

## RAINFALL AT Halifax Widdop.

70

Lat.

Long.

County of

York

Rain Gauge, by

Observer

J. E. Lambert Esq

Diameter.....											
Height.....											
Altitude.....											1050
Year .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....											1.09
February.....											3.96
March.....											1.79
April .....											2.37
May.....											1.53
June .....											7.45
July.....											7.29
August .....											6.95
September.....											2.51
October.....											3.40
November....											2.32
December ....											2.77
TOTALS .....									(60.00)	(48.00)	43.43

also for Burnley 108

RAINFALL AT Halifax, Niddon**80**

Lat.

Lon.

County of

York

Rain Gauge, by

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

Diameter .....											
Height .....	1	3									
Altitude .....	1050										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January .....	3.33	2.28	4.42	5.83	6.12	2.86	10.08	2.68	2.22	2.12	3.694
February .....	4.28	6.14	4.10	4.20	4.41	6.26	1.18	1.00	1.38	2.25	3.520
March .....	3.65	7.07	4.55	2.26	3.57	3.21	3.77	2.48	4.18	3.84	3.858
April .....	2.49	1.68	7.10	2.88	2.94	3.02	3.38	1.35	3.21	3.35	3.146
May .....	2.99	3.18	1.87	1.83	1.97	3.92	6.04	2.46	1.50	2.73	2.849
June .....	6.29	2.68	5.19	4.30	1.07	4.46	2.22	.32	3.71	.45	3.169
July .....	5.33	6.04	6.61	3.99	5.61	1.87	4.49	2.92	6.42	3.84	4.712
August .....	1.94	6.60	4.08	2.72	1.86	2.01	2.69	2.04	5.57	6.25	3.576
September....	4.24	2.77	2.52	7.96	3.10	6.45	2.99	5.43	1.87	3.25	4.067
October.....	9.28	4.23	5.54	5.17	3.71	8.29	7.52	3.38	2.23	6.14	5.536
November....	5.40	5.99	7.8	5.11	2.52	4.19	3.97	4.16	9.94	1.97	5.109
December....	7.58	6.00	4.53	3.63	6.26	2.51	6.32	3.28	3.09	3.41	4.671
TOTALS .....	53.80	52.66	59.48	49.87	43.14	49.05	54.65	31.50	45.32	39.60	47.907

## RAINFALL AT

Halifax Widdop

Lat.

Long.

County of

York W.R.

Rain Gauge, by

Observer

J. A. Paston Esq. C.L.Ouse - Aire & Calder 8

Diameter .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January .....	5.32	2.77	5.97	1.84	5.35	3.03	2.10	2.71	3.89	7.12	11.010
February .....	1.10	.68	3.85	5.15	6.21	.67	2.40	3.58	3.84	1.91	2.939
March .....	4.00	3.00	1.69	1.95	4.46	4.41	6.99	4.91	2.51	2.83	2.675
April .....	1.52	2.41	2.25	1.29	2.51	3.26	3.29	3.85	4.05	4.21	2.814
May .....	3.54	4.47	4.90	2.58	2.97	.78	.95	2.54	4.61	3.35	3.069
June .....	4.48	2.06	4.44	3.75	4.52	3.10	3.64	4.06	3.67	1.65	3.589
July .....	3.45	4.34	2.87	4.42	5.11	5.94	2.63	2.30	1.42	3.00	3.548
August .....	7.29	8.97	5.33	5.25	6.38	5.26	3.18	5.78	5.20	1.73	5.437
September .....	3.36	4.26	4.38	6.08	.42	2.47	9.21	5.45	1.57	7.57	11.177
October .....	3.48	5.68	8.91	5.18	7.50	6.08	6.28	2.45	6.40	3.85	5.581
November .....	7.96	5.38	3.05	4.35	3.92	7.40	2.49	4.48	3.61	2.47	4.511
December .....	1.04	9.94	2.96	5.08	4.37	6.46	7.40	6.86	6.94	3.48	5.163
TOTALS .....	46.54	53.96	50.60	46.92	53.72	48.86	50.56	48.47	47.71	43.17	49.057

1880

(1) -

RAINFALL AT Halifax Widdop  
 Lat. .... Lon. .... County of York w.R. Central  
 Rain Gauge, by ..... Observer J. A. Raskin Esq C.I.  
R. J. Hartley Esq C.I.

