

# RAINFALL AT *Uldale Chapel House Reservoir*

Lat. .... Lon. .... County of *Cumberland*  
 Rain Gauge, by ..... Observer *Metereological Office*  
*J. Henry Esq.*

*Eden K-1.*

Diameter ..						8						
Height ....						10						
Altitude ..						600						
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.	
January ..						2.46	6.69	2.19	4.39	3.24		
February ..						2.74	3.35	2.05	3.49	4.34		
March ....						3.42	2.53	4.25	4.26	4.35		
April .....						3.31	1.40	2.78	2.61	3.36		
May .....						2.38	5.61	4.07	3.23	1.71		
June .....						1.60	1.95	5.39	2.17	3.12		
July .....						2.40	3.02	2.72	5.08	8.08		
August ....						4.24	5.21	3.80	5.96	3.70		
September ..						3.85	1.55	.43	4.99	3.04		
October ....						3.73	7.14	9.50	1.56	7.30		
November ..						4.08	4.79	4.61	3.56	3.26		
December ..						3.15	4.88	7.31	(3.50)	6.39		
TOTALS ..						37.36	48.12	49.13	44.80	51.89		

1909 Uldale Ch 2 miles N  
 Meadgate St. 5 " N  
 Cottage 30 ft high 40 yards SE  
 1908 Dec. est. 22.11.15. 5.11.

> Daily values in bound volume, shelf C3, r. 14.

RAINFALL at Uldale Chapel House ReservoirCounty of CumberlandObserver J. Strong EsqRiver Basin Eden SolwayJ. Smith Hill Esq (11) per MO (1915)M.O. Rain Gauge, by HicksJ. Ferguson for J. Strong (1916)

Diameter ...	8										
Height .....	1.0										
Altitude ...	600 T										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1916-19 Means 1915/5
January ...	4.73	2.78	2.90	3.41	3.47	4.66	5.21	2.67	4.57	4.18	16.63
February ...	8.13	5.12	1.98	2.84	6.26	7.42	4.82	1.73	4.53	.72	11.80
March .....	3.17	1.87	5.92	5.55	4.60	2.42	2.15	2.38	.84	3.67	8.74
April .....	3.56	4.56	1.08	5.11	1.97	3.45	4.49	2.28	1.11	2.77	10.63
May .....	3.19	3.29	2.61	2.97	3.28	1.39	3.57	1.94	1.93	1.11	8.55
June .....	2.12	6.19	5.49	3.27	1.83	1.20	3.40	2.76	2.42	2.97	11.55
July .....	6.24	.75	4.27	1.09	4.75	4.18	5.38	1.18	4.20	1.61	12.37
August .....	6.11	2.97	5.87	2.86	2.68	2.58	2.92	7.10	4.84	4.32	19.18
September ..	1.00	2.87	2.50	2.21	2.29	1.31	2.69	4.90	10.34	5.50	20.63
October ...	2.25	4.76	5.13	4.09	1.61	1.91	9.01	7.19	6.34	2.58	24.82
November ..	4.07	4.87	5.19	4.69	7.27	1.52	6.43	5.57	3.85	5.05	18.90
December ...	7.58	9.17	6.46	5.19	8.45	7.51	4.75	2.74	6.18	6.56	20.23
TOTALS ...	52.15	49.20	49.80	43.28	48.46	39.55	54.80	42.44	51.05	35.74	187.03
	2	2	2	2	2	2			2	2	

1912 House 30 ft high 20 yds S.E.

1910-15 Daily values in bound volume, shelf C4, R.14.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911			Inealsgate	5 mi	N.	Uldale	2 mi	N.

RAINFALL at Uldale Chapel House ReservoirCounty of CumberlandObserver J. Strong Esq. J. Walters Esq.River Basin Eden-SolwayM.O. Rain Gauge, by Kicks

