

Rainfall Warley Moor at Halifax

Aug 148

Mys. Rec. No. 2

Gauge 1ft + Ground

1400 ft + Sea Level

YEAR - -	1850	1851	1852	1853	1854	1855	1856	1857	1858	1859 MEANS.
January - -				4.6	5.6	1.8	4.7	3.6	2.2	4.6
February - -				1.7	2.5	2.0	4.4	1.7	1.7	3.2
March - - -				.9	2.55	7.9	1.1	2.9	3.4	8.8
April - - -				4.9	.85	2.5	4.4	6.0	2.7	5.5
May - - -				3.8	3.2	2.7	4.7	2.4	3.1	.5
June - - -				4.6	3.9	4.8	5.2	3.6	3.6	2.5
July - - -				4.6	3.7	4.8	3.2	4.1	3.3	4.9
August - -				1.8	2.0	3.8	8.3	7.2	3.2	6.5
September -				3.7	3.8	1.2	6.6	3.7	6.6	7.0
October - -				3.8	3.6	10.8	4.1	2.8	5.6	2.9
November -				4.2	6.1	1.3	13.1	2.6	1.6	3.7
December -				4.6	12.0	2.3		4.0	5.0	7.3
TOTALS -				43.2	49.8	45.9	59.8	44.6	42.0	57.4

R C C C C C C C

Warley Moor
w^o Halifax

G. W. Stevenson C. C.

Ms. Rec

Earth frost = Horizontally last deep.

9.7 in diam. + 12 in

+ Sea Level 1425 ft

YEAR --	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January --	4.60	1.40	3.50	6.70	2.60	1.30	6.20	6.10	4.50	4.00	4.090
February - -	3.10	5.30	1.10	3.00	2.90	4.20	6.70	5.00	3.40	6.30	4.110
March - - -	4.30	6.10	5.20	1.50	4.10	1.90	1.80	2.60	4.40	2.00	3.390
April - - -	4.00	1.20	4.00	3.10	1.10	2.40	1.40	7.50	2.10	2.10	2.890
May - - -	5.10	.10	5.00	1.90	2.50	3.20	1.20	3.20	1.40	5.60	2.920
June - - -	7.20	1.90	4.60	4.70	2.40	.60	6.00	2.60	.10	1.10	3.120
July - - -	2.40	6.60	3.70	1.70	1.40	2.20	4.60	4.60	.20	.30	2.770
August - -	5.90	4.40	3.00	5.40	1.20	6.00	5.90	1.90	4.10	1.80	3.960
September -	2.40	5.30	3.60	6.20	4.80	.90	6.50	3.80	5.10	7.30	4.790
October - -	5.70	1.00	8.20	8.60	4.20	8.10	3.90	3.60	5.20	2.60	5.110
November -	4.50	8.50	2.50	3.20	5.30	4.00	7.10	.80	3.00	4.60	4.350
December -	2.00	2.20	5.00	5.80	3.40	2.90	6.10	3.40	10.40	7.10	4.830
TOTALS -	51.20	44.00	49.40	51.80	35.90	37.70	59.40	45.10	44.00	44.80	46.330

From Jan 17th last to end

1868 Corrected by J. E. Lambert Feb 19th 1875

RAINFALL AT Halifax Parley Moor 30

Lat..... Long..... County of..... Yorkshire W.R.
 Rain Gauge, by..... Observer J. B. Bateman Esq. F.R.S.

