

Rainfall at Bilberry Reservoir

50

Diameter of Gauge, in.

Height above Ground, 1 ft. in.

Above Mean Sea Level, 800 ft.

YEAR - -										1839	MEANS.
January - -											
February - -										19.50	
March - - -											
April - - -										3.10	
May - - - -										0.00	
June - - - -										2.80	
July - - - -										2.60	
August - - -										8.90	
September -										6.40	
October - -										4.80	
November -										5.50	
December -										6.00	
TOTALS -										59.60	

C

Rainfall at *Bilberry Reservoir*
Holme Reservoirs'

60

Diameter of Gauge, in.

Height above Ground, ft. in.

Above Mean Sea Level, *800.* ft.

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	6.80	2.20	3.40	9.70	2.00	4.00	6.60	3.70	5.00	4.20	
February - -	2.20	4.90	1.10	2.00	4.80	3.60	7.00	4.00	3.80	8.70	
March - - -	8.20	8.70	6.10	1.30	4.20	1.00	2.50	3.50	4.80	2.80	
April - - -	2.30	2.30	4.40	2.00	1.30	1.20	1.80	5.10	1.50	1.90	
May - - -	3.20	1.80	5.00	2.60	2.90	4.80	3.50	2.40	1.00	4.80	
June - - -	9.20	4.50	3.60	3.40	2.40	.70	6.20	2.60	.00	1.80	
July - - -	1.90	7.10	5.40	2.10	1.30	3.20	5.50	2.40	.20	1.00	
August - - -	6.90	3.10	2.40	7.30	1.70	4.10	7.10	3.00	2.40	2.80	
September -	3.80	4.90	4.10	8.70	3.00	1.00	9.00	2.90	4.60	8.50	
October - -	6.00	1.50	8.10	8.00	3.70	7.70	3.10	3.60	4.90	3.00	
November -	4.80	6.10	1.60	3.80	5.00	4.80	7.70	1.00	2.70	4.00	
December -	2.00	5.90	4.40	4.50	2.60	2.20	9.20	3.70	10.30	4.50	
TOTALS -	57.30	53.00	49.60	55.40	34.90	38.30	69.20	37.90	41.20	48.00	

61.1 in. in 1860.

61.1 in. in 1860.

RAINFALL AT

Bilberry Reservoir

70

Lat.

Lon.

County of

Rain Gauge, by

Observer

Lewis Hinchliffe

Diameter.		7									
Height.		2.6									
Altitude.	800	820									
Year.	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.	4.00	4.20	8.40	3.10	2.60	4.10	1.50	6.40	4.80	1.10	
February.	2.00	3.00	6.70	1.10	1.60	.40	5.70	4.00	.50	3.00	
March.	4.60	1.50	3.70	3.10	4.40	1.00	4.70	3.40	2.70	2.20	
April.	2.50	3.90	5.90	.40	1.10	1.60	2.10	2.60	1.80	2.30	
May.	2.20	1.30	2.90	2.50	1.20	2.40	1.00	3.80	4.20	2.70	
June.	1.90	5.00	5.90	1.00	.80	3.40	3.00	3.80	3.00	4.10	
July.	1.10	3.40	5.30	2.50	1.70	6.80	2.20	3.40	.70	3.20	
August.	2.00	1.40	6.80	4.50	4.10	3.70	2.10	4.30	6.00	5.10	
September.	4.50	5.70	7.00	2.10	3.40	4.50	5.20	4.20	3.60	2.00	
October.	15.00	3.10	6.50	4.40	5.30	5.90	2.40	4.00	3.80	2.10	
November.	3.10	1.10	6.30	3.30	3.20	5.70	3.60	5.80	2.80	2.00	
December.	1.40	1.50	2.70	1.50	3.10	1.70	8.50	3.80	1.30	3.90	
TOTALS.	44.30	35.10	68.10	29.50	32.50	41.20	42.00	49.50	35.20	33.70	

