

RAINFALL AT Withington Chatter cum Hardy Sengertals

Lat. Lon. County of S. Lancashire

Snowdon Rain Gauge, by Rosenthal Observer E. F. Walton Esq.

Mr. Mersey H

Diameter ..							8				
Height							16 0				
Altitude ..							76 π				
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..							3.86	1.21	2.31	1.86	
February ..							3.18	1.47	2.11	1.09	
March							2.38	2.43	2.39	2.90	
April							1.72	1.11	1.91	2.76	
May							2.79	3.40	2.10	1.47	
June							1.17	4.86	2.09	1.83	
July							2.17	3.86	4.11	4.85	
August							2.43	3.32	2.74	3.27	
September ..							1.65	75	2.64	2.32	
October							4.67	2.86	1.54	5.67	
November ..							2.35	3.26	2.99	1.07	
December ..							3.81	2.65	2.51	7.00	
TOTALS ..							32.18	31.18	29.44	36.09	

1906 St Clements Church 1/6 mile E
 Chatter Hardy Station 1/4 " E
 Cottage 2 houses 50 yards NW
 Fence 4 ft high 6 ft N + S

Withington,
RAINFALL AT *Charlton cum Hardy*

Lat.

Lon.

County of *Lancashire*

Rain Gauge, by

Observer *J. J. Casartelli Esq**Messey 14*

Diameter ..						5					
Height						1 6	2 0				
Altitude ..						75 125	120				
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..							4.16	1.44	2.11	1.46	
February ..							2.93	1.46	2.44	1.09	
March							2.71	2.52	2.44	2.50	
April						2.32	1.71	.94	1.92	2.57	
May73	2.91	3.64	2.13	1.30	
June						2.37	1.33	5.25	1.93	1.85	
July						2.37	1.92	3.68	4.16	3.73	
August						4.05	2.30	3.63	3.07	3.32	
September..						2.29	1.68	.78	2.60	1.99	
October....						2.69	4.97	3.10	1.44	4.68	
November..						3.04	2.46	2.31	2.73	.86	
December ..						.55	3.44	2.42	2.46	5.66	
TOTALS ..							32.52	31.17	29.43	31.01	

1905 Gauge moved from Withington 2 miles.

St. Clements Church $\frac{3}{4}$ mile S

Charlton Station $\frac{1}{2}$. S E

House 30 ft high 30 ft W

Walls 7 . . 20 " N S + E

RAINFALL at Withington Chollton cum HardyCounty of South LancashireObserver J. H. Santelli EsqRiver Basin Upper Mersey 4

Rain Gauge, by _____

Diameter ...	5										
Height	20										
Altitude ...	75										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	3.36	1.15	2.74	3.01	1.87	4.60	2.43	2.19	2.29	3.67	
February ...	2.35	2.37	.80	1.18	1.81	2.33	4.04	1.06	3.70	.57	
March42	1.29	4.07	3.27	3.31	1.29	1.85	2.02	1.42	5.63	
April	2.52	2.03	.61	3.79	1.07	1.24	2.46	1.32	.98	2.36	
May	3.20	.83	2.29	2.23	1.73	1.36	2.70	2.31	2.23	1.62	
June	3.33	2.52	3.43	2.11	1.95	2.73	2.89	1.65	1.46	1.47	
July	3.72	.64	4.14	1.24	4.10	4.42	1.37	2.42	4.21	1.82	
August	5.50	2.44	5.63	1.99	2.67	3.42	1.81	6.00	2.80	3.30	
September ..	.15	3.54	1.81	1.33	2.29	.50	2.12	2.04	7.97	1.71	
October ...	2.95	2.46	3.25	1.75	1.43	1.25	3.59	5.17	2.99	2.20	
November ...	4.05	2.93	2.25	2.78	3.25	1.44	2.10	3.59	1.58	2.45	
December ...	2.22	4.83	3.14	2.31	4.83	5.31	2.74	1.32	5.91	4.98	
TOTALS ...	33.77	27.03	34.26	26.99	30.31	29.89	30.10	31.09	37.54	31.78	
	D	D	D	D	D	D	D	D	D	D	

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
			<u>Chollton cum Hardy</u>					

RAINFALL at Withington Chorlton and Hardy Sewage WorksCounty of South LancashireObserver G. F. Waller EsqRiver Basin Upper Mersey 4Symon Rain Gauge, by Cassatelli

