



Shannon levels this morning 18/02/2019:

Gauge Location	Level m.O.D.	Highest Level since 1932	
		m.O.D.	Date
Lough Allen	48.63	50.85	Jan 65
Lough Ree	38.21	39.72	Jan 16
Athlone Downstream	37.25	39.08	Jan 16
Lough Derg - Portumna	33.67	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 12mm of rain is forecast for the Shannon catchment from Lough Allen to Lough Ree over the next 5 days.

Approximately 11mm 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: 18 February 2019

Catchment Rainfall

Historical: based on daily records for Lough Allen in OISHYDRO (ESB Database)
19 February 2019 to 23 February 2019: based on Met Éireann 5 day forecast for Lough Allen catchment.

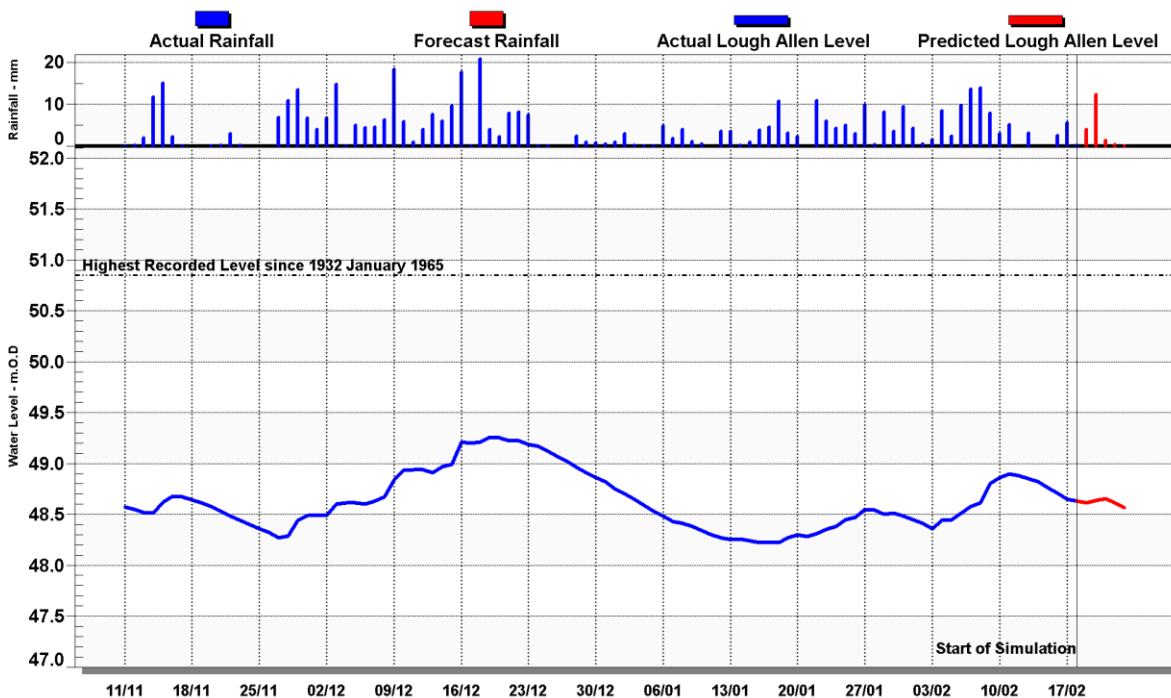
Historical Peak Levels

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)

48.65 m.O.D. on 21 February 2019

Lough Allen Level from 11 November 2018 to 23 February 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: 18 February 2019

