

West Malvern

A. H. Hartland

Worcester

8 in. gauge + ground 1 ft 6 in.

+ Sea level 900 ft

Severn, Right Bank -- I

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -			2.11	2.99	1.31	1.56	2.08	3.14	2.60	5.39	
February - -			1.39	.66	1.61	2.07	2.86	2.23	1.56	3.28	
March - - -		2.55	4.30	1.25	2.64	.91	1.89	4.13	1.27	1.30	
April - - -		1.23	2.76	1.31	1.37	1.45	1.35	1.89	2.21	1.82	
May - - -		1.23	4.05	.82	1.43	2.91	.90	3.02	2.15	5.51	
June - - -		2.17	2.47	4.87	1.38	2.17	3.63	.96	.36	1.16	
July - - -		4.50	2.21	.92	.86	3.36	1.34	3.21	1.07	.53	
August - -		1.01	1.03	2.64	.87	3.41	3.82	2.40	5.47	1.14	
September -		2.64	4.34	3.17	3.59	.13	5.33	2.68	2.50	3.21	
October - -		2.15	3.83	5.25	2.37	4.36	2.99	2.01	2.68	3.96	
November -		2.50	.90	2.35	2.47	2.98	1.47	1.85	2.07	1.83	
December -		1.89	1.70	1.00	2.96	1.71	1.72	1.07	6.11	4.55	
TOTALS -		31.89	27.23	22.36	27.82	29.38	28.59	30.75	33.68		

S & S & C C C C C C

1869 h 5 n 2 1 1000

1869 The return is for 53 weeks - from 27th of Dec 1868
to 1st of Jan 1870 both included

RAINFALL AT Malvern West

Lat..... Long..... County of.....
 Rain Gauge, by..... Observer A. H. Harland Esq.

Severn. Right Bank-- 1

Diameter8										
Height	1.6										
Altitude	850										
YEAR	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	1.65	2.51	4.06	3.72	2.72	3.73	2.38	4.18	1.96	2.83	2.974
February.....	2.48	7.06	3.70	1.38	2.98	1.40	2.14	2.28	1.93	3.14	2.252
March.....	1.69	1.51	2.16	2.53	6.68	1.06	2.82	2.02	.54	.87	1.588
April.....	- .66	3.70	2.02	1.16	2.18	.98	2.86	3.26	3.12	2.95	2.289
May92	1.11	3.18	2.33	1.52	3.24	.59	2.83	6.30	3.03	2.505
June.....	1.07	6.33	5.34	1.28	1.11	2.74	1.02	.76	2.39	5.22	2.726
July.....	1.13	3.50	3.15	4.77	1.82	7.49	.89	3.51	2.26	3.29	3.181
August.....	1.74	1.66	1.77	2.97	2.26	2.03	2.23	6.39	4.68	6.85	3.258
September.....	1.19	7.53	2.29	2.04	3.75	3.68	5.84	2.32	2.67	3.14	3.445
October....	+ 3.99	1.64	4.09	2.21	3.06	8.18	2.48	1.33	4.64	2.17	3.379
November.....	3.00	1.24	5.31	1.52	2.70	4.96	4.64	3.79	2.71	.64	3.051
December.....	1.88	1.92	4.34	.67	2.00	.91	7.02	1.37	1.93	.27	2.231
TOTALS.....	21.40	33.71	41.41	26.58	26.78	40.43	36.91	34.04	35.13	34.40	32.879

C C C

1879 House 30ft high 40ft distant W.

West Malvern church $\frac{1}{4}$ mile N.W.

RAINFALL AT *West Malvern*

80

Lat.

Lon.

County of

Norfolk

Rain Gauge, by

Observer *A. J. Hartland, Esq.*

Station, R - 1.

Diameter	8										
Height	1.6										
Altitude	800 B										
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January	1.29	.83	2.04	4.29	3.18	2.32					
February	4.19	3.84	3.05	3.40	1.96	3.29					
March	1.08	2.29	1.16	1.14	2.12	1.10					
April	2.17	1.09	4.24	1.05	1.80	3.22					
May	1.68	1.62	2.20	1.38	1.05	2.54					
June	4.41	2.71	2.04	3.14	3.58	2.86					
July	6.39	1.63	5.52	2.39	3.18	3.33					
August	2.25	5.11	2.90	2.52	2.33	2.53					
September....	4.22	2.28	2.85	4.33	1.94	3.37					
October.....	4.39	2.58	4.04	2.92	1.76	3.90					
November....	2.04	2.80	4.64	3.96	1.28	3.91					
December....	3.43	3.60	3.12	1.78	2.57	1.85	X				
TOTALS	38.74	30.38	39.78	31.70	25.73	30.22					

1880. N. Malvern 300 yards

NW

House 30ft high 50ft W.

