

99

## RAINFALL AT Llanbadrwlach Penygwely Res.

Lat.

Long.

County of

Denbigh

Sevenoak, L. bank - 4 ft.

Rain Gauge, by

Observer R. O. Mryne Roberts Esq Cl  
J. W. Lucy Esq

Diameter										5	
Height										1 - 6	10
Altitude										1094	
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January										2.03	1.99 6.40
February										3.41	2.54 3.03
March										4.12	1.38 1.23
April										3.28	2.10 3.83
May										.98	5.12 2.96
June										4.28	2.16 3.22
July										.79	1.15 2.57
August										4.55	4.75 1.18
September										3.40	1.36 3.78
October										4.91	1.51 7.42 4.65
November										4.18	2.98 2.77 2.95
December										7.03	5.39 4.93 2.24
TOTALS										36.72	37.67 38.04

## RAINFALL AT Llangadwaladr Penygwydd Reservoir

Lat. .... Lon. .... County of Denbigh

Rain Gauge, by

Observer G. W. Lacey Esq. Cl.

severn, L bank - 4

Diameter ..	5											
Height ....	1	0										
Altitude ..	1094											
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.	
January ..	4.80	3.47	2.78	5.63	4.94	1.24	5.70	2.00	1.82	1.90	34.28	
February ..	4.69	1.26	1.71	3.82	4.22	1.59	3.25	2.11	1.95	1.01	25.61	
March ....	.98	4.32	1.99	8.03	2.11	5.32	1.96	1.68	3.67	3.01	33.37	
April .....	1.79	3.04	2.45	1.37	1.98	2.45	.87	2.80	4.02	3.52	24.24	
May .....	2.27	1.47	3.90	5.44	2.73	2.57	3.29	2.88	3.64	1.70	29.89	
June .....	3.07	2.30	3.18	1.40	2.73	4.04	1.62	5.68	3.35	3.35	30.72	
July .....	1.66	3.67	1.43	3.38	2.97	2.15	.91	3.04	4.07	2.52	2.580	
August .....	7.40	1.91	3.46	6.54	6.72	6.07	4.03	2.58	4.87	2.20	44.78	
September ..	.96	1.73	1.94	6.89	2.21	2.27	.91	.87	4.38	3.40	25.56	
October....	5.13	3.61	4.33	11.09	1.52	2.32	6.95	6.95	3.73	6.37	52.00	
November ..	5.34	4.41	3.73	2.69	1.65	5.12	2.45	4.86	2.91	1.20	34.36	
December ..	5.15	4.03	4.47	3.85	3.00	1.49	2.73	4.46	4.01	5.26	38.45	
TOTALS ..	43.24	35.22	35.37	60.10	35.78	36.63	34.67	39.91	42.42	35.74	39.906	

D D D D D D D

1903 Rhed-y-croesau Church 1/2 mile SE  
 Cemetery Station 5/2 ESE

H.W.L.

## RAINFALL at Llangadwalader Penygwely Res

County of Denbigh

Observer F.W. Lacey Esq. et

River Basin Severn Left Bank Tributaries 4

Rain Gauge, by

Diameter ...	5										
Height .....	10										
Altitude ...	1094										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1910-19 MEANS. 1094
January ...	2.74	1.30	5.32	4.97	2.89	3.44	2.26	1.50	3.04	4.01	10.81
February ...	4.43	2.79	3.46	2.82	4.76	6.07	3.54	1.82	3.13	3.10	11.09
March .....	1.46	2.12	5.36	6.16	4.16	1.02	2.99	2.84	1.21	4.14	11.88
April .....	3.49	1.58	.21	6.01	1.62	1.40	1.36	1.52	1.78	1.99	6.65
May .....	2.24	1.27	2.18	4.03	2.21	4.02	3.56	3.47	2.48	1.93	11.44
June .....	3.54	2.87	4.19	2.60	2.58	.83	2.12	3.76	.94	1.00	7.21
July .....	3.46	.89	3.90	1.19	5.00	4.51	1.73	1.47	3.89	1.41	8.50
August.....	5.57	3.61	6.98	1.76	3.09	4.44	1.84	7.45	1.67	2.39	13.35
September ..	.33	4.10	1.07	2.09	1.46	.86	2.56	.88	6.32	1.68	11.44
October ...	4.13	4.40	4.19	6.26	2.14	3.21	4.57	4.64	1.94	2.71	16.76
November ..	6.13	5.45	3.13	5.11	5.32	3.11	4.47	2.53	2.03	2.00	11.03
December ...	7.94	6.85	4.28	1.85	8.92	6.92	2.19	1.08	4.95	4.51	12.73
TOTALS ...	45.46	37.23	44.37	44.85	43.63	39.83	36.19	32.35	33.38	31.57	133.49

