

81

RAINFALL AT Nantyffrith Reservoir

Lat.

Lon.

County of

Rain Gauge, by

Observer Brynsbo Water Co. *

Diameter											
Height											
Altitude								1038'			
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	
January											
February											
March											
April											
May											
June											
July											
August											
September											
October											
November											
December											
TOTALS									33.23	32.58	34.69

* Record obtained by Mr S. L. Ashmore, examined & supplied to M.O.S.B. 12/1952. (2613) f/E 1632053.

All values to 1902 then monthly.

RAINFALL at Nantyffrith Res.

County of

Observer Brynmawr Water Co.

River Basin

Type of Gauge

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

Diameter										
Height										
Altitude	<u>1038'</u>									
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909 Means
January				5.77	3.68	.82	(4.87)	1.48	(1.51)	2.50
February				3.24	4.37	1.69	2.44	1.57	(2.54)	1.12
March				5.94	2.80	4.73	1.92	1.48	3.83	3.26
April				2.14	1.44	3.68	1.01	(3.00)	4.68	3.13
May				4.34	2.43	.94	3.22	(2.94)	(3.90)	1.38
June				1.67	1.51	3.84	(1.25)	(4.16)	2.72	4.42
July				4.37	1.99	(3.24)	(.68)	(1.97)	4.36	3.48
August				4.96	5.19	5.55	2.47	(3.20)	4.60	3.48
September				5.22	2.08	2.03	.97	.71	4.12	4.03
October				10.02	1.49	3.05	4.83	8.62	3.30	(4.65)
November				3.36	2.06	4.67	(3.20)	3.09	2.49	1.41
December				2.98	2.55	.74	(3.47)	3.32	2.98	4.53
TOTALS	39.02	33.79	32.89	54.01	31.59	34.98	(30.33)	(35.53)	(41.03)	37.39

*Record obtained by Mr S.E. Ashmore - see Pending Res. also 4295/4.

]7056

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	Direction

BRITISH RAINFALL ORGANIZATION

RAINFALL at Nantyffrith Res.

County of.....

Observer B. Symonds M.A. F.R.S. Co.*

River Basin.....

Type of Gauge.....

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

Diameter											
Height											
Altitude	1038										
Year	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	Means
January	(2.86)	.61	4.41	(3.99)	2.12	4.80	2.20	(2.28)	2.42	3.34	
February	3.73	2.31	(2.75)	1.64	(3.57)	4.99	3.37	(1.50)	3.07	(2.82)	
March	(1.47)	1.65	4.23	(4.61)	(3.06)	1.21	(3.20)	(3.25)	1.35	(6.54)	
April	(3.54)	1.47	(42)	(4.50)	1.15	2.04	(2.45)	(2.83)	2.37	2.84	
May	2.76	.79	2.90	3.21	(2.43)	(2.45)	8.50	3.57	(4.21)	1.10	
June	(3.86)	3.42	4.23	1.53	(2.31)	.93	(2.20)	2.26	(2.54)	2.35	
July	(3.11)	.90	3.18	2.12	5.27	4.05	1.60	2.50	(2.97)	2.00	
August	4.16	2.75	7.04	(2.23)	(2.00)	3.76	(1.94)	8.08	(2.78)	3.77	
September79	3.70	(2.37)	1.70	2.78	.92	3.81	1.50	(8.09)	2.64	
October	4.03	3.46	3.94	4.60	1.73	(2.97)	6.40	6.01	(2.54)	5.53	
November	(5.97)	3.97	3.10	2.92	4.30	3.38	3.44	3.43	(3.30)	2.41	
December	7.53	(7.01)	4.11	2.19	8.15	6.78	2.05	(1.90)	(6.37)	(5.59)	
TOTALS	(42.81)	32.04	(42.68)	(35.24)	(38.87)	38.28	(36.16)	(39.08)	(41.51)	(40.43)	

Back record - see earlier 10yr sheets - per S.G. Achmore - 12/54.

387.70

Position of Station on reduced Ordnance Survey Map, No. of Map.....

Reference No.....

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

BRITISH RAINFALL ORGANIZATION

RAINFALL at Manyllyfith Reservoir

20

County of Denbigh.Observer Brynglaswater Co.River Basin T. EllesType of Gauge M.O.