Diameter												
Height												
Altitude	1425.											
YEAR	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January.....	4.00	1.40	6.00	4.40	3.20	5.80	1.80	7.60	5.50	3.72	4.342	
February	2.00	3.50	4.70	1.00	1.40	1.30	5.60	4.90	2.70	3.45	3.083	
March	2.50	1.20	3.50	2.50	4.40	1.80	4.70	3.20	3.00	3.18	2.998	
April	1.80	4.40	4.10	1.60	1.60	1.50	2.90	3.20	2.00	3.77	2.587	
May	1.90	2.10	2.20	2.90	1.60	2.10	1.10	2.60	4.80	1.88	2.318	
June.....	1.90	3.50	6.90	1.50	1.80	4.30	3.10	1.40	3.60	6.64	3.464	
July	7.10	5.40	4.40	3.60	2.50	6.40	3.40	4.40	1.30	7.31	3.981	
August.....	1.50	1.60	6.10	4.30	5.10	3.10	3.70	4.30	6.90	6.11	4.271	
September.....	2.10	5.00	7.20	2.80	4.00	4.70	5.30	4.00	5.67	2.67	4.344	
October.....	71.00	3.90	5.70	6.80	5.80	6.40	3.00	5.60	5.06	3.19	5.645	
November.....	3.20	1.10	6.30	3.70	4.60	6.50	5.20	5.70	3.68	2.23	4.221	
December.....	3.10	2.70	4.30	2.00	4.20	2.70	8.80	4.60	3.73	4.03	4.016	
TOTALS	36.10	35.80	61.40	36.10	40.20	46.60	48.60	51.50	47.94	48.46	45.270	

C C C

1878 New gauge Sept: 1st same principle as old one
 old gauge destroyed

RAINFALL AT Halifax, Warley Moor 80

Lat. _____

Lon. _____ County of York

Rain Gauge, by _____

Observer A. Parkin, Esq., C.E.Ouse Aire & Calder 8

Diameter	7										
Height	6										
Altitude	4257										
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January63	.62	5.34	6.01	7.50	2.92 (7.84) (1.09)	2.43	2.25	2.46	3.800	
February	4.53	7.90	3.78	2.77	4.14	5.02 12.64	.99	1.51	2.33	3.397	
March	3.46	7.06	4.94	1.10	2.70	2.73 (3.80)	2.37	4.32	3.36	3.584	
April	2.23	2.10	5.33	3.46	2.49	3.00	3.10	1.36	4.10	4.35	3.252
May	2.95	3.02	1.80	1.46	2.13	3.81	5.77	2.52	1.10	2.49	2.713
June	5.30	2.56	5.58	3.92	1.26	4.19	2.22	.27	2.96	1.02	2.928
July	6.36	5.98	5.55	4.59	5.24	1.97	6.33	2.59	6.69	4.29	4.959
August	2.54	5.99	3.02	3.07	1.69	1.86	1.74	2.50	4.04	6.12	3.257
September....	5.21	3.51	2.37	9.10	3.12	6.70	3.35	5.21	1.72	3.11	4.340
October.....	6.17	6.06	5.77	6.42	3.37	8.51	6.80	3.09	1.91	6.02	5.412
November....	7.01	6.28	8.01	5.85	2.13	3.96	3.89	4.03	11.01	1.44	5.421
December....	7.59	4.67	0.34	3.34	6.08	1.59	6.06	2.86	3.01	2.94	4.448
TOTALS	53.98	55.75	59.49	57.09	41.85	46.26	57.92	30.22	44.62	39.93	47.511

RAINFALL AT

Halifax Warley Moor

Lat.

Long.

County of

York W.R.