Aire & Calder 8

Diameter ..	...										
Height ..	103										
Altitude ..	1050										
Year ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	M.R.A.N.R.
January ..	5.49	2.91	3.95	5.14	4.52	2.51	8.11	1.92	2.49	2.17	3921
February ..	5.29	2.34	1.64	5.11	4.52	2.77	2.99	2.05	2.21	3.13	3205
March ..	1.18	4.02	2.69	6.09	2.68	4.23	2.89	3.28	3.62	3.10	3378
April ..	2.82	3.18	2.86	2.52	3.14	3.79	.99	3.39	2.68	3.76	2913
May ..	2.68	1.69	4.08	3.93	3.26	1.21	4.05	3.74	2.44	2.49	2957
June ..	4.21	1.91	2.06	2.20	1.27	2.79	2.00	6.98	2.27	3.11	2880
July ..	3.27	2.01	4.34	4.94	2.75	2.54	3.03	2.95	5.22	6.33	3738
August ..	6.74	2.63	3.27	5.74	5.28	4.78	4.59	4.10	4.51	3.84	4548
September ..	1.71	1.45	2.18	5.56	1.57	3.16	1.39	.80	3.67	2.92	2441
October ..	6.08	4.21	5.19	11.72	1.87	3.64	6.96	7.05	2.89	5.03	5464
November ..	4.61	8.08	3.45	3.63	3.54	5.66	5.69	2.57	3.05	1.57	4185
December ..	4.93	6.98	4.39	2.93	3.76	1.57	4.87	3.76	3.14	4.86	4119
TOTALS ..	49.01	41.41	40.10	59.51	38.16	38.65	47.56	42.59	38.19	42.31	43749

H.C.

## RAINFALL at Halifax Widdop

County of W.R. Yorkshire  
 River Basin Ouse-Aire Calder

Observer R. J. Hartley Esq. C.I.

Rain Gauge, by

Diameter ...	5										
Height .....	1.3										
Altitude ...	1050										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	4.73	2.24	4.81	4.58	3.97	6.54	3.66	3.48	3.27	5.11	
February ...	5.01	4.86	2.17	2.05	3.40	5.88	4.94	1.18	6.14	1.99	
March .....	1.24	2.14	5.34	5.35	5.63	1.83	3.60	3.14	2.18	5.25	
April .....	4.89	2.31	1.26	5.19	1.66	2.04	3.53	2.02	1.67	2.63	
May .....	3.05	1.46	3.72	4.39	2.30	2.28	3.48	1.88	2.88	1.67	
June.....	3.29	4.87	7.11	2.36	2.43	1.85	3.31	3.04	2.56	1.89	
July .....	4.09	.39	5.22	1.67	3.73	4.86	3.07	1.88	4.26	2.97	
August.....	5.50	2.33	8.55	2.11	2.23	4.48	3.92	7.20	3.74	3.96	
September ..	.45	3.68	2.52	1.59	2.99	.82	2.96	2.60	11.80	1.86	
October ...	3.79	4.13	4.66	2.40	2.93	1.78	10.01	8.07	3.88	4.05	
November ..	5.50	4.37	3.55	5.55	6.17	2.36	4.02	4.81	2.71	4.15	
December...	6.04	7.75	4.72	2.89	7.25	7.82	4.15	2.78	7.90	8.05	
TOTALS ...	47.58	40.53	53.63	40.13	44.69	42.04	50.65	42.08	52.99	43.18	

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

## RAINFALL at Halifax M.R. Middop

County of N.R. Yorkshire

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

River Basin Ouse-Aire-Calder S

E. P. Brooke.

Snowdon Rain Gauge, by N+2  
5.03  
4.97  
5.00

Wharf Halifax

good condition glass covered (feet).

Diameter ...	5"											
Height .....	1.3					1.0						
Altitude ...	1050											
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	Max.
January ...	4.65	8.77	4.44	4.93	3.48	4.64	5.22	4.45	10.20	1.71	6.63	
February ...	4.01	7.75	4.98	7.02	1.43	7.41	4.31	2.35	4.96	1.00	1.24	
March .....	4.62	3.53	4.00	2.23	1.77	2.22	1.92	4.83	3.62	1.11	2.72	
April .....	6.55	2.16	4.58	3.82	2.38	3.46	2.27	3.75	1.24	1.85	4.64	
May .....	5.75	2.74	1.92	4.60	5.41	4.50	4.46	1.52	1.74	2.78	2.49	
June .....	2.64	2.21	2.85	1.30	3.15	1.10	3.66	4.24	7.03	1.86	2.31	
July .....	7.97	2.31	5.57	5.72	4.53	1.84	2.54	3.59	1.69	2.94	7.15	
August .....	2.05	5.96	7.32	6.12	6.57	14.14	4.32	7.45	6.63	4.07	7.84	
September...	2.42	2.19	4.56	6.34	5.49	3.33	3.83	6.14	7.93	1.48	4.93	
October.....	2.45	2.76	1.26	5.49	4.81	6.40	3.37	5.02	6.55	5.87	7.05	
November...	2.62	2.80	2.81	5.79	2.71	3.13	4.26	5.02	6.73	8.00	6.87	
December...	4.07	7.52	5.18	4.88	5.63	3.94	2.33	2.13	2.81	8.38	4.82	
TOTALS...	44.80	41.70	49.47	58.14	47.36	45.14	45.49	50.79	54.13	41.05	58.69	

