

RAINFALL at Huddersfield Gates LongwoodCounty of West Yorkshire Observer S Moore Bower EsqRiver Basin Guse Aire Calder & BowerSnowdon Rain Gauge, by Horne made

Diameter ...							6				
Height							50				
Altitude ...							775				
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...							7.06	2.39			
February ...							7.97	.95			
March							5.79	3.29			
April							2.97	2.00			
May							3.68	2.30			
June							3.38	1.84			
July							2.63	1.50			
August							2.55	6.51			
September...							1.83	1.17			
October ...							4.22	5.36			
November..							3.51	3.55			
December...							3.87	1.60			
TOTALS ...							53.46	32.46			

1916 small broken about 17 ft high new gauge -
 House 30 ft high 30 ft N

Annual average rejected from survey.

Date.	Lat. N.	Long. W.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
53.39.40	1.50.20		Longwood (Huddersfield)	1 9/11	SSE ESE	Lundley	1/2 m	30° N 9 E

RAINFALL at Huddersfield Gates LongwoodCounty of W. Yorksh.Observer S. M. BowerRiver Basin One Acre CalderHoward's Rain Gauge, by J. H. B. B. B.

New Gauge A

Diameter ...								5				
Height								1.8	1.0			
Altitude ...								772				
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	
January ...							3.86	1.82	2.73	4.12		Totals 1916-19 12.23
February ...							6.19	.89	5.38	1.96		14.42
March							4.59	2.98	1.56	4.19		14.00
April							2.15	2.00	1.38	1.56		7.09
May							2.73	2.37	3.64	1.52		10.56
June							2.65	2.05	1.06	1.00		6.16
July							1.91	1.55	3.11	2.69		9.24
August							1.99	6.09	1.85	3.11		13.04
September...							1.29	1.17	11.47	1.59		15.52
October ...							6.66	5.59	2.50	2.56		17.11
November..							3.64	3.18	1.57	3.82		12.21
December...							3.03	1.75	5.87	4.85		15.50
TOTALS ...							39.79	31.44	42.12	33.73		147.08

1917 Small tree 10 ft high 7 ft 5
 Heavy 30 ft high 30 ft W
 Bush 1.5 - 8-9 ft E & W

↑
 Cemetery

Annual average reported from railway.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
	53.39.40	1.50.20	Outside Longwood boundary Longwood	1 M	SSE	Lindley	1/2 mile	30 N of E

RAINFALL at Huddersfield (Data. No 4)County of Yorkshire W.R. Observer S. Morris BowerRiver Basin Duse, Aire - Calder - 8.Snowdon Rain Gauge, by P & R.

W.

Diameter ...				5							
Height				1.0							
Altitude ...				772			761				
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEAN
January ...					2.70	4.47	3.61	3.12	8.98	1.32	
February ...					1.39	4.76	3.02	1.04	5.18	1.35	
March					1.30	1.36	1.48	3.77	2.52	1.49	
April					1.80	2.68	1.56	3.06	1.03	1.23	
May					4.73	4.01	3.79	1.45	2.00	2.22	
June					2.11	.06	2.79	3.28	5.10	.39	
July					5.14	3.08	.96	3.28	1.23	1.79	
August					3.31	2.72	2.90	3.54	4.13	3.02	
September...					2.68	3.73	2.27	2.43	0.39	1.02	
October					3.63	4.23	4.87	4.24	4.65	3.91	
November...					6.23	2.10	2.17	4.31	4.34	6.73	
December...					2.74	4.58	5.13	1.33	2.51	7.65	
TOTALS...					40.98	34.47	35.64	39.34	42.99	30.62	N.O.

1923. up - check g.

1924. up - check g.

1925 do do

Tree 18-20ft high 10yds N.

" 17 " 10 " N.E.

1926 N.P. check Gauge.

1927 " "

1928 " "

1929 " "

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
1925	53°39' N.	1°50' W	Longwood	1 m	S	Lindley	1/3 m	E.N.E.

