

# Digital Archive of Extreme UK Rainfall Events

A new digital archive of extreme rainfall events has been compiled from the publication *British Rainfall*, which ran from 1860 to 1991. Over the period 1866-1968 it included a chapter entitled **Heavy Rain on Rainfall Days or Heavy Falls in 24 Hour**, which provided detailed information on extreme rainfall events including:

- 24hr observations from 9am-9am
- Listings of all depths over a specified threshold (over 28,000 records)
- Descriptions of the event from observers including a summary of the weather conditions, the characteristics of the rainfall, ensuing floods and damage
- Over 250 Isohyetal maps and photographs

## Example data for 11<sup>th</sup> November 1929

### Text extract

*“The rainfall of November 11th exceeded an inch in the western half of England and Wales and along a broad strip of the south coast from the Isle of Wight to Tunbridge Wells. There was more than 2 inches over Dartmoor, Exmoor and Bodmin Moor, the greater part of Wales, the English Lake District and over a part of the extreme south of the Pennines from Buxton to Leek. Falls of more than 4 inches were confined, apart from South Wales, to small areas in the English Lake District and in Snowdonia. The distribution of the heavy rainfall in the Rhondda Valley was apparently due to a small disturbance subsidiary to the main depression.”*

### Illustrative photo



### Rainfall observations

Date	County	Gauge Name	Rain-fall in	Rain-fall mm	%
11/11/1929	Glamorgan	Glyncorrwg Colliery	4.93	125.2	5.8
11/11/1929	Glamorgan	Ystradyfodwg (Tvntyla Hospital)	3.09	78.5	4.4
11/11/1929	Glamorgan	Treharris Service Res.	3.60	91.4	5.6
11/11/1929	Glamorgan	Mountain Ash (Darranlas Reservoir)	3.89	98.8	5.0
11/11/1929	Glamorgan	Rhondda (Castell Nos Res.)	4.72	119.9	5.1
11/11/1929	Glamorgan	Rhondda (Lluest Wen Filter)	6.20	157.5	6.0
11/11/1929	Glamorgan	Rhondda (Lluest Wen Res.)	8.31	211.1	7.2
11/11/1929	Glamorgan	Treherbert (Tynywaun)	5.25	133.4	5.0
11/11/1929	Glamorgan	Treorchy Pumping Station	3.63	92.2	4.7
11/11/1929	Camarthen	Llyn-y-fan Fach (Nant Coch)	3.02	76.7	3.4
11/11/1929	Camarthen	Llyn-y-fan Fach (Troed-y-foel)	2.55	64.8	3.5
11/11/1929	Brecon	Ystradgynlais (Ynisedwyn House)	3.52	89.4	5.1
11/11/1929	Brecon	Swansea W.W. (Nantyrwydd)	3.32	84.3	4.0

### Isohyetal map

