

RAINFALL AT Barrow-in-Furness

70

Lat.

Lon.

County of...

Lancashire

Rain Gauge, by

Observer

W. Ferguson Esq

Diameter.....										11
Height.....										1.6
Altitude.....										30
Year	1870	1871	1872	1873	1874	1875	1876	1877	1878	MEANS.
January.....										1.90
February.....										2.85
March.....										1.60
April										2.85
May.....										1.45
June										4.15
July.....										5.15
August										5.00
September.....										4.50
October.....										1.30
November....										1.30
December....										2.40
TOTALS										(37.10)(37.80)(56.50)(38.20)33.75

roughly comp² from Cawndish Park 811-12

1879 Wall 7 ft high 18 ft N.W.

St Georges church Barrow $\frac{1}{2}$ mile E.S.E.

RAINFALL AT Garrow-in-Furness

80

Lat.

Lon.

County of Lancashire North

Rain Gauge, by

Observer W. Ferguson, Esq.

Duddon & C. I.

Diameter	11										
Height	1.6										
Altitude	80T	36 ft									
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January65	.73	3.99	6.44	5.34	1.88	3.84	3.02	1.58	1.98	2.945
February	2.70	4.27	2.43	2.97	3.52	4.43	1.78	1.82	.78	2.11	2.681
March	2.10	4.00	3.03	1.28	3.20	4.01	4.50	1.99	3.36	1.97	2.944
April	1.90	1.42	4.17	2.18	1.36	1.84	2.53	1.91	1.43	1.81	2.055
May	1.30	3.23	1.92	1.05	1.64	1.73	5.19	1.74	1.26	3.96	2.302
June	2.75	2.86	4.65	2.62	.38	1.52	1.68	.50	1.30	1.13	1.939
July	3.20	4.57	5.80	1.87	5.14	2.69	6.43	1.39	7.30	2.77	4.116
August	1.60	6.04	4.24	4.16	1.69	1.65	2.52	1.04	4.40	5.98	3.332
September	2.79	3.18	2.17	4.01	3.29	5.01	5.14	3.38	1.80	3.99	3.476
October	2.12	2.41	3.94	3.21	3.24	4.15	6.71	3.32	3.97	5.16	3.823
November	5.50	5.95	5.61	5.14	1.89	4.30	4.42	3.12	5.64	1.77	4.334
December	5.67	3.76	3.09	2.47	3.95	1.38	5.15	2.92	3.33	4.36	3.608
TOTALS	52.28	42.42	45.04	37.40	34.64	34.59	49.89	26.15	36.15	36.99	37.555

1880. St. George's Church, $\frac{1}{2}$ mile E. S. E

Wall 7ft. high 18ft NW.

RAINFALL AT Barrow-in-Furness

80

Lat.

Loc. County of Lancashire

Rain Gauge, by

Observer

Duddon & C.I.

RAINFALL AT Barrow-in-Furness

Lat.

Long.

County of Lancashire N.

Rain Gauge, by

Observer

W. Fergusson Esq

Duddon & C. I.

Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January	6.14	1.73	3.68	1.45	2.44	2.21	2.57	1.87	3.41	5.33	2.083
February84	.35	1.06	4.90	4.96	.83	2.69	2.72	2.11	2.95	2.341
March	3.27	1.56	.89	1.19	2.30	3.90	4.89	3.72	.80	2.24	2.476
April	1.83	2.74	1.73	.97	1.39	2.36	1.44	2.57	3.42	3.55	2.200
May	2.83	1.40	3.74	2.18	2.82	.76	.38	1.70	2.72	3.10	2.158
June	4.60	1.80	2.61	1.34	3.39	1.63	2.71	5.60	2.47	2.01	2.816
July	3.05	2.01	1.73	2.88	2.62	5.24	4.77	1.35	.55	2.59	2.679
August	5.64	7.00	6.52	4.56	4.04	3.10	3.76	4.11	6.36	1.06	4.615
September	4.01	5.08	4.82	4.55	1.48	1.00	5.62	3.71	1.74	5.64	2.765
October	3.27	4.76	4.58	5.19	4.53	5.25	5.52	2.63	4.53	2.90	4.016
November	9.66	5.48	3.48	2.02	5.16	4.07	1.79	6.19	5.36	2.99	4.620
December98	6.55	2.81	3.50	3.42	4.26	4.81	5.97	4.25	4.34	4.089
TOTALS	46.12	40.46	37.65	34.68	38.55	34.61	40.95	42.14	37.72	38.70	39.158

1890 St George Barrow 1/2 mile E.S.E
 wall 7 ft high 10 ft NW

1890 -

RAINFALL AT Barrow-in-Furness

Lat. $54^{\circ} 6' 30''$ N Lon. $3^{\circ} 13' 30''$ W County of Lancashire North
Rain Gauge, by Frank Kennedy Observer W Ferguson Eng

Duddon & C. I.

