

## RAINFALL AT Garthbibilis Bwlch Twmbyd

Lat.

Lon.

County of Montgomery

Rain Gauge, by

Observer G. J. Symons, Esq., F.R.S.

Sworn - 5.

Diameter .....	5"										
Height .....	1. 2										
Altitude .....	1368										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January .....	1.10 (1.00)	10.55 (11.00)	11.60 (6.00)	17.60 (6.00)	6.60 (1.20)	11.60 (1.20)	6.60 (1.20)	6.60 (1.20)	6.60 (1.20)	6.60 (1.20)	6.70
February .....	5.70 (5.00)	6.50 (6.00)	7.60 (7.00)	13.70 (10.00)	3.20 (5.00)	3.20 (5.00)	3.20 (5.00)	3.20 (5.00)	3.20 (5.00)	3.20 (5.00)	3.10
March .....	19.00 (8.00)	11.50 (6.00)	2.00 (4.00)	2.90 (4.00)	3.40 (5.00)	3.40 (5.00)	3.40 (5.00)	3.40 (5.00)	3.40 (5.00)	3.40 (5.00)	4.60
April .....	3.10 (3.00)	6.30 (6.00)	1.10 (1.00)	3.40 (3.00)	3.60 (3.00)	3.90 (3.00)	4.60 (4.00)	4.60 (4.00)	4.60 (4.00)	4.60 (4.00)	4.40
May .....	9.80 (9.00)	3.50 (3.00)	3.30 (3.00)	6.30 (6.00)	5.90 (5.00)	8.30 (8.00)	3.30 (3.00)	1.70 (1.00)	1.70 (1.00)	1.70 (1.00)	7.20
June .....	5.60 (5.00)	9.30 (9.00)	6.00 (6.00)	1.50 (1.00)	4.40 (4.00)	3.10 (3.00)	1.60 (1.00)	3.20 (3.00)	3.20 (3.00)	3.20 (3.00)	1.60
July .....	5.60 (5.00)	10.20 (10.00)	5.70 (5.00)	6.10 (6.00)	2.50 (2.00)	6.80 (6.00)	4.70 (4.00)	11.80 (10.00)	4.70 (4.00)	4.70 (4.00)	4.30
August .....	10.80 (10.00)	8.10 (8.00)	6.40 (6.00)	2.70 (2.00)	5.20 (5.00)	2.90 (2.00)	3.80 (3.00)	13.60 (10.00)	13.60 (10.00)	13.60 (10.00)	13.80
September .....	6.60 (6.00)	6.40 (6.00)	13.20 (13.00)	6.20 (6.00)	8.90 (8.00)	7.10 (7.00)	5.20 (5.00)	3.70 (3.00)	3.70 (3.00)	3.70 (3.00)	7.30
October .....	18.25 (18.00)	7.90 (7.00)	10.30 (10.00)	6.90 (6.00)	14.30 (14.00)	7.80 (7.00)	2.90 (2.00)	4.50 (4.00)	4.50 (4.00)	4.50 (4.00)	10.60
November .....	16.25 (16.00)	11.20 (10.00)	11.70 (11.00)	6.40 (6.00)	8.10 (8.00)	4.60 (4.00)	4.70 (4.00)	16.00 (15.00)	16.00 (15.00)	16.00 (15.00)	5.10
December .....	7.50 (7.00)	12.40 (12.00)	10.30 (10.00)	2.40 (2.00)	2.70 (2.00)	13.20 (13.00)	9.40 (9.00)	9.90 (9.00)	9.90 (9.00)	9.90 (9.00)	8.90
TOTALS .....	67.25	108.05	88.10	81.70	72.70	71.40	53.40	76.80?	79.60		

1888 January February December Frozen

roughly  
months distributed for average (x. 10)

17  
RAINFALL AT Garthlibio Welsh Tonlyd

Lat.

Lon.