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

421614/35

Diameter	5"										
Height	0' 6"										
Altitude	1040'										
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	Means 1930
January	3.38	(3.87)	3.88	2.83	(3.01)	3.83	4.00	4.26	6.45	(1.70)	5.51
February	2.35	(1.86)	3.06	(7.62)	1.41	6.29	2.56	2.35	4.11	(1.74)	.88
March	(4.49)	(2.24)	2.27	1.75	(1.52)	1.18	.76	5.51	2.76	1.14	2.76
April	5.99	(.97)	3.17	3.90	2.78	3.77	1.48	4.31	1.99	1.20	3.79
May	3.40	2.10	.64	4.97	(5.86)	2.83	3.64	1.61	1.99	2.55	1.90
June	(2.74)	.48	2.86	1.80	2.16	.14	2.32	7.51	4.42	2.84	1.42
July	5.42	1.18	3.91	(2.31)	6.18	2.83	4.85	4.24	1.72	2.33	4.68
August	2.72	3.40	(3.72)	(4.19)	4.83	4.03	3.00	(7.85)	3.86	3.68	5.01
September	2.59	1.09	(3.46)	(3.55)	(5.65)	4.61	2.96	4.83	2.82	1.57	5.25
October	4.00	2.80	.76	(6.06)	4.44	4.90	3.21	4.50	5.38	5.24	5.33
November	1.20	3.74	(1.91)	(3.43)	3.26	4.51	7.41 ²	6.55 ⁶	6.58 ⁶	5.91	5.17
December	3.36	4.51	(5.12)	5.51	4.79	3.84	1.25	1.47	2.62	7.22	5.07
TOTALS	41.64	(27.74)	(34.76)	(47.90)	(45.87)	42.76	37.45	56.65	44.77	35.14	48.00

Bdry years 1920-1926 - Ddry 1930 and 1931. (See note re 1930/31 which also applies here.)

H. Ronal. 1/1/49

1920-32 46.68

Back record 1897 - Jan. 1926; also revised monthly totals upto Feb '53, supplied by R.E. Adamson - see Pending sheet.
Values adapted by H. Ronal.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

*Haworth Reservoir*County of YorkshireObserver Brymbo Water Co.River Basin 1-Dee.Type of Gauge 4 ft. 0 in.

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

Ref.....

375

C 1934

f 4216 14/35

Diameter	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
Height					5'						
Altitude					1038' 1040'						
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	
January	3.71 3.44	3.65 3.44	2.50 1.13	2.74 (3.29)	2.23 4.07	4.28 3.01	4.59 (6.41)	4.06 1.15	(7.21) (3.53)	(2.95) (3.63)	
February	4.12 4.44	1.13 2.63	2.88	3.8	4.04 4.04	3.05 5.93	4.72 1.24	3.91 1.05	4.23 3.14	3.00 3.00	
March	1.98 3.99	2.21 4.36	2.165	3.15	1.01 (3.34)	2.93 2.60	(3.74) 1.02	1.05 3.11	3.09 2.07	3.26 3.26	
April	3.99 4.83	4.36 4.20	1.27	3.97	3.18 1.78	2.63 1.69	4.09 3.39	2.24 1.94	2.68 2.06	3.62 2.12	
May	4.56 4.56	3.96 2.99	1.79	2.23	4.91 3.77	1.58 4.39	2.67 1.02	3.12 3.11	2.06 2.07	2.12 1.06	
June	1.17 1.45	2.14 2.79	1.47	3.37	1.01 3.37	2.00 1.00	1.01 1.11	3.42 4.06	6.49 2.67	3.70 2.80	
July	2.97 7.89	6.13 2.47	1.47	2.09	1.01 1.02	1.96 0.87	1.91 1.11	3.42 4.06	6.49 2.67	3.70 2.80	
August	5.69 5.69	3.10 4.14	1.17	1.56 4.51	4.51 3.48	3.48 1.56	1.56 1.11	1.11 1.11	1.79 1.79	2.75 2.75	
September	6.62 1.81	4.32 6.22	4.13 4.12	5.93 4.00	2.18 5.87	4.34 2.00	3.93 4.07	3.93 3.93	4.77 4.59	4.87 4.87	
October	6.81 (1.66)	2.30 2.14	2.19 2.14	2.29 2.02	6.55 6.37	4.47 4.09	2.17 2.26	4.59 4.59	5.90 4.80	7.91 7.91	
November	1.62 1.62	1.72 1.72	1.00 1.00	6.88 6.88	4.42 4.74	4.74 (3.32)	2.17 4.70	4.59 4.70	5.88 5.88	7.91 7.91	
December					3.92 3.92	4.00 2.55	3.92 4.37	2.55 2.55	2.55 2.55	2.55 2.55	
TOTALS	48.52 44.87	38.12 37.37	25.07 24.64	34.66 34.10	39.78 39.02	39.94 38.71	36.93 34.62	34.93 34.24	43.30 40.23	39.12 37.02	

