

RAINFALL AT Lower Rivington

Lat. $53^{\circ} 36' 30''$ Lon. $2^{\circ} 33' 26.6''$ County of Lancashire

Ribble - Douglas 2.

Rain Gauge, by

Observer five feet separation
(Mr) G. Bury C.E.

Diameter	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEAN.
Height											
Altitude								4110			
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	
January											
February											
March											
April											
May											
June											
July											
August											
September											
October											
November											
December											
TOTALS								43.34 214.29 ✓ 214.22 356.5			

from Printed Table

RAINFALL AT Lower Liverpool

Lat. $53^{\circ} 26' 30'' N.$

Long. $2^{\circ} 33' 26'' W.$ County of Lancashire

Ribble-Douglas 2

Rain Gauge, by

Observer Liverpool Corporation

(Act of Parliament)

Diameter	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January											
February											
March											
April											
May											
June											
July											
August											
September											
October											
November											
December											
TOTALS . . .	39.24	40.87	39.32	35.40	40.48	34.26	41.08	40.71	34.71	38.11	38.418

RAINFALL AT Horwich Iowa Riverton
 Lat. Lon. Central County of Lancashire South
 Rain Gauge, by Observer J. Parry Eng C.E.

Douglas 2

Diameter ..			5					8			
Height ..			1 0								
Altitude ..			440								
Year ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	5.29	2.43	3.30	2.78	3.59	1.42	6.17	1.67	3.11	1.93	31.69
February ..	3.17	1.90	1.78	3.49	4.67	1.68	3.53	1.64	3.46	1.31	2.663
March ..	.75	3.00	2.58	4.10	2.22	3.37	2.95	3.09	3.35	3.04	2.845
April ..	2.05	2.77	2.55	1.57	2.15	2.69	1.89	1.69	2.23	3.20	2.279
May ..	1.95	1.02	3.89	3.77	1.86	.91	3.71	4.01	3.78	3.03	2.793
June ..	2.46	2.15	1.98	2.13	2.54	2.15	2.73	7.94	1.76	3.96	2.980
July ..	1.94	1.91	4.06	3.69	1.25	2.46	1.79	4.10	4.97	6.13	3.233
August ..	6.09	3.06	2.35	5.75	4.31	4.48	4.06	4.80	4.11	3.63	4.264
September ..	2.60	1.07	2.36	5.05	1.53	2.44	1.74	1.23	5.14	2.69	2.585
October ..	6.25	3.54	4.52	8.60	3.22	4.68	6.81	2.91	2.36	5.67	4.806
November ..	4.44	4.36	2.20	4.61	2.86	4.11	3.04	3.63	2.89	1.72	3.386
December ..	5.09	3.93	3.12	2.26	3.39	1.23	5.16	4.43	2.61	6.73	3.795
TOTALS ..	42.08	31.44	31.69	47.80	33.62	31.62	43.08	41.14	39.77	43.04	38.798

Hug

Records previous to 1903 not printed in "B.R."
 1900-1902. Monthly totals recd. XII. 08. Entered IX. 09.
 1909 Corrected for wrong day.

+ Inspected

RAINFALL at Horwich Lower Rivington

County of Central Lancashire

Observer

J. Garry by cl.

River Basin Ribble-Douglas 2

J. R. Davidson by cl. 1915

Rain Gauge, by

Diameter ...	8													
Height	1	0												
Altitude ...	440													
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.			
January ...	4.43	1.07	3.36	3.76	2.63	5.11	2.83	2.74	2.95	4.91				
February ...	3.39	3.62	1.71	1.27	2.35	4.24	3.53	1.32	4.03	1.21				
March83	1.38	5.97	4.31	4.44	1.71	2.00	2.51	1.76	7.03				
April	2.97	3.23	.58	5.01	1.20	1.90	3.70	2.16	.93	2.51				
May	3.19	1.92	2.30	3.44	2.15	1.45	2.33	2.01	2.56	1.50				
June	3.35	3.39	4.87	2.59	1.64	2.17	3.74	2.39	2.30	2.53				
July	5.57	.21	4.74	1.78	5.87	4.21	2.90	2.31	4.00	1.74				
August	5.14	4.14	8.76	3.27	3.13	4.65	4.56	7.66	4.65	4.32				
September ..	.50	4.09	2.45	2.06	3.99	.91	2.91	2.31	11.68	1.99				
October ...	2.98	2.72	5.16	2.28	2.77	2.30	7.01	7.92	4.72	2.92				
November ...	6.60	3.79	2.19	4.36	5.28	1.77	2.52	4.54	2.99	2.90				
December ...	3.62	7.04	3.44	2.55	6.06	8.51	2.89	2.30	8.93	6.25				
TOTALS ...	42.57	36.60	46.53	36.68	41.54	38.93	40.90	40.17	81.50	39.81				

 Totals
 167.9
 134.3
 133.0
 91.30
 81.40
 12.93
 22.57
 17.238
 17.238

+ Inspected

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

RAINFALL at Horwich Lower Rishton

County of Lancashire

Observer Col. J. R. Davidson G.E.