County of

Montgomery

Rain Gauge, by

Observer

G. Symons Esq F.R.S.

Seven - 5. Monthly

Diameter .....	5									5			
Height .....	12									10			
Altitude .....	1370									1370			
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.		
January .....	9.30	11.60	14.00	6.55	9.00	10.80	8.80	(8.70)	7.80	16.40	10.300		
February .....	(6.10)	.00	7.50	9.80	14.00	2.45	2.00	(8.70)	10.00	3.90	6.580		
March .....	(10.00)	16.10	6.80	4.00	2.60	7.70	13.80	18.30	11.80	6.60	4.20	8.500	
April .....	3.00	3.20	5.10	1.40	8.30	7.20	5.20	9.20	4.90	8.00	5.550		
May .....	5.20	5.30	12.50	7.30	9.70	2.10	.00	3.80	10.50	5.60	6.200		
June .....	4.80	7.60	13.00	9.00	12.00	5.00	6.40	10.30	8.10	3.00	7.920		
July .....	11.50	6.20	5.60	8.80	11.10	11.30	9.20	8.70	2.50	2.60	7.750		
August .....	10.90	11.90	10.80	10.20	9.00	16.20	11.70	13.10	9.70	4.80	10.830		
September .....	8.60	9.00	11.00	13.40	7.10	4.60	15.20	9.00	5.10	6.70	8.970		
October .....	9.20	13.20	3.00	10.50	14.20	10.40	8.60	4.30	10.80	5.30	8.950		
November .....	18.60	13.50	5.30	9.20	15.10	17.00	5.90	12.30	11.30	9.40	11.76.0		
December .....	2.50	11.50	8.05	8.70	13.85	14.00	(0.00)	11.20	13.70	10.00	10.340		
TOTALS .....	99.70	99.80	?	99.85	97.45	131.05	114.05	(0.30)	112.40	101.00	79.90	103.650	

1892 October much too small.

1897 New gauge Oct: 7.95 in. Nov? 5.50 in. Dec? 10.40 in.

1891

Dec 1st estimated

## RAINFALL AT Garthbilia Burgh Tonypandy

Lat.

Lon.

County of Montgomery

Rain Gauge, by

Observer A.S. Wallis &amp; Dr. Mill

Seven, L. bank - 5.

Mr. David Jones.

Diameter ..	5										
Height ....	1.0										
Altitude ..	1370 ft										
Year ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	M. MEAN.
January ..	14.20	(6.90)	11.20	9.30	14.60	4.00	10.20	4.00	4.90	5.50	7.490
February ..	11.70	{ 11.90 5.00 } (4.00) 10.00	13.10	(6.60)	6.00	9.50	4.00	(6.00) 13.20	3.00	6.890	
March ..	4.70	5.20	(6.00)	10.50	(3.00)	11.70	8.80	5.30	(7.20)	4.90	6.720
April ..	7.20	3.80	6.60	4.80	6.10	5.90	.90	4.20	3.80	9.80	5.320
May ..	9.30	1.90	3.70	6.20	3.80	1.10	6.70	5.60	5.00	4.10	11.740
June ..	10.50	4.30	5.90	3.30	4.90	1.50	4.40	13.60	3.10	4.30	5.580
July ..	3.10	6.50	7.40	8.60	2.40	.90	2.90	6.70	6.90	4.70	5.010
August ..	8.60	7.30	1.60	12.00	5.00	8.10	5.50	12.70	5.20	1.80	6.780
September ..	3.00	5.00	9.10	9.90	1.90	2.70	2.10	1.70	9.10	3.40	4.790
October ..	11.00	8.20	4.50	14.30	14.40	3.20	9.00	10.90	4.80	10.20	8.060
November ..	10.40	11.90	5.40	10.10	4.60	6.10	8.20	5.80	6.10	5.00	7.360
December ..	16.00	17.30	10.00	5.30	5.80	4.30	9.30	9.40	8.80	9.60	9.580
TOTALS ..	109.70	83.30	75.40	107.40	53.10	55.50	77.60	84.00	70.90	66.40	76.220

1907 New g. Feby.

Inspected VIII.96 H.W. g. quite worn out. Funnel rather unsteady sloping to W.  
 Inner can adhering to outer can. No appreciable leak.

