

## RAINFALL AT Malham Tarn

Lat.....

Lon.....

County of

Yorkshire N.W.R.  
outward  
Rain Gauge, by..... Observer Mr. B. J. Pegg

Diameter .....	5										
Height .....	1	1									
Altitude .....	1250	1190	1250								
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	4.92	1.88	7.16	8.41	6.88	7.45	2.62	8.97	7.71	2.69	5.869
February.....	2.86	5.87	6.77	1.00	2.39	1.34	6.52	5.96	1.86	3.51	3.808
March.....	3.20	2.89	6.36	4.01	5.95	1.54	7.52	5.30	4.47	3.69	4.493
April.....	2.89	4.19	3.59	.71	2.32	2.14	4.01	3.87	3.75	2.21	2.968
May.....	3.44	1.99	3.50	2.99	2.01	3.87	1.07	3.43	5.82	2.35	3.047
June.....	2.56	4.05	5.93	2.81	1.47	4.69	2.72	2.93	6.92	6.92	4.100
July.....	1.66	8.47	4.47	5.79	3.38	5.29	4.61	9.43	2.15	7.21	5.246
August.....	2.79	3.23	5.37	7.53	10.53	4.51	4.61	8.34	6.21	9.44	6.266
September.....	3.18	6.28	10.53	8.62	6.15	5.21	5.98	4.30	6.68	3.93	5.586
October.....	13.06	5.89	7.08	7.79	6.98	5.35	3.92	8.60	6.02	3.84	6.853
November.....	3.59	1.93	8.24	4.63	5.84	7.34	4.88	9.12	4.25	2.32	5.214
December.....	4.92	4.26	5.54	8.76	4.16	3.46	10.66	6.15	3.25	3.01	4.917
TOTALS.....	49.07	50.93	74.54	53.05	58.06	52.19	59.12	76.40	59.09	57.92	58.357

C C C

1876 Height of gauge lowered from  $\pi$ , previously taken  
from the contour line on 6 inch map.

## RAINFALL AT Melham Tarn

80

Lett.

100

County of York, N.Y.

Rain Gauze, by

Observer Mr. Coulthard

Ouse-Are 9. Old Garage

## RAINFALL AT Malham Tarn

Lat.

Lon. .... County of York W.R.

Rain Gauge, by

Observer W. Coulthard

Ouse Aire 9

Diameter .....					5						
Height .....		1.	-		1.0						
Altitude .....					1296 ft						
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January .....	6.3	1.26	5.20	8.34	9.39	4.01	8.23	4.96	4.07	3.77	4.986 49.
February .....	4.69	6.89	5.03	4.38	4.47	4.90	2.16	2.10	2.83	3.74	4.119 36.
March .....	4.37	7.93	6.33	1.51	4.37	4.34	6.29	2.71	5.22	6.44	4.951 45.
April .....	3.04	2.61	6.69	3.25	2.51	2.25	3.92	2.14	3.49	3.24	3.314 30.
May .....	2.12	4.41	2.87	1.37	4.16	3.46	5.57	2.89	2.35	2.87	3.176 29.
June .....	6.47	4.45	7.32	6.66	5.57	3.04	2.49	3.32	2.82	.71	34.857 28.
July .....	8.22	8.21	10.39	5.74	7.35	2.09	6.56	2.98	7.18	4.72	63.44 55.
August .....	3.24	8.13	5.54	4.81	2.70	2.81	3.04	3.28	6.88	9.92	50.35 47.
September .....	5.54	2.76	3.66	7.20	3.46	6.78	5.48	7.70	2.59	3.75	48.92 43.
October .....	3.09	4.74	5.21	8.64	4.81	7.63	7.71	3.36	2.50	6.41	5.410 51.
November .....	6.79	8.72	8.29	6.29	3.33	3.43	5.49	4.35	9.74	3.13	5.976 53.
December .....	10.06	5.25	6.90	5.78	8.35	3.16	6.98	4.51	5.01	4.32	6.032 50.
TOTALS .....	58.21	65.36	73.13	63.97	55.67	47.89	63.92	41.30	54.68	53.02	57.792 61.8

old gauge

5

'80 '81 & '82 = old gauge for winter January  
(partly)
$$\begin{array}{r}
 5772 \\
 5832 \\
 \hline
 5189
 \end{array}$$

498.6

## RAINFALL AT Malham Tarn

Lat.