RAINFALL at Guddersfield (Oaks) (No. 3)

Crossland Rd., 1926

County of Yorks NR. Observer S. Morris Bower Esq.River Basin Case - Aire - Calder - 8.Rain Gauge, by
Glass funnel -
home made } M

Diameter ...			4								
Height			10								
Altitude ...			772		766		761				
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	<u>1930</u> Means
January ...			3.55	2.46	2.93	4.42	3.56	3.23	8.44	1.26	5.30
February ...			3.90	5.26	1.30	4.91	2.94	1.05	5.78	.37	.90
March			2.64	2.14	1.32	1.39	1.30	3.65	2.74	.45	3.28
April			3.76	2.62	1.80	3.08	1.63	3.10	1.17	1.38	2.54
May			1.42	3.84	4.88	4.14	3.85	1.53	2.20	2.54	1.56
June			2.33	0.89	2.18	.10	2.79	3.44	5.47	1.02	2.17
July			4.82	5.04	3.28	.94	3.33	2.40	1.36	1.99	5.61
August			6.07	3.48	2.83	3.10	3.66	5.54	4.36	3.20	4.75
September...			3.54	2.85	3.95	2.44	2.48	5.33	0.50	1.16	5.28
October .....			.99	3.82	4.35	4.86	4.20	3.38	4.76	3.82	4.87
November...			2.01	6.23	2.20	2.28	4.13	4.44	5.51	7.06	4.09
December...			4.09	2.79	4.59	4.39	1.46	2.54	2.10	7.35	2.67
TOTALS...			39.12	41.42	35.61	36.08	35.33	39.68	42.99	31.60	43.04

1923 N.P.

1924 N.P. check g.

1925 do do.

.. Trees 20 ft high 9 yds N

.. 18 .. 8 .. N.E.E.

1926 N.P. check gauge

1927 " " "

1928 " " "

1929 " " "

1930 N.O.

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
1922	53° 39' 30"	1° 49' 50"	Longwood	1 mi.	SSE	Lindley	1/3 mi	NE & E.

RAINFALL at Huddersfield Cakes

No. 1.

Langley Terrace, 1924

County of W. R. YorkshireObserver S. M. Power Esq.River Basin Guse-Aire-Calder &Glaister
HowardRain Gauge, by J. J. Griffiths

Diameter ...	5										
Height	1	0									
Altitude ...	772										
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930
January ...	4.13	5.29	3.53	2.17	2.83	4.58	3.53	2.70	7.53	1.10	5.33
February ...	4.00	2.2	3.91	5.33	1.54	5.03	2.89	.94	4.51	.35	.85
March	2.79	2.56	2.67	2.17	1.34	1.37	1.41	3.25	2.41	.52	3.41
April	4.33	1.02	3.79	2.65	1.93	2.48	1.61	2.74	0.98	1.18	2.53
May	4.72	1.51	1.46	4.06	4.85	3.99	3.80	1.43	2.07	1.99	1.61
June	2.70	1.8	2.38	.90	2.19	.07	2.72	3.17	4.90	.85	2.11
July	7.79	1.28	4.86	5.33	2.19	.98	3.38	2.27	1.14	1.54	5.56
August	1.14	4.62	6.17	3.50	2.84	2.98	3.55	5.18	3.95	2.61	4.85
September...	1.41	1.39	3.53	2.75	3.89	2.28	2.40	5.08	0.42	.89	5.38
October	3.09	2.26	1.05	3.64	4.37	4.68	3.67	3.58	4.43	3.05	4.91
November...	1.86	1.94	2.06	6.13	2.15	2.11	4.13	3.99	5.58	5.90	4.39
December...	3.64	5.86	4.05	2.76	4.70	4.90	1.28	2.40	2.20	6.11	2.83
TOTALS...	41.60	28.13	39.46	41.39	35.82	35.45	34.37	36.73	40.12	26.09	43.76

