

RAINFALL AT *Barrow-in-Furness* 70

Lat.

Lon.

County of

Lancashire,

Rain Gauge, by

Observer

W. Fergusson Esq

Diameter.											11	
Height.											1.6	
Altitude.											30	
Year.	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January.										1.90		
February.										2.85		
March.										1.60		
April.										2.45		
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)	(37.20)	(56.50)	(38.20)	33.75		

roughly comp^d from Cavendish Park VII-13

1879 Wall 7 ft high 18 ft N.W.

S^t 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 & Co.

Diameter	11											
Height	1.6											
Altitude	507		367									
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January ....	.65	.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	1.76	1.52	.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	32.28	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*

Lat. _____

Lon.

County of _____

Lat. 53° 45' 00" N Lon. 2° 30' 00" W County of Lancashire

Rain Gauge, by Observer

Duddon + b.1

[illegible]

RAINFALL AT *Barrow-in-Furness*

Lat. _____

Lon. _____

County of *Lancashire* N.

Rain Gauge, by _____

Observer *W. Fergusson Esq*

Dutton + Co.

Diameter	11											
Height	1 6											
Altitude	36 π											
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	
February ....	.84	.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	2.13	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	3.765	
October	3.27	4.76	4.58	5.19	4.53	5.25	5.52	2.63	4.53	2.90	4.316	
November....	9.66	5.48	3.48	2.02	5.16	4.07	1.79	6.19	5.36	2.99	4.620	
December ....	.98	6.55	2.81	3.50	3.42	4.26	4.81	5.97	4.25	4.34	4.089	
TOTALS ...	40.12	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 18 ft NW

1890 -

RAINFALL AT *Barnon-in-Furness*

Lat. *54° 6' 30" N* Lon. *3° 13' 30" W* County of *Lancashire North*

Rain Gauge, by *James Kennedy* Observer *W. Ferguson Esq*

Ruddon 6.1

Diameter ..	11										
Height	1.6										
Altitude ..	36 ft										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
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	2.35	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	.54	4.02	3.19	2.703
October	5.80	5.32	3.32	8.09	2.61	3.00	5.85	5.98	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	3.657

1900 St George Church 1/2 mile E.S.E

Wall 7 ft high 18 ft N.W.

1903 Barnon Station 3/4 mile E.S.E
N.E.
N.W.

Hud

RAINFALL at Barrow-in-Furness, Gas WorksCounty of North LancashireObserver W. Ferguson EsqRiver Basin Duddon + C 1F. Chadderton EsqRain Gauge, by Kennedy

Diameter ...	11											
Height	1 6											
Altitude ...	36 K											
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	1.37	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		7.17
April	2.03	2.55	.50	3.76	.40	1.97	1.87	2.12	1.37	1.83		7.19
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	1.39	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		13.33
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	3.31	4.47	2.67	4.10	4.15	2.82	2.55		13.63
December ...	4.44	7.49	3.70	2.27	4.95	7.99	3.10	2.18	6.78	5.63		7.69
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.
	54.5.30	3.13.30 W	Barrow	1 m	NW	St George	1/2 m	ENE

RAINFALL at *Barrow-in-Furness Pass Works*County of *N. Lancashire*Observer *F. Chadderton Esq.*River Basin *Duddon & C. 1**Claud Diamond Esq.*(1928) *Howard* Rain Gauge, by *Kennedy's**Englishman's Barrow Gauges*

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	4.22	4.92	3.78	4.39	5.01	10.92	2.90	7.20	54.91	
February ...	1.85	2.2	3.66	5.59	1.15	5.22	5.92	3.25	4.94	1.55	.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	7.01	4.0	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	1.2	2.00	2.0	3.01	.39	2.74	3.80	5.46	2.08	1.37	24.28	
July	4.57	1.57	4.64	3.31	4.42	1.82	4.02	4.62	3.77	4.50	3.36	40.40	
August	1.76	6.19	4.06	6.76	4.44	3.56	3.79	7.12	5.28	5.77	7.93	56.66	
September...	4.57	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	6.52	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	51.82	
TOTALS...	38.52	(29.43)	35.81	52.07	48.37	40.83	44.93	51.75	62.13	49.86	48.40	503.10	
	D	D	D	D	D	D	D	D	D	D	D	D	

1920. Tall 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 Office 10 ft high 25 ft W.

" 21 " " 50 " S.

