

RAINFALL AT

Cilcain..... Newcastle S.W. Co.

Lat. Lon. County of Flint

Snrndor Rain Gauge, by Observer W. S. Hammont Eq.
See - 1 -

Diameter						5					
Height						1 0					
Altitude						790	A				
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January						1.05	5.15	1.13	2.47	2.49	
February						1.30	3.20	1.58	3.27	1.98	
March						3.46	2.38	1.86	4.84	2.66	
April						2.32	1.19	2.42	3.02	3.22	
May79	3.47	2.47	2.58	.90	
June						2.37	1.28	3.66	2.35	3.64	
July						2.89	.87	2.78	3.07	3.74	
August						5.86	3.54	3.22	2.87	3.95	
September						1.90	1.12	1.02	3.41	3.65	
October						8.42	5.82	7.92	1.99	5.44	
November						4.33	2.37	2.63	2.58	1.19	
December50	5.07	2.41	2.20	4.21	
TOTALS						29.69	35.46	33.10	34.15	37.07	

1905 Cilcain Church, mile E

Hammont Station 4 . . N

82

4274/5

10

RAINFALL at Cilcain

County of Flint

Observer W Timmons Esq

River Basin Dee

Cerridion

Rain Gauge, by

Diameter ...	5													
Height	1.0	1	9	1.0										
Altitude ...	790 ft													
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.			
January	2.67	.90	2.50	2.29	1.62	3.18	.73	1.75	1.65	1.52				
February ...	2.67	1.60	1.11	.89	2.45	2.55	2.44	1.08	1.53	1.18				
March93	.91	2.39	2.89	2.08	.97	1.89	3.06	.57	2.44				
April	4.19	.94	.58	2.37	.64	1.13	1.45	2.25	1.26	2.55				
May	2.57	.59	1.45	2.84	1.65	1.71	3.33	2.89	3.20	.95				
June	3.51	4.03	3.54	1.97	2.71	.80	1.07	2.05	1.52	1.61				
July	4.16	.69	2.65	1.10	6.06	2.21	1.31	.83	3.37	1.84				
August	2.78	3.01	6.16	1.86	1.14	4.09	2.44	6.36	2.14	2.50				
September ..	.65	3.56	.96	1.77	1.93	.96	3.97	1.26	4.97	2.28				
October ...	4.27	2.05	2.57	2.20	1.13	1.89	3.95	5.53	1.36	4.13				
November ..	6.28	1.90	2.88	2.22	2.05	2.92	2.77	2.72	1.32	1.91				
December ...	4.25	2.71	1.68	2.57	3.85	2.96	1.72	1.74	2.48	3.98				
TOTALS ...	38.93	22.89	28.47	24.97	27.35	25.37	27.68	31.55	25.37	28.69	28.12			

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911			Nannerch	3½ mi	N	Cilcain	1 mi	E

RAINFALL at Lilcain (Reservoir)

County of Flint
River Basin See - 1

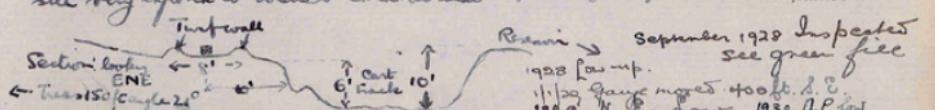
Observer J.W. Glynne Esq.
John Bartley Hawarden British

Standard Rain Gauge, by
Goodenough & Son, Compt.

* Glass, flat bottom
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150

Diameter ...	5'										
Height	1.0'										
Altitude ...	790'										785
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS: 1930.
January	2.04	2.87	4.04	2.83	1.42	1.73	1.59	2.55	2.88	1.24	3.19
February	2.09	.51	1.72	2.44	1.25	5.22	1.00	.92	1.54	.84	0.52
March	3.58	1.21	1.89	.86	1.47	1.16	.95	2.98	0.93	.04	3.57
April	3.16	1.27	2.00	.94	1.66	1.59	1.11	1.44	1.06	.80	2.54
May	1.57	1.28	.50	4.02	3.42	2.35	1.83	1.56	2.13	1.32	1.61
June	2.20	.62	2.00	.90	1.61	.14	1.76	4.56	3.65	2.26	0.72
July	4.43	1.77	2.76	1.95	3.54	3.56	4.89	2.54	0.86	2.79	3.43
August	1.64	2.70	2.35	2.84	5.36	4.41	2.85	5.77	3.21	2.82	4.27
September	2.18	.64	2.02	2.04	3.52	4.33	3.66	4.62	2.46	1.17	2.83
October	1.77	2.57	1.41	3.51	2.66	3.90	2.54	2.02	3.27	3.14	4.15
November	0.70	1.88	1.73	2.84	1.27	3.29	3.70	2.73	3.43	4.63	2.61
December	1.59	2.97	3.55	4.35	2.00	2.91	.95	1.10	2.97	3.33	3.45
TOTALS	26.95	20.29	24.97	29.52	28.18	34.58	26.83	32.79	28.69	24.88	32.89
	no										

1922 Not printed - overexposed 1924 h.p. 1927. N.P. - low.
Inspected 16/7/25 Cape Jackson. G. fixed in ground on cement base, close to left bank - tiny well round g. probably during eddies in telecumulus of exposure - sit in adjacent field suggested for experimental g. Present site very exposed to West ENE winds 1930. G. read 9 a.m.