Date.	Lat. N.	Long. W.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911	52° 52'.48 50	3° 8'.50	Oswestry	5 1/4 mi	E.S.E.	Glyndyfrdwy	1 1/2 mi	S.E.

## RAINFALL at Llanidloes (Snowdonia Reservoir)

County of Denbigh

Observer G.W. Lacey, Eng: C.E.

River Basin Seven - 4

Bala Reservoir

Copper Squidson Rain Gauge, by Casella  
 7198  
 $4.15 \times 6.00$   
 $4.92 \times 5.65$   
 $5.65 \times 5.65$

Bevelled up

Standard

 $0.1 \times 0.12$   
 $1.15 \times 1.10$   
 $2.15 \times 2.15$   
 $3.20 \times 3.65$   
 $4.20 \times 4.60$   
 $5.0 \times 5.07$ 

Gauge has been in use about 2 years

Knows she will be provided at once (2.23)

Diameter ...	5"	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1920-30 Totals
January ...	2.83	4.50	4.42	1.91	3.34	4.11	6.30	3.70	6.89	2.11	5.86		46.97
February ...	2.71	1.14	4.15	7.08	.47	5.95	2.70	2.52	4.19	.88	1.13		31.92
March .....	4.29	2.18	2.85	2.11	1.68	1.01	4.7	4.93	3.45	1.34	3.55		26.86
April.....	6.92	1.87	3.17	3.72	3.52	2.41	2.13	2.72	1.88	1.03	4.46		32.83
May .....	4.02	2.32	1.84	3.60	5.19	3.89	3.44	1.68	1.99	2.83	1.81		31.11
June .....	3.40	2.25	1.50	1.92	2.81	.15	2.11	5.13	4.70	2.11	1.75		24.83
July .....	6.75	1.45	4.31	1.96	6.39	1.92	4.15	4.61	1.69	2.62	3.20		39.05
August .....	1.93	3.95	3.00	4.44	3.78	4.29	3.55	7.18	4.92	2.96	4.35		44.35
September....	2.22	1.84	2.79	2.77	5.50	3.01	2.14	4.47	1.70	2.30	4.91		32.75
October.....	2.59	3.81	1.12	6.42	5.07	3.28	3.62	5.42	6.02	5.02	4.84		50.01
November...	1.95	3.15	1.73	2.76	3.30	2.87	7.90	5.99	7.09	8.99	4.96		50.49
December...	4.13	3.65	5.24	3.68	5.84	4.53	.83	2.27	3.12	9.89	6.54		49.22
TOTALS.	45.64	27.11	35.72	41.37	46.89	39.42	39.34	50.62	47.64	40.08	47.36		460.59
	0	0	0	0	0	0	0	0	0	0	0	0	

Inspected C.E. 26.2.23. Is on little peninsula at south end of dam, perpendicular drop of 8 ft. to water on 3 sides about 15 ft. distant, and sloping bank of dam on SE. High hills all around neutralise any determinate effect and it is a good site.

1930. Gauge read 9 a.m. G.M.T. + B.S.T.

Position of Station on reduced Ordnance Survey Map, 2 miles to 1 inch Series			No. of Map	Reference No.		
Date.	Lat. N.	Long. <sup>W.</sup>	Railway Station.	Distance from gauge	Parish Church.	Distance from gauge
1920	51°52'48"	3°8'50"	Oswestry	5 miles	St. E. Rhayader	1 mile S.E.

## RAINFALL at Llanstein (Penygwyll Reservoir)

County of Denbigh

Observer G.W. Dady, G.E.

River Basin H. River - Left Bank

J.E. Tandy, Emp. G.E. (1938)

Type of Gauge Standard

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

Ref.

