



**Shannon levels this morning 03/01/2019:**

Gauge Location	Level m.O.D.	Highest Level since 1932	
		m.O.D.	Date
Lough Allen	48.65	50.85	Jan 65
Lough Ree	38.32	39.72	Jan 16
Athlone Downstream	37.46	39.08	Jan 16
Lough Derg - Portumna	33.55	34.76	Nov 09
Lough Derg - Pier Head, Killaloe	33.38	34.33	Nov 09

**Note: All levels are relative to Poolbeg Datum.**

**Met Éireann 5 Day Rain Forecast:**

Approximately 5mm of rain is forecast for the Shannon catchment to Lough Allen over the next 5 days.

Approximately 3mm of rain is forecast for the Shannon catchment from Lough Allen to Lough Ree over the next 5 days.

Approximately 4mm of rain is forecast for the Shannon catchment from Lough Ree to Lough Derg over the next 5 days.

**Level at Athlone Downstream:**

Gauge is downstream of Athlone Weir and is a measure of the water level at the north end of the callows south of Athlone.

**Note: All sluices at Athlone Weir closed as of 01/12/2018**

**Discharge at Parteen Weir:**

**It is expected that there will be no additional discharge necessary at Parteen Weir over the next 5 days based on current weather forecast.**



**Lough Allen**

**Date of Prediction: 03 January 2019**

Catchment Rainfall

Historical: based on daily records for Lough Allen in OISHYDRO (ESB Database)

04 January 2019 to 08 January 2019: based on Met Éireann 5 day forecast for Lough Allen catchment.

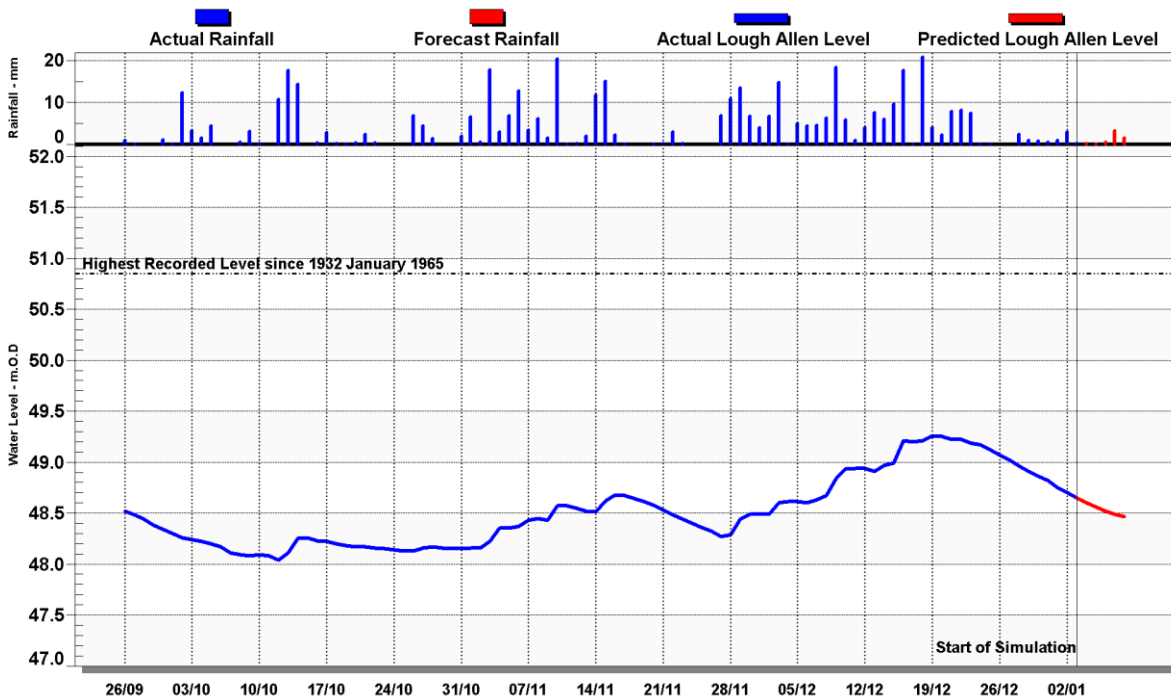
Historical Peak Levels

<b>Flood Event</b>	<b>Peak Level (m.O.D.)</b>
Winter 1994/1995 (March 1995)	50.50
Winter 1999/2000 (December 1999)	50.55
Winter 2006/2007 (January 2007)	49.72
Winter 2009/2010 (November 2009)	50.77
Winter 2015/2016 (December 2015)	50.60
Highest since 1932 (January 1965)	50.85

