11.68	06/11/1962
1963	33.46	1.85	13.37	12/05/1964
1964	33.98	2.37	18.68	08/10/1964
1965	33.38	1.77	12.61	19/11/1965
1966	33.34	1.73	12.23	01/03/1967
1967	33.95	2.34	18.35	10/10/1967
1968	33.76	2.15	16.36	25/12/1968
1969	33.33	1.72	12.14	26/04/1970
1970	33.33	1.72	12.14	29/11/1970
1971	33.36	1.75	12.42	03/04/1972
1972	32.93	1.29	8.39	13/12/1972
1973	33.84	2.20	16.87	02/12/1973
1974	33.66	2.02	15.03	23/01/1975
1975	33.26	1.62	11.23	16/01/1976
1976	33.44	1.80	12.89	08/02/1977
1977	33.73	2.09	15.74	10/11/1977
1978	N/A	N/A	N/A	N/A
1979	33.55	1.91	13.94	16/12/1979 (1)
1980	33.46	1.82	13.08	28/10/1980
1981	33.10	1.46	9.81	10/03/1982
1982	33.38	1.74	12.33	02/02/1983
1983	33.73	2.09	15.74	10/12/1983
1984	33.57	1.93	14.14	16/08/1985
1985	33.59	1.95	13.37	07/08/1986
1986	33.38	1.74	11.41	26/11/1986
1987	33.30	1.66	10.69	03/01/1988
1988	33.68	2.04	14.24	24/12/1988
1989	33.91	2.27	16.56	08/02/1990
1990	33.52	1.88	12.70	20/03/1991
1991	N/A	N/A	N/A	N/A
1992	N/A	N/A	N/A	N/A
1993	N/A	N/A	N/A	N/A
1994	34.20	2.56	19.66	29/01/1995 (1)
1995	33.56	1.92	13.08	29/10/1995
1996	33.76	2.12	15.03	19/02/1997
1997	33.65	2.01	13.95	08/03/1998
1998	33.90	2.26	16.46	22/09/1999
1999	33.96	2.32	17.08	24/12/1999
2000	34.06	2.42	18.14	06/11/2000
2001	34.00	2.36	17.50	11/02/2002
2002	33.61	1.97	13.56	10/11/2002
2003	33.38	1.74	11.41	03/02/2004
2004	34.16	2.52	19.22	09/01/2005 (1)
2005	33.74	2.1	14.84	23/09/2006
2006	33.88	2.24	16.25	06/12/2006 k.f.
2007	34.26	2.624	20.37	29/12/2007
2008	34.13	2.492	18.92	25/08/2009
2009	34.51	2.877	23.25	20/11/2009 (2)
WL Max =	34.26	2.624		
WL Med =	33.56	1.92		
WL Min =	32.77	1.138		

Limit of Reliable Rating 13 m<sup>3</sup>/s - Flow estimates above this are extrapolated and should be treated with caution

- (1) Recorder malfunction - Estimated peak, recorder malfunction  
 (2) Incomplete hydrometric year to 16/03/2010

Hydrometric years run from the 1st October to 30th September, e.g., hydrometric year 1980 begins on 1st October 1980.

Current Staff Gauge Zero = 31.636 mAOD (Poolbeg)

The Commissioners of Public Works will not be responsible for any loss or damage howsoever arising from the use or interpretation of these data.

**OFFICE OF PUBLIC WORKS**

**HYDROMETRIC SECTION**

**18-Jan-09**

**STATION NAME**                      **CRAUGHWELL**  
**STATION No.**                        **29007**  
**RIVER**                                **L.CULLAUN**  
**CATCHMENT**                        **DUNKELLIN**

**Annual Maximum Series of Recorded Levels & Estimated Flows**

<b>YEAR</b> <b>(HYDROMETRIC)</b>	<b>WATER LEVEL</b> <b>(mAOD - Malin Head)</b>	<b>STAFF GAUGE</b> <b>READING (m)</b>	<b>ESTIMATED</b> <b>FLOW (m3/s)</b>	<b>DATE</b>
1983	20.90	2.20	27.71	10/12/1983
1984	20.91	2.21	27.93	16/08/1985
1985	20.65	1.95	22.35	07/08/1986
1986	20.82	2.12	25.95	19/12/1986
1987	20.74	2.04	24.23	04/02/1988
1988	20.51	1.81	19.53	12/01/1989
1989	21.12	2.42	32.76	08/02/1990
1990	20.79	2.09	25.30	26/12/1990
1991	20.72	2.02	23.81	07/01/1992
1992	20.86	2.16	26.82	15/06/1993
1993	20.96	2.26	29.06	09/12/1993
1994	21.40	2.70	39.60	29/01/1995
1995	20.72	2.02	23.81	27/10/1995
1996	20.82	2.12	25.95	20/02/1997
1997	20.83	2.13	26.17	07/03/1998
1998	20.98	2.28	29.51	22/09/1999
1999	21.12	2.42	32.76	25/12/1999
2000	21.11	2.41	32.52	07/11/2000
2001	21.19	2.49	34.42	12/02/2002
2002	20.64	1.94	22.14	11/11/2002
2003	20.38	1.68	17.03	03/02/2004
2004	21.53	2.83	42.93	09/01/2005
2005	20.53	1.83	19.92	24/09/2006
2006	20.93	2.23	28.38	08/12/2006
2007	21.47	2.77	41.38	29/12/2007
2008	20.94	2.24	28.58	25/08/2009
2009	22.34	3.64	65.74	20/11/2009 (1)
WL Max =	22.34	3.64		
WL Med =	20.90	2.20		
WL Min =	20.38	1.68		

**Limit of Reliable Rating 55 m3/s - Flow estimates above this are extrapolated and should be treated with caution**

Hydrometric years run from the 1st October to 30th September, e.g., hydrometric year 1980 begins on 1st October 1980.

