



**Shannon levels this morning 24/02/2024:**

Gauge Location	Level m.O.D.	Highest Level since 1932	
		m.O.D.	Date
Lough Allen	48.86	50.85	Jan 65
Lough Ree	38.5	39.72	Jan 16
Athlone Downstream	37.91	39.08	Jan 16
Lough Derg - Portumna	33.72	34.76	Nov 09
Lough Derg - Pier Head, Killaloe	33.47	34.33	Nov 09

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

**Met Éireann 5 Day Rain Forecast:**

Approximately 18mm of rain is forecast for the Shannon catchment to Lough Allen over the next 5 days.

Approximately 15mm of rain is forecast for the Shannon catchment from Lough Allen to Lough Ree over the next 5 days.

Approximately 18mm 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 14/07/2023

**Discharge at Parteen Weir:**

It is expected that a discharge of between 95 and 55m<sup>3</sup>/s will be necessary at Parteen Weir over the next 5 days based on current weather forecast



**Lough Allen**

**Date of Prediction: 24 February 2024**

Catchment Rainfall

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

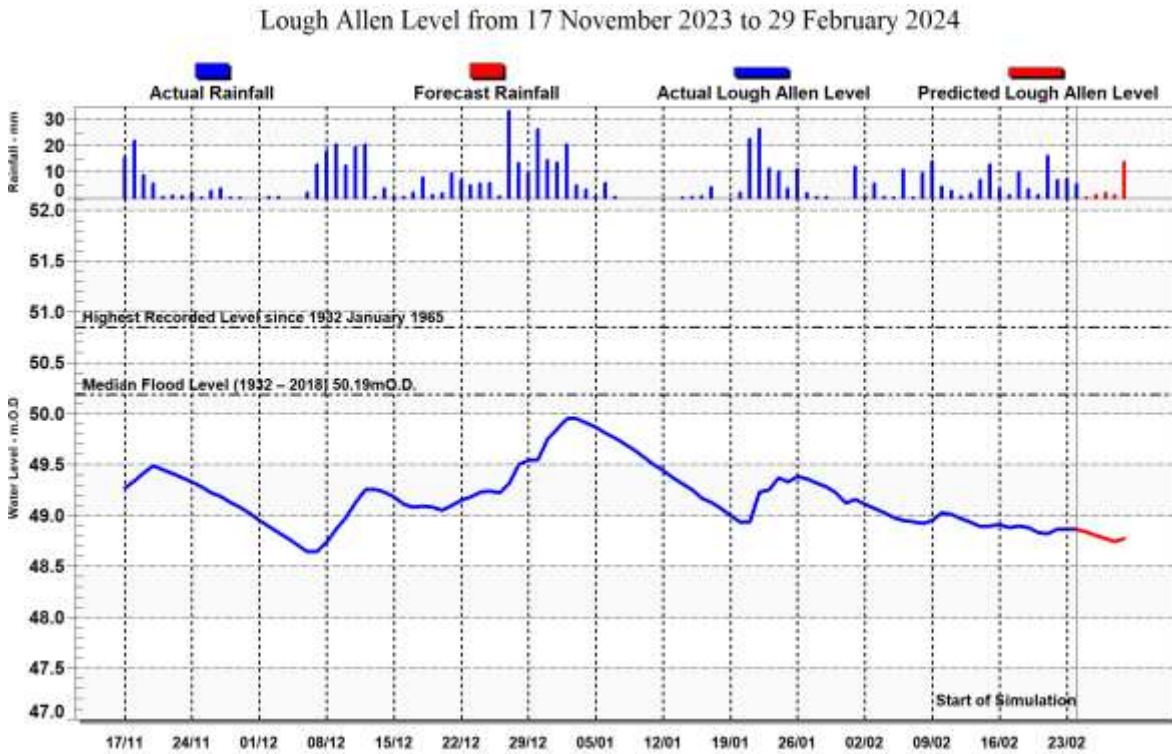
25 February 2024 to 29 February 2024: based on Met Éireann forecast for Lough Allen catchment

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)