661498/26

Diameter	5"										
Height	1.0.										
Altitude	1095.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	2.10	4.40	2.82	3.36	1.03	4.78	3.72	4.65	7.31	2.68	3685
February	2.88	1.10	3.34	2.23	3.78	2.26	5.56	1.05	2.82	3.10	2511
March	1.68	2.38	2.03	2.74	1.01	2.74	2.73	1.48	3.15	3.06	2100
April	3.92	4.80	1.65	3.53	3.18	2.27	2.93	1.15	2.33	2.85	2751
May	6.10	4.10	1.43	1.64	1.50	1.28	1.95	3.36	1.56	2.88	2590
June	4.92	1.34	1.41	1.58	3.70	4.06	1.52	2.94	2.43	1.83	2573
July	2.97	6.33	2.63	1.11	.88	4.65	2.14	3.50	8.56	3.68	3568
August	6.39	1.46	0.95	2.46	.87	1.38	1.32	2.95	2.01	2.28	2007
September	4.44	3.15	0.99	2.86	5.60	3.35	1.40	1.67	1.26	1.99	2671
October	1.78	5.93	3.55	2.88	5.69	1.56	3.81	5.26	3.97	5.97	3940
November	7.86	2.66	1.18	2.24	5.49	3.23	1.94	5.29	6.65	9.88	4642
December	2.04	2.56	0.82	7.25	2.87	4.38	3.03	3.98	2.56	2.20	3169
TOTALS	45.08	39.21	22.60	31.21	35.60	36.03	32.05	35.28	44.61	40.40	36207

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

Reference No.....

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge	Direction
1931.			Cawdron	5 $\frac{1}{4}$ m.	E. S. E.	Rhuddlan	1 $\frac{1}{2}$ m.	S. E.

Station No. T.F. 4323

## RAINFALL at Nantlle (Penygwyllyr Reservoir) ✓ 41

County of Denbigh Observer J. F. Taylor, Esq. C.E.  
 River Basin 4 - Severn - Left Bank  
 Type of Gauge Standard

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

File No. 661498/26

Diameter	5			427	447						
Height	1	0				1					
Altitude	1095					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1941-50 Means Total
January	5.48	4.48	5.57	4.12	2.62	4.99	3.56	10.00	9.12	1.45	44.39
February	4.46	1.30	1.38	1.44	3.50	3.32	3.32	2.94	2.38	7.64	31.68
March	2.76	2.89	0.62	0.59	1.31	1.53	8.43	2.00	1.61	2.12	23.86
April	1.59	2.09	1.27	1.40	1.89	1.05	3.95	1.78	4.08	3.09	22.19
May	2.32	4.49	3.70	3.26	3.79	3.40	3.35	2.53	3.02	1.13	30.99
June	1.58	0.30	2.70	2.07	4.06	4.13	2.65	4.44	0.45	1.26	23.64
July	2.23	2.83	2.75	2.29	2.19	1.50	5.01	1.71	3.26	3.28	27.05
August	3.60	4.69	2.72	2.00	3.03	6.30	0.57	3.74	1.96	4.95	33.56
September	0.67	3.04	4.40	4.62	2.21	5.07	2.16	2.69	1.47	6.24	32.50
October	2.50	1.35	4.35	5.96	5.52	1.89	0.68	1.86	5.93	2.85	32.89
November	2.61	0.67	3.54	6.64	0.27	7.36	3.33	2.47	5.49	4.15	36.53
December	1.78	3.77	1.80	2.99	4.49	4.51	3.06	5.15	3.81	2.18	33.54
TOTALS	31.58	31.90	34.80	37.28	34.88	45.05	40.07	41.31	35.68	40.37	372.82
	D	D	D	D	D	D	D	D	D	D	D

1941 Jan 20-21 adj for census.

1942. Obs. stakes site in reservoir well unsatisfactory. New q. 1240 ft away at same level 5/43.

Rund required as 3 m. small 4 ft. 8/8/48 (See 4923/1).

1944 N.P. CHECK reading low. Catch contains 1 to 3 in. boats or would be expected.

1945 n.p. check 1946 n.p. check. 1947 n.p. check. 1948 n.p. check.

1949 n.p. check.