Inspected 26.4.30.22. S. on fairly flat field sloping slightly to water.  
 Good position. Sufficient shelter on NE, N.E + SE and open to SW across reservoir with trees beyond.

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	53° 47' 30"	2° 6' W	Hebden Bridge	542 m	SSE	Heptonstall	5 m	SSE.

## RAINFALL at Halifax W.W. (Widdop Res) No. 4

County of Yorkshire W. Riding Observer E.P. Brooker, Esq. M.B.E.

River Basin. River Calder S. J. Noel Wood Esq. (1939)

Type of Gauge H.C.

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

Ref.

F. 660559/26

Diameter										5	
Height										10	
Altitude										1060	
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January										6.85	2.16
February										5.83	2.56
March										3.61	3.63
April										2.66	4.35
May										1.74	1.39
June										5.33	3.85 .92
July										7.14	7.90 5.68
August										7.68	5.19 3.68
September										2.67	1.68 4.44
October										11.72	3.27 5.11
November										9.16	8.16 9.00
December										5.91	3.77 6.40
TOTALS										imp 54.53	49.32 W.

c imp 1938 Site selected by Dr Glasspole.

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

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

## RAINFALL at Halifax W.W. (Widdop) No. 1

County of West Riding Observer E. P. Brook, Esq., C.E.

River Basin Ouse-Aire-Calder-8 T. Neel Woodcock (1938).

Type of Gauge Standard.

Annual Average 46.8 in. based on 25 years obs. un-weighted. Period of average 1931 - 1935 Ref. S

660559/26

Diameter	5.											
Height	1.0.											
Altitude	1050.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
	5.84											
January	6.56	6.75	3.25	4.14	2.33	4.86	4.34	5.21	5.77	2.42		
February	5.22	4.47	5.79	4.46	7.16	3.71	5.87	1.68	4.54	2.31		
March	6.7	3.12	2.34	3.14	1.82	2.83	2.65	1.68	3.35	3.02		
April	4.94	3.94	1.85	3.22	3.22	1.89	3.87	.77	2.37	4.07		
May	2.58	5.31	2.96	3.07	1.32	1.54	2.76	5.18	1.76	1.37		
June	7.12	1.89	2.78	2.67	4.77	4.84	2.23	4.38	3.32	.81		
July	5.26	4.67	2.85	2.90	2.36	5.45	2.43	6.09	7.32	5.25		
August	5.26	1.64	1.66	4.83	1.92	3.43	1.83	6.26	4.15	2.53		
September	5.00	5.62	2.13	3.93	7.74	4.57	2.01	2.61	1.52	3.46		
October	2.56	7.95	4.99	4.99	9.41	4.53	2.74	8.78	3.43	4.73		
November	8.92	2.89	3.21	2.99	6.64	5.58	1.93	7.20	6.61	7.93		
December	2.85	2.08	0.63	7.67	4.00	5.40	2.90	5.39	2.96	4.91		
TOTALS	56.94	45.73	34.44	44.01	52.69	48.33	35.86	55.32	47.10	42.81		
	D. D.											

Inspected 6.4.38. Site not ideal.

1939 np, low. 1940.n.plow.

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
			Hebden Bridge	4 3/4 m	S.S.E.	Heptonstall	4 1/2 m

RAINFALL at <sup>3</sup> Halifax 10.10 (Widdop Res.) No 2

County of Yorkshire - W. Riding Observer E. P. Brooks Esq. M.B.E.

River Basin &amp; Area - Calder - S. J. Noel Wood Esq. (1939)

Type of Gauge..... 51.0.....