Rain Gauge, by

Observer

J. A. Pastern Eq. O.C.

Base Aire Calder 8

Diameter	7										
Height	0 6										
Altitude	1425 T					1325	1425				1325
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January	5.25	2.28	3.88	1.17	4.69	3.32	1.90	2.28	3.79	7.80	3.636
February99	.72	2.42	4.07	6.50	.76	2.25	2.61	4.02	1.96	2.630
March	3.72	2.42	.83	1.17	3.63	3.77	5.53	4.77	1.81	2.45	3.010
April	1.67	2.55	1.52	1.23	2.55	2.95	1.91	3.18	3.86	3.59	2.501
May	3.69	4.12	4.49	2.25	2.39	.87	.63	1.76	3.47	3.26	2.693
June	4.17	2.27	4.62	3.42	3.64	2.61	3.38	4.17	3.29	2.14	3.371
July	3.27	3.55	3.35	3.92	4.13	7.35	2.59	1.85	1.22	2.19	3.342
August	7.26	7.69	4.78	3.59	4.94	5.04	2.48	4.21	5.23	1.78	4.700
September	2.58	3.94	3.89	4.35	.68	2.04	8.22	4.79	1.02	7.91	3.942
October	3.23	5.30	6.93	4.79	5.91	4.49	6.12	2.10	6.86	3.98	4.971
November	6.60	4.65	2.92	3.54	3.34	5.74	2.07	4.72	3.35	2.26	3.949
December96	9.49	2.09	4.18	4.38	4.67	5.34	6.74	4.85	3.24	4.594
TOTALS	43.39	48.98	41.72	37.98	46.78	43.61	42.42	43.18	42.77	42.56	42.339

1860-

(A)

RAINFALL AT Halifax Warley Moor

Lat.

Lon.

County of York W.R. Central

Rain Gauge, by

Observer,

J. A. Packin Eng. C.E.
R. J. Hartley Eng. C.E.

Arie & Salter 8

Diameter ..	7										
Height ..	0	6									
Altitude ..	1325 T										
Year ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEDIAN.
January ..	5.26	3.31	3.04	4.11	4.42	2.30	6.54	2.08	3.65	2.69	3.740
February ..	4.90	1.94	1.59	5.23	4.91	2.48	2.90	2.76	3.35	2.72	3.278
March ..	1.18	3.20	2.53	5.80	3.15	3.63	3.13	3.94	4.16	3.21	3.393
April ..	2.49	3.16	2.53	2.47	3.28	3.54	1.85	3.11	2.95	4.07	2.944
May ..	2.08	1.47	3.62	4.29	3.34	.99	3.43	3.71	2.50	2.83	2.826
June ..	4.27	1.46	1.98	1.79	1.45	2.32	1.79	6.25	2.35	2.90	3.656
July ..	2.75	2.40	3.98	5.28	2.28	2.72	2.81	2.93	4.70	5.79	3.564
August ..	6.05	2.88	3.97	5.22	5.03	6.21	5.20	3.62	3.29	3.48	4.495
September ..	1.48	1.52	2.42	5.73	1.38	2.94	1.18	.86	3.03	3.89	2.473
October ..	5.42	3.72	5.39	12.73	1.92	4.13	7.08	6.51	2.82	5.00	5.502
November ..	4.71	6.76	3.16	3.40	3.94	5.54	5.40	3.00	3.48	1.82	4.121
December ..	5.60	5.13	4.57	2.20	3.32	1.28	3.76	4.72	2.76	6.02	3.941
TOTALS ..	46.19	36.94	38.78	58.25	38.42	38.13	45.37	43.49	39.34	44.42	42.923

H.W.

RAINFALL at Halifax Warley MoorCounty of W.R. YorkshireObserver R. J. Hartley Esq. C.B.River Basin Orme-Aire-Calder 8

