

RAINFALL AT *Livingston, Brown Hill*

70

Lat. *53° 38' N*

Lon. *2° 33' W*

County of *Lancashire*

Rain Gauge, by

Observer

Liverpool Corporation
(Mr. J. Barry E)

Diameter.												
Height.												
Altitude.						<i>843</i>						
Year	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January.												
February.												
March.												
April.												
May.												
June.												
July.												
August.												
September.												
October.												
November.												
December.												
TOTALS.						<i>38.55</i>	<i>39.50</i>	<i>59.05</i>	<i>42.45</i>	<i>39.85</i>		

RAINFALL AT *Rivington, Brown Hill*Lat. *53° 38' 15" N.*Lon. *2° 32' 45" W.*County of *Lancashire*Ribble *Douglas 2*

Rain Gauge, by

Observer *Liverpool Corporation*
W. J. Barry

Diameter												
Height												
Altitude	<i>843</i>											
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January												
February												
March												
April												
May												
June												
July												
August												
September...												
October.....												
November...												
December...												
TOTALS ...	<i>43.55</i>	<i>47.05</i>	<i>49.59</i>	<i>43.72</i>	<i>34.12</i>	<i>37.80</i>	<i>44.60</i>	<i>26.16</i>	<i>36.02</i>	<i>38.01</i>		

Rejected from Survey: 6" too low.

from Printed Table

RAINFALL AT Rivington, Brown Hill

Lat. 53° 38' 15" N.

Lon. 2° 32' 44" W.

County of Lancashire

Rain Gauge, by

Observer

Liverpool Corporation
(per J. Henry C.E.)

Ribble - Douglas 2

Diameter											
Height											
Altitude	<u>843</u>										
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January											
February											
March											
April											
May											
June											
July											
August											
September....											
October											
November....											
December											
TOTALS	<u>43.37</u>	<u>45.21</u>	<u>39.67</u>	<u>37.67</u>	<u>40.92</u>	<u>35.82</u>	<u>42.52</u>	<u>43.96</u>	<u>36.28</u>	<u>37.00</u>	<u>402.42</u>

Rejected from Survey : 6" too Low

RAINFALL AT

Rivington Brown Hill

Lat.

Lon.

County of *Lancashire South*

Rain Gauge, by

Observer

J. Parry Esq. C.E.

Douglas 2

Diameter ..				8							
Height ...				1 4							
Altitude ..				843							
Year ...	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..											
February ..	5.84	2.51	3.53	2.71	3.47	1.32	5.56	1.45	2.71	2.01	3.111
March	2.90	1.72	1.42	3.17	2.97	1.52	2.97	1.06	3.60	1.59	2.292
April .....	.50	2.84	2.67	3.80	1.75	2.97	2.87	2.84	2.90	2.87	2.601
May	2.21	2.90	2.77	1.55	2.21	2.53	1.82	2.11	4.06	3.86	2.602
June	2.15	1.02	4.13	3.83	1.83	.86	3.93	4.19	3.33	2.61	2.788
July	2.64	2.37	2.11	1.58	2.31	2.16	2.51	7.84	1.86	3.99	2.937
August	2.41	2.28	4.59	4.22	1.58	2.62	2.21	3.56	5.58	6.50	3.555
September ..	5.97	2.94	2.90	6.04	4.57	4.49	4.03	4.75	3.63	4.59	4.391
October	2.87	1.22	2.54	5.35	1.39	2.67	1.81	1.11	5.38	2.89	2.723
November ..	6.11	3.93	4.65	8.48	3.00	4.32	6.47	2.94	2.31	6.07	4.828
December ..	4.65	5.02	2.81	3.93	2.97	5.11	3.23	3.00	2.97	1.78	3.547
TOTALS ..	43.23	32.18	37.12	47.10	31.00	31.40	44.74	38.51	40.57	45.18	38.809

Records previous to 1903 not printed in "B.R."

1900-01-02. Monthly totals recd. 6.28.08. Entered 28.12.09.