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

f 060559/26

Diameter										5	
Height										10	
Altitude										1065	
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January										7.49	2.98
February										5.80	2.57
March										3.91	3.91
April										2.94	4.66
May										1.81	1.37
June										5.18	3.62
July										6.76	7.95
August										6.82	4.48
September										2.73	1.80
October										11.48	3.35
November										8.66	8.19
December										6.39	3.88
TOTALS										55.02	50.00

C 1938. Site selected by Dr. Glasspole.

June 1938 5 Turf wall round gauge. (Footnote for B.R.)

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, EXHIBITION ROAD, LONDON. S.W.7.

RAINFALL at ~~S~~ Salifax W.W. (Widgop Res) No. 3

County of Yorkshire - W. Riding. Observer T. P. Brook, Esq., F.F.  
 River Basin Usk - Aire - Calder S. J. Noel Read (1939)

Type of Gauge A.I.C.

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

Ref.....

f. 665559/26

Diameter .....										5	
Height .....										10	
Altitude .....										1060	
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January .....										6.54	2.22
February .....										5.41	2.48
March .....										3.60	3.55
April .....										2.71	4.02
May .....										1.75	1.42
June .....										5.05	3.63 7.76
July .....										6.67	7.47 5.41
August .....										6.60	5.54 3.67
September .....										2.75	1.66 4.50
October .....										11.38	3.36 4.78
November .....										8.31	8.04 8.37
December .....										5.73	3.89 6.34
<b>TOTALS</b> .....										imp	53.32 47.52
										W.	

+ imp 1938. Site selected by Dr. Glaspoole.

1/6/1938 S Turf wall round gauge (Footnote for B.R.)

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

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

## RAINFALL at § Halifax N.W. (Wadding Res) No. 5.

County of Yorkshire W. Riding Observer E. P. Brook Esq. F.C.E.  
River Basin One: Aire Calder - S. T. Noel Wood (1939)

Type of Gauge..... M.L.C.

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

f 660559/26

Diameter										S		
Height										10		
Altitude										1280		
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January										6.67	2.33	
February										5.61	2.70	
March										3.64	4.45	
April										2.64	4.38	
May										1.73	1.29	
June										5.50	3.52	1.01
July										7.08	8.19	6.01
August										6.49	4.78	3.52
September										2.68	1.90	4.87
October										12.32	3.73	5.13
November										8.78	9.09	8.75
December										5.59	3.86	6.64
TOTALS										imp	55.6651.08	
										w		

C 1st July 1938 Site selected by Dr. Glassopole.

1/6/1938 § Turf wall round gauge (Footnote for B.R.)

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, EXHIBITION ROAD, LONDON. S.W.7.

Station No. 3258/9 T.F

## RAINFALL at Halifax W.W. (Widdop Brook) No. 4

41

County of West Riding

Observer

J. Noel Wood Esq., C.E.

River Basin Ouse - Aire - Calder - 8

H. F. Lea Esq., C.E. 1944

Type of Gauge M.O.

A.C. WILKINSON SMITH Esq. (1.VI.50)

Annual Average 49.6 in. based on years obs. un-weighted. Period of average

Ref.

File No. 660559/26

Diameter	5"	077	275							
Height	1' 0"			1						
Altitude	1060'			41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950 Means
January	(3.00)	6.02	7.03	8.58	4.77	5.76	5.03	10.74	3.53	4.55
February	8.23	2.27	4.55	3.22	5.69	6.82	4.91	3.83	4.60	6.61
March	5.08	4.49	1.53	1.11	1.83	1.81	11.06	2.64	2.76	3.27
April	3.15	2.36	3.35	3.51	2.91	1.87	5.14	3.32	4.90	4.34
May	2.85	4.30	3.42	3.95	4.87	2.05	2.80	2.28	3.11	2.65
June	1.73	1.76	4.65	4.61	5.16	4.87	2.96	5.38	1.79	3.00
July	2.63	6.04	3.38	3.81	3.49	4.86	4.42	2.58	2.77	3.65
August	7.81	5.50	6.68	3.44	5.69	9.21	2.27	5.35	3.47	7.75
September	1.05	3.81	5.26	7.55	3.59	8.09	3.62	4.39	1.64	8.25
October	6.57	9.88	3.49	6.01	6.24	1.57	1.50	3.12	6.24	3.23
November	3.57	1.72	4.22	8.04	9.3	9.33	7.41	2.84	7.91	6.91
December	3.93	4.76	3.65	5.62	3.78	5.36	4.90	5.37	8.96	3.91
TOTALS	48.60 w.	52.91 w.	51.21 w.	58.85 w.	48.95 w.	61.00 w.	54.02 w.	51.89 w.	50.68 w.	60.12 w.
	40004									

S.T.P. with corrections up to 1948

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

Station No. 3259 T.F.