1950 n.p. check

Position of Station on reduced Ordnance Survey Map, 1 mile to 1 inch Series				No. of Map...	Reference No.....
Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge
1941			Oswestry	5 1/4 mi	ESE

Station No. JF 4323/1RAINFALL at Hawslan (Penygwydd Reservoir)41County of DenbighObserver J. F. Taylor Esq. C.E.River Basin A - Severn - Left BankType of Gauge SwansonAnnual Average 39.8 in. based on 7 years obs. un-weighted. Period of average 1881-1952 Ref. I.W.S. (Dec)

File No. \_\_\_\_\_

Diameter ...			<u>5"</u>			<u>407</u>	<u>445</u>				
Height ...				<u>10</u>				<u>1</u>			
Altitude ...			<u>115'</u>					<u>41</u>			
Year ...	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January			-100	14.40	2.98	5.39	3.70	10.41	2.24	1.51	
February				1.57	3.78	4.22	3.32	3.15	2.40	7.57	
March				1.57	1.61	1.73	(8.71)	2.02	1.61	2.16	
April				1.47	2.52	1.27	4.33	1.89	4.25	3.44	
May			*	3.66	4.15	3.60	3.43	2.54	3.20	1.22	
June			*-100	3.44	2.27	4.17	4.32	2.82	5.24	0.46	1.26
July				2.95	2.33	2.23	1.59	5.12	1.82	3.12	3.20
August				2.97	2.18	3.23	6.53	0.51	3.86	2.05	5.08
September				1.84	14.95	2.43	5.21	2.26	2.85	1.41	6.45
October				4.70	6.18	6.20	1.88	0.71	2.01	6.13	2.89
November				3.69	7.31	0.28	7.95	3.48	2.68	5.78	4.45
December				1.90	3.44	4.64	4.86	3.23	5.17	4.33	2.31
TOTALS ...			-100	N.P.m.	10.33	38.22	48.55	41.68	43.64	36.98	41.48

1947 max. part coded for snow

10004

8

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	Parish Church.	Distance from gauge
1943			Oswestry		Rhydcoetan	

Station No. 4323

TF 13

## RAINFALL at Plan incline (Pen-y-gwryd Reservoir) S 51

County of Denbighshire Observer J. E. Taylor, Esq., C.E.

River Basin W-Sewenn, left Bank Tribs. Llwynn, Trawsfynydd (1955)

Type of Gauge 3 snowdon

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

File No. b61498/2b

Diameter	5"			427	447						
Height	1' 0"					1					
Altitude	1095'					51					
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January	3.07	3.79	0.96	2.70	2.95	4.73					
February	4.61	0.48	1.68	3.75	2.76	0.42					
March	4.96	1.54	1.52	3.09	3.12	1.67					
April	2.48	2.45	3.35	0.50	1.57	1.78					
May	4.12	2.60	2.95	3.66	5.72	0.56					
June	1.41	1.96	2.01	4.20	4.01	1.44					
July	1.80	2.60	2.81	2.51	0.69	3.61					
August	4.94	3.29	3.20	4.15	1.31	6.00					
September	3.30	2.93	3.95	4.82	1.29	4.02					
October	1.89	9.20	1.97	2.90	1.89	1.85					
November	9.86	3.74	4.02	9.17	2.87	1.51					
December	5.87	3.62	1.52	3.34	4.42	4.70					
TOTALS	66.98	38.20	39.94	49.29	32.60	32.29					
	Dap.	Dap.	np.	np.	Dap.	np.					

1951. P.P. check. Inspected 14-10-55 Mr. Dicks. Gauge sound, no wave damage. Gauge on dam. Site of e N.W. wind from leeward down valley, S. & N.  
 1952. n.p. check. April 1956. New gauge set up at foot of dam. Present site  
 1953. n.p. check. 1954. n.p. check. 1955. n.p. check. to be abandoned Jan. 1957.

Position of Station on Ordnance One-Inch map :			No. of Map	117	National Grid Reference S.T. 220 521		
Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge		Parish Church.	Distance Direction from gauge.
1941			Oswestry	5 <sup>1</sup> / <sub>2</sub> nd	E.S.E.	Rhydycroesau	1 <sup>1</sup> / <sub>2</sub> nd E.S.E.