River Basin Ribble-Douglas 2

Water Area Liverpool 600

(1929) Horwich Rain Gauge, by

As 1891-1915 38.7

Diameter ...	8									5"	
Height	1.0										
Altitude ...	440										
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEAN 1930
January ...	3.89	5.82	4.63	3.59	3.50	2.55	6.07	4.81	9.58	2.47	5.02
February ...	3.16	2.22	4.08	6.53	1.15	6.68	3.83	1.99	3.16	1.25	2.23
March	4.08	2.79	3.12	2.09	1.85	1.98	1.19	5.66	2.60	1.50	2.85
April	5.26	1.58	2.34	3.93	2.05	2.11	1.37	2.25	1.01	1.06	2.67
May	6.56	2.58	2.03	3.39	5.03	4.61	4.16	1.27	1.41	2.85	1.34
June	2.90	1.58	3.05	1.24	3.02	1.11	2.18	4.86	6.14	1.62	1.86
July	6.94	1.43	4.84	5.13	5.41	2.94	3.71	4.29	2.81	3.71	4.97
August	3.97	6.19	3.03	5.54	8.15	4.22	4.22	5.12	5.96	4.81	7.16
September...	3.44	1.38	6.54	4.31	4.38	4.75	4.27	6.97	1.02	2.35	2.84
October....	1.31	3.02	1.84	6.00	5.03	4.72	3.73	4.28	5.51	5.93	5.09
November...	1.95	3.12	3.73	5.16	2.62	5.09	6.91	4.73	6.04	6.59	5.88
December...	3.00	5.22	5.93	5.67	6.20	2.87	1.75	1.63	3.26	4.66	4.40
TOTALS...	46.46	33.93	46.16	52.38	48.41	42.63	43.39	47.86	50.39	38.60	44.31
	D	D	D	D	P	D	D	D	V	D	D

18/IX/28 Inspected by Mr. Coker see green file.

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
1920	53° 36' 30"	2° 38' 26"						

RAINFALL at Horwich (Lower Rivington)

County of Central Lancashire

Observer Col. J. R. Davidson, C.E.

River Basin Ribble-Douglas - 2

Lt. Col. F. Hibbert C.E.

Type of Gauge

Annual Average 32.7 in. based on 30 years obs. un-weighted. Period of average 1881-1915 Ref. S

660603/26.

Diameter	5.											
Height	1.0.											
Altitude	440.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January	4.34	3.90	2.14	3.14	2.07	4.24	2.82	4.17	5.27	2.71		Totals 34.80
February	3.76	1.0	3.42	2.28	4.35	2.86	5.45	1.33	3.00	2.45		27.00
March	1.38	2.55	2.72	2.87	1.26	2.62	1.86	1.28	1.59	2.64		19.77
April	2.52	2.57	1.79	2.09	2.77	1.19	3.34	3.16	2.65	2.69		22.27
May	2.09	4.43	1.82	3.19	1.40	1.15	2.62	4.28	1.11	1.40		23.49
June	5.51	1.84	3.15	2.25	3.67	4.60	1.97	4.17	3.02	1.03		30.21
July	3.13	4.82	2.52	2.01	1.68	4.75	2.32	4.13	6.30	6.20		37.86
August	4.88	1.43	2.12	3.91	1.91	2.56	2.64	3.21	1.59	2.21		26.46
September	4.64	4.89	1.70	3.36	6.68	4.01	1.54	2.70	1.86	3.69		32.87
October	2.70	6.57	4.09	5.70	7.13	3.79	2.01	8.32	2.35	4.33		46.99
November	7.97	2.91	2.33	2.23	4.87	5.32	1.86	5.10	4.71	6.78		44.13
December	1.70	1.69	.66	5.52	3.58	4.43	2.57	5.00	2.28	3.97		31.40
TOTALS	43.42	36.70	27.46	36.85	41.37	41.54	30.89	44.15	34.79	40.10		377.27
	D.		47.66									

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

Station No. T.F. 2996

RAINFALL at Horwich (Lower Rishton)

41

County of Central Lancashire Observer L.C. Col. F. Hibbert G.E. Since 12. VIII. 51

River Basin Ribble - Douglas & Liverpool Canal W.D.

Type of Gauge.

Annual Average 38.7 in. based on 30 years obs. unweighted. Period of average 1881-1915 Ref. S.