41

## RAINFALL at Halifax W.W. (Widdop) No. 1

County of West Riding

Observer

J. Noel Wood Esq. C.E.

River Basin Ouse-Aire-Colder-S

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

Type of Gauge Standard

Annual Average 46.3 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. S

File No. 660559/26

Diameter	5"										
Height	1' 0"										
Altitude	1050'										
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.28	5.63	6.84								
February	6.95	2.37	2.92								
March	5.46	3.29	1.08								
April	3.03	2.05	2.44								
May	2.33	3.93	3.33								
June	.62	1.57	4.16								
July	2.55	4.82	2.95								
August	6.90	4.54	6.30								
September	.70	3.14	4.32								
October	5.47	7.22	3.19								
November	3.28	1.51	3.46								
December	2.52	3.81	2.89	#							
TOTALS	42.09	43.88	43.88								
	m.p.	m.p.	n.p.								

1941. n.p. too low

1942. n.p. low

1943. 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 from gauge	Parish Church.	Distance from gauge

Station No. 3259/2 T.F

## RAINFALL at S.H. Halifax W.W. (Widdop Rec) No. 2

41

County of West Riding Observer J. Noel Wood Esq. C.E.  
 River Basin Ouse - Aire Calder - 8 H. F. Lee Esq. C.E. 1944  
 Type of Gauge M.O. A.C. W.H. D. Smith Eng. (1.4150)

Annual Average 50.5 in. based on years obs. un-weighted. Period of average Ref.

File No. 660559/26

Diameter	5"	0.77	2.77								
Height	1' 0"			1							
Altitude	1065'			41							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	3.00	6.48	7.59	8.17	4.76	5.28	4.88	10.88	3.58	4.34	
February	8.44	2.90	3.91	3.35	5.86	6.13	4.40	3.84	4.61	6.95	
March	5.76	4.03	1.34	1.03	1.86	1.95	9.65	2.45	2.71	3.08	
April	3.52	2.38	3.00	3.60	2.91	1.64	5.19	3.01	4.66	4.49	
May	2.75	4.37	3.50	3.38	4.76	2.12	2.97	2.22	2.93	2.83	
June	7.0	1.66	4.64	4.88	5.00	4.13	2.86	5.86	.80	2.86	
July	2.56	6.07	3.36	3.75	3.64	4.64	4.11	2.50	2.88	5.23	
August	7.49	5.13	7.15	3.34	5.56	8.49	3.4	5.07	3.26	7.36	
September	.87	3.70	4.94	7.83	3.46	8.10	3.63	3.97	1.67	2.61	
October	6.35	9.39	3.41	5.84	5.78	1.70	1.62	3.24	6.23	3.10	
November	3.56	1.68	4.20	7.96	.88	9.21	7.30	2.90	7.91	6.64	
December	3.59	4.42	3.48	5.61	3.49	5.05	4.70	5.82	9.00	3.82	
TOTALS	48.59	52.21	50.52	58.74	47.96	58.44	51.65	51.74	50.24	58.30	
	D	D	D	D	D	D	D	D	D	D	

§ Turf wall round gauge *Reversed ventus*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.

Station No. 3259/7 T.F.

## RAINFALL at Halifax W.W. (Widdop Res) No. 3 ✓

41

County of West Riding

Observer

T. Noel Ward, Esq. C.E.

River Basin Ouse-Aire-Boulder-8

H F Green Esq. C.E.

Type of Gauge M.O.

A.C. W.H.D.S.A.T.H. Esq. (L.V. 50)

Annual Average 49.1 in. based on years obs. un-weighted. Period of average

Ref.

File No. 660559/26

Diameter	5"	077	272							
Height	1' 0"			1						
Altitude	1060'			41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	Means
January	(3.10)	(5.73)	6.66	7.69	(4.45)	5.48	4.73	9.97	3.24	4.56
February	8.27	2.81	3.93	3.18	5.57	6.43	4.51	3.39	4.40	6.56
March	5.30	4.18	1.42	.95	1.72	1.81	9.88	2.53	2.73	3.01
April	3.27	2.20	3.08	3.38	2.64	1.69	5.22	3.06	4.46	4.22
May	3.02	4.39	3.28	3.34	4.61	2.11	2.94	2.15	3.05	2.62
June	.78	1.66	4.56	4.36	5.09	3.92	2.83	5.20	.79	3.12
July	2.43	5.31	3.44	3.67	3.43	4.42	4.38	2.52	2.92	5.39
August	7.19	5.34	6.68	3.43	5.56	8.70	.27	5.12	3.38	7.51
September	.97	3.14	5.11	7.79	3.39	7.87	3.68	4.16	1.74	8.11
October	6.15	3.51	3.62	5.73	5.57	1.51	1.67	2.86	6.28	3.21
November	3.53	1.66	3.80	7.75	.84	7.62	7.04	2.82	7.62	6.66
December	3.69	4.74	3.51	5.19	3.62	4.59	4.93	4.17	8.54	3.84
TOTALS	47.70	50.67	49.09	56.46	46.49	56.15	52.08	47.95	49.35	58.81

