

RAINFALL at Wigan & R. Billinge Higher End

County of Central Lancashire Observer R. B. Donald Esq.

River Basin Piddle-Douglas 2

Rain Gauge, by

Diameter ...									12	
Height									3.9	3.6
Altitude ...									3.75	
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919
										MEANS.
January ...									2.46	2.94
February ...									3.07	3.6
March									1.69	5.41
April									76	1.83
May									2.88	1.39
June.....									1.87	1.82
July									4.09	2.40
August.....									2.99	4.25
September...									9.88	2.39
October ...									3.40	2.19
November..									2.02	2.24
December...									7.18	6.39
TOTALS ...									42.29	34.21

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
			Orwell	3/4 Mile		Methodist	1/4 Mile	

RAINFALL at Wigan W. W. Billinge Higher End

County of Lancashire Observer P. B. Donald Esq. C.E.

River Basin Ribble-Douglas 2 Eas. & Water Empf. Wigan

Glacier Rain Gauge, by W.F. Gardner C.E. (1923)
(1929) in. O.

Diameter ...	12									5	
Height	3.6									1.0.	
Altitude ...	374										
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	MEANS. 1929	
January	3.92	5.28	3.21	2.38	3.02	1.98	3.75	3.69	8.99	2.01	5.94
February	3.06	5.5	3.02	4.58	7.6	4.71	3.12	1.44	3.90	1.15	2.9
March	3.72	2.57	1.69	1.55	1.25	1.09	1.22	4.12	2.17	1.15	3.42
April	5.51	1.41	2.25	3.04	1.76	1.58	1.04	1.61	.96	.95	2.86
May	6.07	2.41	1.29	2.93	4.67	3.70	4.46	1.02	1.07	2.44	2.24
June	3.17	.31	2.52	1.65	2.44	.02	1.57	4.68	5.38	1.71	2.01
July	7.23	1.39	4.80	3.88	4.45	2.69	3.51	3.27	2.16	4.07	5.15
August	2.78	5.01	3.44	3.84	6.99	3.27	4.60	6.14	4.77	4.61	6.90
September	4.06	1.23	3.93	3.78	4.11	4.08	4.34	6.04	1.33	2.30	3.59
October	1.23	3.10	2.5	4.47	4.39	3.91	3.62	3.38	4.44	5.41	5.70
November	1.53	2.86	2.86	4.39	1.76	2.95	5.45	5.10	6.83	6.88	5.98
December	2.84	4.76	4.83	4.95	4.12	2.43	1.74	1.43	2.90	4.01	4.52
TOTALS...	45.12	30.88	33.79	40.44	39.72	32.40	38.42	41.92	44.90	39.99	48.60
	D	D	D	D	D	D	D	D	D	D	D

1925. House 30 ft. high, 50 ft. S.

18/11/28 Inspected by Mr. Collier see green file

New Gauge. A comparison with old gauge at 3 ft. 6 in. during 1923 shows that continuity is unaffected
by changeover. Enclosure 27A file 913593/27.

1929. House 30 ft. 50 ft. E.

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

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge
1927.			Orwell	1/4 mi		Methodist	1/4 mi
1929.			Orrell	1/2 mi.	E.	St. James, Orrell	1/4 mi. E.

RAINFALL at Wigan W.W. (Billinge Higher End)

County of Central Lancashire

Observer W.F. Gardner, Esq., C.E.

River Basin Ribble - Douglas - 2

The Borough Engineer

Type of Gauge M.O.

375

Final 103A

Annual Average 30.5 in. based on 25 years obs. un-weighted.

Period of average 1881-1915

Ref

file

overage using lower Rivington & Leigh S.W.