Position of Station on reduced Ordnance Survey Map, 2 miles to 1 inch Series } No. of Map side of reservoir Reserve No. Reference No. Reservoir by meander.

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
16/7/25	52° 5' 16"	3° 15' 3"	Mannerch	3 1/2 mi	N	Lilcain	1 mi.	E.
1930.			Mannerch	3 1/2 mi	N.E.		1 mi.	ENE

RAINFALL at

Eilean (No 2 Beacon)

County of Flint

Observer *Hawarden W.W.G.*

River Basin /- Dee

*A. N. Peters Lang Co. Ltd.*Type of Gauge *Rain gauge*

Hawarden & Dist. W.W.G. (1937)

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

647720/5

Diameter	5"											Total
Height	1' 0"											
Altitude	785'											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Mean	
January	2.14	2.76	2.69	2.08	2.84	3.99	2.49	3.80	5.46	2.57	3.082	
February	2.63	1.14	3.14	3.9	3.19	3.36	6.12	1.00	2.86	3.09	2.592	
March	1.35	1.80	2.05	2.99	1.82	2.54	3.03	1.19	3.14	3.10	2.101	
April	3.62	4.68	1.95	2.56	3.15	1.90	6.49	1.30	2.41	3.20	2.832	
May	3.68	3.39	1.78	2.28	2.01	2.09	2.37	2.39	2.27	2.81	2.507	
June	5.65	7.75	1.67	1.22	4.26	5.72	1.53	4.14	3.46	1.22	2.961	
July	2.01	6.24	2.63	1.70	1.69	3.36	2.00	4.05	6.29	3.70	3.367	
August	7.06	1.66	1.31	4.22	1.43	1.54	2.29	3.17	2.10	1.28	2.606	
September	6.09	2.85	1.92	2.09	5.24	4.48	1.86	1.56	0.81	3.58	2.958	
October	1.72	6.26	5.34	4.44	5.04	2.25	3.49	4.08	3.52	3.49	3.063	
November	5.72	2.67	2.57	2.10	5.33	3.76	1.75	4.37	5.19	6.26	3.972	
December	2.05	1.54	1.02	5.43	3.96	5.00	3.49	4.21	2.53	2.51	3.154	
TOTALS	42.72	34.74	26.07	31.50	39.05	39.99	35.91	34.26	39.84	36.87	36.055	

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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
1931			Nannoch	3½ m	N.	Eilean	1 m. E.

BRITISH RAINFALL ORGANIZATION, EXHIBITION ROAD, LONDON, S.W.7.

RAINFALL at Llanidloes (now Reservoir)County of FlintObserver W. WilliamsRiver Basin 1-DeeA.M. Pelegary, C.E.Type of Gauge BroadfordHaworth & Diskin Mfg. Co. (1937)

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

647720/26

Diameter	5"										Memo-
Height	1' 0"										Total
Altitude	900'										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	
January	3.51	2.92	2.69	2.10	2.90	4.31	2.52	3.67	5.52	2.87	3301
February	3.17	2.26	3.08	3.34	3.00	3.12	4.58	3.88	2.58	3.26	2427
March	1.48	1.95	2.00	2.67	1.76	2.37	3.19	1.09	3.35	3.13	2098
April	3.49	4.39	81	2.69	2.96	2.07	5.16	3.0	2.58	3.08	2753
May	3.61	2.67	1.90	2.33	1.80	1.95	2.57	2.30	2.81	2.78	2472
June	5.70	7.73	1.55	1.30	4.40	5.57	1.82	4.12	3.14	1.33	2966
July	1.97	6.08	2.49	1.76	1.98	3.54	2.15	3.87	6.75	3.96	3455
August	7.56	1.95	1.33	4.49	1.49	1.38	2.58	3.53	1.88	1.03	2721
September	6.54	3.05	1.64	2.33	5.54	4.73	1.86	1.26	1.09	3.73	3077
October	1.76	5.80	3.78	4.74	5.25	2.35	3.12	3.91	3.31	4.50	4112
November	5.44	2.73	2.63	2.22	5.73	3.62	1.35	4.25	5.00	6.48	3942
December	2.31	1.48	1.96	5.67	3.38	5.15	3.53	3.20	2.28	2.07	3003
TOTALS	45.53	34.01	28.86	32.64	39.18	40.16	36.03	32.38	40.29	38.19	36827

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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
1931.			Llanrhaeadr	4 m.	N.	Llanidloes	1½ m.