1941 Jan part estd.

40004

1942 Jan part estd.

1945 Jan part estd.

40004-40004

5 Turf wall round gauge. *Parish church*Position of Station on reduced Ordnance Survey Map, No. of Map.....  
1 mile to 1 inch Series

Reference No.....

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

Station No. 32615 T.F.

## RAINFALL at 3 Halifax W.W (Widloft Res) No. 5

41

County of West Riding

Observer

J. Noel Wood Esq. C.E.

River Basin Ouse - Aire - Calder - 8

H. F. Rea Esq. C.E. 1944

Type of Gauge M.D.

A.C. WINDSMITH Esq. (1.VI.50)

Annual Average 504 in. based on years obs. un-weighted. Period of average

Ref.

File No. 660559/26

Diameter	5"	077	289							
Height	1' 0"			1						
Altitude	1280'			4						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950 Means
January	(3.00)	6.43	6.74	8.27	4.83	5.74	5.79	10.13	3.66	3.98
February	8.50	2.30	3.88	3.17	6.29	7.37	5.61	3.47	4.52	7.14
March	5.56	4.80	1.45	1.07	1.93	2.07	10.64	2.99	2.36	3.10
April	3.34	2.37	3.12	3.50	2.99	2.08	4.60	3.12	4.91	4.39
May	3.34	4.45	3.17	3.75	5.14	2.44	2.29	2.60	3.01	2.97
June	.84	1.68	4.54	4.71	5.88	4.46	2.52	5.97	.68	3.04
July	2.77	5.97	3.50	3.64	3.55	5.48	4.62	2.55	2.95	5.87
August	8.58	5.43	7.51	3.46	5.88	10.20	.33	5.04	2.87	8.49
September	.93	4.05	4.88	7.63	3.48	9.33	2.62	4.35	1.40	8.72
October	7.14	9.23	3.44	5.75	6.65	1.69	1.40	3.13	5.82	3.84
November	3.75	2.84	3.98	8.37	1.18	9.99	5.68	3.03	6.79	6.89
December	3.76	5.37	3.53	5.68	3.63	5.43	3.92	5.21	8.50	8.79
TOTALS	51.51 W	53.92 W	49.74 W	53.00 W	51.43 W	66.28 W	50.02 N.P.	51.59 W	47.47 N.P. 61.72 W	

1941. Jan. part est'd. 1947. n.p. low

1947. No apparent reason for deficiency, but new gauge brought into use 19-1-48

1944. Marvel. Gauge at bottom of ravine. May be sheltered.

40004

## 5 Turf wall round gauge 1 mile 1 inch

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

Reference No. ....

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

Station No. 3258/9 T.F. 44

## RAINFALL at Halifax 10.11 (Widdop Res) 10.4

County of West Riding - Yorks. Observer P. G. Widdop Esq., C.E.

River Basin. Ouse - Nine - Hall - 8 A. L. Green Esq., Bsc. (Min.)

Type of Gauge. M.O. Mk II (an inspection.)