48.84 m.O.D. on 25 February 2024



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: 24 February 2024**

Catchment Rainfall

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

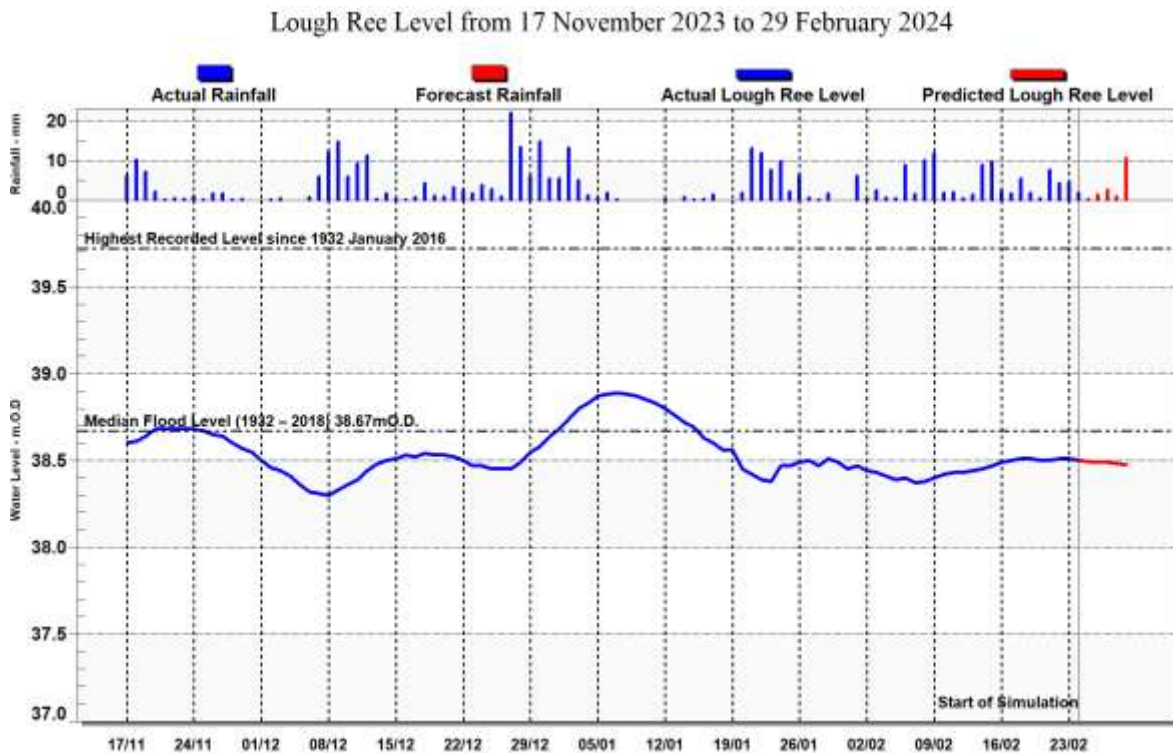
25 February 2024 to 29 February 2024: based on Met Éireann forecast for Lough Ree catchment

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)

38.49 m.O.D. on 25 February 2024



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: 24 February 2024**

Catchment Rainfall

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

25 February 2024 to 29 February 2024: based on Met Éireann forecast for Lough Derg catchment

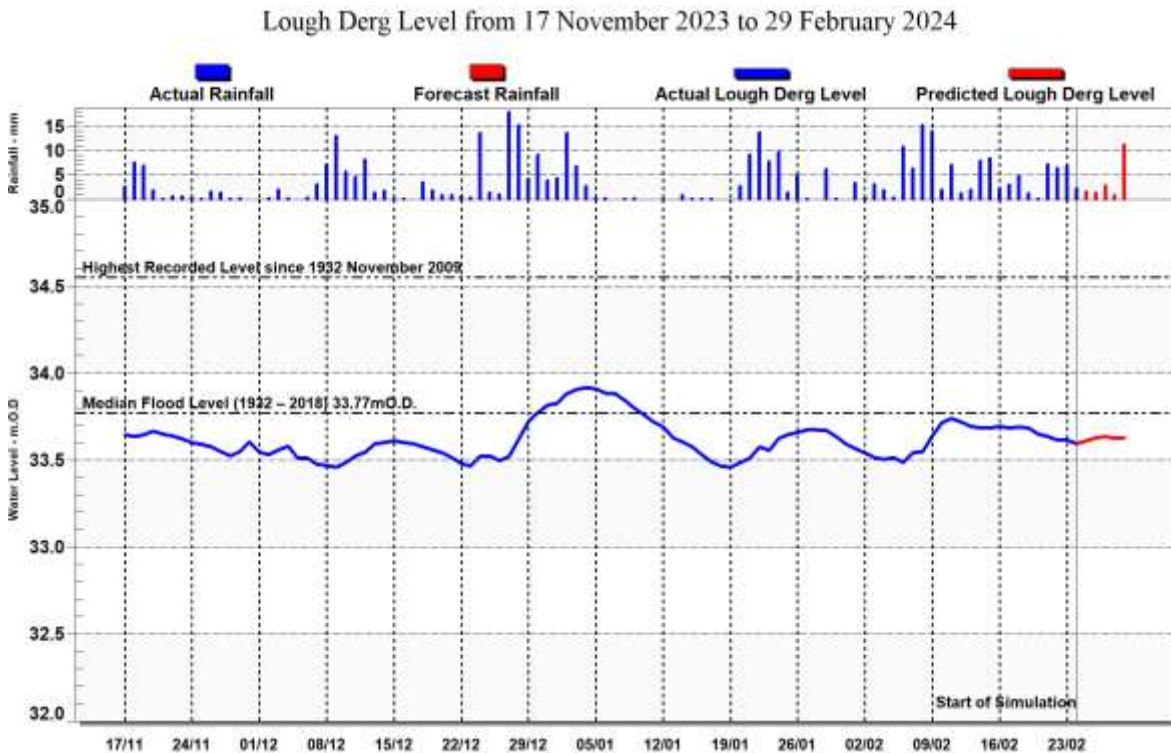
Note: Lough Derg level is taken to be average of level recorded at Portumna and Pier Head, Killaloe. The variation in level between Portumna and Pier Head is a function of flow magnitude and wind direction.

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)

33.63 m.O.D. on 27 February 2024





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Assumptions

**Total combined Parteen Discharge ranging between 475m<sup>3</sup>/s and 435m<sup>3</sup>/s throughout forecast period.**

**Median Flood Level** is the flood level that has an annual exceedance probability of 50% (i.e. return period 2 years).

All levels refer to metres above Poolbeg Ordnance Datum