RAINFALL AT

Bilberry Reservoir

80

Lat. _____

Lon. _____

County of _____

York

Rain Gauge, by _____

Observer _____

Lewis Huchliffe

Over Air + barometer

Diameter . . .	7											
Height	2.6											
Altitude	820											
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January . . . .	.20	.50	5.50	8.00	10.00	5.00	7.10	2.90	2.90	3.90	4.600	
February	5.50	4.30	3.50	3.80	3.80	6.90	2.50	1.50	1.70	4.40	3.740	
March . . . . .	.20	4.30	3.40	1.50	3.20	4.20	4.60	2.60	6.50	4.40	3.490	
April	2.80	1.30	3.70	2.40	2.50	2.90	5.20	2.50	4.30	5.70	3.330	
May	2.50	3.60	1.70	1.60	3.80	3.20	7.50	4.60	1.70	3.80	3.400	
June	4.30	2.20	6.10	5.60	1.60	3.90	2.90	.70	4.80	.50	3.260	
July	6.30	2.30	4.50	3.60	4.30	2.60	5.80	2.10	12.20	4.70	4.840	
August	1.00	4.20	2.80	3.70	2.20	2.40	3.60	2.50	5.30	7.60	3.530	
September . . .	5.60	2.80	2.80	6.60	3.30	6.20	4.20	6.50	1.80	4.80	4.460	
October	6.20	5.20	4.60	7.60	4.30	10.70	7.00	5.50	1.50	7.40	6.000	
November . . .	3.20	3.80	8.80	6.40	2.70	5.40	4.10	4.00	15.70	2.50	5.660	
December . . .	6.50	4.30	6.70	3.60	9.90	2.20	11.10	4.70	3.90	4.20	5.710	
TOTALS	43.80	38.80	54.10	54.40	51.60	55.60	65.60	40.10	62.30	53.90	52.020	

RAINFALL AT

Holmbridge Gibbery Reservoir

Lat. _____

Lon. _____

County of

York W.R.

Rain Gauge, by _____

Observer

Mr L. Hinchliffe

Major J. H. Hill & Sons

Rise - Aire & Calan 8

Diameter	7										
Height	2 6										
Altitude	820										
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January	6.70	5.90	7.00	1.60	6.60	4.70	2.30	2.60	6.10	13.60	5.710
February	1.10	.60	4.60	9.90	12.70	1.00	2.50	4.80	4.50	2.60	4.430
March	6.30	4.40	1.90	1.80	6.80	5.50	9.00	7.50	4.60	4.60	5.240
April	2.40	3.30	2.20	1.00	3.40	3.50	2.30	6.20	4.90	4.90	3.410
May	4.60	5.40	5.90	2.50	2.20	.80	.60	2.20	5.20	4.40	3.380
June	3.50	2.80	5.10	3.10	4.20	2.30	4.50	6.10	3.90	1.70	3.720
July	3.60	4.20	4.30	6.10	4.30	8.10	2.60	3.40	1.40	2.10	4.010
August	4.60	9.60	6.00	3.90	6.10	4.70	2.20	5.10	8.30	2.20	5.270
September	1.90	5.10	5.20	5.40	1.00	1.30	11.00	6.10	1.10	8.90	4.700
October	3.60	8.90	9.40	4.50	7.90	7.30	8.90	2.40	7.30	4.10	6.430
November	5.10	6.60	3.10	5.00	4.40	5.90	2.30	7.40	4.30	2.10	4.620
December	1.10	14.40	3.20	7.40	5.30	8.20	9.10	7.90	10.30	5.60	7.260
TOTALS ...	44.50	71.20	57.90	52.20	64.90	53.40	57.30	61.70	61.90	56.80	58.180

1891 Holmbridge Church 1 mile E
Good Bent Hill 100 yards S.W.

RAINFALL AT Holmbridge Bilberry Reservoir

Lat.

Lon.