Revised from Survey 6.2.00. Sent

4 Inspected

RAINFALL at Livingston Down HillCounty of Central LancashireObserver J. Parry Esq. C.E.River Basin Pibble-Douglas 2J.R. Davidson Esq. C.E. 1915

Rain Gauge, by _____

Diameter ...	8										
Height	1.4										
Altitude ...	843 ft										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	4.19	1.25	3.20	3.59	2.45	5.41	3.18	2.87	2.90	4.62	
February ...	3.66	3.71	1.92	1.31	2.54	5.08	3.37	1.35	4.45	.96	
March .....	.92	1.72	6.20	4.45	4.59	1.75	1.68	2.60	1.84	4.68	
April	3.24	3.27	.76	5.24	1.18	2.24	4.06	2.21	1.15	2.92	
May	3.53	3.20	2.54	3.63	2.17	1.55	3.46	2.01	2.87	1.43	
June	3.63	3.96	6.04	2.87	1.74	2.24	3.86	2.61	2.60	2.87	
July	5.64	.33	5.45	1.74	5.69	4.59	2.97	2.21	4.12	1.81	
August	5.68	4.62	8.28	3.03	3.49	6.00	3.10	7.85	5.06	4.51	
September ..	.66	3.96	2.64	2.31	3.80	.99	3.59	2.37	11.35	2.41	
October ...	3.40	2.64	5.15	2.31	2.94	2.47	7.22	7.82	4.55	3.03	
November ..	6.27	4.09	2.87	4.75	5.18	1.62	2.74	4.75	2.54	3.13	
December ...	4.32	7.82	3.23	2.83	6.20	8.12	3.07	2.01	9.40	6.69	
TOTALS ...	45.14	40.57	48.28	38.06	41.97	42.06	42.30	40.66	52.83	38.76	

+ Inspected

Rejected from Survey :

6" too low

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

RAINFALL at Rivington, Brown HillCounty of LancashireObserver Col. J. R. Davidson C.E.River Basin Ribble-Douglas 2L. of road W.W.Rain Gauge, by over exposed on Moor

Diameter ...	8											
Height	1 ft											
Altitude ...	843											
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	Means 1930	
January ...	3.99	7.02	4.55	4.53	3.36	2.64	4.32	3.93	9.66	7.95	5.84	
February ...	2.90	2.9	4.12	5.80	1.25	6.69	4.22	1.98	4.25	1.19	.33	
March	4.09	2.74	2.57	2.24	1.83	2.13	1.45	5.74	3.32	1.62	2.97	
April	5.77	2.04	2.64	3.63	2.09	2.31	1.54	3.13	1.19	1.22	2.70	
May	6.73	2.93	1.94	3.96	5.35	5.10	3.26	1.58	1.19	3.10	1.82	
June	2.73	.62	3.63	1.52	3.50	.13	2.10	4.91	6.50	1.82	2.87	
July	6.80	1.65	5.18	5.51	5.25	2.81	4.02	4.29	2.81	4.26	6.60	
August	2.83	7.16	5.31	5.54	8.28	4.60	5.02	5.54	6.43	5.18	8.42	
September...	3.49	1.61	5.11	5.04	4.75	4.84	3.82	6.43	1.35	2.28	3.53	
October	1.40	3.17	.82	6.43	5.31	5.16	3.10	4.42	5.90	6.50	6.34	
November...	1.68	3.16	3.79	5.33	2.50	4.34	7.29	5.05	6.17	7.33	6.60	
December...	2.61	5.94	4.95	5.21	5.67	2.39	1.91	1.43	3.14	4.03	5.05	
TOTALS...	45.02	38.33	44.61	54.76	49.15	43.14	42.05	48.48	51.91	43.78	53.07	

15/11/20. Inspected by Mr. Conless. see green file

Revised from Survey6" too short

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

Reference No.

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

RAINFALL at Rivington (Brown Hill)*County of Central LancashireObserver Col. J. R. Davidson, C.E.River Basin Ribble-Douglas-2.Lt. Col. F. Gilbert C.E.

Type of Gauge.....

Annual Average in. based on 5 years obs. un-weighted. Period of average 1881-1915 Ref. 5

660603/26.