813598/27

Diameter	5.										
Height	1.0.										
Altitude	374.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	4.20	4.27	2.09	2.85	2.06	4.97	2.72	4.15	5.49	2.11	
February	3.56	1.04	3.68	2.9	3.72	2.26	4.87	1.12	3.47	2.66	
March	1.40	2.54	2.34	1.91	1.42	2.19	1.63	1.92	2.04	2.80	
April	2.98	2.92	1.24	2.33	3.09	1.57	3.34	1.43	2.20	2.34	
May	2.17	5.08	1.81	2.84	1.65	1.80	2.52	1.53	1.56	2.17	
June	5.22	1.41	2.45	2.16	3.01	3.17	1.77	3.48	3.92	1.76	
July	3.34	5.27	2.04	1.89	1.98	4.12	1.89	3.77	5.94	3.43	
August	6.03	1.05	1.69	3.88	1.99	2.51	3.10	3.67	3.75	1.60	
September	3.88	4.14	1.17	2.84	6.53	5.38	2.01	1.96	1.95	3.75	
October	2.30	8.76	4.26	5.21	6.99	3.44	2.62	8.51	1.96	4.50	
November	6.62	3.40	1.82	2.20	5.09	5.28	2.12	4.75	6.01	6.92	
December	1.82	1.78	1.57	5.82	3.56	4.55	2.51	4.83	4.69	3.56	
TOTALS	42.52	39.66	25.16	33.22	41.08	40.24	31.10	42.12	41.95	36.60	
D.	D.	D.	D.	D.	D.	D.	D.	D.	D.	D.	

House 80' high 150' E.

Average not to be used. New gauge in 1939 gave increased rainfall. See file 1711

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
1931			Orrell	1/2 m. N.E.		St. James	1/2 m. N.

Station No. T.F. 2993

RAINFALL at Wigan W.W. (Billinge Highgate End)

41

County of Central Lancashire

Observer The Borough Engineer

River Basin Ribble - Douglas - 2

Type of Gauge m.o.

Annual Average 375 in. based on 9 years obs. unweighted. Period of average 1881-1915

Ref. End. 103 P. on

file.

File No. 812593/27

Diameter	5"		570	101							
Height	1' 0"				1						
Altitude	374'				41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.72	3.65	4.84	5.01	2.43	4.90	2.87	7.16	2.75	1.97	
February	3.43	1.69	2.31	1.65	3.76	5.50	.69	2.08	1.62	4.80	
March	2.75	2.88	1.02	.88	1.34	7.8	4.68	1.13	1.76	1.55	
April	1.66	1.76	1.83	2.73	2.07	.99	3.19	1.56	2.84	3.02	
May	2.19	3.53	2.67	2.10	4.16	2.00	3.04	1.43	3.23	1.28	
June	.35	.47	3.28	2.18	3.87	3.83	2.04	4.13	.92	2.39	
July	1.63	3.87	3.09	3.54	4.18	4.02	3.11	2.21	2.74	3.09	
August	5.15	4.51	5.31	4.28	2.43	6.73	.17	5.53	2.97	8.85	
September	1.08	3.64	4.71	4.87	2.42	6.30	2.71	2.29	1.48	6.36	
October	4.66	5.29	4.27	4.47	5.62	.84	.65	3.27	4.23	2.88	
November	2.62	1.16	3.14	6.95	.44	5.25	4.17	2.32	5.54	5.39	
December	1.50	3.37	1.80	3.33	3.14	3.67	3.47	3.47	5.51	4.09	
TOTALS	29.03	36.42	38.27	41.99	35.36	44.81	30.79	36.58	36.59	45.67	
	D	D	D	D	D	D	D	D	D	D	W.M. up chsh

1941 House 30' high 150' E.

Average not to be used new gauge in 1929 gave increased catch see file 4735.

Position of Station on reduced Ordnance Survey Map, 1 mile to 1 inch Series No. of Map 57523029
(34)

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge	Direction
1941			Orrill.	1/2 m.	N.E.	St. James.	1/4 m.	N.

Station No. 2993/1

RAINFALL at Wigan W.W (Billinge Higher End) new gauge 41

County of Central Lancashire Observer The Borough Engineer

River Basin Little - Douglas

Type of Gauge M.O.

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

Ref.