County of York W.R. Central

Rain Gauge, by

Observer Mr L Hinchliffe

Mr B. T. Woodcock

Use. Aire & Calder 8

84 Hill St. C.E.

Diameter ..	7										
Height	2.0					2.6					
Altitude ..	820 I										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEAN.
January ..	10.20	3.60	5.30	6.70	6.10	3.70	8.40	3.10	5.50	4.10	5670
February ..	6.90	2.70	1.20	7.10	8.60	4.30	6.10	4.20	5.30	1.60	4800
March	1.40	6.30	3.40	8.90	4.10	6.70	6.10	4.40	4.80	4.80	5090
April	5.10	2.70	3.40	2.40	4.40	4.00	2.10	3.40	3.80	3.70	3500
May	1.90	1.00	3.50	4.60	4.20	4.40	3.20	6.00	3.90	2.50	3120
June	4.10	1.70	1.80	1.50	1.30	1.40	1.80	9.10	2.90	3.40	2900
July	2.90	3.10	3.50	4.10	2.70	2.50	3.60	3.50	4.70	8.80	3940
August	6.80	2.30	4.20	7.10	5.70	5.80	3.10	4.90	4.50	3.10	4750
September ..	1.40	.80	2.80	6.40	1.30	3.70	1.90	1.00	4.20	3.20	2670
October	8.30	4.40	7.70	12.00	2.10	5.10	8.40	8.90	2.30	7.90	6810
November ..	4.50	10.30	3.40	4.10	5.20	7.00	7.90	6.20	3.60	2.50	5470
December ..	9.70	10.10	6.40	3.80	5.10	2.20	6.40	7.10	4.70	11.00	6650
TOTALS ..	63.20	49.00	46.60	69.70	50.80	46.80	59.00	61.80	50.20	56.60	5520

1900 Holmbridge Church 1 1/4 miles E

Goodbent Hill adjoining W

1903 Holmfirth Station 3 miles N

H.R.

RAINFALL at

10 3180

County of W.R. Yorkshire

Observer Mr B. T. Woodcock

River Basin Ouse. Aire Calder &

Q. Kallinon & Co.

Sunder Rain Gauge, by

Diameter ...						5					
Height						10					
Altitude ...						970					
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...							6.65	2.30	6.00	8.30	2325
February ...							10.04	3.30	9.60	2.80	2574
March						1.65	8.20	4.00	2.40	8.50	2310
April						2.44	4.60	4.00	1.60	2.50	1270
May						2.45	3.00	2.50	2.90	2.30	1070
June						1.75	4.25	2.40	2.40	1.60	1065
July						5.40	1.85	2.20	3.70	3.50	1125
August						5.30	1.36	8.00	2.90	4.50	1676
September ..						5.54	3.05	3.80	14.00	2.60	2345
October ...						2.31	10.00	9.60	3.90	4.00	2750
November ..						3.85	6.83	7.00	2.90	4.50	2123
December...						10.70	4.93	3.90	10.00	1.50	2763
TOTALS ...							64.76	53.00	62.30	53.90	23346

Site selected by C.S. 27.1.15 about 150 ft above water in level field, 3 yds S. of wall (2 ft high).

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

RAINFALL at Holmbridge Railway ReservoirCounty of W. R. Yorkshire Observer Mr B. T. WoodcockRiver Basin Ouse, Aire, Calder &Dilapidated zinc Post Gauge, by _____

shallow funnel - no pipe
 6.80, 6.90 6.85, 6.90 (av. 6.86)
 6.90, 6.90 6.90, 6.90
 6.85 6.90 say 6.85 inside

Diameter ...	7						5				
Height	20						10				
Altitude ...	820 T						970				
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	8.90	2.20	7.20	6.10	4.50	11.00	6.65				
February ...	7.10	5.90	2.40	2.10	4.40	7.50	10.04				
March	1.60	2.70	5.50	7.90	6.60	1.70	8.20				
April	5.50	3.60	1.10	5.90	1.70	2.10	4.60				
May	5.20	2.30	4.20	3.40	2.60	2.20	3.00				
June	4.60	4.00	5.40	2.90	4.20	1.50	4.25				
July	5.40	.40	6.10	1.40	3.00	5.20	1.95				
August	5.00	4.50	8.70	1.70	3.90	5.20	1.86				
September ..	.60	3.90	2.60	2.60	3.00	.50	3.05				
October ...	3.00	3.90	4.90	5.30	3.00	2.10	10.00				
November ...	7.40	6.90	4.30	5.30	7.60	3.90	6.53				
December ...	6.30	7.80	7.10	4.30	10.30	11.00	4.93				
TOTALS ...	63.60	48.10	59.90	48.90	54.80	53.90	64.76				

See next Sheet

+ 27. I. 15 C.S. 4. dilapidated. Collar of funnel detached half way round. Said to have been so 2 or 3 months - will be repaired. In box on steep natural bank 10-12 ft S. of Res. Land rises on S. Sheltered on all sides except E. Gauge was in the summer 1914 on N. bank close to fork in R. 6-7 yds from water - more level + less exposed.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
			Holmbridge	1 1/2 m	E	Holmbridge	1 m	E

RAINFALL at Holmbridge Bilberry ReservoirCounty of N. H. YorkshireObserver Messrs. Mallinson & Son G.C.River Basin Cuse-Cire-Calden Sfor Holm Res. DivisionSnowdon Rain Gauge, by _____