Diameter	8.										
Height	1.4			1.6							
Altitude	344 844										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	5.18	4.69	2.64	3.14	2.71	4.22	2.97	4.69	4.55	2.39	
February	4.16	1.3	4.32	.30	5.15	2.44	4.85	1.39	4.39	2.53	
March	.63	3.14	3.23	2.81	1.38	3.04	2.24	1.65	2.05	2.84	
April	3.50	3.07	2.01	3.00	3.50	1.22	3.83	.50	2.84	3.04	
May	2.44	4.82	2.21	3.63	1.45	1.62	2.67	4.52	1.53	1.12	
June	6.54	.86	3.30	2.34	3.63	4.65	2.24	4.87	3.63	1.09	
July	3.90	4.79	2.87	2.24	1.98	3.31	2.21	5.28	7.33	5.91	
August	5.35	1.39	3.43	5.45	1.88	2.87	2.48	3.66	2.41	2.81	
September	5.25	5.97	.86	3.66	7.39	4.42	1.88	2.95	1.62	4.49	
October	2.71	7.92	4.03	5.51	7.39	4.13	2.38	8.53	2.51	4.41	
November	8.41	3.33	2.71	2.90	5.05	6.17	2.48	5.48	6.83	7.18	
December	2.38	1.79	.56	6.50	3.73	4.52	2.01	5.28	2.94	4.38	
TOTALS	50.45	41.90	32.17	41.48	45.24	44.61	32.24	48.80	42.63	42.69	
	W	W	W.	W.	W.	W	W	W	W	W	

* Gauge over exposed on moor (B.R.)

Reflected from survey on 6" too low. Series and 7/19/32.

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 Direction from gauge	Parish Church.	Distance Direction from gauge

RAINFALL at Rivington (Brown Hill No 2)

County of C. Laner Observer Col. J.R. Davidson, C.E.

River Basin 2 - Little Douglas Lt. Col. L. Gilbert C.E.

Type of Gauge MO

Annual Average ins. based on years obs. un-weighted. Period of average Ref 660603/26.

Diameter	5"										
Height	1' 0"										
Altitude	722 727'										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means 1931-40
January	5.28	4.90	2.85	3.35	2.67	3.55	3.23	4.93	5.64	2.55	41.00
February	4.35	1.8	4.91	2.8	5.38	4.10	5.80	1.50	4.65	2.47	33.62
March	1.85	3.10	2.58	3.06	1.17	2.90	2.65	1.66	2.21	2.97	24.15
April	3.44	3.10	1.96	3.08	3.58	1.33	3.73	4.43	3.01	2.95	26.66
May	2.43	4.93	2.08	3.58	1.58	1.24	2.30	4.60	1.60	1.17	26.01
June	6.51	1.85	3.16	2.32	3.60	4.65	2.23	4.83	3.70	1.07	33.02
July	3.90	5.33	2.83	2.28	2.08	5.10	2.37	5.15	7.40	6.02	42.46
August	6.40	1.43	3.33	5.38	1.80	2.73	2.43	3.61	2.40	2.74	31.35
September	5.41	6.13	1.85	3.66	7.58	4.65	1.91	3.03	1.56	4.37	39.15
October	2.83	8.18	4.10	5.70	7.89	3.96	2.49	3.72	2.70	4.96	51.53
November	8.57	3.50	2.88	2.88	5.30	6.35	2.73	5.79	4.98	7.54	52.57
December	2.45	2.03	1.73	6.95	3.65	4.60	2.93	5.67	3.19	5.15	37.95
TOTALS	52.42	43.66	32.26	42.52	46.28	47.21	35.50	50.02	45.04	43.96	438.87
	W	W	W.	W	W.	W	W	W	W	W	

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. T.L. 2998RAINFALL at Rivington (Brown Hill) N^o 1

41

County of Central Lancashire

Observer

Lt Col. F. Herbert C.E.River Basin Ribble - Douglas - 2Liverpool & Mersey

Type of Gauge

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

File No. 66060/26 E3285/45

Diameter	8"											
Height	1' 6"											
Altitude	844'											
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	
January	1.88	4.73	5.25									
February	6.20	2.13	2.54									
March	3.09	3.30	1.32									
April	2.31	1.85	2.85									
May	2.67	4.03	3.51									
June	.53	.92										
July	2.44	5.02										
August	6.67	5.61										
September	1.35	3.33										
October	4.87	6.93										
November	3.04	1.03										
December	2.57	4.46										
TOTALS	37.62	43.40										
	W	W										

[Note - 1931-40 both that gauge over-exposed on moor.]

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. T.F. 2998/1RAINFALL at Rivington (Brown Hill) No. 1

41

County of Central LancashireObserver Lt Col. F. H. Lambert, R.E.River Basin Ribble Douglas-2Lancashire Co. No. 1110.Type of Gauge M.O.