Diameter ..	11										1
Height ..	1.6										
Altitude ..	36 ft										
Year ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEAN.
January ..	5.67	2.14	2.36	3.56	4.35	2.22	4.35	1.54	2.56	2.19	3.094
February ..	4.44	1.69	1.89	2.50	3.34	1.34	2.87	2.19	1.87	1.55	2.368
March ..	.78	4.18	2.84	3.30	3.44	2.31	2.38	2.91	2.90	3.29	2.833
April ..	2.49	2.30	1.60	1.81	2.43	3.55	1.32	1.85	2.67	2.97	2.299
May ..	2.12	1.23	2.73	3.11	1.19	.78	3.97	3.93	3.06	2.28	2.440
June ..	2.53	1.88	1.42	2.85	1.44	2.04	2.26	6.09	2.09	1.83	2.393
July ..	1.87	.67	3.71	3.53	2.49	1.22	1.78	2.44	3.50	4.69	2.590
August ..	8.64	3.73	3.75	4.62	3.60	4.90	3.41	3.42	3.79	2.56	4.242
September ..	2.45	1.67	2.00	6.18	2.74	2.65	1.58	1.54	4.02	3.19	2.702
October ..	5.80	5.32	3.32	8.09	2.61	3.00	5.85	5.78	2.75	5.24	4.776
November ..	4.68	4.31	3.67	3.61	3.26	4.20	2.72	3.31	3.26	1.24	3.426
December ..	4.59	4.52	3.91	3.20	3.01	.96	3.99	4.94	3.27	6.05	3.844
TOTALS ..	46.06	33.64	33.20	45.86	33.90	29.17	36.48	38.94	35.74	37.08	37.00

✓ Hub

1900 St George Church $\frac{1}{2}$ mile E.S.E

Wall 7 ft high $18\frac{1}{2}$ ft N.W.

1903 Barrow Station $\frac{1}{4}$ mile N.E. ESE
NW.

RAINFALL at Barrow-in-Furness, Gas Works

County of North Lancashire

Observer W. Ferguson Esq

River Basin Duddon & C.

J. Hadderton Esq.

Rain Gauge, by Kennedy

Diameter ...	11										
Height	1.6										
Altitude ...	36 ft										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	3.55	1.10	3.92	4.59	2.34	3.99	2.58	2.39	4.47	4.83	14.27
February ...	3.87	3.45	2.33	1.87	2.79	4.82	2.98	1.56	3.88	.77	9.19
March	1.60	1.06	4.31	3.97	3.75	1.67	1.53	2.68	1.64	3.32	9.7
April	2.03	2.55	.50	3.76	.40	1.97	1.87	2.12	1.37	1.83	7.9
May	2.20	1.73	1.12	2.31	2.30	1.10	3.35	3.66	2.89	1.60	11.50
June.....	2.01	2.14	4.18	1.86	.69	.82	2.22	2.67	1.83	1.28	8.00
July	3.77	.42	3.93	.82	4.89	4.20	1.50	1.15	4.41	.73	7.79
August	4.42	3.04	5.22	1.89	2.73	3.52	1.51	7.70	3.62	2.11	14.94
September ..	.46	3.95	1.60	2.13	2.31	.51	1.59	2.80	8.95	1.99	13.38
October ...	2.28	4.25	5.51	3.45	2.01	1.97	6.48	7.80	3.68	2.64	30.60
November ..	5.83	3.89	2.99	3.01	4.47	2.67	4.10	4.15	2.82	2.55	13.62
December ...	4.44	7.49	3.70	2.27	4.95	7.99	3.10	2.18	6.78	5.63	17.89
TOTALS ...	36.46	35.09	39.31	31.25	33.63	35.23	32.81	40.86	46.34	29.28	
	7	7	7	7	7	7	7	7	7	7	

1913 Wall 7 ft high 18 ft N.W.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
	54° 30'	3° 13' 30" W	Barrow	1 m	NW	St George	1/2 m	ESE

RAINFALL at Barrow-in-Furness Gas Works

County of N. Lancashire

Observer F. Chadderton Esq.

River Basin Duddon & C. I.