Diameter ...	5										9 1/2	
Height	10											
Altitude ...	970											
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	
January ...	6.50	8.80	5.50	5.50	3.50	6.70	6.20	5.30	13.20	2.20	9.03	7243
February ...	5.70	5.50	6.00	7.40	2.80	9.20	5.20	1.50	8.10	6.0	1.15	4815
March	5.00	5.30	4.20	3.50	1.00	2.00	2.30	7.00	4.00	1.20	3.11	3861
April	8.20	2.30	4.90	4.00	3.00	4.10	3.30	5.50	1.20	2.00	3.00	4150
May	5.20	2.30	1.50	6.60	7.50	4.70	4.20	1.80	2.00	4.10	2.83	4213
June	6.00	Nie	3.70	1.00	2.30	0.00	3.40	4.70	6.00	1.30	4.10	3250
July	6.30	2.20	5.20	(500)	4.20	1.20	3.70	3.40	2.20	2.90	8.03	4433
August	2.80	6.90	7.60	(530)	5.00	4.50	5.00	6.50	5.10	5.80	5.18	5968
September...	1.80	1.60	5.20	(520)	5.50	4.50	3.30	7.50	6.0	2.25	5.46	4291
October.....	3.00	1.70	1.80	(600)	7.20	7.20	5.50	6.50	6.80	6.60	7.43	5943
November...	2.50	2.80	3.20	(800)	3.90	3.20	6.70	7.30	9.70	10.50	7.81	6561
December...	6.60	8.60	5.80	(500)	7.50	5.50	3.00	3.30	4.30	12.50	4.08	6618
TOTALS...	59.60	43.00	54.30	(6190)	53.40	52.80	51.80	60.30	63.20	51.95	61.21	61346

1925. Rain gauge stolen in July, but not reported G.C.E. for some months afterwards.

entry nearly
stationary.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
			Holmfirth			Holmbridge		

RAINFALL at Holmbridge (Bilberry Res.)County of West RidingObserver Messrs. Mallinson & SonRiver Basin Ouse - Aire - Calder - 8J. P. Barnidge Esq. C.E.Type of Gauge StandardGlaisher (1916)Annual Average 45.5 in. based on 55 years obs. un-weighted.Period of average 1881-1915Ref. S

1940 Deleted see Min. Y. 1/16. 820633/25

815113/28

Diameter	5.										
Height	1.0.										
Altitude	970.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Mens- Total
January	7.38	6.13	4.65	4.33	3.33	5.00	6.25	7.50	6.50	5.25	5632
February	8.49	.43	6.40	.27	6.66	4.10	6.60	2.90	5.16	2.75	4270
March	.58	3.65	2.50	4.25	2.42	4.56	4.45	1.05	4.90	4.50	3286
April	5.53	6.69	2.00	3.75	4.11	1.95	3.05	.30	3.30	3.68	3436
May	3.56	6.16	2.20	4.04	.65	1.62	3.75	4.60	2.11	1.50	2919
June	6.21	.18	2.96	2.20	4.00	4.62	2.25	5.00	3.90	1.00	3232
July	5.63	6.72	3.10	2.75	2.00	4.35	2.95	5.00	7.70	4.40	4360
August	7.30	2.65	0.94	3.25	2.89	2.50	1.85	4.70	2.30	2.50	3088
September	5.12	6.51	2.50	3.75	8.50	7.00	2.33	2.63	1.85	4.80	4399
October	3.60	8.97	5.61	6.00	12.57	6.72	3.80	12.00	3.35	6.20	6882
November	6.61	4.38	2.25	3.55	9.00	8.13	2.72	7.20	9.64	10.20	6370
December	2.51	2.79	0.80	5.75	4.00	5.33	3.05	4.25	4.20	5.32	3800
TOTALS	62.52	52.26	34.91	43.89	60.13	55.88	43.05	57.13	54.87	52.10	51674

* Gauge taken over by Huddersfield W.W. X/37

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. 3180

RAINFALL at Holebridge (Bilberry Run)

41

County of West RidingObserver J.P. Brindley Esq. C.F.*River Basin Ouse - Aire Calder - 8Type of Gauge Hybrid (1722)Annual Average R. in. based on years obs. un-weighted. Period of average Ref.
See Min. 7 in file 820633/28