Gauge moved 22.1 x 25.100 yds. W.

1928. Office 21' high 50' S.

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

Map, 2 miles to 1 inch Series

Reference No.

Date.	Lat. N.	Long. W.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge	Direction
1920	54° 6' 30"	3° 15' 30"	Barrow	1 mi	ESE	St George's	1/2 mi	NW
1921			Rosce	1/2 mi	NW	"	1/4 "	W

RAINFALL at Barnes-in-Furness (Gas Works)County of North LancashireObserver Claude Diamond, Esq.River Basin Duddon C. - 1.Type of Gauge StandardAnnual Average 37.6 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. B & 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	.03	4.33	.30	5.16	1.83	6.13	1.02	3.24	1.59	27.88
March	.47	4.09	3.70	6.28	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	.48	1.44	23.65
June	7.87	1.94	1.82	2.67	5.06	3.08	1.83	4.39	2.56	.36	31.63
July	4.73	5.13	2.24	1.97	1.36	3.08	2.34	5.30	5.86	4.54	37.05
August	3.67	1.37	3.57	5.62	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	2.44	2.66	3.69	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	7.89	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.M.	D.M.	D	L	d	d	d	d	

1932. Office 21' high 50' S. Inspected 1941:- 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 Big hp.

April 1934 Big hp.

1935 Standard gauge installed & brought into use at our site 15' W of original site, surrounded by
turf walls (see end. 2nd. on file 11556/31)
old g. discontinued from 31/12.

1935. Fortitude; # 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.			Roose	1/2 m.	N. E.	St. George	3/4 m.	N. W.

Station No. T.F. 3015

RAINFALL at Barrow-in-Furness (Gas Works)

41

County of North LancashireObserver blaud Diamond Eng. Retired 1944River Basin Dutton T.C. 1The Engineer BarrowType of Gauge HowardNORTH WESTERN GAS BOARDAnnual Average 37.6 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. B.G.N.File No. 11158/31

Diameter	5"			588	781						
Height	1'0"				1						
Altitude	17'				41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means 1941-50
January	2.36	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	1.36	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	6.06	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 D	37.03 D	45.68 D	44.78 D	34.80 D	43.90 D	37.91 D	43.03 D	38.14 D	42.78 D	399.41

01004

356.63

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

51

County of N. Lancashire

Observer *North Western Gas Board*

River Basin, *Sutton & Co. - 1*

Walter Eugene Barrow

Type of Gauge.....Howard.....

Annual Average 37.6 in. based on 35 years obs. un-weighted. Period of average. 1881-1915 Ref. B & N
" " 40.56 " " " 21 " " within 1936-57. " " " 1966-58 File No. 11556/31

File No. 111556/31

Diameter ...	5"			588	781							
Height ...	11' 0"				1							
Altitude ...	17'				51							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means Totals	
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	5-4	2-96	7-01	6-00	3-09	25-63	
March ...	4-70	2-45	38	2-37	2-05	7-9	2-59	1-50	2-19	1-55	20-57	
April ...	1-07	2-49	2-87	.85	2-20	1-09	4-5	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	8-07	3-39	5-29	2-27	3-75	41-09	
September ...	3-66	3-27	4-15	5-41	3-70	2-75	7-40	5-28	7-9	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 D	34-66 D	32-40 D	49-43 D	32-09 D	32-45 D	40-10 D	45-45 D	36-04 D	43-12 D	389-37	

No. of Map.....

National Grid Reference **SD(34) 218689**

[illegible]

Summary of Earlier Records from 10-year Sheets :

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