1920 Shrubs 4 ft. high 6 ft. E & W.
Trees 12" " 10" S E

1924. Read bi-monthly.

1930. Jan. 1. G. moved 55 yds. E.
Trees 18'-20' high, 30' N.
17' " 30' N.E.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
1920 2	53° 40' 53° 34' 30"	1° 00' 1° 49' 50"	Longwood	1 1/2 mi	SSW	Lindley	7 1/2 mi	30° N of E

RAINFALL at Huddersfield, Yorkshire No. 2.County of Yorkshire W.R.Observer Mr. BowlerRiver Basin Duff, Aire, Calder, 8.Name Howards
made Rain Gauge, by
florin

W

Diameter ...	4										
Height	1.0										
Altitude ...	772					761					
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEANS.
January ...	5.22	3.58	2.36	2.79	4.48	3.41	3.34	8.51	1.28	5.12	
February ...	2.3	3.86	5.27	1.24	4.75	3.09	1.03	5.60	.37	.86	
March	2.66	2.63	2.15	1.36	1.42	1.20	3.50	2.30	.48	3.11	
April	1.07	3.67	2.58	2.18	3.03	1.37	3.16	1.19	1.46	2.48	
May	1.56	1.54	4.01	4.93	4.22	3.92	1.55	2.12	2.42	1.58	
June .....	.18	2.41	0.90	2.16	.09	2.80	3.50	5.42	.96	2.23	
July	1.23	4.76	4.97	3.31	1.02	3.48	2.38	1.34	1.96	5.72	
August	4.64	5.96	3.50	2.85	3.22	3.64	5.57	4.59	3.10	4.87	
September...	1.45	3.50	2.85	3.86	2.48	2.47	5.46	0.32	1.08	5.36	
October	2.27	1.02	3.82	4.29	4.88	4.01	3.23	4.20	4.18	4.91	
November...	1.96	1.99	6.07	2.15	2.26	4.10	4.51	5.40	6.89	4.08	
December...	6.07	4.01	2.77	4.66	4.60	1.40	2.52	2.05	7.49	2.52	
TOTALS...	28.54	38.93	41.26	35.78	36.45	35.19	39.75	43.44	31.67	42.84	

1924. Shrub. 4 ft. high. E. W. Tree 12 ft. high 10 ft. SE

NOTE: The g. is required to keep a check on No. 1 & is not quite reliable.

1925. Gauge moved 1st March. 45 yds E

" 20 ft high 9 yds N

" 18 " 8 " N-E & E

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
1922	53° 40'	1° 50'	Longwood	1 1/2 mi	S	Trindley	3 mi	30° N. of E.
	53° 34' 10"	1° 44' 50"		1	55°		13	70° W

RAINFALL at Huddersfield (10 akes 5)

County of Yorkshire, W. R. Observer S. Morris Bower

River Basin Use Air Calder 8

Snowdon Rain Gauge, by _____

Standard Daily Gauge

Diameter ...				5									Sgd Sta No. 39-078673 NGR: SE(44) 113'77" AL: 232m	
Height				10										
Altitude ...				772									761	
Year	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990 AFRANS.			
January ...					2.75	4.35	3.56	3.12	5.87	1.26	5.30	Total 1980-90 44.83		
February ...					1.60	4.72	2.96	.98	5.01	.37	.90	30.00		
March					1.43	1.34	1.45	3.73	2.56	.44	3.28	24.42		
April.....				17.20	1.84	2.73	1.56	3.09	1.01	1.19	2.54	25.75		
May					4.70	4.01	3.78	1.44	2.04	2.13	1.56	31.41		
June					2.16	.07	2.79	3.27	5.08	.87	2.17	22.57		
July				5.06	3.09	.95	3.52	2.34	1.20	1.83	5.61	37.80		
August				3.19	2.69	2.91	3.50	5.25	4.14	2.99	4.75	41.66		
September..				2.56	3.68	2.27	2.40	5.20	.43	1.02	5.28	27.36		
October.....				3.37	4.16	4.78	4.15	3.79	4.59	3.76	4.87	40.14		
November...				5.73	2.27	2.23	4.24	4.33	5.62	5.85	4.09	40.62		
December...				2.79	4.48	5.16	1.39	2.48	2.74	7.79	2.69	42.44		
TOTALS...				39.90	34.85	35.52	35.30	39.02	42.69	29.50	43.04	410.50		

1923. n.p. Check g.