File No. 813593/27

Diameter			570	1150				5		
Height					1				1.0	
Altitude					41				314	
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950 Means
January									2.40	2.00
February									1.67	4.82
March									2.86	1.54
April									2.89	3.02
May									3.23	1.33
June									.92	2.49
July									2.44	3.18
August									3.02	8.90
September									1.50	6.57
October									4.29	2.97
November									5.34	5.52
December									5.32	4.31
TOTALS									36.91	46.65

New M.O. gauge set up 3 feet from old gauge (station no 2993) on 4-1-49

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

Station No. 2993

51

RAINFALL at Wigan W.W. (Billinge Higher End)

County of Central Lancashire Observer The Borough Engineer
River Basin Ribble - Douglas 2

Type of Gauge M.C.

Annual Average 375 in. based on years obs. unweighted. Period of average 1881 - 1915 Ref. Enclosure 105A on file

File No. 813 593/27

Diameter ...	5"		570	101							
Height ...	1' 0"				1						
Altitude ...	374'				51						
Year ...	1951/	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	3.37										
February ...	2.45										
March ...	4.79										
April ...	1.71										
May ...	3.60										
June ...	1.09										
July ...	2.55										
August ...	4.99										
September ...	3.53										
October ...	1.08										
November ...	8.91										
December ...	7.30										
TOTALS ...	45.37										
	<i>m.f.</i>										

1951 N.P. check.

Average not to be used new gauge in 1959 gave increased catch see file 1/7/35

Position of Station on Ordnance One-Inch map : No. of Map National Grid Reference SD 325 02900

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
		1918	✓	✓	✓	

Station No. 2993/1 T.E. 40

RAINFALL at Wigan W.W. (Billinge Highfield) new gauge.

County of Central Lancashire.

Observer The Borough Engineer.

River Basin. Ribble-Douglas-2.

Type of Gauge..... M.O.

Annual Average 37.5 in. based on 168 years obs. wt-weighted. Period of average 168.1 - 1915. Ref. Encl. 103 A. 39.89 " " 9 " " 1949-57. " " " 1916-50. File No. 81359327. File

Diameter	5"		570	100						
Height	1' 0"				1					
Altitude	374'				51					
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
										Means
January	3.49	4.29	2.03	3.17	2.56	5.50	2.26	3.08	3.26	5.42
February	2.56	1.34	1.38	3.09	2.47	1.60	2.99	6.60	4.48	2.40
March	4.83	2.09	1.50	2.60	2.08	1.17	3.11	1.98	1.68	1.89
April	1.75	4.24	2.80	.89	2.19	2.49	.65	1.10	3.09	2.16
May	3.65	2.22	2.44	2.63	3.26	1.30	1.76	4.03	2.06	2.80
June	1.17	3.44	2.05	3.18	3.77	2.30	1.67	5.41	2.63	1.94
July	2.59	2.30	4.10	5.55	.99	5.78	5.71	4.48	3.67	6.90
August	5.08	3.56	4.09	5.00	1.52	12.29	5.06	3.52	3.36	4.56
September	3.55	3.70	4.31	4.32	4.52	3.52	6.86	4.64	.27	3.62
October	1.10	4.85	2.32	7.24	2.55	2.82	5.22	3.82	3.90	4.46
November	9.00	2.39	4.20	6.65	2.17	1.98	1.53	1.89	8.92	6.52
December	7.34	3.55	1.47	4.69	5.56	2.94	4.11	4.19	7.07	4.50
TOTALS	46.11	37.97	32.69	48.91	38.64	42.69	40.93	44.74	34.39	47.17

1954 Penn. House 11' @ 62° N.

1954. Letter of 12-2-58 amends distances from church & Registry. incl 1462 on file.

Position of Station on Ordnance One-Inch map :			No. of Map.....	National Grid Reference				
Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction gauge	Parish Church.	Distance from gauge.	Direction
1954			Onnell	46	NNE	St James Stk	57	N

Summary of Earlier Records from 10-year Sheds:

Summary of Earlier Records from 10-year Sheets:					
Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
				1949 ✓	