

RAINFALL AT Pendinas Reservoir

Lat.

Lon.

County of Denbigh

Rain Gauge, by

Observer B. G. Morris, M.A., F.R.S.

Diameter											
Height											
Altitude											1249'
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January											
February											
March											
April											
May											
June											
July											
August											
September											
October											
November											
December											
TOTALS											36.76 33.69 34.38 40.14 38.54

* Record obtained by Mr. S. E. Ashmore, examined, & supplied to M.O.S. & I.C.I. 1954
 (268) f.E. 16320/53. Ann. values only available up to 1901, then monthly.

107

Pendine

4295/4 4295/4

RAINFALL at Pendine Res.

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County of

Observer Baybo Water Co *

River Basin

Type of Gauge

Annual Average.....in. based on.....years obs. un-weighted. Period of average.....Ref.....

Diameter											
Height											
Altitude											
Year	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	Means
January	3.57	2.42	6.72	4.52	.99	5.72	1.59	2.06	2.98		
February	1.86	1.93	3.53	5.08	1.99	3.02	1.88	2.86	1.25		
March	4.23	2.86	6.51	3.30	5.33	2.61	1.59	4.34	3.30		
April	2.97	3.10	2.64	1.81	4.18	1.13	3.77	4.99	3.59		
May	1.63	5.14	5.11	3.22	1.17	3.82	3.36	3.81	1.38		
June	2.75	1.89	2.24	2.02	4.20	1.41	4.93	3.14	5.08		
July	3.27	1.99	5.55	2.46	3.35	.80	2.37	4.88	4.38		
August	3.06	4.43	5.33	6.01	6.72	3.18	3.82	4.99	3.93		
September	1.21	2.20	6.11	2.91	2.46	1.21	1.06	4.93	4.70		
October	3.92	5.69	11.39	1.75	3.46	5.84	9.80	3.04	5.09		
November	3.75	3.18	4.15	2.31	5.49	3.65	3.42	2.58	1.73		
December	5.63	4.24	3.53	3.40	1.07	4.04	3.73	3.33	4.89		
TOTALS	42.45	37.85	39.07	62.81	38.79	40.41	36.43	41.32	44.95	42.30	

* Record obtained by G. S. E. Ashmore, examined, part estimated, & supplied to M.O.B. 1901-2. All monthly totals approximate. 1895-1900 - Ann. totals only. 2/54.

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

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

BRITISH RAINFALL ORGANIZATION

RAINFALL at Pendine Res.

10

County of

Observer B. Symonds Water Co. ^X

River Basin

Type of Gauge

Annual Average.....in. based on.....years obs. un-weighted. Period of average.....Ref.....

Diameter											
Height											
Altitude											
Year	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	Means
January	2.75	.80	4.56	4.05	2.29	4.81	2.47	(2.41)	2.88	4.02	
February	4.08	2.48	(3.37)	1.79	(4.11)	5.90	3.96	(1.76)	3.28	(2.58)	
March	1.50	1.95	5.05	5.18	(3.57)	1.54	(3.53)	(3.44)	1.88	(6.70)	
April	(3.70)	1.52	.54	4.72	1.27	2.22	2.38	3.03	2.48	3.42	
May	3.01	.81	3.00	3.86	2.78	3.00	4.12	3.78	4.02	1.30	
June	3.82	4.32	(4.92)	2.22	2.84	.72	(2.43)	2.57	2.21	2.86	
July	3.80	1.18	4.00	2.27	5.68	5.02	2.03	2.91	3.59	2.37	
August	4.58	3.51	8.00	2.70	(2.68)	4.00	(2.59)	8.66	2.95	4.30	
September90	(4.30)	2.28	2.35	2.81	1.06	3.99	1.42	8.40	3.19	
October	4.87	3.77	(4.61)	5.14	2.05	(3.08)	7.20	6.44	2.61	5.73	
November	5.91	4.41	3.36	4.07	4.43	3.10	3.68	3.76	3.55	2.79	
December	7.25	7.20	4.42	2.61	9.17	7.90	2.30	(2.13)	6.72	(6.78)	
TOTALS	46.17	36.25	(48.11)	40.96	43.68	42.35	(40.68)	(42.25)	44.07	(46.04)	

Back record - see earlier 10yr sheets. - per S.E. Bushmore X 7/254.

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

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

BRITISH RAINFALL ORGANIZATION

RAINFALL at Pendinas Reservoir.

20

County of Denbigh

Observer Brynle Water Co.

River Basin 1-Mile

Type of Gauge M.O.

Annual Average.....in. based on.....years obs. un-weighted. Period of average.....Ref.....