## RAINFALL at Garthbibo Bulch Tomlyd

County of Montgomery

Observer G H R Mill

River Basin Severn-Leg Bank Tributaries 5

David Jones

Rain Gauge, by

Diameter ...	5	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS. Total 19
Height .....	1.0											
Altitude ...	1370 ft											
January ...	13.00	2.30	(8.90)	(9.70)	9.50	10.40	10.20	5.60	5.10	7.75	26.04	
February ...	8.00	9.60	14.90	(2.90)	10.80	9.80	12.00	8.46	2.61	9.60	1.20	24.92
March .....	1.60	5.50	14.10	9.40	9.90	1.80	3.54	4.70	3.50	6.40	18.14	
April .....	5.50	4.10	.60	8.40	2.00	1.60	5.10	3.36	2.10	8.90	13.40	
May .....	4.90	1.90	1.60	4.80	1.70	2.00	4.40	4.00	1.80	(2.00)	12.20	
June .....	6.80	4.40	6.30	6.40	2.30	.60	1.80	2.80	1.10	(3.00)	8.70	
July .....	7.50	1.10	7.20	.70	4.80	4.10	3.80	2.10	4.20	(1.00)	11.10	
August .....	9.20	4.90	12.60	4.20	3.70	4.50	2.70	9.80	2.90	2.30	17.70	
September ...	1.70	6.80	3.10	2.30	4.00	.80	1.90	8.30	10.20	4.70	25.10	
October ...	4.00	9.20	5.30	5.00	2.20	1.60	12.80	10.00	3.90	2.10	28.80	
November ...	10.70	12.40	(6.80)	10.30	9.80	3.90	8.10	7.40	2.60	7.70	25.80	
December ...	12.20	10.60	(15.10)	(5.50)	11.60	11.00	9.30	4.30	11.50	12.10	37.20	
TOTALS ...	85.10	72.80	87.50	69.60	72.30	51.00	72.10	62.30	58.50	(56.20)	249.10	

1916, 17, 19 months lost using 425) for purpose of averages.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.

## RAINFALL at Gartlelio (Bwlch Tomlyd) (M.)

County of Monmouthshire.

Observer: British Rainfall Organization.

River Basin 5 miles - 5

David Thomas,

Paid Obs. John R. Jones - Air Ministry (1928).

9.25 { Bradford Rain Gauge, by  
 round 10.530 New Bradford Capacity 27 inches  
 convert elysophy Rod + 2 measures cent are fixed on 23rd Feb 1928.

Diameter ...	5"											
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS.	1920-30 TOTALS
January	6.40	14.00	12.20	9.00	4.10	8.50	9.00	(10.00)	(14.30)	3.10	11.40	109.00
February	9.90	140	11.40	12.00	2.00	13.50	8.50	(6.00)	14.60	(1.20)	1.90	80.40
March	6.00	5.20	3.80	1.50	3.50	5.00	4.60	(9.00)	4.10	1.10	4.60	47.00
April	7.90	2.10	2.00	5.00	5.10	6.10	3.00	(4.50)	3.80	2.20	4.50	46.20
May	5.50	2.70	90	4.00	9.00	13.00	7.70	1.90	1.40	3.10	6.80	55.80
June	3.90	40	4.90	1.50	6.50	3.30	4.80	(10.00)	9.50	4.80	5.60	52.20
July	12.60	1.10	7.10	8.00	8.00	7.00	7.80	(5.00)	4.50	4.00	3.00	68.10
August	5.50	9.30	6.40	(9.00)	10.10	12.10	6.00	(12.00)	9.00	(7.60)	7.80	94.80
September	4.20	3.60	7.70	(7.00)	11.50	9.80	5.10	(9.00)	3.10	(3.20)	11.30	75.50
October	2.20	1.40	1.90	13.50	13.00	8.60	12.00	(11.00)	14.60	13.20	11.70	103.10
November	1.50	6.10	4.00	(6.50)	7.10	(4.50)	14.30	(10.00)	14.00	15.40	9.50	92.90
December	7.00	9.50	10.00	7.50	14.10	(9.60)	1.40	(5.00)	(6.00)	16.40	7.80	94.30
TOTALS	79.40	55.30	72.30	(84.50)	93.60	98.00	84.20	(93.40)	(8.90)	74.30	84.90	919.30

1920. New gauge first.

1923 Aug. + Sept: corr. by maps, now estd. Gauge frozen.

Hill top high 1/2 mile W.

Inspected 25.9.25. S. on flat open moor. High land E. W. slight rise to S. falls away somewhat to N.E. Exposure good.

1925. Nov &amp; Dec 9 frozen total distributed by map.

1927. Monthly values except May est'd from maps. Record n.r.

1929. Feb. Aug. Sept adjusted by corr. stations.

Position of Station on reduced Ordnance Survey Map, 2 miles to 1 inch Series			No. of Map	Reference No.				
Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge	
1922			Glanfair C.	9 mi	E	Glanfair	3 mi	E
1923	52° 40'	3° 30' W		12 mi	S.E.		4 mi	S.E.

RAINFALL at Gathlilio (Welch Toneyd)County of MontgomeryObserver J.R.Jones for MORiver Basin S. Severn - Left Bank

Type of Gauge.....