File No. 660663/26 F3285/45

Diameter	5"		569	708							
Height	10"				1						
Altitude	440'				41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.91	4.28	4.82	4.61	2.94	4.47	(4.02)	8.16	2.33	3.04	Totals 40.53
February	4.18	(1.91)	2.16	1.72	4.48	5.08	1.42	2.12	2.03	5.26	38.36
March	2.75	2.99	1.15	.65	1.32	.83	(1.04)	1.49	2.38	2.13	22.73
April	1.74	1.58	1.88	2.28	2.26	1.07	3.22	1.68	3.31	2.93	21.95
May	2.11	3.99	2.95	2.89	3.66	1.63	3.03	2.45	3.55	2.07	28.33
June	.36	73	3.51	2.63	4.14	3.26	2.21	5.54	1.04	2.83	26.27
July	2.69	4.06	3.58	4.13	3.26	4.00	2.76	2.83	3.08	4.54	34.93
August	5.41	5.41	6.73	3.33	2.54	7.07	2.71	2.73	3.50	6.93	46.22
September	1.04	2.49	4.86	5.75	2.18	6.72	3.28	2.94	1.87	7.79	38.92
October	4.25	5.88	3.89	5.42	5.22	1.50	.74	2.90	4.24	3.48	37.52
November	2.53	.93	3.51	6.64	.33	5.59	3.99	2.36	5.64	6.58	32.10
December	1.99	4.31	2.25	3.54	2.88	5.88	3.03	3.89	5.36	3.65	34.78
TOTALS	31.28	38.56	41.29	43.59	35.21	45.10	(35.01)	41.09	38.33	51.23	400.69 40.69

1942. Feb. part dried.

1947 New H.O. gauge installed April 19".

1947. Jan 9 mm. com. for approx. heat.

1948. corrected by F. 1090, 28/4/56. -9.6%

50004

20004

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

BRITISH RAINFALL ORGANIZATION

Station No. 2996/1

RAINFALL at Horwich (Lower Rivington) new gauge

41

County of Central Lancashire

Observer Lt Col F. Hibbert C.E. since 12. III. 51

River Basin Ribble - Douglas - 2

Liverpool Gauge W.W.

Type of Gauge

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

File No. E3285/45

Diameter	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
Height											
Altitude											
January											3.12
February											5.29
March											2.15
April											2.97
May											2.07
June											2.85
July											4.55
August											6.98
September											7.84
October											3.49
November											4.61
December											5.50
TOTALS											51.60 N.P.M.C. N.P. ob

210 yards North of Station 2996 in position having slight shelter.

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.

Station No. 2996 78

51

RAINFALL at Horwich (Lower Rivington)

County of Central Lancashire

Observer Liverpool Corp. W.W.

River Basin Ribble-Douglas - 2

M.O.

Type of Gauge.

Annual Average 38.7 in. based on 30 years obs. un-weighted. Period of average 1916-1950 Ref. S
 41.29 " " 35 " " 1916-1950 1916-1950 P
 File No. E23261/58

Diameter ...	5"		569	708							
Height ...	10"				1					9"	
Altitude ...	440'				51						
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means 1950-60
January ...	4.18	4.04	2.24	3.82	2.86	5.89	2.92	3.57	3.16	6.48	39.16
February ...	3.29	1.38	1.52	3.68	2.40	72	3.01	6.87	.56	3.17	26.70
March ...	5.03	2.37	1.84	2.91	1.48	1.76	3.53	1.89	2.04	1.86	24.71
April ...	2.25	3.98	3.58	1.13	2.54	3.65	.82	1.47	2.91	2.56	24.89
May ...	3.03	2.39	2.61	2.97	3.74	1.42	2.31	4.41	2.29	2.65	27.82
June ...	1.76	4.03	2.75	4.29	3.53	2.50	1.97	4.71	2.45	1.31	29.30
July ...	3.20	2.84	5.35	6.32	1.04	5.77	6.46	4.07	4.69	8.69	48.43
August ...	5.12	4.38	5.03	6.55	1.45	12.00	6.30	4.84	.61	5.97	52.25
September ...	3.47	4.48	4.73	5.20	4.92	3.77	6.87	5.55	.36	4.03	43.38
October ...	76	4.94	2.11	8.46	2.15	3.52	5.54	4.14	4.59	4.41	40.62
November ...	8.95	3.01	5.29	6.96	2.66	1.55	1.99	2.00	5.55	7.03	44.99
December ...	8.33	4.27	1.77	5.95	5.09	4.04	4.48	4.21	7.87	4.70	50.71
TOTALS ...	49.47	42.11	38.82	53.24	33.86	46.59	46.20	47.73	37.08	52.86	452.96

July 1959 B.O.K. A. record. Site over-sloped NW-S. Turf well rec.

Position of Station on Ordnance One-Inch map :

No. of Map 101

National Grid Reference SD(34) 638.126

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

Summary of Earlier Records from 10-year Sheets :

1916-1950, P - accepted

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

Station No. 29961 T.F.

51

RAINFALL at Starwicks (Lower Rivington) new gauge
 County of Central Lancashire Observer Liverpool Seaport M.W.
 River Basin Ribble-Douglas-2

Type of Gauge.....

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

File No. F3285/45

Diameter	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
Height											
Altitude											
January	4.22										
February	3.42										
March	5.05										
April	2.25										
May	3.03										
June	1.78										
July	3.22										
August	5.14										
September	3.48										
October	.76										
November	9.00										
December	8.35										
TOTALS	49.70	#									

1951 Gauge removed at end of year w/p check.

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

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

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
				Camp 9491 p 50 d 50	