Six waterfalls 10' 45' Q.D. 3 miles SW. Ruins of an shooting box.
1940. Jan & Feb. cold for snow.

Bad year 1931-33 ended 12/49. Reasonable. Sthowell. / (1926-30 in appropriate book).
Rain dep 1926-33 in file.

Bad figures - revised monthly totals supplied by S.E. Ashmore 1/2/56. (Brackets indicate uncertainty - snow estimations, etc.) Examined & corrected by Mr. Gandy.

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
1934			Wrexham	6 m	N E	Frenes Directions checked by map.	2 m

Station No. 12956

41

RAINFALL at Nantuffith Reservoir

County of Denbighshire

Observer Bangor & Water Co.

River Basin 1 - D.E.R.

Type of Gauge M.O.

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

C1934

File No. 4211014 35

Diameter	5			547	796						
Height	1' 0"					1' 0"			1' 0"	0' 6"	
Altitude	1040.					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	(6.30) (3.50)	(4.43) 2.81	5.39 4.64	4.29 2.68	(3.45) 4.06	4.31 3.58	3.60 3.58	10.57 9.50	2.81 2.81	1.58 1.58	
February	3.95 3.56	1.99 2.39	(3.10) 2.34	(1.80) 1.41	3.80 5.52	5.65 (2.82)	(2.82) (3.00)	2.26 2.03	1.60 1.62	5.81 4.88	
March	3.20. 2.25	1.87 2.36	1.83 1.68	1.85 2.10	-86	1.79 (8.26)	(7.51)	1.99. 1.99.	1.86 1.86	1.83 1.83	
April	2.15	2.36	1.68	2.10	2.07	0.76 6.3	3.71 4.12	2.84. 2.84.	3.59 3.58	4.23 4.23	
May	3.20 3.20	3.80 3.80	4.03 3.56	2.55 2.49	3.24 3.24	3.59 4.62	4.79 1.85	3.44 3.44	1.68 1.68		
June	0.89 0.81	0.42 0.54	0.42 2.61	2.13 2.13	2.71 2.37	3.99 3.99	2.90 2.85	4.91 4.50	0.81 0.81	1.50 1.47	
July	2.50 2.47	3.10 3.10	2.73 2.73	1.79 1.79	2.39 2.51	3.97 4.01	3.89 3.89	4.13 4.13	2.84 2.84	2.63 2.63	
August	3.98 3.65	3.57 2.15	2.95 2.95	2.17 2.17	2.84 1.88	6.70 5.19	0.60 2.72	3.96 2.31	1.97 1.68	4.56 4.48	
September	0.58. 2.44	2.59 5.88	6.60 6.60	4.99. 4.99	1.88 1.88	6.31 5.19	2.43 2.72	(1.68) 2.31	5.98 1.68	5.93 5.93	
October	3.67 3.39	2.31 2.31	4.00 4.00	5.11. 5.11	5.58 5.58	2.07 2.07	1.18 1.18	2.38 2.28	5.12 5.12	3.40 3.40	
November	3.74 1.58	1.27 1.27	3.71 3.71	6.80 6.80	7.01 6.63	6.25 6.25	4.58 4.53	2.78 2.72	5.80 5.80	4.85 4.80	
December	2.12 2.12	5.06 5.06	1.78 1.78	2.63 2.63	4.86 4.26	4.86 4.86	3.43 2.84	5.06 4.07	3.21 3.89		
TOTALS	36.40 32.64	33.21 30.25	39.11 37.95	38.20 37.52	36.46 32.60	48.80 47.10	62.51 (41.67)	44.72 41.94	37.76 37.66	41.55 40.70	
	A ✓	B ✓	C ✓	D ✓	E ✓	F ✓	G ✓	H ✓	I ✓	J ✓	K ✓