Rain Gauge, by _____

Diameter ...	7	8												
Height	0.6	1.2												
Altitude ...	1325T													
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919				
January ...	5.07	2.07	5.43	4.78	3.72	6.42	3.04	2.58	3.23	4.33	13.08			
February ...	5.27	4.77	2.38	2.16	2.81	4.62	5.12	1.05	4.55	1.41	12.13			
March96	2.30	4.25	5.53	5.44	1.28	4.16	2.56	1.57	5.01	11.30			
April	4.57	2.07	1.20	4.44	1.39	1.45	2.91	1.14	1.06	1.70	6.81			
May	2.66	1.47	3.25	3.55	1.54	2.61	2.94	2.26	3.45	1.66	10.31			
June.....	3.54	3.87	8.00	2.33	3.18	.71	2.50	2.04	1.56	1.41	7.51			
July	4.47	.85	7.40	1.55	3.35	5.08	2.33	2.27	3.81	2.78	11.19			
August	5.53	2.28	7.06	1.56	2.68	6.14	2.81	5.86	2.68	3.28	14.63			
September ..	.24	3.45	2.58	2.20	2.92	.58	2.22	1.53	10.76	1.68	16.18			
October ...	3.63	4.39	5.08	2.93	3.24	1.78	7.55	6.44	2.73	6.35	20.07			
November ...	4.59	4.29	3.55	5.00	6.35	1.97	3.89	3.64	1.98	3.96	13.37			
December ...	5.82	5.79	5.28	3.17	7.04	7.61	3.23	1.69	7.06	6.51	18.49			
TOTALS ...	46.35	37.60	55.46	39.23	43.66	40.35	42.70	32.96	44.43	34.98	155.07			

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.

Halifax W.W.

3254
20RAINFALL at Worley Moor new g.County of Yorkshire W.W. Observer Southern, Halifax W.W.

River Basin Ouse - Aire - Calder 8. (1929) E.P. Booth Esq.,

Snowdon Rain Gauge, by

Diameter ...						8						
Height						1.0						
Altitude ...						1325						
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS.	1920-30 TOTALS
January ...				18.80	3.08	4.63	4.10	3.73	10.98	1.50	6.51	53.27
February ...				14.32	1.18	5.73	4.26	1.57	4.68	.78	1.48	33.95
March				11.47	1.45	1.88	2.28	4.38	2.65	.79	1.93	26.83
April				14.76	2.63	3.92	1.92	3.90	1.74	1.58	3.52	33.37
May				12.62	5.41	5.47	4.32	1.38	2.04	2.62	2.13	35.99
June				6.17	3.18	.04	3.04	3.87	6.55	1.51	1.69	26.05
July				19.61	4.86	1.20	3.06	2.74	1.26	2.55	8.65	43.92
August				19.26	5.11	3.95	3.56	8.31	5.88	3.92	6.34	55.53
September...				14.31	5.31	3.85	3.82	5.79	.60	1.24	5.69	40.61
October	Sealed gauge			11.94	4.77	5.96	4.35	4.56	6.73	5.08	6.41	44.20
November...				12.66	3.53	2.43	6.86	4.37	7.16	7.30	6.17	50.50
December...				19.20	5.47	4.59	2.21	1.70	2.32	8.16	3.67	47.32
TOTALS...				175.12	46.00	43.65	43.77	46.30	50.53	36.98	54.19	446.54

Annual average rejected from survey.

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
1925			Luddendenfoot	5 1/2 m	S	Sowerby Bridge	6 1/2 m	SSE

RAINFALL at Halifax N.W. Morley Moor

County of W. R. Yorkshire Observer P. J. Hartley Esq. B.E.
 River Basin Usk - Aire - Calder R.P. Brooke (22)

Snowdon Rain Gauge, by

8.02
8.05
1.98} n + 2. Glass correct (flat)
 with can scales.

Diameter ...	9										
Height	1 2 <th data-cs="10" data-kind="parent"></th> <th data-kind="ghost"></th>										
Altitude	1325										
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS.
January ...	3.69	7.76	3.74	3.61	3.16						
February ...	2.82	3.30	3.90	7.30	1.46						
March	3.09	2.45	3.55	2.38	1.66						
April.....	6.25	1.58	4.00	2.93	2.83						
May	4.98	2.27	.82	4.60	5.46						
June	2.66	1.18	2.37	0.96	3.29						
July	8.66	1.85	4.63	4.47	5.07						
August	1.65	5.21	6.74	5.56	4.81						
September..	2.25	1.65	4.75	5.66	5.23						
October.....	2.78	2.80	1.13	5.23	4.83						
November...	2.19	2.85	2.14	5.48	3.67						
December...	4.06	5.94	4.23	4.97	4.97	See next gauge					
TOTALS...	45.70	33.69	42.00	53.15	46.44						
						W					

Inspected 3.3.22. S. in fairly good position on open moor with some shelter all round.
 1924. N.P. S. defective.