Diameter ...	8											
Height	4 0			1 10	4 0							
Altitude ...	76 π								78			
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1910-19 MEANS Totals	
January ...	3.23	1.06	2.77	2.89	1.91	4.40	2.09	2.32	1.95	3.48	9.84	
February ...	2.70	2.19	0.96	1.17	1.51	2.48	3.76	1.03	3.47	0.76	9.02	
March	0.64	1.03	4.19	3.38	3.27	1.19	1.69	1.60	1.42	6.13	10.84	
April	2.64	1.70	0.80	3.79	1.20	1.40	2.30	1.41	1.08	1.40	6.19	
May	3.19	0.65	2.36	2.19	2.04	1.51	2.70	2.39	2.16	1.61	8.86	
June	3.34	2.76	3.60	2.09	2.05	2.07	3.10	1.70	1.60	1.38	7.78	
July	4.21	0.61	4.13	1.21	3.88	4.26	1.62	2.12	4.03	1.70	9.47	
August	4.63	2.88	6.03	1.96	2.56	3.42	1.51	5.79	2.48	3.73	13.51	
September ..	0.24	3.79	1.88	1.49	2.46	0.66	2.22	2.08	7.94	1.88	14.12	
October ...	3.29	2.42	3.32	2.36	1.52	1.39	3.70	5.50	3.00	2.22	14.42	
November ..	4.03	2.90	2.26	2.68	3.60	1.62	2.13	3.22	1.56	2.07	8.98	
December ...	1.95	4.74	3.16	2.64	5.08	5.16	2.40	1.54	5.98	5.26	15.18	
TOTALS ...	34.09	26.73	35.46	27.84	30.98	29.56	29.22	30.70	36.67	31.62	128.21	128.21

1912 Fence 4 ft high 6 ft N + S
 1913 Jan 1st ground 100 yds W
 1914 Building 15 ft high 40 yds SSW
 20 . . . 60 . . . W
 Wall 4 . . . 40 . . . N
 1918 Farm Building 25 ft. 40 yds S.E.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
	53.26 π N	2.17.30 W	Chorlton & Hardy	1 1/2 M	NEE	Chorlton & Hardy	1 1/4 M	NEE

RAINFALL at Ghorlton cum HardyCounty of LancashireObserver J. H. Cassantelli Esq date 18/11/25River Basin Upper Mersey &

Rain Gauge, by _____

Diameter ...	5"										
Height	2 0										
Altitude ...	75			95							
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS.
January ...	3.49	4.52	2.76	2.80	2.75						
February ...	3.01	4.0	2.54	4.27	1.89						
March	2.91	2.40	2.08	1.49	1.24						
April	4.08	1.13	2.26	2.81	1.51						
May	4.57	1.99	1.34	2.98	4.99						
June	2.74	2.2	2.19	1.56	2.81						
July	6.87	1.98	4.33	6.14	3.57						
August	1.57	4.43	4.23	4.20	5.19						
September...	2.64	1.92	3.12	3.69	3.33						
October	1.13	2.02	1.5	4.33	3.84						
November...	1.87	2.12	2.35	4.83	1.36						
December...	2.48	4.12	3.56	4.12	3.63						
TOTALS...	36.36	25.25	31.91	42.22	35.11	#					
	D	D	D	D	D						

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 from gauge	Parish Church.	Distance from gauge	Direction from gauge
			Ghorlton cum Hardy					

RAINFALL at Chorlton-cum-Hardy Sewage WorksCounty of LancashireObserver G. F. Walter Esq. (Secretary)River Basin Upper Mersey &Incl. Chorlton-cum-HardySymons Rain Gauge, by Casartelli
No. 126

Diameter ...	6					8	8				
Height	4.0				4.6	1.6	4.6	1.6	4.6		
Altitude ...	78				95		95		1120		
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. MEANS.
January ...	3.65	4.35	2.74	2.52	2.72	2.01	2.98	3.27	4.18	1.53	4.07
February ...	3.04	4.8	3.60	4.33	0.95	5.07	2.77	1.30	3.35	0.84	2.83
March	3.42	2.54	2.02	1.50	0.97	1.42	1.34	3.19	1.56	0.86	2.52
April	4.40	1.25	2.37	2.79	1.66	1.63	1.28	2.08	1.00	0.73	1.62
May	4.60	2.11	1.44	3.04	5.25	5.08	3.43	1.55	1.38	2.28	1.34
June	2.82	0.26	2.07	0.63	2.64	0.15	1.69	4.88	5.06	1.08	1.56
July	6.59	1.05	4.18	6.03	3.89	2.05	3.42	1.55	1.66	3.23	6.08
August	1.90	4.31	4.34	4.13	5.50	4.08	3.52	4.29	4.25	2.87	4.79
September...	2.49	0.90	3.12	3.42	3.42	4.14	3.27	5.25	1.01	1.75	2.79
October	1.31	2.32	0.23	4.25	3.92	4.30	4.10	2.23	3.47	4.82	4.67
November...	1.02	2.18	2.34	4.58	1.41	2.58	4.91	3.14	4.05	6.17	3.94
December...	2.55	4.10	3.86	4.25	3.61	2.20	1.38	1.14	1.89	5.44	2.75
TOTALS...	37.79	25.35	32.31	41.47	35.94	34.71	34.09	33.87	36.16	31.30	36.31
	D	D	D	D	D	D	D	D	D	D	D