Diameter ...	6											
Height .....	1.0											
Altitude ...	620											
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. MEANS.	1920-30 Totals
January ...	5.20	7.81	4.41	3.76	3.93	4.09	5.99	4.96	7.40	1.18	7.38	56.11
February ...	4.79	3.4	3.63	6.85	1.01	6.15	5.45	1.84	4.96	1.03	.69	36.74
March .....	7.46	7.01	1.84	1.14	.95	2.45	1.94	3.66	3.89	.53	2.60	33.47
April .....	3.49	1.22	3.12	4.07	1.82	5.47	2.69	3.29	1.20	1.45	1.98	29.80
May .....	5.22	2.22	2.20	4.35	4.13	4.16	3.03	2.27	1.65	2.09	1.79	33.11
June .....	1.84	.69	3.68	1.73	2.01	.52	4.80	3.77	4.60	1.76	2.67	29.07
July .....	6.33	2.79	5.68	2.94	4.65	2.12	3.61	5.61	5.93	6.01	4.93	49.61
August .....	3.00	6.30	3.53	8.17	4.47	4.00	4.07	7.13	5.41	6.99	8.75	62.12
September...	2.37	2.05	4.20	5.88	5.69	4.80	4.89	8.07	3.47	1.75	2.65	45.82
October .....	1.62	4.95	1.73	8.23	4.34	5.04	3.84	4.67	8.03	6.62	7.05	56.02
November...	3.21	2.08	1.76	6.77	4.48	1.89	6.46	6.01	7.47	8.43	4.65	53.21
December...	3.40	7.44	5.53	4.30	6.89	4.67	1.52	2.09	3.65	9.86	4.37	53.24
TOTALS...	47.93	44.90	41.63	58.19	45.37	45.37	48.29	53.37	57.66	46.10	49.51	538.32

Position of Station on reduced Ordnance Survey }  
Map, 2 miles to 1 inch Series

No. of Map

Reference No.

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge	Direction
1911			Mealsgate	5 mi	N	Uldale	2 mi	N



RAINFALL at Uldale (Chapel House Res.)County CumberlandObserver J. R. Watters, Esq.River Basin Eden & Solway

Type of Gauge

Annual Average 46.2 in. based on 24 years obs. un-weighted. Period of average 1881-1913 Ref. S66.4347/26

Diameter	8.											
Height	1.0.											
Altitude	620.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1931-40 Means Totals	
January	4.49	6.93	5.55	6.04	3.13	4.55	7.31	5.70	6.45	1.65	5140	
February	4.80	.15	6.02	.23	6.57	3.64	4.91	1.61	5.18	.96	3410	
March	.98	3.65 4.97	3.51	2.74	1.36	2.22	3.04	2.80	3.43	6.09	2982	
April	4.05	3.26	2.27	4.02	3.82	1.27	2.12	.62	2.42	1.87	2572	
May	4.84	3.02	3.58	4.06	1.09	1.37	2.24	2.73	0.80	2.08	2581	
June	6.36	1.50	1.83	3.22	3.82	3.10	1.70	5.57	3.42	1.31	3183	
July	6.42	6.36	4.28	2.17	2.67	5.33	3.68	5.27	5.83	7.16	4917	
August	4.35	1.52	3.23	5.62	2.81	2.07	2.87	5.08	2.60	3.81	3398	
September	2.51	7.26	1.00	4.16	6.62	5.52	4.27	2.69	2.20	5.55	6178	
October	4.23	5.99	3.73	7.42	7.79	5.94	4.21	11.74	2.28	4.11	5747	
November	5.81	3.14	1.53	1.47	4.28	6.06	1.21	9.49	7.28	5.68	4595	
December	3.95	4.42	.94	6.69	2.61	6.47	2.29	4.62	2.27	4.93	3919	
TOTALS	52.79 D.	47.22 2	31.47 24	47.84 76	46.57 26	47.60 2	39.85 2	57.92 2	44.16 2	45.20 2	46662 2	

Back yrs 1933-1935 need. 3/38

1932 Monthly totals for Mar. &amp; Apr. supplied by observer 3/38

1940 Jan. part set.

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	Direction from gauge

Station No. 3608

RAINFALL at Uldale (Chapel House Res)

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County of CumberlandObserver J.R. Walters Esq.River Basin Eden & Schunay - 1

Type of Gauge

Annual Average 44.2 in. based on 24 years obs. ~~un~~-weighted. Period of average 1881-1915 Ref. SFile No. 664347124