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

RAINFALL at Halifax W.W. (Warley Mts.) *note*

County of West Riding.

Observer E.P. Brook, Esq., C.E.

River Basin Ouse-Aire-Calder 8

J. Bell Wood C.E. (1939)

Type of Gauge

480 9 overlap with Halifax Survey

Annual Average ~~4.15 in.~~ based on ~~6~~ years obs unweighted. Period of average ~~1922-1925~~ Ref. ~~15~~

660559/26

Diameter	8.											
Height	1.0.											
Altitude	1325.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1931-40 Means Totals	
January	5.06	5.03	2.81	3.78	2.10	4.70	4.61	6.55	6.63	2.81	44.08	
February	5.33	.42	5.54	4.48	6.93	2.43	5.59	2.00	4.09	2.24	35.05	
March	.59	2.30	2.42	2.94	2.12	2.77	2.17	2.10	3.47	3.65	24.53	
April	4.18	3.61	2.07	3.11	5.01	2.10	3.05	.68	2.19	4.42	30.42	
May	3.32	5.89	2.70	2.72	.89	1.82	2.34	4.41	1.58	1.47	26.64	
June	6.61	.83	2.44	2.28	4.15	4.30	2.88	4.80	3.35	.76	32.40	
July	4.56	3.79	2.38	3.82	2.15	4.56	2.89	5.33	7.30	4.40	41.18	
August	5.25	1.66	1.06	3.99	1.49	3.22	2.13	6.20	3.79	1.98	31.47	
September	4.40	4.74	2.16	3.02	7.02	5.35	1.71	2.40	2.23	4.23	37.26	
October	2.72	7.81	5.43	5.60	10.79	5.12	2.35	10.27	4.08	5.40	59.57	
November	8.93	3.72	2.92	2.68	7.51	5.53	1.82	7.02	7.05	8.32	55.50	
December	2.07	1.98	0.66	6.74	3.62	5.18	2.66	4.58	3.64	4.17	34.70	
TOTALS	53.02	41.18	33.39	41.16	53.78	47.08	34.20	56.34	48.80	43.85	452.80	
	w.											

Drepected 6.4.38.

Annual average rejected from survey. Letter 29/833

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
			Luddenden Foot	3½ m.	S.	Luddenden	3 m.	S.S.E.

Station No. 3254 T.F.

RAINFALL at Halifax W.W (Wardley Moor)

41

County of West Riding

Observer J. Noel Wood Esq. C.E.

River Basin Ouse - Aire - Calder - S

H. F. Lea Esq. C.E. (1944)

Type of Gauge.

A. C. WARDSMITH, Esq. (1.VI.50)

Annual Average 43.0 in. based on 2 years overlap with Halifax Library

Ref.

File No. 660559/26

Diameter	8'	077	603								
Height	1' 0"			1							
Altitude	1325'			41							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1941-50 Means 1036.15
January	(3.49)	(5.31)	5.49	7.13	(4.59)	4.56	4.90	9.94	2.29	3.95	51.56
February	5.88	(2.02)	2.89	2.10	5.29	5.49	4.42	4.14	3.22	6.98	42.43
March	4.56	2.90	1.43	5.4	1.55	1.58	7.89	1.73	1.46	3.18	26.77
April	2.75	1.97	2.48	4.03	3.29	1.80	4.22	2.88	4.71	4.60	32.73
May	3.11	4.25	3.37	3.29	3.96	2.00	4.87	1.26	3.18	2.78	32.02
June	.54	1.51	4.18	3.53	4.20	3.29	3.11	4.61	.73	2.07	27.77
July	1.54	3.85	3.01	4.76	2.53	4.38	2.86	1.62	3.73	4.86	33.14
August	6.16	4.62	5.73	3.72	4.49	7.11	.33	4.98	3.77	6.72	47.63
September	.64	2.73	4.65	7.08	2.89	7.21	3.24	2.87	1.41	2.77	40.49
October	5.34	6.33	3.22	5.39	6.69	1.37	1.70	2.25	5.21	2.71	40.21
November	3.85	1.68	3.36	7.59	.97	8.69	6.37	2.18	7.09	6.24	48.02
December	2.91	3.48	3.04	4.76	2.86	3.22	4.43	4.21	7.73	3.27	39.91
TOTALS	40.68	(40.65)	42.85	53.32	43.31	5070	48.34	42.67	44.53	55.03	462.68