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

5451 16 within 1934-1957 1956-1957 File No. 660239/26

Diameter	5"	077	275									
Height	1' 0"			1								
Altitude	1060'			51								
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	
January	5.63	6.90	2.10	5.22	3.90	6.87	4.77	5.47	3.76	6.87	5.7	
February	5.74	2.19	4.34	4.36	4.33	1.97	4.88	8.51	.91	5.57		
March	6.28	2.75	2.24	3.41	2.97	2.11	4.78	2.78	2.25	1.98		
April	3.43	4.26	4.39	1.04	2.47	4.29	.51	1.80	4.65	3.41		
May	4.06	2.47	2.77	4.47	4.79	2.76	1.83	5.75	2.10	2.61		
June	1.88	4.12	4.93	3.75	3.47	3.25	2.57	5.94	5.15	1.52		
July	4.9	3.17	6.51	6.14	.99	6.64	6.04	4.24	3.13	7.06		
August	5.33	6.62	7.44	9.40	1.60	12.53	7.90	4.50	1.08	7.82		
September	3.08	5.12	4.82	5.88	4.18	5.27	7.38	5.73	.43	3.83		
October	1.60	7.34	2.47	8.43	3.72	2.65	6.28	4.60	6.23	6.60		
November	10.76	3.28	6.28	8.58	3.59	2.49	3.09	2.00	6.58	8.25		
December	10.73	5.99	2.54	8.53	7.21	7.14	7.09	5.28	9.58	6.21		
TOTALS	63.49	54.21	50.83	69.21	43.15	57.97	57.12	56.60	45.85	61.73		
	W	W	W	W	W	W	W	W	W	W		

Inspected 16.8.55 on Decks. Gauge leaked at joint, measure cut off. Site of grass 8' 6" SE 5' otherwise satisfactory. Recommended cut grass. Carried out. Ritter 19.12.55

Position of Station on Ordnance One-Inch map : No. of Map 95 National Grid Reference 61/927.22.7

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

Summary of Earlier Records from 10-year Sheets :

Record D. or d		1910-19	1920-30	1931-40	1941-50	1951-60
				Camp 1938 -	✓ -	

Station No. 3259/2 T.F. 44

RAINFALL at <sup>8</sup> Halifax W.H. (Middle Rec.) No. 2.

County of West Riding, Yorks. Observer P. C. Witham Esq., C.E.

River Basin. River Aire - Calder - S. A. G. Gray Esq. B.Sc. (M.S.)

Type of Gauge. A.R. Mk II in inspection

Annual Average... in. based on years obs. un-weighted. Period of average Ref.  
.. 54.25 .. 17 .. 1939-57 .. 1946-1950 5 File No. 660559/26

Diameter ...	5"	077	277										
Height ...	1'0"			1									
Altitude ...	1065'			51									
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means		
January	5.41	6.44	2.04	4.95	3.92	6.74	4.60	5.06	3.76	7.19			
February	5.26	1.51	4.12	4.59	4.32	2.04	4.73	9.82	.95	5.22			
March	6.57	2.79	2.10	3.72	2.93	2.36	4.75	2.86	2.21	1.92			
April	3.39	4.35	4.36	.96	2.54	4.31	.50	1.76	4.71	3.04			
May	4.42	2.95	2.56	4.61	4.75	2.34	1.61	5.87	2.22	2.34			
June	1.73	4.25	3.77	3.81	3.65	3.35	2.58	5.67	4.69	1.26			
July	5.00	2.89	6.33	6.11	.92	6.28	6.56	4.09	3.02	6.70			
August	5.28	6.59	7.42	9.94	1.54	12.17	8.26	4.60	1.01	7.52			
September	3.05	4.95	4.83	5.79	3.73	5.43	7.21	5.49	.44	3.30			
October	1.57	(6.87)	2.63	9.01	3.76	2.57	6.01	4.46	5.88	7.26			
November	12.35	3.58	6.24	9.10	3.42	2.48	3.61	1.91	6.31	7.90			
December	10.32	5.18	2.40	8.93	6.89	6.99	6.88	5.25	8.85	6.66			
TOTALS ...	64.35	52.35	48.80	71.52	42.37	57.06	57.30	56.84	44.05	60.31			
	D	D	D	D	D	D	D	D	D	D			

1952 Oct 9th + 27% measure counted as 10% Eng. agrees M.O.D. amendment.

Inspected 16.8.55 - now Decks. Gauge leaked at joint, found tilted E. measure cert. fine. Site not satisfactory. Recommended repair to gauge.

00044

## 8 Turf Wall.

Position of Station on Ordnance One-Inch map : No. of Map 95 National Grid Reference 36/9313.31

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

Summary of Earlier Records from 10-year Sheets :

Record D. or d	1910-19	1920-30	1931-40	1941-50	1951-60
			Camp 1938 ✓	✓	✓

Station No. 3259/7

T. 44

RAINFALL at <sup>8</sup> Halifax M.O. (Whitby Res.) No. 3

51

County of West Riding - Yorks.

Observer P. C. Williamson Esq., C.E.

River Basin Ure - Aire - Calder 8

P. L. Gray, Eng. Sc. (M.I.C.E.)

Type of Gauge.

