

2734/5

## RAINFALL AT Appleton Reservoir (old gauge)

Lat.

Lon.

County of

Chester Upper Merion -

Snowdon

Rain Gauge, by

Observer

Warrington Waterworks.

234101/33

Diameter .....											
Height .....											
Altitude .....											
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January .....									1.98	1.80	3.15
February .....									3.09	1.84	.96
March .....									3.02	.71	1.87
April .....									2.46	1.48	2.58
May .....									2.05	3.21	2.35
June .....									3.50	2.98	1.66
July .....									1.45	.61	2.29
August .....									3.43	4.81	1.26
September....									4.26	.83	3.93
October.....									1.81	3.31	3.73
November....									2.80	1.73	1.22
December....									4.46	2.38	2.68
TOTALS . . .									33.51	25.69	27.68

✓ ✓ ✓

Looked from 56b on file 234101/33. b.N.D 24-668

RAINFALL at Dikeletton Reservoir (old gauge) ✓  
Station No. 273415  
County of Berksie Observer Warington W.W.  
River Basin Upther Mersey - I  
Type of Gauge Standard

41

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

File No.

Diameter	8"									
Height	9"									
Altitude	120'									
Year	1941 1900	1942 1901	1943 1902	1944 1903	1945 1904	1946 1905	1947 1906	1948 1907	1949 1908	1950 1909
January	3.77	2.19	2.38	2.45	2.27	1.36	4.14	1.33	2.03	1.86
February	4.29	1.46	1.70	2.19	3.57	1.47	2.63	1.53	2.67	1.10
March	1.20	1.91	1.41	3.41	1.66	3.06	2.66	2.30	2.54	2.60
April	1.45	1.75	2.36	1.37	1.44	2.16	1.55	1.48	3.51	2.65
May	1.64	1.14	3.49	4.14	1.94	.86	2.44	3.27	3.25	1.87
June	3.47	1.58	1.45	1.84	1.56	2.46	2.03	5.23	2.08	2.41
July	2.40	2.84	1.78	4.01	1.92	2.35	1.53	3.51	4.56	3.89
August	5.62	2.45	3.23	3.78	4.24	3.82	2.86	3.92	3.26	4.02
September	.97	.99	1.19	4.39	2.02	1.83	2.33	.86	3.56	2.82
October	3.29	3.36	3.51	5.44	1.47	2.84	4.36	3.23	2.05	5.41
November	2.16	2.86	1.66	3.29	2.23	3.21	1.85	2.32	2.92	1.56
December	3.46	3.21	1.89	1.70	2.88	.46	3.66	2.65	3.50	7.62
TOTALS	33.72	25.74	26.05	38.01	27.20	25.88	32.04	31.63	35.93	37.21

1900-1909 copied from 55b on file L.H.W. 26.6.58

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

Station No. 2754/8

RAINFALL at Babberley Reservoir, (old gauge)County of DerbyshireObserver Warrington W.W.River Basin Upper Mersey - 1Type of Gauge Snowdon

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

Ref.

File No. 234101/33

Diameter	8"											
Height	9"											
Altitude	120'											
Year	1941 1910	1942 1911	1943 1912	1944 1913	1945 1914	1946 1915	1947 1916	1948 1917	1949 1918	1950 1919	Means	
January	3.71	1.20	4.41	3.67	1.53	4.07	2.09	2.27	1.88	3.20		
February	2.22	2.41	1.03	1.07	1.77	2.79	3.63	1.37	3.01	1.06		
March	7.6	1.16	4.30	3.19	3.22	1.62	1.82	1.76	1.17	5.84		
April	2.93	2.01	.28	4.16	1.23	1.39	2.14	1.69	1.46	1.37		
May	2.40	.64	2.10	2.26	1.77	1.56	2.33	3.19	3.66	1.53		
June	2.61	2.27	3.00	2.11	1.74	1.84	2.37	2.61	1.63	1.85		
July	4.63	.56	3.07	.93	4.67	3.79	1.68	1.54	4.09	1.46		
August	4.79	3.63	7.57	2.47	2.84	3.80	2.15	6.53	2.76	3.96		
September	.46	5.16	2.17	1.43	2.51	.80	3.29	2.03	7.26	2.38		
October	2.38	3.11	3.28	2.74	1.70	1.80	3.83	5.57	2.52	2.40		
November	5.66	2.25	2.46	2.82	3.30	2.22	3.03	3.40	1.99	2.42		
December	3.03	5.12	2.79	2.36	5.26	4.81	2.48	1.98	6.07	5.41		
TOTALS	35.60	29.57	36.46	29.21	31.60	29.99 24.89 50.61	30.84	33.94	37.52	32.58		

1910-1919. Extract from SS6 on X16 E.0 26688

Figures in red annotated by the Engineer 20/10/59.

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	Parish Church.	Distance from gauge

Station No. 2734/5

## RAINFALL at Bingley Res (old gauge)

County of Yorkshire

Observer Waddington WW

River Basin Upper Mersey - 1

Snowdon

Type of Gauge.

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

Ref.