421614135

Diameter							5"			
Height							0' 6"			
Altitude							1249			
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929
January	4.15	(4.39)	4.41	3.11	(3.30)	4.02	4.00	(4.64)	6.83	1.84
February	2.97	(1.72)	3.33	(7.15)	1.50	6.52	2.60	2.70	4.27	.70
March	5.34	(2.77)	2.66	1.95	(1.60)	1.80	.76	6.05	3.17	1.16
April	7.13	(1.15)	3.77	3.48	2.97	3.91	1.62	(4.57)	3.27	1.27
May	4.73	2.30	(1.26)	5.03	6.15	(3.33)	3.80	1.81	2.16	2.78
June	3.26	.55	3.13	2.13	2.12	.15	2.30	7.25	4.82	3.29
July	6.71	1.39	4.42	(2.72)	6.07	3.17	5.42	5.49	1.93	2.52
August	2.80	3.73	(4.10)	4.39	5.00	4.75	3.81	8.22	4.24	4.33
September	3.02	1.35	(4.33)	3.71	5.53	5.27	3.29	5.25	3.19	5.50
October	4.24	3.29	.96	6.75	4.56	5.11	3.32	4.72	6.20	5.62
November	1.43	3.63	(2.25)	3.63	3.52	4.37	7.64	6.58	7.16	6.67
December	3.44	5.14	(5.62)	6.05	5.22	4.01	1.45	(3.20)	1.58	3.16
TOTALS	49.22	(30.91)	(40.24)	50.10	47.54	45.91	39.61	(60.80)	49.08	39.09
								57.30	14.854	3.866
										421614135

Back years Feb 1926 - Dec 1940 and 1949. Rainmeters except last two in distant sp. 1927
 are so erratic that three months a little lower
 coming this year. H. Howell 11/49

Back record 1895 - Jan. 1926 supplied by S.E. Ashmole 1/2/54, also revised monthly values up to Dec. 1953, shown
 in red. (Brackets indicate uncertainty - snow etc.). Accepted by H. Howell

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

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

BRITISH RAINFALL ORGANIZATION

RAINFALL at Pendine Reservoirs

County of Denbighshire

Observer D. M. G. Waters Co.

River Basin 1 - Dee

Type of Gauge M.O.

Annual Average.....in. based on.....years obs. un-weighted. Period of average

Ref.

400

121614/35

Diameter	5										
Height	0.6										
Altitude	1249										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	3.88	4.29	3.03	3.02	2.34	4.40	5.46	4.64	(7.26)	(3.02)	
February	(4.44)	1.16	3.40	2.63	2.35	4.11	4.87	6.11	4.42	4.21	(3.44)
March	1.96	2.72	2.71	2.99	1.93	3.37	(3.94)	1.16	3.46	3.05	(3.57)
April	4.50	2.01	1.41	4.38	3.07	2.79	4.68	4.43	2.65	2.28	3.05
May	4.79	3.45	1.70	2.44	1.89	2.00	2.76	4.90	2.00	2.12	2.22
June	4.91	1.27	2.53	1.56	4.12	5.32	1.25	3.71	2.21	1.19	
July	3.11	6.89	1.89	2.88	1.33	5.84	1.96	3.82	6.67	4.00	
August	8.10	2.40	1.67	3.78	1.29	4.20	1.06	4.75	2.87	2.95	.94
September	6.03	3.29	(1.40)	1.95	5.42	3.99	1.65	1.20	1.96	3.03	
October	2.05	6.66	4.55	4.53	6.48	2.39	4.51	4.55	5.04	4.90	5.36
November	7.55	2.72	2.27	2.48	7.11	4.90	2.85	4.82	6.27	6.21	8.26
December	7.48	2.62	1.05	7.45	4.69	5.17	(3.34)	5.06	2.50	(2.44)	
TOTALS	52.38	41.92	27.94	37.81	42.96	44.53	(39.93)	40.16	45.06	(40.02)	
	50.57	40.48	26.83	37.27	41.41	43.37	37.54	38.65	41.87	39.01	

1934 5 in. water gauge 1845' O.D. 2 miles S.W. Remains of an shooting box.

1940 February estimated for snow.

Backfall 1931-33 recd 12/49. Reasonable.
Rain-drop 1926-33 in full.

Soft ground. (1926-30 in appendix book)

Red figures - revised monthly totals supplied by S.E. Ashmore 12/1954. (Brackets indicate uncertainty - snow estimation, etc.) Examined & accepted by Mr. Grimley Aug 1955. New gauge.

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

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge
193+			Wrexham	6 mi	E	Mynors	2 1/2 mi E

(Directions checked on map)

Station No. 42954

RAINFALL at Pendine Reservoir

41

County of Denbigh

Observer Bayardo Water Co.

River Basin - Dee

Type of Gauge M.D.

Annual Average in. based on years obs. un-weighted. Period of average Ref.