Totals.

37.02

25.96

21.66

20.81

31.50

22.86

37.62

43.98

31.56

35.62

36.32

32.87

44.6

44.6

44.6

44.6

44.6

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1920 Farm Buildings 25 ft high 40 yds S.E.

1925. Wall 3'6" high 84 yds S.E. (125) wall 3 in high, 5 ft NW; wall 8 in high, 6 ft SW.

3/1/28. Inspected by Mr. Corlan see spec file.

1930 No. 2. Height of gauge above surrounding earth 1 ft.

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

Reference No.

Map, 2 miles to 1 inch Series

Date.	Lat. N.	Long. W.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge	Direction
1920	53° 26' 26"	2° 17' 30"	Chorlton-cum-Hardy	1 1/2 mi	N.E.E.	St. Clements	3/4 mi	N.E.E.
1930			do.	3/4 m	N.E.	do.	1/3 m	N.E.

RAINFALL at Chorlton-cum-Hardy Sewage Works.

County of South LancashireObserver G. F. Waller Esq.River Basin Mersey - Upper - 4Manchester Corporation Rivers Dept.Type of Gauge M.O. Standard (1937)Annual Average 32.5 in. based on 24 years obs. un-weighted. Period of average 1881-1915 Ref. 5744380/27

Diameter	8.	8										
Height	4.6	1.0						4' 6"				
Altitude	95.	95										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	Totals
January	4.44	3.21	1.89	1.88	1.92	3.58	2.89	3.45	4.24	1.75		29.25
February	8.21	0.17	2.82	0.31	2.65	1.69	4.32	0.94	3.46	1.57		21.14
March	0.22	1.96	2.60	2.24	1.03	1.25	1.31	0.96	1.56	2.60		15.73
April	3.22	2.85	1.03	1.70	2.45	0.88	2.52	0.32	1.88	1.71		18.56
May	2.83	4.60	1.56	1.84	0.85	0.71	1.99	3.08	1.26	0.89		19.61
June	5.16	0.42	3.50	1.87	3.22	2.92	1.11	2.88	2.45	1.09		24.92
July	3.29	3.53	2.18	1.78	1.08	2.62	1.95	3.67	5.49	3.41		29.01
August	6.99	1.32	1.49	2.72	1.28	1.86	1.77	2.50	1.40	1.38		22.71
September	3.07	2.94	1.04	2.32	4.91	3.89	0.90	1.75	0.90	3.45		25.17
October	1.47	6.54	4.49	4.76	4.69	2.96	1.51	5.42	1.42	3.51		36.77
November	5.44	2.78	0.96	1.41	4.29	2.98	1.30	3.84	4.98	5.88		34.36
December	1.35	1.12	0.26	4.57	3.39	2.81	1.99	3.58	2.63	2.70		24.40
TOTALS	40.69	31.44	23.82	27.40	31.76	28.15	24.06	32.39	31.97	29.94		301.62
	D.	D.	D.	D.	D.	D.	D.	D.	D.	D.		40.69

Building 26' high 182' SE. Wall 3' 6" high 84' S.E. - 1934
 Inspected 22/9/33. Outcan needs repairing, new measure required & in should be covered to 1 ft. Exposure excellent.

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
1931			Chorlton-cum-Hardy	5/8m	NE.	S. Clements	1/8m	NE.