File No. 660601/26

Diameter	5"		078	764								
Height	1' 0"			1								
Altitude	970'			41								
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	<u>Means</u>	<u>Total</u>
January	3.50	4.25	8.00	10.20	4.78	7.37	4.38	13.10	2.70	3.13	6.14	
February	6.10	1.25	4.75	2.50	6.70	7.59	(3.50)	4.15	3.39	7.70	4763	
March	6.70	3.10	2.50	.62	2.00	2.62	(8.00)	2.13	1.90	3.13	3270	
April	3.25	(2.80)	2.50	3.23	3.65	2.34	5.00	3.07	5.18	8.81	3683	
May	3.25	4.80	3.62	7.30	4.42	2.44	3.78	2.09	3.34	3.15	3819	
June	1.50	1.60	3.78	2.80	6.50	4.71	3.20	5.46	1.12	2.09	3276	
July	2.10	(5.20)	2.45	2.63	2.28	5.21	2.26	2.27	3.48	3.46	3140	
August	6.65	(6.80)	6.25	4.53	3.80	5.38	.27	5.89	3.74	5.16	4847	
September	.65	3.65	5.45	6.65	3.85	7.96	2.74	2.86	1.56	8.09	4346	
October	5.75	7.90	2.90	5.30	7.23	2.13	1.37	3.10	4.74	3.40	4402	
November	4.27	2.10	4.83	10.40	7.4	9.62	7.40	2.56	7.69	7.88	5749	
December	3.70	5.00	3.26	5.60	3.61	5.57	5.68	5.11	10.26	3.19	5098	
TOTALS	47.42	(48.45)	50.29	62.02	49.56	62.94	47.58	51.79	49.10	66.19	52534	

* Gauge taken over by Huddersfield W.W. 1/37. 30004
 1942 m.p. too much estimation. Apr, May, July - Oct amended.
 1947 February. solid for snow

04604

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. 3180

RAINFALL at Holmbridge (Bilberry Res.)

51

County of West Riding - Yorks.

Observer J. P. Beveridge Esq. C.E.

River Basin Ruse-Aire Calder

Type of Gauge Glashier Snowden

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

File No. 66.068/26

Diameter ...	5"		078	764								
Height ...	1' 0"			1				8"				
Altitude ...	970'			51			870'	870'				
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	Totals
January ...	6.54	5.53	(3.29)	3.74	2.91	5.81	5.01	5.53	5.80	11.39	55.55	
February ...	5.31	1.53	(3.00)	3.26	2.40	1.43	4.14	6.03	.38	3.36	30.84	
March ...	7.33	3.05	3.45	4.16	3.60	2.03	3.83	2.93	2.34	2.45	35.17	
April ...	3.69	4.56	4.35	.75	2.69	3.14	.61	1.94	6.24	3.25	31.22	
May ...	4.33	1.72	2.84	4.08	5.62	1.82	1.63	5.13	1.90	2.60	31.67	
June ...	1.37	3.78	4.39	3.38	3.95	3.69	1.47	5.01	2.18	2.00	31.22	
July ...	3.81	2.70	6.45	5.10	1.63	7.99	3.32	6.17	3.35	5.99	46.51	
August ...	7.27	4.47	4.95	6.66	.82	10.99	5.49	4.25	.73	6.46	52.09	
September ...	3.13	4.67	3.49	6.61	2.39	5.10	7.33	4.72	.31	3.52	41.27	
October ...	1.31	6.82	2.25	9.17	3.02	3.72	5.93	4.72	4.83	7.84	49.61	
November ...	12.10	2.88	4.11	8.76	2.30	2.32	3.24	1.34	6.14	8.09	51.28	
December ...	9.91	4.85	2.25	7.86	5.49	5.71	5.61	5.94	10.92	6.27	64.81	
TOTALS ...	66.10	46.56	44.87	63.53	36.82	53.75	47.61	53.71	45.12	63.22	521.24	
			31.60004					M	M	M		

1956 Slightly low but caught
INSR. MAY 1957 1.80". Bad site - Over shelter by hill to S. Over open E-W. Recommended new g. further up hillside. * appears to be near 870 than 970

An. av. 51.81 in. evap. 0.01. Period 1916-50 - Rejected.
51.56 (1954-67)

Position of Station on Ordnance One-Inch map: No. of Map 102 National Grid Reference SE102068

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 - Rejected

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	Comp 1915	✓ np23	✓	✓ np22	