File No. 234101/33

41

Diameter	8"											
Height	9"											
Altitude	120											
Year	1941 1920	1942 1921	1943 1922	1944 1923	1945 1924	1946 1925	1947 1926	1948 1927	1949 1928	1950 1929	Mean 1920	
January	3.65	3.34	3.45	2.03	3.26	1.71	2.86	4.02	6.99	2.45	4.59	
February	2.54	.89	3.54	4.77	.83	5.24	4.65	2.00	3.50	1.09	.27	
March	3.09	2.11	2.43	1.54	1.21	1.15	1.25	2.85	1.94	.84	2.97	
April	4.08	1.30	2.48	2.44	2.02	1.57	1.02	3.27	.92	.80	2.60	
May	4.73	2.51	1.08	3.84	3.75	3.41	4.36	1.58	1.47	1.98	1.61	
June	3.66 <del>0.54</del>	<del>1.65</del>	1.91	.60	4.32	.18	1.93	4.74	5.17	1.41	1.32	
July	6.48	1.00	4.16	2.87	4.49	2.77	3.10	2.82	2.19	2.45	5.62	
August	2.03	4.00	3.55	3.72	6.54	4.12	3.44	5.74	3.23	3.58	5.67	
September	2.48	1.39	2.80	4.40	3.72	3.58	3.36	5.99	1.42	1.70	3.26	
October	1.67	2.45 <del>1.78</del>	<del>0.78</del>	3.99	4.32	4.42	4.98	2.87	3.90	5.35	4.79	
November	1.18	2.43	1.64	3.69	1.40	2.91	4.25	3.58	4.67	5.89	4.24	
December	2.54	4.31	4.50	4.24	3.18	2.56	1.15	1.04	2.12	4.89	4.04	
TOTALS	38.13 <del>26.27</del>	<del>32.3R</del>			39.04	33.62	36.35	40.80	37.52	32.43	40.98	
	26.27 <del>26.27</del>	<del>32.32</del>										

1910-30 Copied from 55b on file L.M.D. 26.6.58

Figures in red annotated by the Engineer 20/10/59.

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

## RAINFALL at

Appleton Reservoir: (old gauge)

County of Cheshire

Observer Warrington W.W.

River Basin 1 - Mersey, upper

Type of Gauge Snowdon

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

Ref.

234101/53.

Diameter		8"									Ref.
Height		9"									
Altitude		120'									
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	4.04	2.89	1.74	2.20	1.71						
February	3.00	1.2	2.96	2.28	2.78						
March	2.24	1.97	2.26	1.83	1.05						
April	2.63	2.96	1.12	1.90	2.46						
May	2.44	5.09	1.53	1.85	1.19						
June	5.25	.66	2.26	1.77	4.08						
July	2.90	3.57	2.16	2.02	.95						
August	7.12	1.93	1.74	3.18	1.43						
September	3.52	2.97	89	2.33	5.26						
October	1.75	6.42	4.05	3.94	4.14						
November	5.13	2.67	1.16	1.96	4.62						
December	1.55	1.16	.53	4.80	3.54						
TOTALS	39.57	32.40	22.40	28.06	33.23						
		D			H Eliminated, being continued (see next sheet).						
			D		aff/dec.						

Open area  
Inspected 26/9/33. Tube not fine, no outer case. Poor exposure  
New site selected. New gauge to be set up in new site.

Terminated at end of 1934

1931 depth from 556 m file

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
1932.			Warrington (as per)	10670 ft.	N 5° E	Warrington	2750 ft. NNE.

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

## RAINFALL at Appleton Reservoir (new g.) (+A)

County of Cheshire..... Observer Watlington 11.00

River Basin Mersey - Upper - 1.....

Type of Gauge M.R. ....

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

C/933

23410/33

Diameter			8							5	
Height			9	1.0							
Altitude			120								
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January				2.24	1.71	4.18	2.80	3.27	4.85	2.39	
February				.27	2.78	1.88	5.12	.95	2.73	2.68	
March				1.85	1.05	1.81	1.47	.85	1.58	2.74	
April				1.90	2.46	1.30	2.83	.33	1.75	2.14	
May				1.83	1.19	1.02	2.10	3.56	1.23	1.20	
June				1.77	4.08	3.32	1.29	2.78	3.18	1.18	
July				2.02	.95	3.66	1.69	3.46	4.42	3.49	
August				3.18	1.45	1.75	4.78	3.05	2.07	9.7	
September				2.33	5.26	4.27	1.08	1.56	.68	3.38	
October				C 3.96	3.94	4.14	2.61	2.15	5.46	2.37	3.73
November				1.15	1.96	4.62	3.12	2.05	3.98	4.72	6.92
December				.53	4.80	3.54	3.14	1.50	3.51	2.21	2.79
TOTALS				inches	28.09	33.23	32.05	28.86	32.76	34.79	33.61
				D.	D.	D.	D.	D.	D.	D.	D.

933 new g. erected as a result of inspection by Dr. Glasspool on 26/3/33.

Inspired 29.9.37. G. mounted in small slab of concrete a site was reasonably satisfactory although somewhat open. There would be room for turf wall if necessary 1940 fav. part add. for snow. Down for S.C.N.A file D.