Len.

County of York

Rain Gauge, by

Observer Mr. J. Coulbard

One - One 9

Diameter .....	8										
Height .....	100										
Altitude .....	1296										
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January .....	8.68	4.94	5.36	2.51	6.81	5.03	4.50	2.03	5.52	9.28	54.66
February .....	1.07	1.13	4.19	7.73	8.92	1.57	2.96	4.83	6.34	3.58	42.32
March .....	6.63	4.05	1.27	2.26	5.49	5.09	8.32	7.64	3.75	3.55	48.05
April .....	2.28	2.48	2.63	.96	2.92	3.74	3.13	3.33	4.65	5.46	31.58
May .....	3.86	2.51	6.63	3.45	3.54	1.20	.54	3.51	3.18	4.65	33.07
June .....	5.98	2.42	4.62	3.22	4.15	2.98	3.93	5.12	5.09	1.42	38.95
July .....	5.22	6.08	2.64	5.39	4.03	8.18	3.91	2.36	1.83	3.13	42.77
August .....	8.35	11.43	8.87	5.44	5.89	6.41	3.03	10.19	7.19	2.35	69.15
September .....	5.16	4.91	5.45	5.64	.59	2.67	9.95	6.12	2.70	8.21	61.46
October .....	6.14	11.62	5.96	7.78	6.38	6.99	6.59	4.95	2.75	5.97	57.28
November .....	10.25	5.56	3.81	4.19	4.78	5.89	1.83	4.70	4.03	4.49	49.53
December .....	9.4	9.58	3.81	5.58	6.12	5.98	7.95	9.59	7.25	4.73	61.53
TOTALS .....	64.56	61.95	57.06	52.75	60.23	55.33	55.00	62.17	57.50	54.48	58045.

## RAINFALL AT Malham Farm

Lat.

Lan.

County of

York N.R.

Rain Gauge, by

Observer

Mr Coulthard

Ouse-Aire 9 Old Gauge

Diameter .....	5										
Height .....	10										
Altitude .....	1296 ft										
Year .....	1890	1891.	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January .....	8.68	4.94	5.40	2.51	6.88	5.07	4.56	2.01	5.63	9.29	5.497
February .....	1.07	1.13	4.15	7.69	9.03	1.58	3.01	4.91	6.56	3.61	4.274
March .....	6.63	4.05	1.27	2.27	5.58	5.18	8.45	7.59	3.91	3.56	4.849
April .....	2.28	2.48	2.64	.95	2.96	3.76	3.25	3.43	4.71	5.50	3.196
May .....	3.86	2.51	6.60	3.43	3.58	1.18	.57	3.56	3.24	4.73	3.326
June .....	5.98	2.42	4.60	3.24	4.21	2.97	4.00	5.06	5.21	1.42	3.911
July .....	5.22	6.08	2.61	6.44	4.05	8.18	3.90	2.39	1.87	3.13	4.284
August .....	8.35	11.43	8.90	5.50	5.92	6.48	3.08	10.28	7.30	2.35	6.959
September .....	5.16	4.97	5.45	5.71	.58	2.68	9.90	6.13	2.77	8.23	5.168
October .....	6.14	6.20	7.81	6.44	7.06	6.69	4.88	2.80	6.10	3.70	5.782
November .....	10.25	5.56	3.84	4.21	4.84	5.96	1.86	4.76	4.09	4.52	4.989
December .....	.94	9.58	3.80	5.66	6.20	6.02	7.93	9.81	7.34	4.80	6.208
TOTALS .....	6456	61.35	57.07	53.05	60.89	55.75	55.39	62.73	58.73	54.84	58.436

The ratio between the records for Arncliffe & Malham Farm from 1887 to 1890 is abnormal, but correspondence with Canon Boyd, W. Morrison Esq. & Mr. Coulthard failed to suggest any probability of error in the observations.