1941 Jan. part. cold

400004

1942 Jan & Feb. part cold

1945 Jan part cold for snow

40004/60004

Av 2 inches less 1952.

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

Station No. 3254 T.F. 44

RAINFALL at ^S Halifax M.M. (Marley Moor)

County of West Riding - Yorks.

Observer

P. C. Wildsmith Esq., C.E.

River Basin. Dese - Aire - Calder - S

A. J. L. Gray, Esq. B.Sc. (M.I.M.E.)

Type of Gauge. MK II (on inspection)

9 years overlaid with Halifax Observ.

Annual Average 43.8 in. based on years obs. un-weighted. Period of average

Ref. 5

" " 47.75 " " 20 " " 1938-57 "

File No. 660559/26

Diameter	8"	077	603								5" on 10%.
Height	1' 0"			1							
Altitude	1325'			51							
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means Total 8
January	5.92	5.53	1.94	4.81	3.19	6.54	4.57	4.95	4.47	5.76	47.68
February	4.17	2.17	3.98	4.26	4.36	2.67	3.84	8.98	.78	4.66	39.87
March	5.86	2.64	2.40	3.39	3.71	2.21	3.68	3.22	1.98	2.59	31.68
April	2.51	3.09	3.53	.59	1.90	3.73	.48	1.68	4.29	3.14	24.94
May	4.76	2.30	2.73	3.95	3.75	1.91	1.40	5.93	2.09	2.57	31.39
June	1.44	3.54	3.76	2.77	3.18	4.24	2.61	6.88	3.69	1.45	33.56
July	3.81	2.24	5.64	5.09	.71	7.04	4.96	4.84	3.00	6.03	43.36
August	5.19	5.81	6.78	9.48	1.17	10.44	6.35	4.83	1.52	5.69	56.76
September	3.32	5.45	4.90	6.03	2.56	5.27	6.32	5.18	.60	3.14	42.77
October	1.70	5.74	2.77	9.06	3.12	2.94	5.69	4.77	5.59	7.37	48.75
November	11.03	3.21	5.46	7.93	2.97	1.95	2.97	1.52	6.20	8.07	51.31
December	8.93	4.71	2.57	9.60	7.04	5.93	5.33	5.69	9.13	5.28	64.21
TOTALS	58.64	46.43	45.46	67.46	37.66	54.87	48.20	58.47	43.34	55.75	516.28
	W	W	W	W	W	W	W	W	W	W	

Inspected 15.8.55 Mr. Darley. Gauge stem loose, found tilted re-levelled during visit. Measured certified. Site off S4W but best available. Recommended re-siting to turf wall. Curried out - ellis 19.12.55 1956 Rather low but accept.

^STurf wall

Position of Station on Ordnance One-Inch map : No. of Map 96 National Grid Reference 9E 446/032312

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

Summary of Earlier Records from 10-year Sheets :

1916-1950, P - Rejected

Record D. or d		1910-19 ④	1920-30 ④	1931-40 ④	1941-50 ④	1951-60
		✓ -	20-23 N.G. 24-30 -	✓ -	✓ -	