Cloud Diamond Box

(1928) Howard Rain Gauge, by Kennedy

Conf'd Manager Barrow Gas Works

Diameter ...	11											
Height	1.6	30				3.6		30				
Altitude	36	17										
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929		1930
January ...	4.09	4.91	3.10	4.02	4.92	3.78	4.39	5.01	10.92	2.90	7.20	54.91
February ...	1.85	2.2	3.66	5.89	1.15	5.22	5.92	3.25	4.94	1.55	4.44	33.79
March	4.96	2.76	2.14	1.11	2.36	1.29	1.64	3.62	3.94	1.03	2.77	27.62
April.....	5.20	7.0	1.40	2.80	2.81	3.14	2.20	1.98	2.02	2.03	2.33	26.61
May	3.51	1.37	2.43	2.27	5.16	5.89	1.70	2.19	1.05	2.18	1.61	29.36
June	2.61	1.12	2.00	7.0	3.01	3.39	2.74	3.80	5.46	2.08	1.37	24.28
July	4.57	1.57	4.66	3.31	4.42	1.82	4.02	4.62	3.77	4.80	3.36	40.00
August	1.76	6.19	4.06	6.76	4.44	3.56	3.99	7.12	5.23	5.44	7.93	56.66
September...	4.54	2.19	3.92	5.36	5.51	3.24	5.00	8.11	2.76	2.21	2.35	45.19
October.....	1.36	2.48	9.4	8.03	4.59	6.82	4.01	4.64	7.47	6.62	7.10	53.76
November...	1.40	2.06	2.64	6.21	2.85	2.70	7.59	6.18	9.63	10.70	6.40	58.36
December...	2.67	4.86	4.88	6.91	7.15	3.28	1.93	1.23	4.89	8.49	5.54	51.83
TOTALS...	38.52	(29.43)	35.87	53.07	48.37	40.83	44.93	51.75	62.13	49.86	48.40	503.10

1920. Wall 7 ft high 18 ft NW.

1921. Gauge moved 1. II. 21. 1 mile E.

Boiler House Chimney 60 ft high 70 ft NW.

1925. Weigh Gauge 10 ft high 26 ft W.

" 21 " " 50 " S.

Gauge moved 22.IX.25. 100 yds. W.

1928 Office, 21 ft high 50 " S.

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

Date.	Lat. N.	Long. W.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge	Direction
1920	54° 6' 30"	3° 18' 30"	Barrow	1 mi	ESE	St. George	1/2 mi	NW
1921			Rose	1/2 mi	NW	"	3/4 "	"

RAINFALL at Barrow-in-Furness (Gas Works)

County of... North Lancashire

Observer Claude Diamond, Esq.

River Basin Duddon &c. -1.

Type of Gauge Standard

Annual Average 37.6 in. based on 35 years obs. un-weighted. Period of average 1881-1916 Ref. B. of N.

Diameter	11.				5"						
Height	3.0.				1.0						
Altitude	17.				17						
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means Totals
January	5.34	5.65	3.16	4.95	1.93	4.58	3.39	4.35	4.31	3.67	41.33
February	4.20	0.03	4.33	2.0	5.16	1.83	6.18	1.02	3.24	1.59	27.88
March	4.7	4.09	3.70	3.28	1.36	2.56	2.22	1.60	2.56	3.77	25.61
April	2.29	3.61	2.10	2.94	3.80	.56	2.86	.27	2.10	2.92	23.45
May	2.88	5.29	3.13	3.18	1.31	1.05	1.62	3.27	1.48	1.44	23.65
June	7.87	1.94	1.82	2.67	5.06	3.08	1.88	4.39	2.56	.36	31.63
July	4.73	5.13	2.24	1.97	1.36	3.08	2.84	5.30	5.86	4.54	37.05
August	3.67	1.27	3.57	8.62	2.93	3.40	1.46	2.27	2.12	1.16	27.57
September	2.55	4.69	.63	4.94	7.07	4.87	2.74	2.82	2.83	3.52	36.66
October	3.85	6.80	4.27	6.17	5.82	2.49	2.66	8.69	1.48	4.88	47.01
November	9.43	3.00	3.34	2.31	4.31	5.42	2.04	6.38	4.87	5.05	46.15
December	4.19	4.04	1.36	7.59	4.42	4.74	3.67	5.75	2.02	5.15	42.93
TOTALS	51.47	45.64	33.65	45.92	44.53	37.66	33.56	46.01	34.43	38.05	410.92
D.	D.	D.	D.	D.	D.	D.	D.	D.	D.	D.	

1932. Office 21' high 50' S. Inspected 1934. Large readings are due to improper repair of gauge.
 Recommended that a standard gauge be installed. Site excellent but space round gauge
 should be kept clear and grass cut short.