## RAINFALL AT Malham Tarn

Lat.  $54^{\circ}$  N Lon.  $2^{\circ} 10' W$  County of York wh. Central  
Rain Gauge, by Observer Mr. Goughard

Use - Are of old gauge

Diameter ..	5									
Height ....	10									
Altitude ..	1296 ft									
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	MEANS.
January ..	7.15	4.62	5.90	7.06	5.73	3.92	8.00			
February ..	4.79	2.07	1.91	6.86	4.22	4.08	3.96			
March ....	.63	4.33	3.71	8.63	3.30	5.29	5.00			
April.....	3.88	3.64	2.57	4.27	5.09	6.04	1.93			
May .....	2.53	2.11	3.16	3.76	3.77	1.47	7.76			
June .....	4.82	2.45	1.74	1.99	2.20	3.19	2.59			
July .....	3.68	1.91	5.22	6.64	2.17	2.20	3.08			
August ....	8.03	6.52	3.45	6.98	4.49	5.36	6.35			
September..	2.65	2.67	2.06	6.59	2.13	5.56	2.24			
October....	9.80	4.44	5.30	13.72	2.90	4.49	11.19			
November ..	6.97	9.14	3.91	4.07	6.80	6.42	6.88			
December ..	6.69	7.76	5.48	4.09	4.51	3.01	4.82			
TOTALS ..	61.62	51.66	44.41	73.65	47.34	51.03	63.80	see next sheet		

J P D

Settle Station

From 1906: The figures from the old new ga. were identical daily; they were therefore considered as one only.

## RAINFALL AT Malham Tarn

Lat.  $54^{\circ}$  N.Lon.  $2^{\circ} 10'$  W.

County of York wR Central

Rain Gauge, by

Observer Mr. Gough

Pine-Arie Rain Gauge

Diameter ..	8										
Height ..	10										
Altitude ..	1296 ft										
Year ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	7.12	4.55	5.82	6.97	5.70	3.87	8.01	3.79	5.61	3.69	5.513
February ..	4.86	2.05	1.91	6.77	4.23	4.10	3.96	3.18	5.05	4.66	4.077
March ..	.60	4.31	3.66	8.54	3.31	5.30	6.00	5.88	5.63	4.05	4.628
April ..	3.84	3.63	2.58	4.19	5.10	6.12	1.93	4.14	3.81	5.21	4.055
May ..	2.52	2.10	3.12	3.73	3.75	1.46	7.76	5.51	3.78	3.07	3.680
June ..	4.75	2.45	1.74	2.00	2.18	3.21	2.59	8.51	2.57	3.44	3.344
July ..	3.67	1.89	5.19	5.64	2.20	2.20	3.08	4.02	6.79	8.08	4.276
August ..	7.96	6.50	3.39	6.92	4.47	5.35	6.35	5.58	5.94	5.33	5.779
September ..	2.64	2.63	2.04	6.52	2.11	5.55	2.24	1.25	7.52	4.70	3.720
October ..	9.73	4.41	5.28	13.61	2.91	4.49	11.19	6.09	4.15	7.63	6.949
November ..	6.98	9.09	3.94	4.07	6.79	6.42	6.88	4.27	4.21	2.95	5.560
December ..	6.70	7.73	5.42	4.05	4.50	3.01	4.82	7.58	4.71	7.01	5.553
TOTALS ..	61.37	51.34	44.09	73.01	47.25	51.08	63.81	59.80	59.77	59.82	57.134 1544

D D D D D D

1911 Settle Station

H.W.G.

## RAINFALL at Malham Tarn

County of W.R. Yorkshire

Observer Mr J. Winskill

River Basin Once. Cens. 9

Rain Gauge, by \_\_\_\_\_

Diameter ...			5								
Height .....			1.0								
Altitude ...			1296								
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...			6.49	5.33	8.71	6.99	5.87	5.81	7.62		
February ...			2.06	5.21	8.15	6.29	1.88	7.78	1.70		
March .....			7.56	8.14	2.85	3.30	2.58	2.85	5.59		
April .....			6.55	1.86	2.89	4.66	2.49	1.46	3.97		
May .....			3.81	4.14	1.68	3.76	2.31	2.09	2.00		
June.....			2.90	2.39	.43	3.55	2.17	2.13	1.90		
July .....			1.24	4.61	5.81	4.54	2.46	5.26	3.29		
August.....			8.26	2.82	3.48	3.71	6.17	11.27	5.69	4.91	
September ..			3.03	2.72	3.59	1.26	3.64	3.88	13.39	3.24	
October ...			5.50	2.51	3.25	1.51	13.19	7.96	5.49	3.73	
November ..			6.17	7.67	8.12	2.98	5.44	7.18	2.81	5.03	
December...			6.90	3.98	8.97	9.90	3.88	3.20	9.85	9.93	
TOTALS ...			50.75	59.09	49.88	65.41	54.25	64.11	52.98		