Predicted Highest Level (using the ESB Shannon Forecasting Model)

48.60 m.O.D. on 04 January 2019

Lough Allen Level from 26 September 2018 to 08 January 2019



Assumptions

**Two gates at Lough Allen open 40cm throughout forecast period.**

All levels refer to metres above Poolbeg Ordnance Datum



**Lough Ree**

**Date of Prediction: 03 January 2019**

Catchment Rainfall

Historical: based on daily records for Lough Allen and Athlone in OISHYDRO (ESB Database)

04 January 2019 to 08 January 2019: based on Met Éireann 5 day forecast for Lough Ree catchment

Historical Peak Levels

**Flood Event**

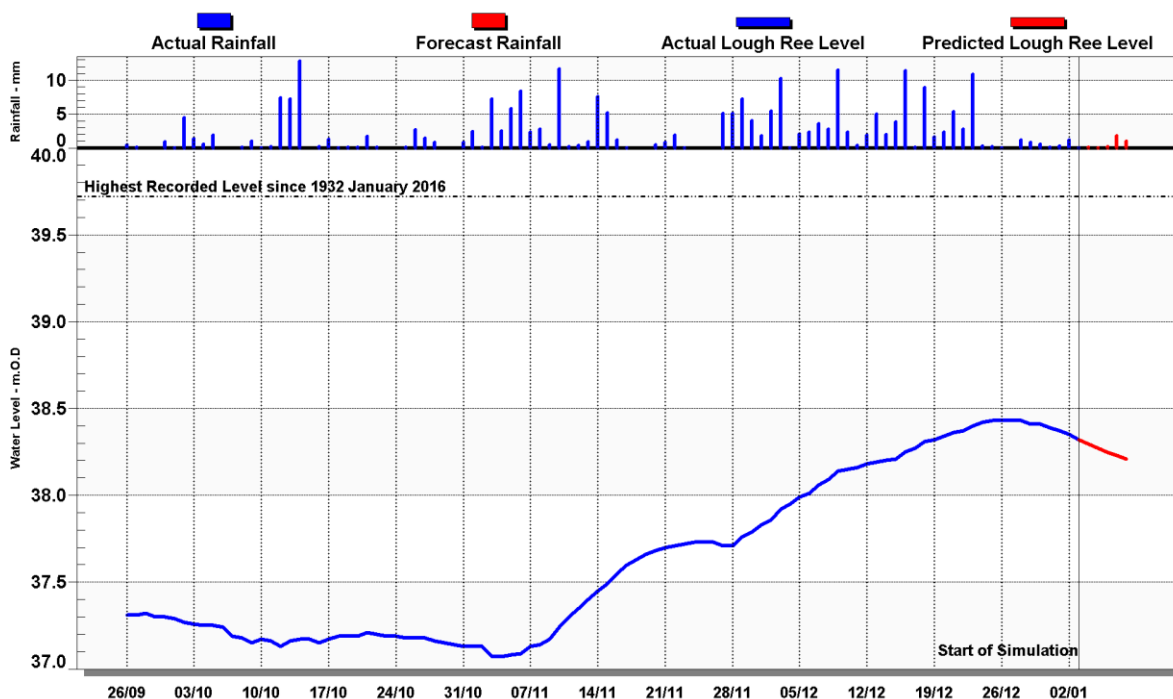
**Peak Level (m.O.D.)**

Winter 1994/1995 (March 1995)	38.97
Winter 1999/2000 (December 1999)	39.17
Winter 2006/2007 (January 2007)	39.19
Winter 2009/2010 (November 2009)	39.67
Winter 2015/2016 (January 2016)	39.72
Highest since 1932 (January 2016)	39.72

Predicted Highest Level (using the ESB Shannon Forecasting Model)