Catchment Rainfall

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

19 February 2019 to 23 February 2019: based on Met Éireann 5 day forecast for Lough Ree catchment

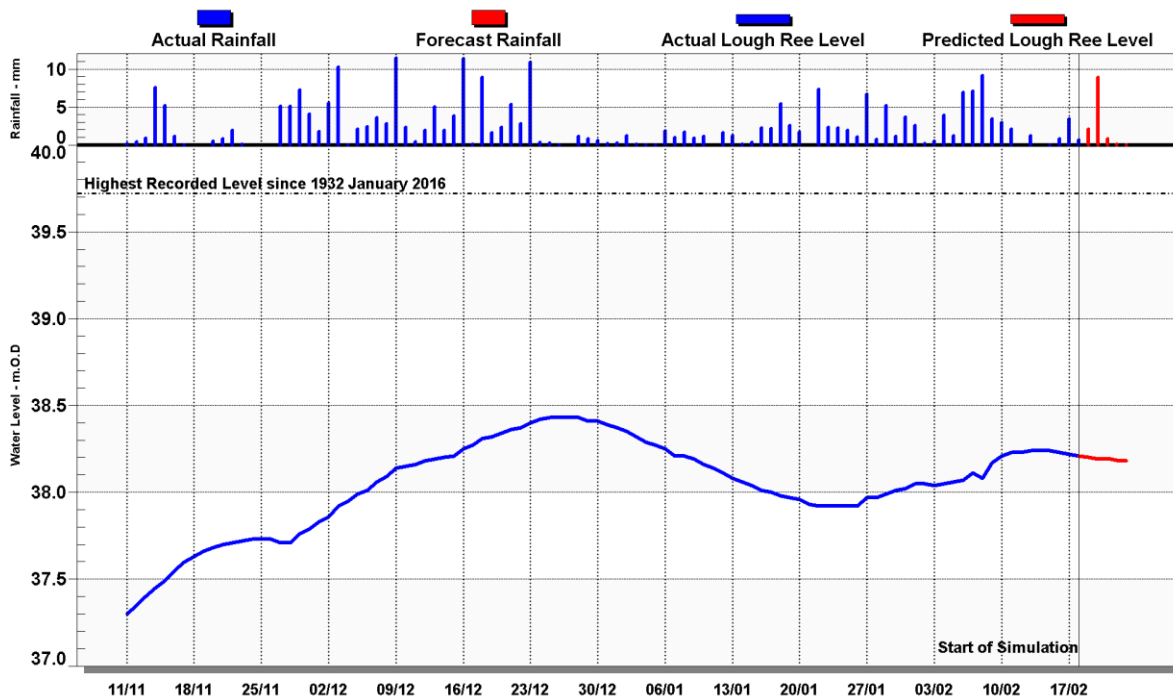
Historical Peak Levels

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)

38.20 m.O.D. on 19 February 2019

Lough Ree Level from 11 November 2018 to 23 February 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: 18 February 2019

Catchment Rainfall

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

19 February 2019 to 23 February 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.

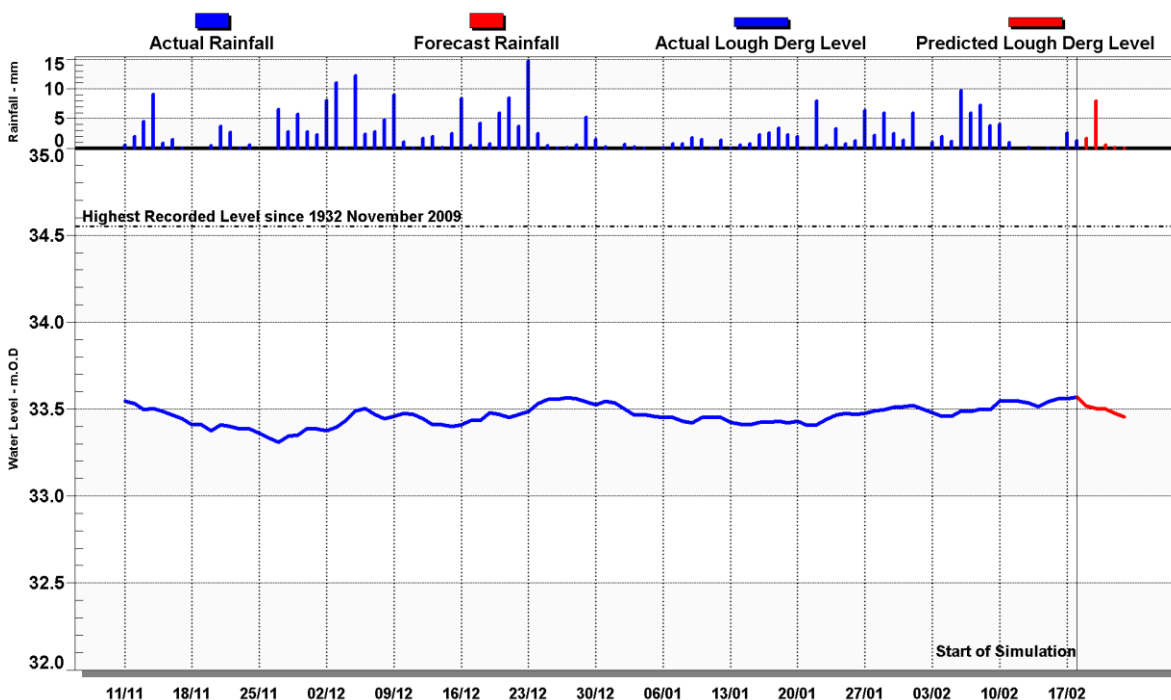
Historical Peak Levels

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)

33.52 m.O.D. on 19 February 2019

Lough Derg Level from 11 November 2018 to 23 February 2019





Energy for
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Assumptions

Total combined Parteen Discharge ranging between 250 and 350 m³/s throughout forecast period.

All levels refer to metres above Poolbeg Ordnance Datum