Previous to August 1912, the 8' + 6' gauges were averaged. See Record for 8 in gauge -

19

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
	54°	2° 10'	Selby	6 m	W	Kirkby Malham	4 3/4 m	S

## RAINFALL at Malham Tarn

County of W. Yorkshire

Observer Mr T. Southard

River Basin Ouse. Ave. 9

Mr John Windhill

M.O. Rain Gauge, by

Diameter ...	8										
Height .....	10										
Altitude ...	1296 ft										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	10.00	2.55	5.22	6.45	5.22	8.52	6.66	5.81	5.78	7.50	
February ...	8.61	7.10	3.02	2.94	5.15	7.95	6.11	1.83	7.66	1.69	
March .....	1.45	2.94	9.62	7.30	8.05	2.81	3.22	2.53	2.31	5.54	
April .....	4.05	3.06	2.25	6.44	1.84	2.87	4.56	2.37	1.46	3.19	
May .....	2.65	2.34	3.66	3.74	4.05	1.64	3.71	2.28	2.10	1.98	
June .....	3.50	3.70	9.22	2.81	2.38	.43	3.43	3.08	2.12	1.15	
July .....	5.16	1.21	5.79	1.24	4.61	5.18	4.42	2.40	5.23	3.55	
August .....	7.61	2.89	8.06	2.27	3.37	3.66	6.07	11.14	5.68	4.88	
September ..	.75	5.00	2.98	2.64	3.55	1.23	3.56	3.77	13.24	3.19	
October ...	4.64	5.41	5.48	2.50	3.21	1.47	12.90	7.87	5.47	3.68	
November ..	5.19	7.05	6.01	7.61	7.94	2.95	5.27	7.04	2.75	4.96	
December ...	7.82	8.58	6.80	3.92	8.82	9.59	3.81	3.18	9.67	9.97	
TOTALS ...	61.40	51.83	68.11	49.86	58.22	48.30	63.72	53.30	60.47	52.16	57.040
	D	D	D	D	D	D	D	D	D	D	

\* Previous to Aug. 1912 - the records of 8" and 5" gg. were averaged

Inspected 3 Snowdon & M.O. gauges a yard apart in perfect order. On lawn at N. end of Malham Tarn. Exposure perfect.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
	54°	2° 10'	Settle	6 m	W	Kirkby Malham	5	S

next to 3311 20

## RAINFALL at Malham Tarn

County of W. B. Yorkshire

Observer W. J. Winskill (State Agent).

River Basin Cuse-Aire 9

*Rain Gauge, by*

*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	52° 24'	2° 10'	Settle	6 mi	S W	Kirkby Malham	4 1/2 mi	S

## RAINFALL at Malham Tarn

County of W.D. Yorkshire

Observer: M. J. Winskill

River Basin Ure - Aire g

M.C. Rain Gauge, by

Diameter ...	8										
Height .....	10										
Altitude ...	1296	1292				1296					
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS.
January ...	6.54	11.20	5.65	7.87	4.71	5.63					
February ...	5.82	8.0	5.88	8.54	2.24	7.17					
March .....	5.17	5.17	3.66	2.66	2.28	2.51					
April .....	7.70	2.22	3.12	4.43	3.11	4.27					
May .....	7.06	3.45	2.50	5.89	6.52	5.37					
June .....	2.35	8.1	4.56	1.82	3.65	2.22					
July .....	9.63	2.81	8.93	7.04	7.20	3.10					
August .....	4.39	6.91	5.98	8.42	9.04	7.15					
September...	2.73	3.20	5.35	8.34	6.21	4.57					
October.....	2.75	4.64	1.84	9.16	6.37	7.10					
November...	3.97	3.93	3.88	7.13	5.11	3.13					
December...	5.76	9.96	5.96	5.82	8.32	5.72					
TOTALS...	63.87	55.10	57.31	77.12	64.76	55.94	#				
	—	—	—	—	—	—					

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
5°4'	2°10'		Settle	6 mi	W	Hawes	5 mi	S

## RAINFALL at

SATTLE (MANHORN TARN)

41

County of YORKS. W. R.