Diameter	8"				595	184						
Height	1' 0"					1						
Altitude	620'					41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1941-50 Means	
January	1.52	5.69	5.75	5.94	4.62	5.31	(6.00)	6.69	4.53	3.18	49.23	
February	6.22	2.14	4.87	2.39	5.33	3.45	(1.50)	2.74	3.69	5.32	37.65	
March	3.26	1.56	1.88	.52	3.61	1.67	(5.00)	4.21	1.80	2.61	26.12	
April	1.78	2.14	2.96	2.44	1.78	2.43	7.53	1.95	4.88	3.53	31.42	
May	4.90	3.67	5.02	3.33	7.62	2.40	3.45	8.71	2.24	2.97	36.31	
June	1.39	1.55	3.78	4.84	4.13	3.47	3.03	6.49	1.24	3.45	33.37	
July	2.07	5.37	3.70	3.08	3.68	5.58	3.93	2.50	2.74	3.90	36.55	
August	7.20	4.20	8.99	4.12	3.42	6.85	.00	5.76	3.04	5.12	48.70	
September	1.30	6.27	5.83	7.19	4.34	7.67	4.14	7.13	2.53	10.24	56.64	
October	7.57	7.66	7.33	6.09	3.96	52	1.34	5.00	6.55	4.95	50.97	
November	3.15	1.45	3.08	9.50	72	6.52	8.68	3.68	5.71	4.30	46.79	
December	2.80	7.13	2.94	5.23	3.32	3.91	3.73	5.40	7.20	1.74	43.40	
TOTALS	43.16	48.83	56.13	54.67	46.53	49.78	48.33	52.26	46.15	51.31	497.15	

1947 Febest. Jan &amp; March part est. from snow.

40004

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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.	Direction from gauge.
1941			Mealgate	5 miles	N.N.W.	Uldale	1 mile	N.N.W.

BRITISH RAINFALL ORGANIZATION

Station No. 3608RAINFALL at Uldale (Chapel House Res.)

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County of CumberlandObserver J. R. Walters Esq.River Basin Eden & Solway - 1undergoing alterations. MaelgateType of Gauge Standard typeAnnual Average 46.2 in. based on 24 years obs. un-weighted. Period of average 1881-1915 Ref. S48.17 " " 35 " " 1916-19501916-1950 Ref. PFile No. 464347/26

Diameter ...	8"				595	184				8"	
Height ...	1' 0"					1				8"	
Altitude ...	620'					51				620	
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means <i>Totals/10</i>
January ...	5.04	3.79	2.34	3.60	2.64	1.79	4.52	3.61	1.84	5.12	34.29
February ...	4.78	1.48	1.45	3.57	1.78	.90	4.25	5.08	1.52	4.26	29.07
March ...	6.30	1.59	.72	2.77	1.38	1.07	3.23	.84	2.47	1.10	21.27
April ...	2.63	3.16	3.45	1.33	2.26	1.02	.90	2.33	3.68	2.76	23.52
May ...	2.70	3.43	2.22	4.24	3.20	2.86	2.01	3.69	2.21	1.78	28.34
June ...	1.43	3.70	1.93	4.06	3.85	2.32	2.15	3.26	4.30	1.24	29.14
July ...	4.35	4.15	6.92	5.66	2.27	5.79	3.87	2.80	4.02	4.68	44.51
August ...	4.38	7.06	4.94	5.77	2.21	10.34	5.45	6.46	.87	3.09	50.56
September ...	5.88	5.61	7.29	7.71	2.74	3.72	4.91	4.81	1.90	4.39	48.86
October ...	2.16	5.43	2.99	9.77	3.22	3.94	5.12	4.57	5.03	3.21	45.44
November ...	10.88	2.69	6.35	8.17	2.02	2.62	1.95	1.82	6.50	7.06	50.06
December ...	9.41	5.04	2.96	5.67	6.30	5.69	4.90	4.02	7.74	3.56	55.19
TOTALS ...	59.94	47.02	43.56	63.22	33.87	41.96	43.26	43.29	42.08	42.25	460.45 10
	d	D	D	D	P	d	D	D	D	d n c	

Inspected 13.9.60 by H.H. Butler.  $\bar{g}$  = poor condition. Unsatisfactory site on N slope of dam. at top 1/5 SSW  
 Only possible alternative 60 yds W NW abutment of embankment NY(35)26036:  $\bar{g}$  = poor. new gauge.

1960  $\bar{g}$  low

(Bk of averages)

Position of Station on Ordnance One-Inch map: No. of Map..... National Grid Reference NY(35)260359

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge.	Direction from gauge.
1951			headgate	5 m	NNW	Uldale	1 m	NNW

Summary of Earlier Records from 10-year Sheets:

1916-1950, P-accepted

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	✓	✓	✓	
	✓ but -16-17	✓	✓ but 22-33-36	✓	