Current Staff Gauge Zero = 18.70mAOD (Malin)

(1)                      Incomplete hydrometric year to 18/01/2009

The Commissioners of Public Works will not be responsible for any loss or damage howsoever arising from the use or interpretation of these data.

**OFFICE OF PUBLIC WORKS**  
**HYDROLOGY AND HYDROMETRIC SECTION**  
*19-Mar-10*

**STATION NAME**            **AGGARD BRIDGE**  
**STATION No.**            **29010**  
**RIVER**                    **AGGARD**  
**CATCHMENT**            **LOUGHREA**

**Annual Maximum Series of Recorded Water Levels and Estimated Flows**

HYDROMETRIC YEAR	WATER LEVEL (mAOD - Poolbeg)	S.G. READING (m)	ESTIMATED FLOW (m <sup>3</sup> /s)	DATE
1982	21.62	0.76	4.10	02/04/1983
1983	21.60	0.74	3.88	16/01/1984
1984	21.63	0.77	4.21	15/08/1985
1985	21.54	0.68	3.25	22/01/1986
1986	21.75	0.89	5.74	18/12/1986
1987	21.60	0.89	2.87	19/01/1988
1988	21.81	1.10	5.20	11/01/1989
1989	22.12	1.41	10.27	06/02/1990
1990	21.84	1.13	5.60	26/12/1990
1991	21.79	1.08	4.94	13/11/1991(1)
1992	21.95	1.24	7.15	02/12/1992
1993	21.68	0.97	3.66	08/12/1993
1994	22.06	1.35	9.12	27/01/1995
1995	21.67	0.96	3.56	11/02/1996
1996	21.74	1.03	4.33	19/02/1997
1997	21.74	1.03	4.33	09/01/1998
1998	21.78	1.07	4.82	20/09/1999
1999	22.10	1.39	9.88	22/12/1999
2000	21.98	1.27	7.72	05/11/2000
2001	22.00	1.29	8.06	04/02/2002
2002	21.88	1.17	6.17	10/11/2002
2003	21.70	0.99	3.88	15/01/2004
2004	22.17	1.46	11.29	07/01/2005 (1)
2005	21.65	0.94	3.35	13/01/2006
2006	21.76	1.05	4.57	07/12/2006
2007	21.80	1.085	5.01	28/12/2007
2008	21.86	1.147	5.84	25/10/2008
2009	22.57	1.855	21.46	20/11/2009 (2)
WL Max =	22.57	1.855		
WL Med =	21.79	1.075		
WL Min =	21.54	0.83		

**Limit of Reliable Rating 2.4 m<sup>3</sup>/s - Flow estimates above this are extrapolated and should be treated with caution**

- (1) Water backed up behind both arches of bridge
- (2) Incomplete hydrometric year to 16/03/2010

Hydrometric years run from the 1st October to 30th September, e.g., hydrometric year 1980 begins on 1st October 1980.

**Current Staff Gauge Zero = 20.71 mAOD (Poolbeg)**

The Commissioners of Public Works will not be responsible for any loss or damage howsoever arising from the use or interpretation of these data.

**OFFICE OF PUBLIC WORKS**

**HYDROMETRIC SECTION**

19-Mar-10

**STATION NAME**                      **Rahasane Turlough**  
**STATION No.**                        **29002**  
**RIVER**                                 **Dunkellin**  
**CATCHMENT**                        **Dunkellin**