Observer (P. F. HARRIS Esq.) Stat.

River Basin 9 - Ouse &amp; Aire

Council for the Promotion of Field Studies (1950)

Type of Gauge M.O. Mk. II

(Auth. in PR to be abbreviated :  
"C. Promotion of Field Studies")

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

Ref.....

File No. A 959.698/4E

Diameter		073	419					5"			
Height				1				1' 0"			
Altitude				41				1297'			
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January									3.21	4.84	
February									5.93	7.99	
March									2.62	2.97	
April									7.11	3.98	
May									2.80	3.29	
June									1.15	4.74	
July									4.32	6.30	
August									3.18	10.60	
September									1.69	7.76	
October									7.45	4.08	
November								#	7.25	6.26	
December									10.35	3.53	
TOTALS								N.R.	57.06	66.13	

948 Ref. 165. Range 125° NE, Elevation 30'. Height 85'-100' S.E. Tarn 40' height 940' SW.

Insp. 26/10/50. Satisfactory but enc. round gauge to be enlarged.

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.
1948	56° 6'	2° 10'						

BRITISH RAINFALL ORGANIZATION

Station No. 33119

## RAINFALL at Settle (Marlham Farm) M.W.R.

51

County of West Riding - Yorks. Observer P. F. Holmes Esq.

River Basin. Council for the Promotion of Field Studies (1950)

Auth. in B.R. to be abbreviated:- C. Promotion Field Studies

Type of Gauge.

Annual Average in. based on years obs. un-weighted. Period of average 1916-50 Ref. S

" 60.28 " " 9 " 1949-57 "

File No. 2959698/48

E.17073/24

Diameter	5"	073	419							5"	
Height	1'0"			1						1'0"	
Altitude	1297'		517							1297'	393m 103
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January	5.38	5.46	2.37	4.67	3.67	5.48	6.39	5.47	4.61	6.85	50.35
February	4.67	1.24	3.04	3.34	2.55	2.41	5.81	10.31	1.78	5.24	40.39
March	5.71	3.82	.94	3.51	2.03	2.65	6.34	2.17	3.51	1.84	32.52
April	3.02	3.47	3.75	1.49	2.91	2.19	.62	2.16	4.58	3.69	28.18
May	2.18	2.60	1.89	4.22	5.00	3.24	3.40	6.33	.89	2.27	32.02
June	1.70	4.95	6.94	4.51	4.98	3.55	2.51	5.41	2.47	2.70	39.72
July	4.23	4.10	3.26	6.98	2.48	7.12	5.89	5.65	3.97	9.71	57.89
August	4.92	7.69	8.99	9.76	1.03	13.88	8.29	5.19	.72	3.90	64.37
September	3.75	5.37	6.07	8.03	3.40	5.03	8.11	5.72	.33	4.31	50.12
October	2.68	5.71	2.68	12.06	4.46	2.96	6.96	5.03	5.81	5.17	53.52
November	10.46	2.95	6.49	7.74	3.26	2.75	2.60	1.82	7.32	9.64	55.03
December	12.13	5.39	3.33	9.95	8.56	7.13	5.31	5.78	10.03	6.49	74.10
TOTALS	60.83	52.75	54.75	76.56	44.33	58.39	61.73	61.04	46.02	61.81	578.21
	D	D	D	D	D	D	D	D	D	D	166.86-534

1955. Station inspected by Mr. F. H. Bright 11<sup>th</sup> June.

26/6/60. c. 3.1. RANENSEN. no object, 0.1. depn slope down to S and lake, house, Hall &amp; thus shelter in other directions. 1/2 from S. artificial wind break, eg. bushes.

Position of Station on Ordnance One-Inch map : No. of Map ..... National Grid Reference 34/898672

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Parish Church.	Distance from gauge.
1955			Settle	6 m.		

Summary of Earlier Records from 10-year Sheets :

Record D. or d		1910-19	1920-30	1931-40	1941-50	1951-60
					C 1949 ✓	