1924 ditto.

1925. ditto.

.. Trees 18-20 ft high 10 yls N.

$$\dots \quad \eta \quad \dots \quad 10^6 \quad \dots \quad \eta \cdot E$$

are the

B203 until 1924

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

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge	Direction
1925	53° 39' N	1° 50' W	Longwood	1 m	S	Prindley	1/2 m	E.N.E.

RAINFALL at Huddersfield (Oakes) M.W.R.

County of West Riding, Observer S. Morris Bower, Esq.,

River Basin..... Ouse-Aire-Calder-8

Type of Gauge.....Snowdon.....

Annual Average 34.3 in. based on 7 years obs. ~~un~~-weighted. Period of average 1891-1915 Ref. S

[Note: H_v revised to 34.9 in next book]

Diameter	5.					5"	Sept No. No. 39-078673					
Height	1.0.					1'0"	NGR: 35(44) 113177 alt: 232m					
Altitude	761.					761'						
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January	3.22	3.91	2.84	2.62	2.19	4.09	4.55	5.63	6.24	2.90		Totals 38.21
February	4.92	.44	(6.09)	.18	5.79	3.21	6.15	1.57	3.30	2.90		34.75
March	.49	2.11	2.22	3.38	1.98	2.54	4.08	.86	2.64	2.64		22.94
April	3.85	4.03	.97	2.33	5.11	1.62	2.47	.43	2.12	2.82		25.75
May	2.83	4.77	2.19	2.15	.76	1.45	2.57	+.16	1.66	.65		23.14
June	5.79	.83	2.16	1.90	3.27	8.46	1.92	3.67	3.02	.63		28.15
July	4.20	2.72	2.50	2.76	1.52	3.36	2.83	4.06	6.48	2.93		33.36
August	5.20	1.99	1.01	2.20	1.85	1.49	1.46	4.05	2.03	1.43		22.71
September	3.78	2.79	1.92	1.87	6.16	5.07	1.69	2.14	1.09	3.34		29.85
October	1.69	5.20	4.25	3.86	9.14	4.78	2.60	9.63	2.39	4.65		48.19
November	4.88	2.43	1.45	2.16	5.82	5.53	2.16	5.75	6.77	6.92		43.87
December	1.85	1.40	.54	4.25	2.78	4.19	2.84	3.68	2.74	2.87		27.14
TOTALS	42.70	32.12	28.14	29.66	46.37	42.79	35.32	45.63	40.70	34.68		378.11

1933. Trees 18-20' high 30' N. Trees 17' high 30' N. E. & E.

1936. Inspected 29.9.36. No change.

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
			Longwood	1m	S.	Stindley	3m	E.N.E.

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

RAINFALL at Huddersfield (Oakes) new g. new siteCounty of West Riding Observer S. Morris Bower Esq.River Basin River Aire - Calder - 3

Type of Gauge.....

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

Diameter											
Height											
Altitude											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January								#		2.72	
February										3.08	
March										2.72	
April										3.06	
May										-	
June										-	
July										-	
August										-	
September										-	
October										-	
November										-	
December										-	
TOTALS										n.p.	

1940. n.p. imperfect.

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.

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

RAINFALL at Huddersfield (Hanging Rock) Station No. 3295/1 **41**
Oakes
Weekly gauge

County of Yorks W.R. Observer S. Morris - Bowen Esq.

River Basin Duse Ave. Calder S.

