

RAINFALL AT Bolton Park Observatory

80

Lat.

Lon.

County of Lancashire

Rain Gauge, by

Observer

N. W. Midgley Esq.

Mersey - Inwell 3

Diameter							5				
Height							1				
Altitude							390				
Year.....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January								2.59	2.48	1.83	
February ....								.86	1.41	2.71	
March								2.17	3.51	2.60	
April								1.24	2.03	2.70	
May								2.98	.75	3.89	
June								1.21	2.62	.57	
July							# 4.30	1.61	7.98	4.15	
August							2.58	2.20	4.43	6.84	
September....							4.50	4.48	1.64	4.60	
October							5.88	2.72	2.34	3.62	
November....							3.67	1.95	6.12	2.18	
December							5.57	3.53	2.68	4.20	
TOTALS								27.54	37.99	39.89	

1888 St Georges Church 1/2 mile NE
 Shrubbery 10 feet high 150 feet ENE
 House 25 " " 210 " E

RAINFALL AT *Bolton-le-Moors The Park*

Lat. _____

Lon. _____

County of _____

Lancashire

Rain Gauge, by _____

Observer _____

W.W. Midgley Esq

Mersey - Irwell 3

Diameter	5											
Height	10											
Altitude	390T											
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January	5.62	2.36	4.11	2.02	3.04	4.33	1.85	1.97	3.17	5.58	3.405	
February ....	.57	.41	3.59	4.19	5.55	.58	2.93	3.71	3.13	1.60	2.626	
March	3.73	1.86	1.19	.98	3.79	4.10	5.77	3.44	2.17	2.72	2.975	
April	1.49	2.72	1.54	.46	2.18	2.30	2.22	3.06	2.27	4.21	2.245	
May	2.53	2.99	3.40	1.76	3.38	.56	.66	2.26	3.52	2.99	2.405	
June	4.15	2.71	3.20	2.00	3.44	2.10	3.25	4.82	3.07	2.12	3.086	
July	3.09	2.98	3.88	3.29	4.73	5.44	2.58	1.46	.89	2.85	3.119	
August	5.50	8.18	4.09	3.89	5.46	4.77	2.92	4.87	6.62	1.58	4.785	
September...	2.62	3.69	3.90	5.20	.48	1.61	9.14	5.01	1.42	7.02	4.009	
October	3.79	4.83	5.31	4.19	4.20	4.25	4.80	2.41	4.58	3.47	4.183	
November...	8.54	4.35	2.85	3.74	3.15	3.76	1.50	4.68	3.76	2.20	3.853	
December...	.62	7.56	3.02	4.69	4.75	4.71	6.19	5.01	4.63	4.14	4.592	
TOTALS	42.25	44.64	40.08	36.41	44.15	38.51	43.81	42.70	39.23	40.48	41.226	

1890 *St George's Church 1/2 mile E*

Shrubbery 46 ft high 40 ft N

Refreshment Bar 24 ft 120 SE

RAINFALL AT

Queens
Bolton, The Park

Lat.

Lon.

County of *Lancashire*

Swordon

Rain Gauge, by *Cowdall*

Observer *T. W. Midgley, Esq.*

Irwell 3

Thomas Midgley, Esq.