M.D. W.H.C. (uninspected)

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

53.24 15 weeks 1939-57

File No. 360559/26

Diameter	5"	077	272								Means
Height	1'0"			1							
Altitude	1060'			51							
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January	5.33	7.06	1.90	4.91	3.69	5.77	4.72	5.11	3.45	6.67	
February	5.43	1.97	3.76	3.85	3.78	1.94	4.69	8.65	.95	5.44	
March	5.90	2.54	1.99	3.37	2.89	2.20	4.73	2.61	2.24	1.92	
April	3.11	3.93	3.77	1.01	2.66	4.14	.43	1.71	4.44	3.41	
May	3.93	2.39	2.50	4.31	4.60	2.52	1.75	5.81	2.36	2.67	
June	1.73	3.94	3.76	3.78	3.22	3.17	2.54	5.82	5.09	1.50	
July	4.82	2.98	6.29	6.36	.86	6.76	6.44	4.25	2.92	7.30	
August	5.01	6.32	6.66	9.62	1.68	12.69	8.12	4.62	1.18	7.52	
September	2.96	4.81	4.30	5.88	4.09	5.16	7.65	5.66	.40	3.62	
October	1.43	6.46	2.44	8.37	3.69	2.65	6.28	4.54	5.97	6.07	
November	10.11	3.14	5.37	8.57	3.49	2.35	3.25	1.90	6.66	8.23	
December	9.77	5.45	2.56	8.19	6.76	7.16	6.54	5.14	9.04	5.94	
TOTALS	59.53	50.99	45.30	68.22	41.41	56.51	57.14	55.82	44.70	60.69	
	W	W	W	W	W	W	W	W	W	W	

Inspected 16.8.55 Mr. Deeks. Gauge sound, gauge certified. Site satisfactory. Recommended re levelling of rim of gauge. Curved outfalls 19.12.55

8 Tuft Wall.

Position of Station on Ordnance One-Inch map : No. of Map 95 National Grid Reference 36/923331

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

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	-	-	Camp 1938 -	✓ -	

Station No. 32615 70, 44

RAINFALL at <sup>8</sup> Halifax W.W. (Middop Hse) No. 5  
 County of West Riding, Yorks. Observer A. C. Middop Esq., C.E.  
 River Basin. Ouse -ire - Calder - 8 A. m. G. R. M. Esq. BSc (Hons.)  
 Type of Gauge. M.D. met II (aneroid)

Annual Average in. based on years obs. un-weighted. Period of average  
 " " 56.73 " " 17 " within 1939-57 " 1916-50 Ref.  
 File No. 660559/26

Diameter ...	5"	077	289								
Height ...	1' 0"			1							
Altitude ...	1280'			- 51							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January	5.54	6.95	2.36	5.13	3.70	6.62	5.11	5.36	3.86	6.81	
February	5.41	1.99	4.59	4.51	4.73	2.32	4.91	9.63	1.08	5.55	
March	6.01	2.73	2.40	3.51	2.90	2.51	5.47	3.01	2.25	2.26	
April	3.90	4.14	4.58	1.22	2.61	4.28	5.56	2.05	4.85	3.74	
May	4.84	2.88	2.88	4.21	4.24	2.70	1.75	6.02	2.20	2.36	
June	1.81	4.03	3.70	4.36	3.71	3.43	3.00	6.00	4.14	1.54	
July	4.99	3.38	6.28	4.47	.88	6.66	7.24	4.25	3.71	8.19	
August	5.48	6.49	8.24	10.38	1.63	11.84	8.04	5.91	1.06	7.13	
September	3.38	5.58	5.64	6.94	3.96	5.73	7.60	6.01	.38	3.86	
October	1.68	6.67	2.74	10.03	3.94	3.28	7.11	4.79	6.30	7.11	
November	13.11	3.07	7.08	8.67	3.42	2.74	3.38	1.98	6.74	8.36	
December	11.97	5.67	2.99	8.69	7.34	7.15	7.04	5.72	9.30	6.37	
TOTALS ...	67.62	53.58	53.48	75.12	43.06	59.26	61.21	60.73	45.87	63.28	
	W	W	W	W	W	W	W	W	W	W	

Impacted 16.35 in. Deeper. Gauge standard. Rain at 17° loose, methionite calcs  
 were certified. Site satisfactory. Recommended gauge to be set horizontal at 12"

8 Twp Wall.

4

Position of Station on Ordnance One-Inch map : No. of Map 75 National Grid Reference 2615262368

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

Summary of Earlier Records from 10-year Sheets :

Record D, or d		1910-19	1920-30	1931-40	1941-50	1951-60
				Camp 1938 -	Snp 47, 49	