Station No. 2931

RAINFALL at Chorlton-cum-Hardy, Seawage Works

41

County of South LancashireObserver Manchester Corporation Rivers Dept.River Basin Mersey Upper-4Type of Gauge SnowdonAnnual Average 32.5 in. based on 24 years obs. unweighted. Period of average 1881-1915 Ref. SFile No. 744380/37

Diameter	8"			560	503							
Height	6'6"				1							
Altitude	95'				41							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	
January	0.68	2.93	4.44	4.16	2.14	3.94	2.25	6.41	1.88	1.47		Totals 30.30
February	2.53	1.27	2.34	1.33	2.96	5.17	2.7	1.75	1.54	3.90		23.06
March	2.34	2.34	0.83	0.52	0.85	.69	4.75	.92	1.57	1.32		16.13
April	1.04	1.44	1.29	2.33	1.88	1.10	2.22	1.28	2.50	2.93		18.04
May	1.49	3.41	2.07	3.06	4.28	1.11	2.04	1.39	4.15	1.25		24.25
June	.42	.52	3.11	2.35	3.27	2.88	1.76	4.42	.88	2.17		21.78
July	2.66	3.49	1.67	3.26	1.02	3.89	2.24	2.13	1.19	3.16		24.71
August	4.34	3.50	5.05	3.37	2.23	3.68	0.07	4.11	2.52	4.39		33.29
September	.51	1.75	4.15	3.12	2.02	4.65	2.16	2.24	.72	4.96		26.28
October	3.74	5.04	2.86	3.53	5.49	1.06	0.56	2.41	2.88	2.27		29.84
November	2.32	.83	2.25	6.10	0.39	4.56	3.44	1.88	4.44	4.79		31.00
December	1.33	3.27	1.59	2.44	2.16	3.08	2.53	2.75	4.45	3.02		26.62
TOTALS	23.46 D	29.79 D	31.65 D	35.57 D	28.69 D	35.81 D	24.29 D	31.69 D	28.72 D	35.63 D		305.30 1941

1941 Building 24' high 142' S.E. Wall 3'6" high 84' S.E.

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			Chorlton-cum-Hardy	5/6 m.	N.E.	Sr. Clements	1/3 m.	N.E.

BRITISH RAINFALL ORGANIZATION

Station No. 2931

RAINFALL at Chorlton-cum-Hardy (Sewage Works)

51

County of Lancashire

Observer Manchester Corp. Rev. J. S. D. S.

River Basin Mersey - Upper - 4

Type of Gauge Snowdon

Annual Average 30.5 in. based on 24 years obs. un-weighted. Period of average 1881-1915 Ref. S.

31-86-35 " 1916-1950

File No. 1916-1950 44.380/27 P

Diameter ...	8"			560	503						
Height ...	4' 6"				1						
Altitude ...	95'				51						
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means- Totals
January ...	3.19	3.45	1.20	3.31	2.65	4.87	2.11	3.92	3.02	5.23	32.95
February ...	1.93	1.05	1.19	2.81	2.29	.81	2.27	4.90	.49	3.30	21.04
March ...	4.12	2.17	1.85	2.35	2.19	.94	2.86	1.93	1.63	1.41	21.50
April ...	1.87	3.18	2.39	.87	1.98	3.97	.46	.83	3.60	1.74	20.89
May ...	2.22	1.71	1.66	2.66	2.47	1.04	1.40	2.92	1.85	2.11	20.04
June ...	1.02	2.77	2.18	3.07	3.08	2.10	1.80	4.65	2.48	1.91	25.06
July ...	3.10	2.25	3.56	4.82	.80	4.90	4.53	4.63	3.28	4.68	36.55
August ...	4.27	2.16	4.91	5.96	.94	9.07	4.28	6.47	.30	6.18	44.54
September ...	2.89	3.14	2.85	4.00	2.56	2.63	5.90	4.53	.26	3.18	31.94
October ...	1.11	3.38	2.03	5.99	2.25	2.60	3.87	3.30	3.48	3.64	31.65
November ...	6.73	2.14	2.98	5.58	1.77	1.50	2.09	1.68	4.44	4.75	33.66
December ...	5.19	3.18	1.37	5.33	4.68	3.06	3.40	3.66	5.86	3.33	39.06
TOTALS ...	37.44	30.58	28.17	46.75	27.66	37.49	34.97	43.47	30.69	41.46	358.88
	D	D	D	D	D	D	D	D	D	D	

1951 Building 25' 0" high at 182' S.E. Wall 3' 6" high at 84' S.E.

(91.4 Averages)

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference 57(33)807931

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.
1951			Chorlton-cum-Hardy	5/8 m. N.E.	St. Clements	1/2 m. N.E.

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
	✓ 311-19	✓	✓	✓	