Diameter ..	5										
Height	10										
Altitude ..	390 ^T										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEAN.
January ..	6.28	2.95	3.93	3.20	3.67	2.23	6.46	2.30	3.86	2.28	3.716
February ..	3.78	2.21	2.45	3.85	3.82	2.86	4.52	2.48	4.34	1.85	3.216
March .....	.88	3.27	3.04	4.04	2.34	3.81	3.35	3.87	3.66	3.60	3.186
April	2.50	3.10	2.39	2.30	2.57	4.24	2.43	1.87	2.91	4.11	2.842
May	2.00	1.13	3.81	3.75	2.93	.81	4.14	4.38	2.91	3.44	2.933
June	2.95	2.53	1.63	2.34	1.42	2.93	1.86	7.84	2.83	2.96	2.929
July	2.14	2.64	3.87	3.77	1.71	2.46	1.90	3.77	5.85	7.08	3.519
August	7.02	3.28	3.20	5.67	4.64	5.64	6.57	5.37	3.68	3.76	4.883
September ..	1.76	1.49	2.33	5.81	1.73	3.26	2.30	1.49	4.96	3.18	2.831
October	6.56	3.86	5.56	9.72	2.90	5.06	7.36	4.03	2.40	6.59	5.404
November ..	4.01	4.97	2.55	4.71	3.72	5.11	3.73	3.57	3.65	1.87	3.789
December ..	5.71	5.25	3.22	2.07	3.29	.78	5.90	4.59	3.41	8.33	4.255
TOTALS ..	45.59	36.68	37.98	51.26	34.74	39.19	50.52	45.56	44.46	49.05	43.503

St. Peter's Church ^{3/4} mile SE

Bolton station ²/₄ SE 1905

1905. No close objects

H. H. H.

RAINFALL at Bolton Greens ParkCounty of South LancashireObserver J. Meddley EsqRiver Basin Marsden Inwell 3Sworder Rain Gauge, by Casella

Diameter ...	5											
Height	1 0											
Altitude ...	390 T		314.2		370	342						
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS	TOTALS
January ...	4.28	1.35	4.53	4.98	3.10	6.23	3.70	3.40	3.72	4.90	15.72	
February ...	3.72	4.55	1.64	1.61	2.28	4.50	4.77	1.73	4.71	1.15	12.36	
March .....	.87	1.85	6.94	4.61	5.08	2.29	1.92	2.83	2.13	7.31	14.19	
April	3.64	3.27	.99	5.19	1.45	2.15	4.29	2.37	1.06	3.10	10.82	
May	3.59	1.43	2.85	3.40	2.9	1.89	2.56	2.40	3.02	1.83	9.81	
June	3.16	2.84	5.90	2.96	1.80	2.68	3.77	2.54	2.19	2.29	16.79	
July	4.60	.29	5.35	1.24	5.99	4.41	2.78	2.54	4.18	1.84	11.34	
August	6.07	2.89	8.86	3.31	3.64	5.45	3.28	7.87	4.17	4.82	20.14	
September ..	.54	4.17	3.09	2.07	4.98	.94	3.85	2.38	12.71	2.22	21.16	
October ...	3.75	3.21	5.35	2.21	2.84	2.28	8.15	8.86	5.31	2.95	25.27	
November ..	7.51	3.91	3.46	4.80	6.17	1.92	2.90	6.01	3.09	4.03	16.03	
December ...	3.83	7.55	4.65	3.08	6.73	8.97	2.89	2.67	19.76	7.83	23.15	
TOTALS ...	45.56	37.31	53.61	39.46	46.96	43.71	44.86	45.60	56.05	44.27	190.78	
	2	2	3	2	2	2	2	2	2	2		

1912 Jan 12 f moved 180 yds SSW
 Mass 20 ft high 40 yds S + E
 1915 Shrub 10' . 30' ESE

+ Inspected

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
	53.35.N	2.27.W	Bolton	1/4 m	E	St Peter	1 1/2 m	E

RAINFALL at Bolton, Queens ParkCounty of S. LancashireObserver J. Midgley EsqRiver Basin Mersey - Irwell 3Snowdon Rain Gauge, by Casella

& Autographic gauge.

