



Energy for
generations

Generation & Wholesale Markets

Shannon levels this morning 11/03/2024:

| Gauge Location | Level | Highest Level since 1932 | |
|---|--------|--------------------------|--------|
| | m.O.D. | m.O.D. | Date |
| Lough Allen | 48.57 | 50.85 | Jan 65 |
| Lough Ree | 38.33 | 39.72 | Jan 16 |
| Athlone Downstream | 37.53 | 39.08 | Jan 16 |
| Lough Derg - Portumna | 33.60 | 34.76 | Nov 09 |
| Lough Derg - Pier Head, Killaloe | 33.41 | 34.33 | Nov 09 |
| Note: All levels are relative to Poolbeg Datum. | | | |

Met Éireann 5 Day Rain Forecast:

Approximately 43mm of rain is forecast for the Shannon catchment to Lough Allen over the next 5 days.

Approximately 40mm of rain is forecast for the Shannon catchment from Lough Allen to Lough Ree over the next 5 days.

Approximately 40mm 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 no additional discharge will be necessary at Parteen Weir over the next 5 days based on current weather forecast.

Lough Allen

Date of Prediction: 11 March 2024

Catchment Rainfall

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

12 March 2024 to 16 March 2024: based on Met Éireann forecast for Lough Allen catchment

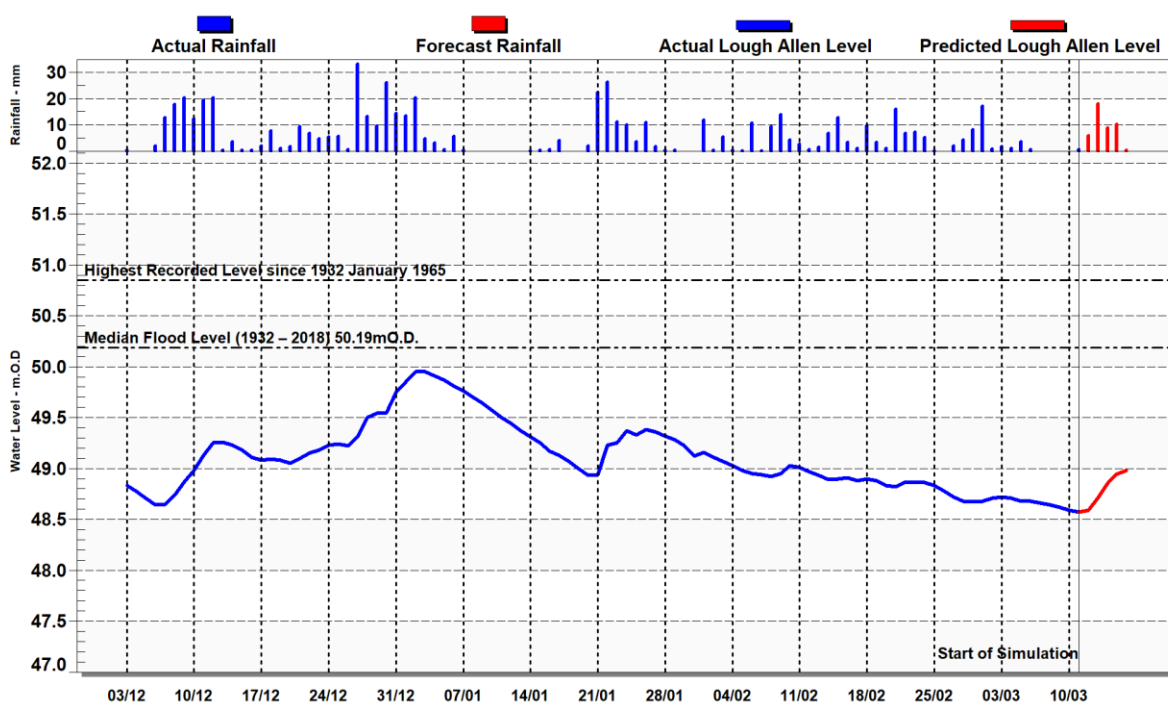
Historical Peak Levels

| Flood Event | Peak Level (m.O.D.) |
|-----------------------------------|----------------------------|
| 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)

48.98 m.O.D. on 16 March 2024

Lough Allen Level from 03 December 2023 to 16 March 2024



Assumptions

Two gates at Lough Allen open 10cm possibly increasing to Two gates open 25cm throughout forecast period.