Station No. 42745

RAINFALL at Cilcain (No. 2 Reservoir)

41

County of Flint

Observer Hawarden & Dist W.W.C.

River Basin - Dee

Type of Gauge Standard mm.

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

Ref.

File No. 647720 25

Diameter	5			547	300						
Height	10				1						
Altitude	785'				41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means Total
January	4.15	4.55	4.85	3.36	3.40	3.40	2.11	7.38	7.66	1.09	37.95
February	3.49	2.03	2.40	1.84	2.14	4.95	1.49	1.42	1.31	5.41	26.48
March	3.53	2.01	0.89	1.62	1.05	1.76	4.80	0.81	8.74	1.69	20.90
April	2.37	1.38	2.10	1.16	1.81	0.92	3.38	1.91	3.91	4.22	22.46
May	2.48	3.95	2.98	1.67	3.90	2.97	3.32	1.11	3.03	1.18	26.59
June	0.47	0.64	3.86	1.90	2.60	3.37	3.00	4.45	0.89	1.06	22.74
July	2.92	3.80	2.28	2.01	2.35	3.02	5.01	3.17	3.09	2.60	30.25
August	4.25	3.45	3.92	2.54	1.83	4.66	0.85	3.75	2.34	4.65	32.24
September	0.70	2.90	6.03	5.29	2.06	3.34	2.65	2.30	1.81	5.86	32.64
October	4.23	2.64	4.63	5.54	4.76	1.35	0.71	2.67	4.99	2.76	34.28
November	2.67	1.28	3.34	6.06	0.55	4.03	4.65	2.03	3.87	4.45	32.93
December	2.13	4.25	1.72	2.05	3.30	3.95	3.25	3.51	2.96	3.92	31.04
TOTALS	33.39	32.88	39.00	35.04	29.75	37.72	35.22	34.51	33.90	39.09	350.50

No. 2 Res. 724 ft. O.D. 15 fms.

243
1
238Position 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
1944			Rhydymwyn	5m		Cilcain	1m.

Station No. 4274/6

RAINFALL at Cilcain (No. 4 Reservoir)

41

County of Flint

Observer Hawarden Dist. W.L.S. Co.

River Basin 1-Dam

Type of Gauge Bradford

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

File No. 4274/6

Diameter	5			597	291						
Height	1	0			1						
Altitude	900				41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means T. 24.0
January	3.55	4.22	4.84	3.24	3.47	3.21	1.86	6.58	3.96	0.90	35.83
February	3.11	1.60	2.27	1.78	2.25	5.32	1.49	1.60	1.33	0.09	25.84
March	3.52	2.14	0.91	1.63	1.09	1.78	4.69	0.52	2.71	1.62	20.61
April	2.36	1.59	2.25	1.21	1.78	0.95	4.68	1.94	3.10	(4.17)	24.03
May	2.46	4.08	2.98	1.63	3.81	2.60	2.96	0.93	3.15	(1.16)	25.76
June	0.71	0.72	3.62	2.09	2.64	3.71	2.65	5.35	0.96	(1.64)	24.09
July	2.95	3.62	2.88	2.25	2.56	2.16	5.74	2.54	2.71	(2.02)	29.43
August	4.22	3.53	3.84	2.62	1.90	3.68	0.51	4.48	2.66	(4.57)	32.01
September	0.65	2.84	6.20	5.10	2.08	3.64	2.75	2.32	1.67	(5.06)	32.84
October	4.40	2.49	4.66	5.21	5.11	1.20	0.61	2.62	4.86	(2.80)	33.36
November	2.74	1.25	3.87	5.95	0.45	3.45	4.56	2.40	4.34	(4.15)	32.66
December	2.05	4.14	1.52	2.47	2.08	4.14	3.21	3.76	2.80	(3.03)	29.70
TOTALS	32.72	32.25	38.84	35.18	29.22	35.86	35.71	35.04	33.65	32.71	346.16

1941. Monthly totals amended by ref. to nearby sites

1944 No. 4 Res. 900 ft. 00. 12. 12. W.

1950 gauge read weekly but not on last day of month. Slight approximations necessary to months in brackets.

07774

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
1944			Rhuddlan	5½ m		Cilcain	1¾ m

Station No. 42745

51

RAINFALL at Cilcain (No. 2. Reservoir)

County of Flintshire

Observer Hawarden & Dist. W.W.C.