Diameter ...	5											
Height	1 0											
Altitude ...	342											
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEANS.	Totals.
January ...	4.56	7.16	4.64	5.07	3.75	3.12	5.11	5.43	11.33	2.61	5.36	58.13
February ...	3.90	4.4	4.13	6.27	1.66	7.05	4.39	2.12	5.37	1.39	.35	37.07
March	4.09	3.28	3.32	2.06	1.98	2.00	2.52	6.34	2.47	1.69	3.36	33.11
April	5.57	2.41	2.49	3.67	2.06	2.38	1.80	2.86	1.02	1.31	2.40	27.97
May	7.57	2.85	2.28	4.31	6.11	5.77	4.60	1.78	1.22	3.00	2.20	41.69
June	2.80	.43	3.10	1.45	2.94	10	2.31	5.51	6.58	1.93	2.79	29.94
July	7.71	1.59	4.95	4.87	4.68	2.36	2.89	3.69	2.94	3.40	6.18	45.26
August	2.55	5.93	5.77	6.03	8.52	4.28	5.53	7.31	5.46	6.53	7.84	66.05
September...	3.45	1.35	4.81	5.06	4.67	5.21	4.42	7.05	0.84	2.35	3.77	42.98
October	1.65	3.15	.58	5.87	5.39	5.14	4.31	4.29	6.09	7.20	6.57	50.24
November...	1.80	3.75	4.16	6.25	2.43	4.28	6.46	4.77	6.83	8.85	6.40	55.98
December...	3.75	6.68	6.40	6.08	4.77	3.31	2.64	1.54	3.56	7.29	4.86	50.88
TOTALS...	49.39	39.02	46.63	56.99	48.96	45.00	46.98	52.69	54.01	47.55	52.08	539.30

1920. Shrubs 10 ft high 70 yds SE.

1929. Large trees and shrubs 20 high about 50 yards E.

Position of Station on reduced Ordnance Survey Map, 2 miles to 1 inch Series } No. of Map

Reference No.

Date.	Lat. N.	Long. W.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge	Direction
1920	53° 35'	2° 27'	Bolton	1 1/4 mi	SE	Bolton	1 mi	ESE

RAINFALL at Bolton (Queen's Park)

M.W.R.

County of South Lancashire

Observer ^{De Corporation} F. Midgley, Esq.
E. Henry (1834)

River Basin Mersey-Inwell-3

Type of Gauge (1+A)

Annual Average 42.1 in. based on 43 years obs. un-weighted. Period of average 1891-1933 Ref. *Q.M.S.*

Diameter	5.											
Height	1.0.											
Altitude	342.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Totals.	Months
January	7.20	5.14	2.40	3.96	3.09	5.19	3.61	5.69	6.06	3.01	4535	
February	6.02	.08	4.13	.48	5.54	2.45	6.95	1.98	5.00	2.71	3534	
March	1.48	2.93	3.00	3.36	1.91	2.74	1.94	1.98	2.31	3.13	2378	
April	3.99	3.59	1.85	2.78	3.45	1.15	3.75	.59	2.89	3.27	2731	
May	2.85	4.72	1.95	3.41	1.39	.97	2.48	5.28	1.33	1.60	2598	
June	6.36	.71	3.96	2.03	4.70	3.53	2.06	4.41	3.43	1.12	3231	
July	4.09	4.44	2.92	2.23	1.72	5.04	2.72	4.32	6.64	5.30	3932	
August	6.22	1.84	2.61	4.81	1.91	2.90	3.14	4.73	1.94	2.40	3240	
September	3.45	5.27	1.01	3.49	7.28	6.34	1.94	2.71	1.42	4.17	3108	
October	3.08	8.51	6.12	6.45	9.09	5.32	2.37	10.40	2.54	4.27	5715	
November	8.07	3.99	2.32	2.30	4.88	6.62	2.26	5.20	6.91	7.96	5061	
December	2.56	2.24	0.73	6.67	4.26	5.22	2.73	5.70	3.94	5.20	3985	
TOTALS	54.87	43.46	31.80	41.97	49.22	47.47	35.95	53.09	44.41	44.14	44588	
	D	D	D	D	D	D	D	D	D	D	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	Direction	Parish Church.	Distance	Direction
				from gauge			from gauge	

Station No. 2845

RAINFALL at Bolton (Queen's Park)

M.W.R.

41

County of South Lancashire

Observer E. Hardy Esq

River Basin Mersey - Inverell - 3

Cooperation (510)

Type of Gauge (+A)

Annual Average 43.1 in. based on 43 years obs. unweighted. Period of average 1881-1915 Ref. S ans. sheet.