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
			Watlington (Ayley)	10670 ft.	N. 45° E.	Walton	2750 ft. 4332°

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

Station No. 2734/6  
27/4

41

RAINFALL at Appleton Reservoir (estg.) (+A)\*

County of Cheshire Observer Warrington 17.W.

River Basin Mersey Upper - 1

Type of Gauge M.O.

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

c. 1933

File No. 23410/133

Diameter	5"			557	448						
Height	1' 0"					1					
Altitude	120'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.65	3.16	4.69	4.18	2.07	3.45	2.35	7.07	2.26	1.02	
February	3.41	1.52	1.46	1.73	1.60	2.81	5.01	.57	1.65	1.40	4.67
March	2.52	2.78	1.09	.82	.82	.92	5.40	1.07	2.24	1.27	
April	1.26	1.53	1.22	2.10	1.88	.93	2.45	1.35	2.56	2.63	
May	1.90	3.76	2.64	2.73	4.06	1.81	2.03	1.53	4.20	1.18	
June	.60	.31	2.36	1.75	2.56	3.09	2.23	3.62	.75	2.13	
July	1.76	3.74	2.21	3.25	2.57	3.20	1.94	2.11	1.36	3.33	
August	4.22	2.67	3.43	2.46	2.81	4.26	.28	4.18	1.80	4.16	
September	.89	2.23	3.54	4.55	1.72	4.58	2.64	1.65	1.12	4.65	
October	3.51	4.26	3.08	4.02	4.66	.89	.74	2.38	3.27	2.04	
November	2.64	.45	2.11	5.83	.37	5.12	2.98	2.22	4.99	4.69	
December	.98	3.76	1.46	2.66	2.66	3.65	2.91	2.90	4.76	2.80	
TOTALS	26.23	30.11	29.56	35.95	28.99	36.91	26.58	31.73	30.9	34.32	
	D	D	D	D	D	D	D	D	D	D	

1942 Gauge in open.

Photographs from 5th are file

\*Photographs record belong to Cheshire River Board

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	Direction from gauge.
1942 17/50			Warrington (Appleby) (Hawthorn Bank)	10670' 10,890'	N 5° E N 5° E	Walton Walton	2750' 2,780'	N 33° E N 33° E

Station No. 2734/6

RAINFALL at Appleton Reservoir (e.g.)\*

51

County of Cheshire Observer Warrington W.W.

River Basin Mersey - Upper - 1

Type of Gauge..... M.O. " (+A) .....

Annual Average.....in, based on.....years obs. un-weighted. Period of average..... Ref.  
" " 33.01 " - 23 " within 1934-57. - - - - - 1916-50  
File No. 2341011/33

Diameter	5"		557	448							
Height	1' 0"			1							
Altitude	120'			51							
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January	2.42	3.07	1.16	2.55	2.28	4.10	1.90	3.09	2.78	4.39	
February	1.98	.75	1.24	3.32	2.17	.59	2.01	3.21	.28	1.63	
March	4.54	1.94	1.73	2.14	2.18	1.07	2.55	1.47	1.41	1.83	
April	1.94	2.54	2.79	.59	1.72	3.81	.66	.79	3.14	1.69	
May	2.91	2.33	1.86	2.70	2.40	1.09	1.41	2.86	2.62	2.48	
June	.86	2.04	1.46	4.07	3.61	1.85	1.51	4.69	2.36	2.14	
July	2.73	1.56	4.90	3.53	.51	5.96	3.64	4.32	3.39	3.81	
August	3.90	1.49	3.18	3.93	1.02	9.18	4.03	2.03	.67	3.81	
September	2.71	2.88	2.87	3.34	2.64	2.79	6.12	3.15	.21	3.40	
October	.92	4.07	1.56	5.71	2.19	2.18	3.07	2.61	2.63	4.00	
November	7.87	2.66	2.67	5.34	1.50	1.18	1.68	1.56	3.94	4.90	
December	4.82	3.09	1.03	4.53	3.73	2.93	2.54	4.04	5.33	3.22	
TOTALS	37.66	28.42	26.43	41.75	26.01	36.73	31.12	35.82	28.76	36.30	

Dec 1951 gauge estimate for open area  
 1951 1953 bottom from 560m (See P. (also 1954)).  
 Rock III 1959. B.D.K. Concrete round g. otherwise satisfactory exposure.  
 1950 May 2nd by Guy & G.

\* Autograph record before Cheshire River Board, confirmed 1953, ref. STA 12 file 61 b29853

Position of Station on Ordnance One Inch map : No. of Map 101 National Grid Reference 52/33 602844 45

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge.	Direction
1951			Warrington	10,800'	N. 5° E	Wellon	2780'	N 332° E
1956	53° 21' 18"	2° 35' 52.4"						

*Summary of Earlier Records from 10-year Sheets:*

Summary of Earlier Records from 10-year Sheets:						
	1910-19	1920-30	1931-40	1941-50	1951-60	
Record D, or d			Camp 1933 ✓	✓	✓	