1941 Jan 2nd Sir Watkins Tower, 2 miles S. of Shotton box, 1834, 0.5 miles away.
 1947 Feb 1 man. arrived for snow!
 1947 Ht. of gauge above ground is 1' 0". See me 2/9/47, fl. 661/664/20
 1949 G. has been at 1ft. since 1935 (See me 6/6/49, fl. 661/664/20)
 1962 Corrections in red made as result of Peter (G. 12.12.49) from S.E. Action, see note for Readings Rec 42195/49
 re further revision of records - 1/1/54. Values accepted.

40004	50004	20004	40004	30004	00104
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Final reading Nov 9th 1943. Previous 2.2.44. Largest reading about 4 ft. (42.5) for that period.
 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	Minstre	2.3 m

A.M. Form 1903. Air Ministry, Meteorological Office.

Wrexham W.W.

Station No. 42951

RAINFALL at (Chantyfford Reservoir) Engineer.

County of Derbyshire

Observer B. Grayson, M.A., F.R.S.

River Basin 1 - Dee

[Wrexham W.W. from Aug 55.]

Type of Gauge M.O. Mk II (anerostat)

Look over responsibility
Name ... adapted to be
in accord with their
other stations.

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

Ref.

677874/26

File No. 1421614 f 22

Diameter ...	5"				547	796					
Height ...	1' 0"	0' 6"			1'		1				
Altitude ...	1040'						51				
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	2.43	3.87	1.18	3.21	3.13	5.59	2.77	4.14	5.25	7.47	
February ...	4.86	1.01	2.76	3.47	3.37	0.97	3.70	5.93	1.34	5.47	
March ...	6.38	0.98	1.38	2.85	2.37	2.71	2.17	1.94	2.23	3.18	
April ...	2.35	2.17	3.54	1.12	1.64	2.55	0.54	1.22	5.58	2.49	
May ...	4.18	3.75	3.03	3.82	4.70	0.88	2.18	3.22	2.58	2.05	
June ...	1.80	1.51	2.78	4.15	4.27	2.32	1.35	5.12	2.99	1.72	
July ...	1.99	2.05	3.88	3.56	0.47	5.14	7.18	4.38	3.11	3.22	
August ...	5.42	2.95	2.78	5.63	1.17	8.95	6.95	3.23	1.79	4.72	
September ...	3.21	4.27	3.92	3.50	2.41	3.70	9.70	4.89	0.26	6.01	
October ...	1.41	7.16	1.63	6.52	2.84	2.34	3.55	3.36	4.38	9.01	
November ...	9.66	3.46	2.87	9.25	3.31	1.87	3.16	1.88	5.70	7.71	
December ...	5.47	4.30	1.72	4.05	4.58	4.70	2.89	4.12	8.64	3.69	
TOTALS ...	48.74	37.70	31.16	51.13	36.26	41.72	46.14	43.43	43.35	56.74	
	D.										

10

Inspected 12.10.55 Mr. D. G. L. Gauge stem missing. Measured certified. Site very safe,
near a reservoir embankment. Recommended move N 70' down bank to
protected spot at foot of embankment, and repair gauge.

Annual Average 39.60 in. based on 27 yrs obs. within 1920-57. 1-2 in. less. Period of average
March 1953, 1956 revised of 2889A, E16320/53 1926-50 Ref. S. - Rejected.
HP 268. F 16320/53. S.E. Astmire supplied revised monthly totals. 1920- Feb 1953 with annual values 1927-1922. 1958 Jan, May & June regarded as uncertain.

Exposure thought to be too open.

Position of Station on Ordnance One-Inch map :

No. of Map. 107

National Grid Reference S.T./24.35.34

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Parish Church.	Distance from gauge.
1951			Wrexham	6 mi E	Minera	2 mi E

Summary of Earlier Records from 10-year Sheets :

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