Trees 30ft ... 50ft E

RAINFALL at West Malvern.County of Worcester, Observer ~~Mr. Osborne Hoff~~ C.E.River Basin 1 - Severn R. Engineer Surveyor Malvern.

M.O. Rain Gauge, by
 Standard sound + correct
 N+Z. Camden measure correct } U.27

Diameter ...	6"											
Height	1	0										
Altitude ...	832											
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	MEAN
January ...	3.67	2.81	4.50	1.27	3.67	1.89	3.53	3.34	4.26	1.20	4.63	
February95	1.25	3.16	5.84	.54	3.02	2.30	2.48	2.23	.69	.72	
March	3.42	1.25	2.14	1.82	1.57	1.44	1.59	2.45	3.22	.08	2.71	
April.....	4.75	1.09	2.55	2.88	2.92	1.82	2.70	1.86	1.87	.97	3.20	
May	1.94	1.32	.73	1.85	1.71	3.33	3.73	1.38	1.13	1.81	2.39	
June	2.87	.67	.94	.44	2.54	.00	1.39	3.49	2.72	1.78	1.35	
July	4.86	.46	5.12	3.19	4.96	3.02	2.54	3.30	1.42	1.94	3.13	
August81	4.07	3.32	2.09	2.75	2.33	3.14	4.90	2.09	1.48	3.31	
September...	2.80	1.21	2.81	2.04	5.26	4.04	1.49	4.77	0.89	.75	4.63	
October.....	2.59	1.66	.35	4.99	3.12	3.06	2.72	2.21	4.99	4.29	2.46	
November...	.96	1.99	1.18	1.35	3.07	1.54	6.92	3.92	2.57	7.87	3.63	
December...	2.53	1.88	3.82	2.64	3.09	3.23	.54	2.20	2.57	5.97	3.54	
TOTALS...	32.15	18.66	30.62	33.40	43.20	27.72	30.59	36.24	29.26	28.83	35.70	
	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫

1920 - Monthly values read 21.VII.22 - 5.VII.13.XI.22

Inspected 27.V.27 2m vegetable garden alongside road, hedge adjoining road to W, house to south + rising ground with bushes etc to E somewhat to N, exposure excellent except that bushes to E tended to over-shelter the gauge. These will be cut down.

1929. House 20 ft high 50 ft S.

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

Reference No. _____

Date.	Lat. N.	Long.W.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge
1921	52° 6' 50"	2° 21' 10"	Gl. Malvern	1/2 mi	WNNW	West Malvern	250 yds N

RAINFALL at West Malvern

County of WORCESTERSHIRE

Observer W. Osborne Thorp, Esq., C.E. left 10/40

River Basin Severn, Right Bank trib.

Malvern U.D.C.

Type of Gauge M.O.

Annual Average 28.9 in. based on 11 years obs. unweighted. Period of average 1891-1915 Ref. 3.

769025/27

Diameter	5										
Height	10										
Altitude	932										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	1.45	3.15	2.04	2.61	1.76	3.82	3.19	2.78	5.69	3.92	
February	2.20	1.11	3.45	1.51	2.04	2.64	3.84	1.57	0.87	2.73	
March	1.21	1.84	2.48	2.21	1.76	2.31	2.99	1.15	1.27	1.40	
April	3.35	3.61	1.06	2.09	4.28	2.06	1.89	1.06	2.25	2.64	
May	4.50	7.33	2.25	1.10	1.81	1.74	3.17	1.81	1.08	2.30	
June	4.51	1.37	2.38	1.15	3.40	3.81	1.27	1.10	1.93	.53	
July	3.40	2.26	1.97	1.09	1.48	4.88	2.83	3.31	6.36	3.40	
August	5.09	3.42	0.68	2.30	1.66	3.7	1.56	3.89	2.00	.12	
September	2.27	3.87	2.20	1.98	3.80	3.48	2.15	1.67	0.69	1.04	
October	1.93	3.71	4.09	1.41	3.51	1.65	2.71	2.29	3.44	3.95	
November	4.20	1.77	0.67	1.91	5.54	2.46	1.41	2.41	3.89	5.36	
December	1.20	1.31	0.53	5.09	3.56	2.98	1.83	2.75	1.18	1.54	
TOTALS	33.31	33.75	23.80	23.45	30.60	31.20	27.84	22.79	30.67	28.83	
	D	D	D	D	D	D	D	D	D	D	

1931. House 20 high 50's.

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	Direction
1931.			St. Malvern	3/4 m	E.S.E.	West Malvern	8 m	S.