Type of Gauge G.A.

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

File No. A. 200978/40

Diameter	....						5'					
Height	....						1' 0"					
Altitude	....						762'					
Year	....	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	....						4.87	*				
February	....						6.01					
March	....						2.06					
April	....						1.62					
May	....						2.04					
June	....						2.74					
July	....						4.34					
August	....						4.42					
September	....						5.58					
October	....						1.10					
November	....						7.15					
December	....						2.85					
TOTALS	....						44.78					

1946 Trees & houses 20-30 ft. high 90 ft. S. and W.

" " 30-40 " " 120 " N.

1946 N.P. check.

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.
1946			Huddersfield	2 1/2 mi	ESE	Lindley	1 1/2 mi	ENE

BRITISH RAINFALL ORGANIZATION

Station No. 3205 M.W.K. 51
(123)RAINFALL at Huddersfield (Oakoo)County of West Riding - Yorks.Observer S. Morris - Bower Esq., for M.O.River Basin Rosse - Aire - Calder &Type of Gauge Enwoden No. 3845/46 +Annual Average 34.9 in. based on 22 years obs. un-weighted. Period of average 1881-1915 Ref. P.W.S.
37.62 " " 35 " " 1916-1950 1916-1950 27.002/48 P

File No.

Diameter ...	5"			078	673						5"
Height ...	1'0"			1							1'0"
Altitude ...	762'			51		761					762'
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means Total
January ...	3.68	4.57	1.05	3.33	3.25	5.29	3.39	3.81	3.93	6.09	38.39
February ...	3.76	1.25	3.23	3.59	3.29	1.65	2.93	6.93	2.0	2.59	29.42
March ...	4.97	1.93	2.47	2.78	2.63	1.47	2.42	2.39	1.38	2.03	24.47
April ...	2.67	2.55	3.12	3.7	1.02	3.28	3.5	1.05	4.50	1.89	20.80
May ...	4.52	2.23	1.89	3.33	4.04	1.22	1.28	4.29	1.57	2.01	26.38
June ...	1.09	2.40	2.86	2.01	2.55	2.28	1.90	5.33	1.63	1.14	23.19
July ...	2.55	1.81	4.21	2.66	.70	6.07	4.05	4.94	2.33	4.66	33.98
August ...	5.38	3.44	3.28	6.04	.48	7.74	5.40	3.53	.64	6.41	42.34
September ...	1.89	3.05	2.39	5.03	1.56	4.44	4.65	4.23	.36	2.91	30.51
October ...	1.12	4.87	2.16	6.15	2.02	2.11	4.12	2.98	3.82	5.79	35.14
November ...	8.55	1.97	3.85	6.43	1.69	1.26	2.64	1.03	3.76	7.16	38.34
December ...	6.65	3.58	2.05	5.27	5.43	4.34	4.72	4.41	6.49	4.56	47.50
TOTALS ...	46.83	33.65	32.56	46.99	28.66	41.15	37.85	44.92	30.61	47.24	390.46
	D	D	D	D	D	D	D	D	D	D	

1952 Site inspected in July. "Rain gauge recently installed & in excellent order. All features of rainfall measurement very good. Site not quite ideal, but entirely satisfactory." gentle slope upwards NW.

Dep. 11 Taylor 3-2 Sp. Satisfactory but small line. See. given 24.08.21 no longer held.

1957 T-3 Recorder purchased 8/57. Forms 2440 and 2441 are to be completed. (F-2056/57) F-21383/57

N.B. we have agreed to consider published the minute record in due course also - question of auth. wording is under consideration

Dep. 23/8/40. H.T.D. 44645. 6.000 - 30.000 (1.5) 2.4 min not quite level. G slopes 1-25 from NW to SE. Long trees 2 to 3'

Position of Station on Ordnance One-Inch map:

No. of Map.....

National Grid Reference SE(44)113.177

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance 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
		C1923-25	✓	✓	
		✓	✓	✓	