

RAINFALL at Higan & H. Billinge Higher EndCounty of Central Lancashire Observer R. B. Donald EsqRiver Basin Pulle-Douglas 2

Rain Gauge, by _____

Diameter ...										12		
Height										3.9	3	6
Altitude ...										375		
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	
January ...									2.46	2.94		
February ...									3.07	.96		
March									1.69	5.41		
April76	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.
			<u>Orwell</u>	<u>3 1/4 Mile</u>		<u>Methodist</u>	<u>1/4 Mile</u>	

RAINFALL at *Megans R. W. Billinge Higher End*County of *C Lancashire*Observer *R. B. Donald Esq. C.E.*River Basin *Ribble - Douglas 2*Bore & Water Surf: *Wigan**Glasgow* Rain Gauge, by
(126)
(1929) *M. O.**W. F. Gardner C.E. (1928)*

Diameter ...	12									5	
Height	3-6									1-0	
Altitude ...	374										
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS. 1930
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	.55	3.02	4.52	.76	4.71	3.12	1.44	3.90	1.15	.29
March	3.72	2.57	1.69	1.55	1.25	1.03	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	.65	2.44	.02	1.57	4.68	5.38	1.71	2.01
July	7.23	1.39	4.50	3.83	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	.25	4.47	4.39	3.91	3.62	3.38	4.44	5.71	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.

12/11/28 Inspected by Mr. Carlson 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 213593/27.

1929. House 30 ft. 150 ft. E.

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
1927 4/29			Orwell	1/4 mi		Methodist	1/4 mi	
			Orwell	1/2 m.	E. N.E.	St. James, Orwell	1/4 m. 1/2 m.	E.

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

County of Central LancashireObserver W. F. Gardner Esq. C.E.River Basin Ribble - Douglas - 2The Borough EngineerType of Gauge MO.37.5Annual Average 28.5 in. based on 2 years obs. un-weighted. Period of average 1881-1915Ref 103Afilemidday using lower Rington & 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	2.05	4.97	2.72	4.15	5.49	5.11	
February	3.56	1.04	3.68	2.9	3.72	2.26	4.87	1.12	3.47	2.66	
March	4.0	2.57	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	4.53	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	1.39	1.98	4.12	1.89	3.77	5.94	3.43	
August	6.03	1.05	1.69	3.38	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	5.56	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	41.98	36.60	
	D.	D.	D.	D.	D.	D.	D.	D.	D.	D.	

House 30' high 150' E.

Average not to be used. New gauge in 1914 gave increased catch. see spec. 1/17

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
1931			Orrell	1/2 m.	N.E.	St James	1/4 m.	N.

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

Station No. T.F. 2993RAINFALL at Wigan W.W. (Billinge Higher End)

41

County of Central Lancashire Observer The Borough EngineerRiver Basin Ribble-Douglas-2Type of Gauge m.o.Annual Average 37.5 in. based on 9 years obs. un-weighted. Period of average 1881-1915 Ref. Loc. 1030 on file.File No. 813593/27

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	3.73	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	.78	4.63	1.13	2.76	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	3.37	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	4.65	5.23	4.27	4.47	5.62	.84	.65	3.27	4.23	2.88	
November	2.62	1.16	3.14	6.35	.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 D	36.42 D	38.27 D	41.39 D	35.36 D	44.81 D	30.79 D	36.58 D	36.59 D	45.67 D	

1941 House 30' higher 150'E.

Average not to be used new gauge in 1929 gave increased catch see file 47/35.

Position of Station on reduced Ordnance Survey Map,
1 mile to 1 inch Series

No. of Map.....

Reference No. 57523029
(34)

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

Station No.

TF 2993/1

RAINFALL at *Wigan W.W. (Billinge Higher End)* New gauge 41County of *Genral Lancashire* Observer *The Borough Engineer*River Basin *P-Little-Houglas*Type of Gauge *M.O.*

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

File No. *813593/27*

Diameter				570	100				5		
Height					1				1-0		
Altitude					41				374		
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January								#	2.40	2.00	
February									1.64	4.82	
March									2.86	1.54	
April									2.89	3.02	
May									3.23	1.33	
June									.92	2.49	
July									2.77	3.18	
August									3.02	8.90	
September									1.50	6.57	
October									4.29	2.97	
November									5.54	5.52	
December									5.52	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,
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.

2975

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

51

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 *37* years obs. ~~un~~-weighted. Period of average *1881-1915* Ref. *Encl 103A on File*File No. *813.543/27*

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 m.p.										

1951 m.p. black.

Average not to be used new gauge in 1929 gave increased catch with 1/7/35

Position of Station on Ordnance One-Inch map :

No. of Map

National Grid Reference

SD 525 0190

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
	C1918 D19	✓ ✓	✓ ✓	✓ ✓	