38.29 m.O.D. on 04 January 2019

Lough Ree Level from 26 September 2018 to 08 January 2019



Assumptions

**Note: All sluices at Athlone Weir closed throughout forecast period.**

*All levels refer to metres above Poolbeg Ordnance Datum*



**Lough Derg**

**Date of Prediction: 03 January 2019**

Catchment Rainfall

Historical: based on daily records for Athlone, Portumna, Victoria Lock, Killaloe and Parteen in OISHYDRO (ESB Database)

04 January 2019 to 08 January 2019: based on Met Éireann 5 day forecast for Lough Derg catchment.

Note: Lough Derg level is taken to be average of level recorded at Portumna and Pier Head, Killaloe. The variation in level between Portumna and Pier Head is a function of flow magnitude and wind direction.

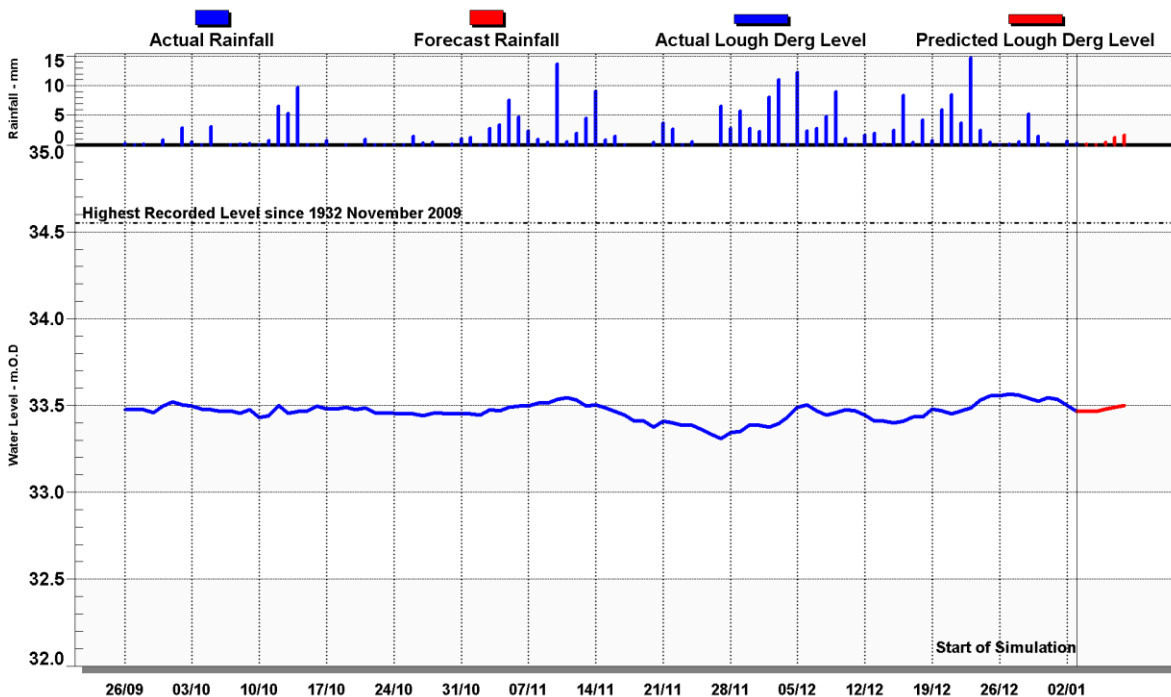
Historical Peak Levels

Flood Event	Peak Level (m.O.D.)	
	Portumna	Killaloe
Winter 1994/1995 (March 1995)	34.40	34.01
Winter 1999/2000 (December 1999)	34.30	33.90
Winter 2006/2007 (January 2007)	34.30	33.91
Winter 2009/2010 (November 2009)	34.76	34.33
Winter 2015/2016 (January 2016)	34.68	34.26
Highest since 1932 (November 2009)	34.76	34.33

Predicted Highest Level (using the ESB Shannon Forecasting Model)

33.50 m.O.D. on 08 January 2019

Lough Derg Level from 26 September 2018 to 08 January 2019





Energy for  
generations

## Generation & Wholesale Markets

### Assumptions

**Total combined Parteen Discharge ranging between 250 and 325m<sup>3</sup>/s throughout forecast period.**

*All levels refer to metres above Poolbeg Ordnance Datum*