**Annual Maximum Series of Recorded Water Levels and Estimated Flows**

HYDROMETRIC YEAR	WATER LEVEL (mAOD - Poolbeg)	S.G. READING (m)	ESTIMATED FLOW (m <sup>3</sup> /s)	DATE	
1970	16.82	1.00	0.35	12/09/1971	(1)
1971	18.47	2.65	13.72	04/04/1972	
1972	18.71	2.89	17.40	14/12/1972	
1973	19.13	3.31	24.97	09/09/1974	
1974	19.48	3.68	32.82	25/01/1975	
1975	18.84	3.04	19.94	12/01/1976	
1976	18.88	3.08	20.65	10/02/1977	
1977	19.55	3.75	34.44	11/11/1977	
1978	19.20	3.40	26.78	16/12/1978	
1979	19.30	3.50	28.86	17/12/1979	
1980	18.79	2.98	18.91	29/12/1980	
1981	18.87	3.06	20.29	13/03/1982	
1982	19.17	3.36	25.96	25/11/1982	
1983	19.07	3.26	23.99	19/10/1983	
1984	19.34	3.53	29.50	17/08/1985	(2)
1985	19.11	3.30	24.77	30/01/1986	
1986	19.21	3.40	22.29	18/12/1986	
1987	19.21	3.40	22.29	05/01/1988	
1988	18.93	3.12	17.40	15/01/1989	
1989	19.49	3.68	27.81	31/10/1989	
1990	19.41	3.60	26.17	06/01/1991	
1991	19.29	3.48	23.80	09/01/1992	
1992	18.83	3.02	27.50	16/06/1993	
1993	18.82	3.01	25.56	07/12/1993	
1994	19.93	4.13	52.95	06/02/1995	
1995	18.68	2.87	22.85	13/02/1996	
1996	19.10	3.29	31.47	21/02/1997	
1997	19.09	3.28	31.25	09/01/1998	
1998	19.11	3.30	31.70	23/09/1999	
1999	19.90	4.09	46.73	25/12/1999	
2000	19.50	3.70	36.69	08/11/2000	
2001	19.63	3.82	39.64	04/02/2002	
2002	18.98	3.17	25.07	13/11/2002	
2003	18.47	2.66	16.05	02/02/2004	
2004	20.13	4.32	53.25	10/01/2005	(3)
2005	18.40	2.59	14.97	26/09/2006	
2006	19.62	3.81	39.39	09/01/2007	
2007	19.63	3.82	39.67	11/12/2007	
2008	19.33	3.52	32.57	26/08/2009	
2009	20.81	5.00	75.14	20/11/2009	(4)

**Limit of Reliable Rating 22.5 m<sup>3</sup>/s up to 1993 - Flow estimates above this are extrapolated and should be treated with caution**

**Limit of Reliable Rating 39.5 m<sup>3</sup>/s from 1993 - Flow estimates above this are extrapolated and should be treated with caution**

- (1) Incomplete year, records begin 01/08/1971
- (2) Estimated Level
- (3) Flood mark leveled due to AR malfunction
- (4) Incomplete hydrometric year to 20/01/2010, WL estimated from survey

Hydrometric years run from the 1st October to 30th September, e.g., hydrometric year 1980 begins on 1st October 1980.

Current Staff Gauge Zero = 15.80 mAOD (Poolbeg)

The Commissioners of Public Works will not be responsible for any loss or damage howsoever arising from the use or interpretation of these data.

**STATION NAME**                    **KILCOLGAN BRIDGE**  
**STATION No.**                    **29011**  
**RIVER**                             **DUNKELLIN**  
**CATCHMENT**                   **DUNKELLIN**

**Annual Maximum Series of Recorded Water Levels & Estimated Flows**

HYDROMETRIC YEAR	WATER LEVEL (mAOD - Malin head)	S.G. READING (m)	ESTIMATED FLOW (m <sup>3</sup> /s)	DATE
1983	2.57	1.38	26.21	08/02/1984
1984	2.65	1.46	29.16	18/08/1985
1985	2.51	1.32	24.09	24/01/1986
1986	2.64	1.46	29.01	20/12/1986
1987	2.57	1.38	26.21	07/01/1988
1988	2.46	1.27	22.37	14/01/1989
1989	2.93	1.74	40.61	09/02/1990
1990	2.74	1.55	32.66	29/12/1990
1991	2.63	1.44	28.40	10/01/1992
1992	2.64	1.45	28.78	16/6/93
1993	2.62	1.43	28.03	24/12/93
1994	3.01	1.82	44.34	30/01/1995
1995	2.51	1.32	24.09	14/02/1996
1996	2.68	1.49	30.30	21/02/1997
1997	2.67	1.55	28.40	11/01/1998
1998	2.63	1.51	26.93	25/09/99
1999	2.95	1.83	39.81	26/12/1999
2000	2.75	1.63	31.47	08/11/2000
2001	2.80	1.69	33.67	06/02/2002
2002	2.56	1.44	24.44	13/11/2002
2003	2.36	1.25	18.13	05/01/2004
2004	2.94	1.82	39.37	11/01/2005
2005	2.43	1.31	20.13	26/09/2006
2006	2.85	1.73	35.52	09/12/2006
2007	2.75	1.63	31.47	11/12/2007
2008	2.70	1.58	29.42	26/08/2009
2009	3.70	2.58	79.37	21/11/2009

(1)

WL Max =                    3.007                    1.82  
 WL Med =                    2.643                    1.456  
 WL Min =                    2.363                    1.176

**Limit of Reliable Rating 46.7 m<sup>3</sup>/s - Flow estimates above this are extrapolated and should be treated with caution**

(1)                    Incomplete hydrometric year to 16/03/2010

Hydrometric years run from the 1st October to 30th September, e.g., hydrometric year 1980 begins on 1st October 1980.

Current Staff Gauge Zero = 1.187 mAOD (Malin head)

Levels given are max fluvial levels and do not include tidal peaks.

The Commissioners of Public Works will not be responsible for any loss or damage howsoever arising from the use or interpretation of these data.