File No.

Diameter	5"			562	527							
Height	1' 0"				1							
Altitude	342'				41	3	X			X		
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	
January	1.73	5.41	6.03	6.16	4.28	5.57	3.66	10.23	3.17	3.60		Totals 47.34
February	4.37	2.26	2.86	2.35	5.60	6.87	1.04	3.02	2.58	5.31		36.26
March	3.40	4.24	1.30	.92	1.85	.92	6.34	1.65	2.78	2.26		25.66
April	1.85	2.04	2.68	3.17	2.75	1.35	3.61	2.19	3.28	3.83		26.75
May	2.59	4.11	3.27	3.04	4.69	1.44	3.10	1.81	4.34	1.70		30.07
June	.46	.75	3.84	3.78	5.92	3.91	2.70	5.57	1.21	2.34		30.51
July	2.43	5.17	2.99	3.98	3.44	5.00	3.05	2.98	2.38	4.11		39.53
August	7.39	5.22	6.73	3.63	3.10	6.42	.33	5.19	4.51	7.50		50.02
September	.99	3.14	5.74	6.16	3.43	8.29	3.37	3.18	1.64	7.80		43.74
October	5.13	7.78	3.92	5.83	7.24	1.17	.96	3.21	4.88	3.23		43.35
November	3.24	1.34	4.65	8.18	.80	6.97	5.72	2.43	6.42	6.26		46.04
December	2.99	4.96	3.27	4.32	3.25	4.54	4.16	4.50	6.66	4.36		43.08
TOTALS	36.54 D	46.42 D	47.28 D	51.59 D	46.35 D	52.45 D	38.04 D	45.96 D	43.91 D	52.30 D		460.87 466

1948. Dines T/S purchased 3/48

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.

BRITISH RAINFALL ORGANIZATION

Station No. 2845RAINFALL at Bolton (Ruims Park)

m.v.a. (235)

51

County of L. LancashireObserver Corpin. (E. Hendy Esq)River Basin Mersey - L. 3Type of Gauge (T.A.)Annual Average 43.1 in. based on 43 years obs. un-weighted.Period of average 1881-1915Ref. S46.77 " " 35 " 1916-1950File No. 1916-1950P a. v. shad.

Diameter ...	5"			562	527						
Height ...	1' 0"				1				0' 10"		
Altitude ...	342'				51						
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	4.68	4.72	2.10	4.55	3.00	5.41	3.42	4.47			
February ...	2.60	1.41	1.54	3.47	2.48	.87	2.40	5.10			
March ...	5.85	2.51	2.37	2.92	1.96	1.79	3.71	2.35			
April ...	2.40	3.86	3.01	1.04	3.22	3.32	.60	1.53			
May ...	2.69	2.47	2.42	2.43	4.03	1.49	1.49	4.06			
June ...	1.46	3.98	2.04	4.01	3.29	2.72	2.58	5.14			
July ...	4.31	2.45	4.89	6.91	1.11	7.26	5.90	4.11			
August ...	5.20	4.56	5.26	5.62	1.57	11.87	6.73	4.48			
September ...	3.32	4.27	4.51	4.49	3.87	4.28	8.09	4.42			
October ...	1.18	4.57	1.96	7.94	2.65	3.76	5.87	4.21			
November ...	9.40	3.38	4.65	7.07	2.33	2.14	2.14	1.81			
December ...	8.66	4.81	1.75	6.77	5.79	3.93	5.20	4.42			
TOTALS ...	51.75	42.99	36.50	57.22	35.30	48.84	48.13	49.10			
	D	D	D	D	D	D	D	D			

Inst. 26-8-54 Mr. H.D. Holgate.

1959 terminated on move of station to Hall i' th' Wood - 1/1/59.

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference 34/705092

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

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
	✓	✓	✓	✓	
	✓	✓	✓	✓	