1933 Brig. No.
 April 1934 Brig. No.
 1925 Standard gauge installed & brought into use at new site 15' W of original site commanded by
 1935 House 21' high 23' S. Turf well as well as in file 11556/31)
 (see g. discontinued from 21/II.

1935. Footnote; # New gauge March 1935.

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
1932.			Rosse	2 m.	N.E.	St. George	2 1/2 m.	N.W.

Station No. T.F. 3015

RAINFALL at Barrow-in-Furness (Gas Works)

41

County of North Lancashire Observer G. Diamond Esq. Retired 1944
 River Basin Duddon & C. The Engineer Barrow
 Type of Gauge Howard NORTH WESTERN Gas Board

Annual Average 37.6 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. B7N.

File No. 111586/31

Diameter	5"		588	781							
Height	1' 0"				1						
Altitude	17'				41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means T. gal)
January	2.38	4.85	6.36	4.17	3.92	5.45	3.69	8.23	2.62	2.09	43.76
February	3.90	2.17	2.27	1.93	4.50	3.34	.85	2.32	1.82	4.36	27.46
March	3.09	2.85	1.05	.53	2.36	1.41	6.52	1.91	2.67	2.47	24.86
April	1.45	1.69	2.50	3.56	2.52	1.34	3.95	2.13	2.83	2.49	24.46
May	2.95	3.23	3.94	2.93	3.54	1.35	5.24	1.42	2.24	.87	27.71
June	.43	1.46	2.56	2.89	2.96	2.72	3.05	5.79	.41	(2.14)	24.41
July	1.38	3.52	3.36	3.24	2.52	3.26	2.54	1.59	4.32	3.00	28.73
August	3.65	4.75	6.33	3.44	.91	5.18	.29	4.09	3.32	5.36	37.32
September	1.42	2.75	5.47	5.32	3.43	5.57	3.43	6.07	1.09	8.64	43.19
October	6.08	4.34	5.22	5.48	5.19	.39	.56	2.71	5.44	3.38	38.79
November	2.49	.83	4.77	7.47	12	7.83	5.20	3.47	4.91	4.76	41.85
December	2.14	4.59	1.85	3.82	2.83	6.06	2.59	3.30	6.47	3.22	36.87
TOTALS	31.36	37.03	45.68	44.78	34.80	43.90	37.91	43.03	38.14	42.78	399.41

01004

356.63
42.78

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. 3015 TR 37

RAINFALL at Barrow-in-Furness (Gas Works)

51

County of N. Lancashire

Observer North Western Gas Board

River Basin Duddon & C. - 1

Wakel Lane, Barrow

Type of Gauge Howard

Annual Average 37.6 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. B of N.
 " 40.56 " " 21 " within 1936-57. " " 1916-58
 File No. 11556/31

Diameter ...	5"		588	781							
Height ...	10"				1						
Altitude ...	17'				51						
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means T-H-A-D
January	4.47	3.90	2.07	3.08	2.30	3.90	3.13	4.23	3.19	6.26	36.53
February	3.11	1.01	1.44	3.62	2.25	54	2.96	7.01	60	3.99	25.63
March	4.70	2.45	3.38	2.37	2.05	79	2.59	1.50	2.19	1.55	20.57
April	1.07	2.49	2.87	.85	2.20	1.09	1.45	1.18	3.14	2.48	17.82
May	1.94	2.24	2.49	2.39	2.29	1.05	3.21	3.83	2.82	2.34	24.60
June	.81	2.33	1.41	2.85	3.22	1.61	1.82	4.47	4.44	1.17	24.13
July	2.50	1.60	2.99	3.94	2.45	4.41	2.99	2.38	2.22	4.36	29.84
August	4.44	5.25	4.02	4.34	2.27	807	3.39	5.29	.27	3.75	41.09
September	3.66	3.27	4.15	5.41	3.70	2.75	740	5.28	.79	4.02	40.43
October	.91	3.39	2.23	7.55	2.95	2.88	5.89	3.61	4.30	4.10	37.87
November	8.53	2.06	6.22	8.96	1.91	1.37	1.64	1.82	5.21	6.33	44.05
December	7.49	4.67	2.13	4.07	4.50	3.99	4.63	4.85	6.81	3.67	46.81
TOTALS ...	43.63	34.66	32.40	49.43	32.09	32.45	40.10	45.45	36.04	43.12	389.37
	D	D	D	D	D	D	D	D	D	D	

Position of Station on Ordnance One-Inch map :

No. of Map

National Grid Reference SD(34) 218689

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

Summary of Earlier Records from 10-year Sheets :

	1910-19	1920-30	1931-40	1941-50	1951-60
Record D, or d	V but -19	✓	✓ np 33 34 D 31-35 d 36-40	✓	✓