Annual Average 71.2 in. based on 20 years obs. un-weighted. Period of average 1886-1915 Ref. S769.00 ± 2.7

Diameter	5	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
Height	1.0											
Altitude	1200											
Year		1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	
January	5.50	6.80	6.90	5.60	4.50	11.30	8.50	11.70	10.80	(6.50)	7.800	
February	(8.00)	9.95	(10.00)	7.34	11.70	7.80	(9.00)	5.50	(7.00)	5.00	6.620	
March	9.95	5.50	3.30	(5.50)	(3.60)	5.60	(2.10)	3.40	5.00	7.60	4.315	
April	5.60	11.40	7.45	(4.00)	(6.30)	3.40	5.60	7.60	3.40	5.60	4.635	
May	(8.70)	9.50	7.90	(4.80)	(1.50)	2.80	3.40	7.80	1.30	(3.00)	4.370	
June	7.80	2.20	4.50	(3.80)	7.60	6.60	4.60	7.80	3.60	2.10	5.040	
July	(7.30)	9.00	(4.50)	(2.50)	(1.50)	9.90	3.60	8.50	9.50	4.60	6.086	
August	7.80	9.95	9.95	5.60	2.10	4.50	2.10	9.60	6.80	3.00	4.340	
September	(3.70)	7.80	(1.20)	(6.70)	11.40	5.60	3.60	7.80	3.40	5.70	5.680	
October	(2.40)	10.80	9.50	(8.13)	11.30	7.80	6.60	11.70	6.50	(9.00)	8.173	
November	11.70	7.80	(1.90)	3.40	(7.70)	6.60	4.00	12.00	11.70	11.70	7.850	
December	5.60	8.50	(2.80)	11.40	(5.80)	5.60	3.40	6.80	4.50	(6.0)	6.050	
TOTALS	75.05	(81.20)	(46.80)	61.71	(74.96)	77.50	(56.80)	93.20	71.50	(69.99)	70868	

1931. Partly estimated from maps.

1933. not printed, months adjusted by maps + sun. stat.

1934. monthly values adjusted by maps + surrounding stations

1936. months adjusted by maps + for date of reading as necessary.

1937. Feb. + Mar. allocated by nearby sites.

1940. Jan, May, Oct + Dec estimated from maps.

187

Position of Station on reduced Ordnance Survey Map, } No. of Map. 2 Reference No. ....  
1 mile to 1 inch Series

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge	Direction
1931.			Planfair	15 m.	S.E.	Llangadfan	8 m.	S.E.

Station No. M 4254

RAINFALL at Garthbebie (Bwlch Tomlwyd)

41

County of Montgomery Observer J. R. Jones for M.O.

River Basin 5 - Severn, left Bank

Type of Gauge

Annual Average 7.0 in. based on 3 years obs. un-weighted. Period of average 1881-1915 Ref. S.

File No. 749.027.27

Diameter	5	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means (1941-50)
Height	10											
Altitude	1250							1250				
Year												
January	(4.70)	9.60	11.70	9.50	(8.00)	9.10	(5.00)	11.70				58.40
February	(7.00)	4.60	9.60	(5.00)	11.20	(13.00)	(2.50)	5.60				52.90
March	7.60	6.80	(3.30)	(1.50)	4.60	(3.80)	11.70	4.60				39.30
April	3.70	4.60	(3.70)	3.60	4.80	1.00	10.10	2.10				31.50
May	6.00	9.60	6.60	(4.00)	7.00	3.20	5.60					42.00
June	3.60	4.6	7.50	(6.60)	(8.60)	5.70	4.00					36.46
July	4.60	7.60	6.00	(6.70)	(3.90)	6.10	4.50					39.40
August	9.60	9.50	9.60	(5.50)	6.08	7.60	.95					48.83
September	2.60	7.60	11.10	(8.20)	8.07	12.50	3.60					53.67
October	7.70	9.00	8.70	11.20	9.50	3.00	2.00					51.10
November	3.60	1.82	7.60	(12.00)	.70	10.00	(10.00)					44.72
December	5.70	7.60	6.80	(8.50)	8.60	8.70	9.60					55.50
TOTALS	66.40	77.78	(62.20)	(62.30)	81.05	84.50	(69.55)	Temp.				553.78

1941 Jan + Feb app. for snow

Sept + Oct app. by ref. to monthly maps

April cold

1943 n.p. high. Mar-Apr. amended

1944 n.p. 100 much wet. Feb, Mar, May - Sept, Nov phasid. Dec. est'd.

1945 Jan est'd for snow. June + July affectionate

1946 Feb. est'd. March pastest'd.

1947 Jan, Feb, Nov n.p.

April 1948. gauge moved to 'old den' approx 1½ miles E. sta No 4254/1.

Position of Station on reduced Ordnance Survey Map, 1 mile to 1 inch Series

Reference No. WTB

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge