

## RAINFALL AT Halifax Open 31

Lat..... Lom..... County of York, N.R.  
 Rain Gauge, by..... Observer J. F. Baden-Powell Esq., F.R.S.

Diameter .....							8				
Height .....							1.3				
Altitude .....			990								
YEAR	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	3.20	1.00	5.03	4.25	3.29	6.17	1.23	5.62	4.14	1.15	3.508
February.....	2.00	3.10	2.87	1.10	1.37	.88	4.12	2.98	1.94	3.90	2.426
March.....	2.40	1.20	4.22	3.70	3.94	1.66	4.12	3.83	1.79	2.26	2.912
April.....	1.00	4.60	4.40	4.55	2.25	1.26	3.06	4.50	2.17	2.23	2.592
May.....	1.50	2.00	2.30	3.22	1.96	1.77	.94	2.88	5.00	1.57	2.314
June.....	1.90	3.70	5.80	1.65	1.33	3.97	3.05	2.27	2.90	6.44	3.301
July.....	.40	3.90	3.57	3.66	2.27	7.10	1.79	4.45	.96	6.33	3.443
August.....	2.00	1.40	3.94	3.73	3.80	4.22	3.82	4.04	7.37	6.09	4.043
September.....	1.60	5.10	6.13	2.21	4.23	4.53	4.52	4.17	4.57	2.63	3.969
October.....	9.40	3.40	5.85	4.10	5.12	6.04	4.22	5.03	5.80	3.27	6.223
November.....	3.40	1.20	5.71	3.36	4.27	5.28	3.81	4.28	3.31	1.76	3.658
December.....	2.90	2.00	3.44	1.36	2.35	2.36	8.85	3.54	2.13	3.78	3.271
TOTALS.....	31.70	32.60	53.26	33.01	36.18	45.24	43.53	47.59	42.08	41.41	40.660

RAINFALL AT *Halifax, Ogden***80**

Lat.

Lon.

County of *York*

Rain Gauge, by

Observer

*J. A. Parkin, Esq., C.E.**Ouse. Ave & Collier S.*

Diameter .....	8										
Height .....	1.3										
Altitude .....	990 T										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January .....	.51	.41	.94	6.47	8.19	2.79	6.29	2.13	1.98	2.20	3.591
February .....	4.56	5.47	3.99	2.82	3.41	4.01	1.01	.95	1.43	2.13	2.978
March .....	4.50	6.19	5.43	.96	2.55	2.41	3.19	2.63	4.60	5.05	3.751
April .....	2.28	2.69	5.80	2.87	1.97	2.15	3.29	1.36	3.74	4.32	3.047
May .....	3.22	2.85	1.78	1.38	2.58	3.71	4.62	2.63	1.17	2.56	2.650
June .....	4.01	2.62	5.09	3.96	1.21	3.65	2.04	.23	2.81	1.00	2.767
July .....	6.04	6.11	5.73	4.37	4.68	1.67	5.97	2.09	6.97	3.95	4.758
August .....	2.35	5.64	2.79	2.77	1.67	1.44	1.71	2.16	4.03	5.49	3.005
September....	4.84	2.90	2.12	8.38	2.74	5.80	3.05	5.41	1.30	2.53	3.907
October.....	4.58	5.12	5.25	7.01	4.42	8.05	6.36	3.09	1.70	5.93	5.151
November....	5.74	6.23	9.08	5.91	2.46	3.54	3.95	3.65	10.74	1.41	5.272
December....	7.05	5.04	5.08	4.06	7.43	1.90	7.01	2.91	02.81	3.28	4.657
TOTALS .....	49.68	51.27	58.08	50.96	43.36	41.12	48.49	29.25	43.28	39.85	45.534

RAINFALL AT Halifax Ogden

Lat.

Lon.

County of

York W.R.

Rain Gauge, by

Observer

J. A. Packard C.E.

One - Area Gated 8

Diameter .....	8											
Height .....	1 3											
Altitude .....	990 <sup>5</sup>											
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January .....	5.59	3.55	4.69	1.53	6.04	4.50	1.96	2.86	3.94	7.19	4.185	
February .....	1.13	.59	3.56	5.73	7.88	.77	1.88	3.48	4.50	2.36	3.188	
March .....	3.92	2.88	1.42	1.33	4.14	3.61	6.01	5.30	1.61	2.54	3.276	
April .....	1.85	2.59	1.84	1.16	2.89	2.78	2.43	2.97	3.75	3.40	2.566	
May .....	3.85	3.79	3.93	2.35	2.67	.90	.63	1.78	3.44	3.57	2.691	
June .....	4.07	2.00	4.34	2.76	3.73	3.50	4.07	4.32	3.10	2.39	3.228	
July .....	2.71	3.28	3.20	3.71	4.02	7.41	2.46	1.76	1.32	2.12	2.199	
August .....	6.74	8.20	4.35	3.25	4.48	5.31	2.26	4.45	5.46	2.03	4.652	
September .....	2.59	3.41	3.65	3.88	.89	2.25	7.78	4.21	.85	7.13	2.664	
October .....	2.89	5.52	9.41	4.56	6.72	4.26	6.01	2.10	6.02	3.84	5.122	
November .....	6.71	4.65	3.07	4.13	3.23	5.36	1.85	4.89	3.84	2.34	4.009	
December .....	1.29	10.16	2.74	4.70	4.08	5.34	5.54	6.32	5.20	3.68	4.905	
TOTALS .....	43.34	50.62	46.20	39.09	50.77	44.99	42.88	44.44	43.03	42.59	44.796	

1870

## RAINFALL AT Halifax Ogden

Lat.

Lon.

County of York W.R. Central

Rain Gauge, by

Observer J. A. Packini Esq. C.R.

R. J. Hartley Esq. C.E.

Air &amp; Barometer

Diameter ..	8										
Height ..	1 3										
Altitude ..	990 ft										
Year ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	5.49	3.16	2.80	3.65	4.18	2.01	6.80	1.80	3.19	2.36	3.544
February ..	4.61	2.09	1.50	4.31	5.40	2.26	3.17	2.41	2.72	2.27	3.074
March ..	1.05	3.44	2.06	5.78	3.01	3.29	3.20	3.57	3.93	3.46	3.279
April ..	2.28	3.02	2.24	1.91	2.60	3.12	1.95	2.94	2.98	3.96	2.500
May ..	1.69	1.46	3.41	3.81	3.16	.99	3.43	3.62	2.65	2.87	2.709
June ..	3.61	1.40	2.03	1.57	1.11	2.75	1.70	5.94	2.02	2.70	2.486
July ..	3.01	1.90	3.18	4.29	2.28	2.51	2.86	2.92	4.41	5.17	3.253
August ..	5.71	2.46	4.10	4.55	5.37	5.70	4.47	3.19	3.18	3.30	4.203
September ..	1.27	1.74	2.18	5.92	.97	2.54	1.00	1.05	3.16	3.70	2.353
October ..	5.52	2.44	4.62	11.87	1.52	3.84	7.23	6.06	2.80	4.89	4.979
November ..	5.10	5.68	3.01	3.21	3.42	5.03	5.24	2.88	2.76	1.64	3.797
December ..	5.32	8.67	4.23	2.54	2.86	1.28	4.36	4.32	3.14	6.12	4.284
TOTALS ..	44.66	37.46	35.36	52.91	35.88	35.32	45.41	40.70	36.94	41.97	40.01

Hussey

## RAINFALL at Halifax Ogden

County of W.R. Yorkshire Observer R. J. Hartley Esq. C.E.

River Basin Aire-Aire-Calder 8

new pattern  
Cleghorn Rain Gauge, by  
project order diam: 7.95  
8.05

Diameter ...	8										
Height .....	1.3										
Altitude ...	990.7										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	5.64	1.92	5.91	4.59	3.82	6.29	3.74	2.42	3.18	5.19	
February ...	4.56	5.29	2.49	1.93	3.23	4.54	5.77	.79	6.06	1.83	
March .....	.86	2.15	4.44	5.19	5.66	1.80	4.25	3.01	1.88	5.80	
April .....	3.66	2.13	1.34	4.61	1.62	1.70	2.88	1.62	1.06	1.98	
May .....	2.67	1.48	3.73	3.57	1.62	2.31	2.89	2.23	3.73	1.99	
June .....	3.06	3.78	7.32	2.23	2.52	.53	2.32	2.25	1.84	1.29	
July .....	3.84	.52	6.17	1.48	3.51	5.42	2.20	1.80	4.29	2.84	
August .....	5.31	2.51	6.82	1.40	2.78	5.75	3.23	6.14	2.29	3.09	
September ..	.31	3.46	1.98	2.15	2.58	.47	2.25	1.97	10.59	1.74	
October ...	4.10	4.55	5.19	2.81	3.00	2.03	8.07	7.40	2.69	2.71	
November ...	5.11	4.88	3.55	4.98	6.67	2.34	4.25	4.85	1.95	3.72	
December ...	5.68	5.87	5.62	3.15	7.66	8.29	3.41	2.34	6.68	6.85	
TOTALS ...	44.80	38.54	54.56	38.09	44.67	40.97	45.36	36.82	46.21	37.91	

Inspectored Oct. 17 x 1917. G. set in hole in stone on steep slope about 130 yds from meter on south side of reservoir. 2 ft above pass on upper side & 2 ft 6 in on lower. Best position available.

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

## RAINFALL at Halifax N.W. Ogden

County of W.D. Yorkshire

Observer P. J. Hartley Esq. G.E.

River Basin Ouse-Aire-Calder S

R. P. Brook (22)

Snowdon Rain Gauge, by

$\frac{5.02}{2.01}$  no tube  
 $\frac{2.01}{1.98}$  suggested bottle. N+Z glass  
 correct (flat)

1565 ft. above sea level

Diameter ...	5"											
Height .....	0	10					1.0					
Altitude ...	990											
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	MEANS.
January ...	4.37	7.68	4.31	3.25	3.26	5.18	4.95	4.24	11.67	1.95	6.54	
February ...	3.77	3.31	4.67	7.03	1.51	7.28	4.11	1.87	5.56	.90	1.70	
March .....	3.03	3.37	3.18	2.39	1.38	2.07	2.51	4.57	2.69	.74	2.85	
April.....	5.34	1.53	3.80	2.82	2.57	3.64	2.01	3.44	.89	1.51	3.66	
May .....	5.51	2.11	1.03	4.29	5.26	5.27	4.29	1.59	1.89	2.28	2.05	
June .....	2.72	1.18	2.23	0.93	2.68	.03	2.90	3.92	6.64	1.34	2.38	
July .....	7.80	2.42	5.01	3.83	4.87	1.45	3.40	2.84	1.20	2.63	6.49	
August .....	1.85	5.88	5.94	5.06	4.68	3.68	4.20	7.22	5.32	4.10	6.02	
September...	1.95	1.73	4.73	5.30	4.86	3.59	3.54	5.67	.57	1.24	6.71	
October.....	2.39	2.83	.98	5.16	4.43	5.12	4.58	4.87	6.65	5.29	6.84	
November...	2.94	2.94	2.26	6.65	3.42	2.86	6.67	4.77	7.77	7.76	7.15	
December...	4.33	7.12	4.10	3.73	4.98	5.18	1.87	1.99	2.43	9.50	4.81	
TOTALS...	46.00	38.10	42.24	50.48	43.92	45.35	45.36	46.99	52.28	36.00	(54.0)	
				M	D	D	D	D	D	D	D	

Inspected & 31.12.22. On side of reservoir sloping slightly down to reservoir (but only small fall to water) and sheltered sufficiently by a wall and excellent position.

Amended for last

Position of Station on reduced Ordnance Survey Map, 2 miles to 1 inch Series	No. of Map	Reference No.
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Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1925	53° 46' 15" N	10° 52' W	Ovenden	2 m	SSE	Halifax	4 m.	SSE.

## RAINFALL at Halifax W.W. (Ogden)

County of West Riding,

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

River Basin Ouse-Aire-Calder-8.

T. Roth Wood C.E. (1939)

Type of Gauge

Annual Average 43.5 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. 5  
660559/26

Diameter	5.											
Height	1.0.											
Altitude	990.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January	6.51 (4.60)	2.74	3.57	2.21	3.06	4.85	6.28	5.87	2.66			t
February	5.45 (3.30)	6.76	3.34	7.34	3.07	6.64	1.62	4.50	2.45			
March	4.40 (2.20)	2.65	4.03	2.18	2.51	3.34	1.33	3.32	3.32			
April	5.14 (3.50)	2.06	3.06	5.43	1.49	3.03	1.55	1.92	3.82			
May	4.65 (6.25)	2.60	2.43	1.84	1.39	2.75	3.71	1.57	.98			
June	6.99 .65	2.14	2.48	3.90	4.63	2.86	4.01	2.93	1.68			
July	4.64 3.71	2.71	2.38	1.87	4.12	2.76	4.79	6.49	2.88			
August	6.18 1.49	1.66	3.14	1.46	2.78	1.46	6.96	4.03	1.52			
September	5.56 4.44	2.00	2.44	6.44	4.73	1.61	1.97	1.51	3.90			
October	3.77 6.99	4.95	4.88	9.84	3.88	2.85	9.08	3.22	4.36			
November	10.60 3.47	2.69	2.44	6.76	5.43	2.25	6.40	7.29	7.13			
December	3.32 1.75	.69	6.14	4.08	5.03	2.66	4.00	2.75	3.27			
TOTALS	(54.09)*	63.24 (38.35)	32.65	37.33	52.35	44.12	37.06	49.70	45.40	36.97		
	D	D	D	D	D	D	D	D	D	D		

1931 np big! amended for leak

1932. This gauge was installed on 1/VI. as 1930-1931 had been queried as too big.

Jan-May were amended by surrounding stations + proportionate. The 1932 total

was not published owing to the amendment.

1933. Record OK. + rejected 6.4.38. Site affected by trees near gauge.

1.7.38. Gauge moved 1yd. w. Now now set in concrete.

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
			Holmfeld	1.4m	S.E.	Halifax	4m.	S.S.E.

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

Station No. 3255 T.F.

41

## RAINFALL at Halifax W.H. (Ogden.)

County of West Riding

Observer J. Noel Wood Esq.C.E.

River Basin Ouse - Aire Calder 8

H F Lea Esq. C.E. 1946

Type of Gauge.....

Annual Average 43.5 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. S

File No. 660559/26

Diameter	5"	077	950								
Height	1' 0"										
Altitude	990'		41								
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	3.74	4.97	5.60	5.78	3.98	4.36	3.57	9.51	2.44		
February	5.80	2.06	2.88	1.62	4.76	5.90	4.00	3.84	3.66		
March	4.42	2.92	1.30	3.39	1.10	1.52	7.54	1.64	1.94		
April	1.78	1.91	2.35	3.90	2.72	1.75	4.44	2.87	4.92		
May	2.57	3.79	3.15	2.72	3.57	1.86	4.04	1.18	3.09		
June	4.46	1.36	3.83	3.20	3.90	2.99	2.97	4.97	1.87		
July	1.97	3.06	2.50	4.34	2.12	4.08	2.49	1.19	3.96		
August	5.46	4.06	5.01	3.46	5.37	6.62	3.31	4.11	4.66		
September	1.54	2.68	4.44	7.10	2.39	6.86	2.13	1.95	1.17		
October	5.27	5.19	2.57	4.55	6.17	1.20	1.27	2.14	4.65		
November	3.28	1.38	2.91	7.42	6.8	7.39	6.33	1.96	6.75		
December	2.70	3.18	2.25	4.69	2.60	3.29	3.97	4.02	1.57		
TOTALS	36.99	36.56	38.79	43.17	39.36	47.82	43.06	39.38	45.44		
	D.P.										

1942 n.p. low. Obs. equal to from trees.

1943 n.p. about 4 in low

1944 n.p. low. 1945 n.p. low

1946 Superior state of shelter by wall. Chil. g. set up on other side of embankment.

1947 n.p. low

See 3255/1

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

Reference No. SE 064 306

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

Station No. 32551

T.F.

RAINFALL at Halifax W.W. (Ogden) ~~etc.~~

41

County of West Riding

Observer T. Noel Wood Esq C.E.

River Basin Ouse - Aire - Calder - 8

H. F. Lea Esq C.E. M.A.R.S.T.H. Esq (1.VI.50)

Type of Gauge.....

A.C. W.M.B.S.M.T.H. Esq (1.VI.50)

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

Ref.....

File No. 660.539/26

Diameter	077	949	5'								
Height		1	1' 0"								
Altitude		41	990								
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January				100	443	3.66	9.47	2.46	2.71		
February					5.92	3.97	3.70	3.60	6.64		
March					1.58	7.71	1.83	1.94	2.32		
April				100	1.77	4.54	2.91	4.72	4.87		
May					3.62	1.87	4.08	1.25	3.09	2.28	
June					3.95	3.05	2.95	4.78	.57	1.19	
July					2.12	4.10	2.53	1.26	3.96	4.36	
August					5.35	6.62	.32	4.27	4.66	6.98	
September					2.40	6.90	2.19	2.08	1.17	6.43	
October					6.13	1.20	1.35	2.20	4.65	2.40	
November					.68	7.37	6.50	1.96	6.75	6.70	
December					2.64	3.27	4.05	4.16	7.57	2.66	
TOTALS					100	48.08	43.85	39.87	45.14	47.01	
					D	D	D	D	D	D	

1946 N.P. check.

1947 Adopt as representative instead of 3255  
1948 To be moved 58ft from tree

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	Parish Church.	Distance from gauge

Station No. 3255/2

## RAINFALL at Ogden (Check Gauge No. 2)

41

County of Wiltshire

Observer H. J. G. E. C. E.

River Basin Ouse, Avon, Colmer's

A. C. W. M. R. S. M. I. T. H. Esq. (1.VI.50)

Type of Gauge

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

Ref.

File No. 662587/6

Diameter	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
Height											
Altitude											
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	
January								3.64	4.30	1.89	
February								4.13	3.37	2.76	
March							2.18	8.03	1.50		
April							1.94	4.13	2.83		
May							2.11	4.32	1.22		
June							2.83	2.97	4.80		
July							3.84	2.19	1.12		
August							6.37	3.36	4.13		
September							6.85	1.85	1.72		
October							1.33	1.42	1.78		
November							7.17	6.13	1.75		
December							3.69	3.90	3.54		
TOTALS							n.p. inc.	43.07	37.06		
							n.p. inc.		n.p.	n.p.	

1947 n.p. low  
 1948 Normal to average sea position, in about 53° SW, in 1st July  
 1948 n.p. low.

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. 32551 W. 44

## RAINFALL at Halifax W.W. (Garden)

County of West Riding-Yorks. Observer G. G. Holdsworth, C.E.

River Basin. Ouse - Aire - Calder &amp;

A. L. Gray, Esq., B.Sc. (M.A.)

Type of Gauge. MK1A (inception)

Annual Average..... in. based on..... years obs. un-weighted. Period of average..... Ref.....  
 " " 42.34 " " 12 " " 1946-47 " " 1916-50  
 File No. 660559/26

Diameter	5"		077	949							
Height	1' 0"			1							
Altitude	990'			51							
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January	4.75	4.23	1.38	3.63	2.26	6.40	3.71	4.27	3.28	5.85	
February	3.44	1.36	3.19	4.24	3.18	1.76	3.48	7.27	.48	3.49	
March	4.65	2.65	2.02	2.89	3.04	1.67	3.62	2.29	1.81	2.23	
April	2.08	2.87	3.31	.52	1.62	3.70	.37	1.30	4.15	2.50	
May	4.21	2.95	2.35	3.34	3.29	1.97	1.49	5.35	2.18	2.24	
June	1.21	3.02	3.38	2.22	2.56	3.83	2.03	5.87	3.82	1.39	
July	3.37	1.56	4.28	3.59	.73	5.91	3.69	4.44	2.77	5.65	
August	4.69	5.30	5.34	8.49	.91	8.52	4.65	4.13	1.36	5.42	
September	2.88	4.27	3.36	4.78	2.08	4.17	5.42	4.67	.37	3.27	
October	1.43	5.13	2.22	4.76	2.57	1.86	5.49	3.91	4.93	6.25	
November	9.69	2.37	5.12	6.42	2.67	1.99	2.63	1.33	5.34	7.46	
December	7.56	4.02	2.12	4.41	6.10	5.22	4.91	5.62	7.88	5.17	
TOTALS	4996	39.73	38.07	55.29	31.01	45.80	41.49	50.45	38.37	50.92	
	D	D	D	D	D	D	D	D	D	D	

Inspected 15.5.55 m. Gauges. Gauge sound. measure certified. Site of N. Provision Experiments (3.5.48, later info) indicated this site as best available.  
 Aug 1957. G. tested & found sound.

Position of Station on Ordnance One-Inch map :	No. of Map	96	National Grid Reference			
Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.

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

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
				Aug 1945 np 46 ✓	