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

Station No.

2386

RAINFALL at West Malvern

41

County of Worcestershire

Observer

West Malvern M.D.C.

River Basin Severn R. Bank - 1

(AT Hockings Elg.)

Type of Gauge H.D.

Annual Average 28.9 in. based on 11 years obs. un-weighted. Period of average 1881-1916 Ref S

File No. 769025/27

Diameter	5"				446	171				
Height	1' 0"					1				
Altitude	832'					41				
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950
January	4.26	3.08	5.17	2.13	1.67	2.29	1.85	4.55	3.6	.46
February	2.64	.88	1.43	.48	1.74	1.62	1.65	1.08	.55	3.17
March	2.92	2.53	1.31	.47	.68	.87	5.99	.67	.95	1.23
April	.93	.91	1.15	1.34	.88	2.36	2.04	1.82	1.23	1.68
May	2.63	3.33	3.56	.40	2.59	3.33	2.24	2.45	.98	1.99
June	1.66	.11	2.33	1.35	2.98	1.96	1.67	1.94	.28	1.88
July	2.26	1.42	.90	2.22	2.39	1.37	1.79	.39	1.48	2.62
August	3.31	2.35	1.55	2.73	3.35	5.05	1.08	2.00	1.45	3.62
September	1.05	1.44	2.29	2.39	1.97	3.70	1.53	1.19	.93	3.65
October	2.63	2.01	2.18	3.26	3.16	.88	.45	2.20	5.13	.90
November	2.85	1.04	1.63	3.79	.31	3.37	2.02	1.21	1.54	4.64
December	1.24	3.60	1.59	1.56	3.73	1.96	2.30	1.68	1.17	1.70
TOTALS	28.21	22.76	25.09		25.45	28.76	24.61	21.18	16.05	27.84
	D	D	D	22.72	D	D	D	21.18	D	D

1941 House 20' high 50's. 1949 6th wall and overhanging bushes 10 ft. from g. [position]
 1948 low. Letter from observer 6.9.49 saying he is installing a new gauge in a more favourable
 1949 ~~old~~ ^{new} site. New gauge set up in a better site

Position of Station on reduced Ordnance Survey Map, 1 mile to 1 inch Series No. of Map Reference No. 32-764 ASO

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge
1941			West Malvern	1.36 m.	E.S.E	West Malvern	250 yds. S.

Station No. 2386

51

RAINFALL at West Malvern

County of Worcestershire

Observer Malvern U.D.C.

River Basin Severn - Right Bank - 1

(C.A.T. Hocking Esq.)

Type of Gauge M. O.

Annual Average 28.9 in. based on 11 years obs. un-weighted. Period of average 1881-1915 Ref. S

File No. 769025/27

Diameter ...	5'				446	71				
Height ...	11' 0"						1			
Altitude ...	832'						51			
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
										Means
January	2.94	2.30	.36	1.82	3.27	4.09	1.66			
February	3.58	.49	2.02	2.24	1.96	.55	2.77			
March	4.87	2.41	1.09	2.62	2.64	1.25	2.23			
April	2.60	2.37	2.58	.43	1.03	1.96	.20			
May	3.73	3.77	3.11	2.08	5.49	.87	1.91			
June	.76	2.19	2.25	4.27	5.45	1.56	1.73			
July	1.02	.90	3.31	2.58	1.36	3.60	3.60			
August	4.20	5.14	3.97	3.97	1.09	3.37				
September	2.89	1.28	2.50	1.45	1.47	5.52				
October	1.06	5.10	2.33	2.89	1.36	1.20				
November	4.67	4.38	1.48	6.39	3.41	.76				
December	2.95	2.34	1.46	1.62	3.86	3.22				
TOTALS	38.27	32.67	26.46	32.36	32.39	21.94	Incl np.			
	D	D	D	D	D	D				

1951 House 20' high at 50' S.

1958 Stn. T. Observer died.

Position of Station on Ordnance One-Inch map : No. of Map National Grid Reference 32-764459

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Parish Church.	Distance from gauge.
1951			West Malvern	1 1/4 mi. E. 1.6	West Malvern	2.50 N.

Summary of Earlier Records from 10-year Sheets :

Record D, or d		1910-19	1920-30	1931-40	1941-50	1951-60
			C1920	✓	✓ n.p. 43.49	