All levels refer to metres above Poolbeg Ordnance Datum

Lough Ree

Date of Prediction: 11 March 2024

Catchment Rainfall

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

12 March 2024 to 16 March 2024: based on Met Éireann forecast for Lough Ree catchment

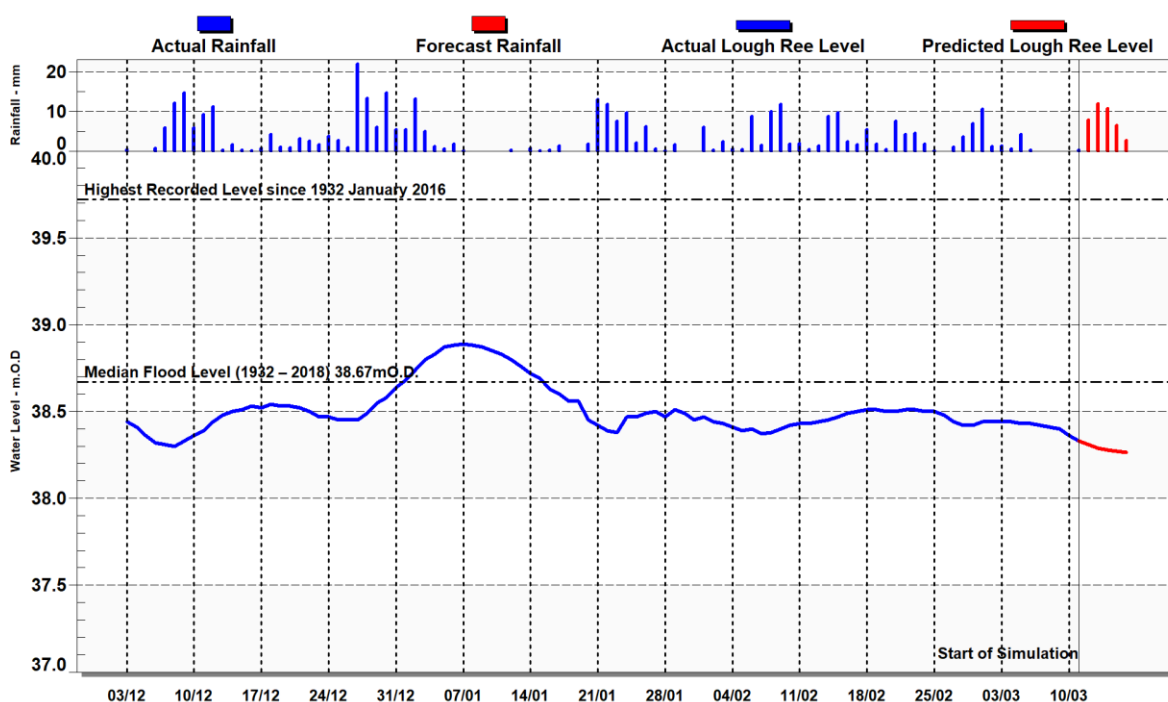
Historical Peak Levels

| 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)

38.31 m.O.D. on 12 March 2024

Lough Ree Level from 03 December 2023 to 16 March 2024



Assumptions

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

All levels refer to metres above Poolbeg Ordnance Datum



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Lough Derg

Date of Prediction: 11 March 2024

Catchment Rainfall

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

12 March 2024 to 16 March 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.

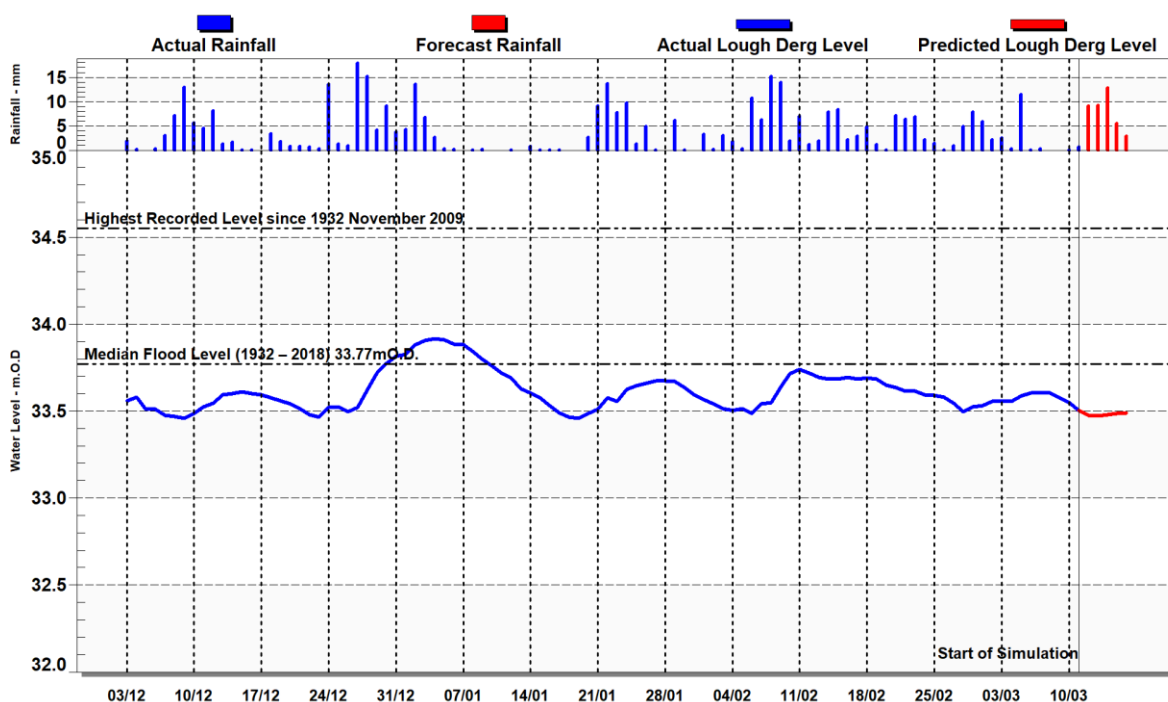
Historical Peak Levels

| 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)

33.49 m.O.D. on 16 March 2024

Lough Derg Level from 03 December 2023 to 16 March 2024





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Assumptions

Total combined Parteen Discharge ranging between 380m³/s and 395m³/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