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

File No. 60902/26 F3285/45

Diameter	5"			570	587							
Height	1'0"				1							
Altitude	727				41							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means- Total	
January	2.01	4.86	5.35	5.35	(4.04)	4.59	4.32	10.15	2.98	3.66	47.31	
February	5.60	2.19	2.55	2.01	4.62	5.90	(2.00)	2.26	2.54	5.28	34.95	
March	3.14	3.40	1.20	.86	1.62	1.10	8.26	1.76	2.88	2.37	26.62	
April	2.28	1.92	2.70	2.51	2.62	1.33	3.78	2.18	3.92	3.00	26.24	
May	2.56	4.04	3.50	3.41	3.71	1.86	3.14	2.58	3.88	1.92	30.60	
June	.85	.95	3.93	3.53	4.24	3.71	2.83	5.73	1.42	2.93	29.82	
July	2.45	4.95	3.40	4.65	3.02	4.12	3.47	3.09	3.19	4.69	37.03	
August	6.60	5.56	7.00	3.59	2.84	8.70	.28	5.71	2.69	7.65	50.62	
September	1.34	3.42	5.30	6.72	2.44	7.62	3.94	3.51	2.20	7.85	44.34	
October	5.15	6.85	4.30	5.71	6.12	1.74	.90	3.25	5.04	3.76	42.82	
November	3.02	1.17	4.05	7.62	.60	6.80	4.58	2.58	5.88	7.08	43.38	
December	2.48	4.50	2.66	4.42	3.34	5.07	3.97	4.28	5.57	4.00	40.59	
TOTALS	37.51	43.81	45.94	50.38	39.21	52.54	41.47	47.02	42.19	54.19	454.32	
	W	W	W	W	W	W	W	W	W	W		

1947 Feb. used for mean

40004

20004

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. 2998/1 ³⁸RAINFALL at Rivington (Brown Hill) 51County of Central LancashireObserver Liverpool Corpn. W. W.River Basin Little Douglas - 2Type of Gauge M.O.Annual Average in. based on years obs. un-weighted. Period of average Ref. 8" " 46.44 " " 26 " " within 1931-57. " " 1946-50File No. 532/45

Diameter ...	5"			570	587							
Height ...	1' 0"				1				1' 4"			
Altitude ...	727'				51							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	Total
January ...	4.23	4.02	2.35	4.32	2.50	6.05	3.12	4.37	(3.25)	6.67	40.88	
February ...	3.68	1.65	1.57	3.62	2.45	.95	3.80	(8.05)	.68	3.71	30.16	
March ...	5.47	2.70	1.55	3.00	3.20	2.10	3.70	2.12	2.12	1.87	27.83	
April ...	2.69	3.69	3.67	1.05	2.82	(3.10)	.80	1.70	3.15	2.65	25.32	
May ...	3.09	2.35	2.65	3.40	4.10	1.61	2.30	4.86	1.62	2.81	28.79	
June ...	1.67	4.10	2.95	4.75	4.00	2.92	2.53	4.88	2.51	1.40	31.71	
July ...	3.38	3.45	5.00	7.40	1.03	7.35	6.75	4.56	4.93	8.14	51.99	
August ...	4.93	4.22	4.93	6.85	1.88	12.95	7.25	5.67	.70	5.91	55.29	
September ...	3.31	5.42	4.20	5.40	5.15	4.45	7.34	5.91	.43	3.72	45.33	
October ...	.66	5.10	2.55	8.73	2.45	3.33	6.57	4.95	4.60	4.97	43.91	
November ...	9.56	2.80	5.65	7.90	3.20	1.65	2.17	2.26	5.99	7.79	48.97	
December ...	8.20	4.00	1.72	5.80	5.95	4.75	5.28	5.03	9.08	4.63	54.44	
TOTALS ...	50.87	43.60	32.79	62.22	38.73	51.21	51.61	54.36	39.06	54.27	484.62	

1956 April first 1st 1903
 Just in first 1st 1903. Site on surface most directions. Total well rec. Read weekly
 one 1st month.

Position of Station on Ordnance One-Inch map :

No. of Map 101National Grid Reference 59(34) 635.15 7

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

Summary of Earlier Records from 10-year Sheets :

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