4000

File No. 421614 35

Diameter	5			547	563						
Height	1' 0"					1' 0"					
Altitude	1249					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	(6.40) 3.60	(4.60) 3.20	8.69	4.29	(3.40)						
February	4.71 3.71	2.03 (3.09)	5.65 (1.78)	4.24	2.72	4.59	3.78	10.48	2.95	1.66	
March	3.48	2.05	1.33	1.19	1.14	1.94	(8.70) 0.82	(8.70)	2.26	1.64	5.96
April	2.14	2.41	1.74	2.07	2.16	7.68	4.30	2.90	3.63	4.40	
May	3.25	4.03 0.89	3.89 0.43	3.34	2.63	3.36	3.58	4.60	1.99	3.49	1.74
June	0.82	5.7	2.82	2.47	2.73	4.17	3.01	4.52	0.84	1.42	
July	2.41	3.25	2.67	1.86	2.48	2.68	4.19	3.78	3.58	4.22	2.86
August	4.28 2.84	3.92 2.74	2.99	2.33	2.95	7.06	0.62	3.93	2.00	4.84	
September	0.62	2.63 2.69	5.90	5.12	2.02	5.63	6.92 2.43	2.78 2.48	2.50	1.69	6.07
October	3.89	2.43 2.45	3.94	5.50	5.78	2.08	2.15 1.20	2.44 2.33	5.21	3.52	
November	3.95	1.42 1.39	1.42	3.77	7.10	0.71	7.75	6.63	3.06	5.83	5.00
December	2.17	5.32 5.78	1.79 1.62	2.84	4.67	5.08	3.64 2.91	5.20	4.14	3.04	
TOTALS	38.19 33.81	53.22 32.05	39.76 38.14	39.19 38.64	35.79 34.75	51.65 49.91	44.46 (43.59)	45.72 44.69	38.48 38.48	12.40 12.40	

1941 gauge sited. Site Warkins Tower 1,843. O.D. 2 m SE (Radius of shooting box.)

1947 Few snow man. used for snow

1947 Alt. of gauge above ground is 1' 0". See one LGA, fl 421614/35

1949 Gauge has been at 1 ft since 1935. (See one LGA, fl 421614/35)

1952 Correction in new table as result of letter (no. 260) from S.E. Atkinson. Further amended at 260 fl 1632/53.

4000A 5000A 2000A 2000A 4000A 3000A

Red figures = revised monthly totals supplied by S.E. Atkinson 1954. (Brackets indicate uncertainty - snow estimations etc.) Estimated & accepted by Mr. Grindley.

Equation applied 1947-52 following by Regressional method

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

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge
1941			Wrexham	6 m	E.	St. Helena	2½ m E.

Wretham Hist.

Station No. 429.5 4

RAINFALL at (Pendine Reservoir)

County of Dorsetshire

Observer Brynbo Water Co.

River Basin

1 - D

Engineer^x

Type of Gauge.

H-O, Miller inspection

Annual Average *in.*, based on *years obs.*, un-weighted. *Period of average*.

2 hours 25 sec avg..... 36000 miles on..... years 600. avg assignments. 2 cars of average. 1946-50 677874/22

File No. 42-1014 3-5

Diameter	5"			S47	053						
Height	1' 0"				1						
Altitude	1249'				51						
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January	2.46	(4.01)	1.16	3.19	3.16	5.39	2.83	4.11	5.73	7.00	
February	4.85	0.98	2.69	3.32	3.35	0.95	3.95	5.79	1.60	5.82	
March	6.42	0.99	1.37	2.69	3.27	2.70	2.26	1.96	2.35	2.98	
April	2.36	2.09	3.49	1.12	1.62	2.38	0.53	1.19	5.64	2.35	
May	4.28	3.88	3.05	3.78	4.76	0.82	2.32	3.16	2.35	2.14	
June	1.84	1.46	2.71	4.16	4.26	2.62	1.30	4.99	2.46	1.68	
July	2.18	2.20	4.01	3.50	0.49	5.16	6.84	4.15	3.42	3.47	
August	5.83	3.15	2.87	5.47	1.16	8.23	6.97	3.20	1.39	4.37	
September	3.21	4.45	3.81	3.50	2.25	3.69	9.62	4.80	0.29	6.28	
October	1.60	7.06	1.64	6.31	2.78	2.36	3.55	3.36	4.90	9.71	
November	9.68	3.58	2.90	9.03	3.12	1.88	3.12	1.86	5.74	2.45	
December	5.82	(4.57)	1.73	4.00	4.55	4.79	2.86	3.99	8.41	1.47	
TOTALS	45.68	38.42	31.43	50.07	34.69	40.97	46.15	42.56	44.28	57.72	

1941 Sir Walling - see 1841 2nd SE.

* 1955 Taken over by Wrexham W.W. (August) - Name

¹²⁵⁴ Mr. Ashmore states that this station is about 500 rods from Bwitschquawn & is looked after by his brother. ^{Authorised for B.G.}

Transcribed 12-10-95 by Mrs. Debra Clegg - Transcribed from 16 Standard 8-track tapes.

...large wood, small c. like a small shrub, S.G. good, but

young material topes small above bad. Recommended now 20% to level ground.

400/4

1952, Tan Lipee regarded as
unreliable.

Position of Station on Ordnance One Inch map:

No. 43 - 108

National Grid Reference: SE/333 618

Position of Station on Ordnance One-inch map:			No. of Map.....	National Grid Reference N.E.E.S.W.				
Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge	
1941			Wrexham	6 mi	E	Minerva	2 mi	E

Summary of Earlier Records from 10-ma. Sheets:

	1910-19	1926-30	1931-40	1941-50	1951-60
Record D, or d		1926 inc 1927-30	1931-33 1934-39 D 1940 d	1941 d 1942-50 D	