River Basin 1-Dee

Type of Gauge Snowdon (No.2)

Annual Average ... in. based on ... years obs. un-weighted. Period of average ...
 " = 36.10 " - 25 " - Within 1931-57 " - 1916-50 " - Ref. S
 File No. 647720/25

Diameter ...	5"			547	300				5"	
Height ...	1'0"					1			1'0"	
Altitude ...	785'					51			785'	
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
January	2.43	3.74	1.31	2.42	2.33	3.65	1.98	3.67	5.28	6.83
February	3.18	1.03	1.98	2.88	3.15	0.60	2.55	5.80	1.01	3.01
March	6.14	0.68	0.91	1.92	2.06	2.09	1.42	1.74	1.76	1.91
April	2.11	1.90	3.38	0.99	1.70	2.32	0.47	1.01	4.99	1.70
May	3.85	2.84	3.06	4.12	4.14	0.86	1.71	2.48	2.29	2.15
June	2.01	1.77	2.48	3.96	3.26	2.52	1.70	6.35	2.78	1.49
July	1.95	2.06	3.05	4.58	0.39	4.83	5.17	4.16	3.68	3.12
August	3.83	2.03	2.67	5.53	1.48	8.85	5.89	3.45	1.30	4.37
September	2.53	4.32	3.36	2.52	2.72	3.03	8.19	5.08	0.21	5.39
October	1.28	4.81	1.60	5.14	2.34	2.78	2.66	2.83	3.92	5.66
November	7.58	3.12	2.19	6.70	1.92	1.21	2.66	2.09	4.95	6.55
December	3.71	5.25	1.66	3.24	3.22	2.71	2.67	2.79	5.19	3.75
TOTALS ...	40.36	33.55	27.65	44.20	28.71	35.51	37.07	41.15	37.28	45.93
	D	D	D	D	D	D	D	D	D	D

(1954 No.2 Rev. 15's)

Inspected 5.8.60 by H.H. Blatter. ofc N.D.E.N. otherwise reasonable.

Position of Station on Ordnance One-Inch map : No. of Map National Grid Reference ST. (33) 103645

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Parish Church.	Distance from gauge.
1944			Abergwyngregyn	S and -	Cilcain	1.1. N.E.
1954			"	N.E.	"	1 1/4 N.E.

Summary of Earlier Records from 10-year Sheets :

Record D. or d		1910-19	1920-30	1931-40	1941-50	1951-60
		-	1910-12 1922-4 N.S. 1925-26 D 1927-30 N.Y.	B.P.	B.P.	D

Station No. 427416

51

RAINFALL at Elcain (No. 4 Reservoir)

County of Flintshire

Observer Hawarden Dist. W.W.C.

River Basin 1 - Dee

Type of Gauge Bradford

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

" " 36.41 " 25 " within 1921-57. " " 1916-50

Ref.

File No.

647720125

Diameter	5"			547	291				5"	
Height	1' 0"				1				1' 0"	
Altitude	900				51				940'	
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
January	2.64	3.54	1.28	2.70	2.38	3.70	1.99	3.85	5.27	6.25
February	3.31	1.00	2.01	2.89	2.92	0.65	2.55	5.49	1.06	3.08
March	5.37	0.69	0.92	1.91	2.04	1.92	1.37	1.78	1.60	1.84
April	2.22	1.74	3.24	.95	1.61	2.35	0.46	1.00	4.71	1.62
May	4.24	2.74	2.84	4.29	4.35	.89	1.57	2.47	2.32	2.09
June	1.53	1.68	2.62	3.89	3.34	2.40	1.68	6.43	2.71	1.48
July	2.14	1.97	2.94	4.38	0.37	4.82	5.78	4.26	3.35	3.07
August	3.78	1.96	2.64	5.93	1.48	8.98	6.34	3.61	1.85	4.42
September	2.72	4.36	3.32	2.32	2.72	3.20	8.40	4.91	0.19	5.34
October	1.13	5.08	1.59	5.04	2.42	2.68	2.61	2.70	3.72	5.53
November	7.68	3.16	2.12	6.51	1.95	1.13	2.57	2.02	5.04	5.92
December	3.75	4.94	1.63	3.18	3.17	2.80	2.63	2.75	4.89	3.56
TOTALS	60.33	32.86	27.15	43.99	28.75	35.52	37.95	41.27	36.91	44.20
	w	w	w	w	w	w	w	w	w	w

1954 H.O.Y. Rec. 15° S.

Inferred 5.8.60 by Method. of NW-E otherwise reasonable. f. read weekly and 15% month.

10

154640

Position of Station on Ordnance One-Inch map : No. of Map National Grid Reference SJ(32) 155139

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge
1954			Rhuddlan railway	5 furl.	N.E.	Elcain	1 1/2 mi
1954			"	"	"	"	"
1957			"	"	"	"	1 3/4 mi

Summary of Earlier Records from 10-year Sheets :

V/dep

Record D. or d	1910-19		1920-30		1931-40		1941-50		1951-60	
	1910	1919	1920	1930	1931	1934	1935	1940	1941	1950