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	D	D	D	D	D
				1941-43 D	1944-50 NP

RAINFALL at 8 Plaslin (Penyg-walch Reservoir) 51  
 County of Denbighshire Observer J. E. Taylor Esq. C.E.  
 River Basin W. Seren, left Bank Tribs. Borough Surveyor (1925)  
 Type of Gauge Snowdon

Station No. 4323.1

Annual Average 39.8 in. based on 7 years obs. un-weighted. Period of average 1881 - 1915 Ref. 6.125  
 " " 41.61 " 13 " 1944-56 " " 1916 - 1925 File No. 261498/26

Diameter	5"			427	445'						
Height	1' 0"				1						
Altitude	1115'				51						
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January	3.25	4.37	1.08	2.79	2.98	4.91	4.12	4.44	6.25	7.51	
February	4.63	0.57	1.89	3.74	2.63	0.60	3.53	5.91	0.37	5.54	
March	5.19	1.64	1.59	3.39	2.96	1.79	2.74	1.66	2.84	2.62	
April	2.68	2.63	3.89	0.48	1.19	2.02	0.33	0.91	4.95	1.73	
May	4.25	2.69	3.21	3.62	4.73	0.65	2.59	3.90	2.99	2.37	
June	1.48	2.07	2.33	4.29	3.87	1.62	1.35	4.36	2.69	2.08	
July	1.85	2.60	3.69	2.56	0.65	4.54	5.63	5.85	4.05	4.27	
August	5.48	3.77	3.37	4.38	1.14	5.98	7.27	3.93	1.35	5.69	
September	3.43	3.29	4.09	4.54	1.14	4.22	8.03	6.35	0.49	5.55	
October	1.70	9.91	1.96	7.68	1.70	1.95	3.11	3.02	3.92	9.24	
November	9.84	4.07	4.12	8.81	2.69	1.63	2.95	1.44	5.83	8.52	
December	5.98	4.02	1.58	3.03	4.25	6.14	2.56	3.94	8.82	4.42	
TOTALS	65.63	41.63	32.80	49.31	2.9.43	35.05	43.61	45.41	44.55	59.54	
	D	D	D	D	D	D	D	D	D	D	

exam. leaks  
Inspected 14.10.55 Mr. Dales. Gauge sound, reservoir sound. Site satisfactory but recommended turf wall for additional protection.

1955 n.p. gauge lefts.

1960 n.p. check.

April 1956. Turf wall erected. f. repaid April 1958

1957 n.p. check

1958 " "

1959 " "

1955

Position of Station on Ordnance One-Inch map : No. of Map S.T. National Grid Reference 53133 270324

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Parish Church.	Distance from gauge
1943			Oswestry		Rhuddlan	

Summary of Earlier Records from 10-year Sheets :

3

1860

Record D. or d	1910-19	1920-30	1931-40	1941-50	1951-60
				C 1943 inc.	1944-50 D

Station No. 4323/2

## RAINFALL at Llansilins (Penygwryd Reservoir)

51

County of Denbighshire Observer Borough Surveyor

River Basin - Severn, left Bank trib.

Type of Gauge. Snowdon

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

File No. 161498/26

Diameter ...		427	446	5"		427	446			
Height ...				1	1' 0"				1	
Altitude ...				51	1055'				51	
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960 Means
January ...						-100	4.16	4.25	6.33	7.52
February ...						1	3.60	6.45	0.37	5.37
March ...						1	2.86	1.78	2.93	2.63
April ...						-100	0.36	0.97	4.74	1.80
May ...						#	0.63	2.63	3.99	3.08
June ...						1.59	1.31	4.43	2.71	1.89
July ...						4.52	5.74	5.76	4.10	4.28
August ...						6.40	7.44	3.99	1.36	5.43
September ...						4.34	8.34	6.50	0.49	5.52
October ...						2.02	3.25	3.13	3.86	9.21
November ...						1.83	2.38	1.45	5.75	8.01
December ...						4.44	2.54	4.00	8.97	4.15
TOTALS ...						-100 NP. inc.	44.59 D	46.70 #D	44.69 D	58.13 D

1957 Print

Position of Station on Ordnance One-Inch map : No. of Map ..... National Grid Reference S(3)222322

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

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60