

RAINFALL at Barrow-in-Furness Sewage Works, Sandgate.

County of N Lancashire

Observer W.C. Percy Esq. C.E.

River Basin Duddon

Rain Gauge, by N.Y.

Diameter ...						5					
Height						1.0					
Altitude ...						21					
Year ...	1910	1911	1912	1918	1914	1915	1916	1917	1918	1919	MEANS.
January ...						4.77	2.77	2.31	4.61	5.62	15.31
February ...						5.15	3.46	1.67	3.85	1.46	10.44
March						2.01	1.71	2.77	1.74	4.90	11.12
April						2.49	2.39	1.92	1.59	1.78	7.67
May						1.30	3.90	3.87	2.77	1.74	12.28
June95	3.00	3.05	2.39	1.41	9.85
July						4.55	2.13	1.31	4.42	.73	8.59
August						3.81	1.86	8.17	4.07	4.11	18.21
September ..						.67	3.27	2.78	9.63	3.27	18.95
October ...						2.00	7.31	8.05	3.84	3.09	22.29
November ..						2.80	4.42	4.34	3.04	2.94	14.74
December...						8.07	3.21	2.28	7.40	6.09	18.98
TOTALS ...						38.57	39.42	42.52	49.35	37.14	168.43

Total S.
16-19

15.31

10.44

11.12

7.67

12.28

9.85

8.59

18.21

18.95

22.29

14.74

18.98

168.43

168.43

1916
 Pumping Stns 30 ft high 100 ft W
 College 30 . 200 . W
 Sandgate Hotel 40 . 400 . W
 Paper Works 30 . 400 . SE

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1918	54°11'.293°11'.45	3°26'.6-33°31'.20	Rosso, Barrow-in-Furness	½ m	NE	S Lakes	½ m	NW

RAINFALL at Barrow-in-Furness Sewage Works, Sandgate.

County of N. Lancashire

Observer W. C. Percy Esq. C.E.

River Basin Duddon &c 1

Bird's Eng'g & Surveyor Barrow

(1925) Snowdon Rain Gauge, by N. S.

1920.	Pumping station	soft	high	1000ft	W
	Cottage	30 -	-	200 -	W
	Sandgate Hotel	40 -	-	400 -	W
	Paper Works	30 -	-	400 -	S E
1926	Pumping station	20 -	-	100 -	W.
	Gas Works	30 -	-	600 -	E.
	Housing sites	20 -	-	300 -	N.
	Other works	30 -	-	400 -	S.E

Position of Station on reduced Ordnance Survey Map, 2 miles to 1 inch Series				No. of Map	Reference No.			
Date.	Lat. N.	Long. W.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge	Direction
1920	52° 6' 35"	5° 12' 0"	Roose	1/2 mi	NE	St. Lukes	1/8 mi	NNW

RAINFALL at Barrow-in-Furness (Sewage Wks) (+A) Sandgate

County of... North Lancashire

Observer W.C. Perssey, F.R.C.E.

River Basin Duddon & C - 1.

F.L. WOOLDRIDGE Esq., C.E. (1939)

Type of Gauge M.O. (+A)

Annual Average 39.3 in. based on 15 years obs. un-weighted. Period of average 1881-1915 Ref. 358646/34

Diameter	5.											
Height	1.0.											
Altitude	20.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January	4.32	5.02	2.44	4.12	1.96	4.64	3.18	4.37	4.21	3.54		Totals 37.80
February	3.75	0.02	3.69	1.17	5.17	1.95	6.20	1.05	3.35	1.61		26.95
March	.55	3.73	3.10	2.60	1.38	2.75	2.15	1.65	2.65	4.05		24.61
April	2.13	2.90	1.90	2.65	3.75	.60	2.90	.30	2.17	3.07		22.43
May	2.85	5.00	2.86	3.49	1.25	.95	1.64	3.40	.55	1.55		23.54
June	7.32	1.09	1.74	2.45	5.03	3.18	2.04	4.42	2.76	.45		30.68
July	4.17	5.27	1.90	1.83	1.25	3.33	2.78	5.33	6.10	5.18		37.14
August	3.66	1.40	3.18	5.34	3.00	2.52	1.62	2.35	2.26	1.28		26.61
September	2.36	4.03	.83	4.22	7.65	5.05	2.86	2.91	2.73	3.58		36.24
October	3.29	6.48	3.63	5.62	5.65	2.43	2.67	8.40	1.69	5.20		45.06
November	7.75	2.81	3.19	1.98	4.42	5.35	2.01	6.53	5.03	5.10		43.57
December	3.24	3.69	.96	6.50	4.24	4.76	3.76	9.61	2.10	5.22		40.08
TOTALS	45.39	40.94	29.42	40.97	44.75	37.57	33.81	46.32	35.62	39.83		39.62
	D	D	D	D	D	D	D	D	D	D		D

1934. Barrow paper boy. Works. + Barrow Gas Works.

40' 0" a.g. 210 yds. S.E.

Barrow Gas Works 100' 0" a.g. 330 yds. E.
Inspected 20/9/34. Ht. above ground 1' 3". Bricks and gauge to be
removed, anti-creep links
8/33 recommendations carried out.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.			Roosie	2 m.	N.E.	St. Lukes.	310 yds.	N.W.

Station No. X1 3016

RAINFALL at Barrow-in-Furness (Seaside Wks + A) 41

County of North Lancashire Observer F.L. Woolridge Esq. P.E.
River Basin Duddon & C - I J E. H. Titecraft Esq. C.E. - Stat
Type of Gauge M.O. (+A) British Engineering Standard

Annual Average 39.3 in. based on 15 years obs. un-weighted. Period of average 1881-1915 Ref. S

File No. 358646/34

1943 Barrow Paper Co. Works 40' high 210 yds from gauge. Gas Works 100' high
40' - 210 yds S.E. " 100' high 330 yds S.E.

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
1941			Rosse	800 y.	N.E	St. Lukes	310 y.	N.W.

Station No. 3016

RAINFALL at Barrow-in-Furness (Sewage Works) (f.d.) Sampled 51
County of N. Lancashire Observer J. N. Flitcroft Esq. B.M.C.E.
River Basin Duddon & C. I.
Type of Gauge M.D. (+D)

Annual Average 39.2 in. based on 15 years obs. ita-weighted. Period of average 1881-1915
41.05 " 35 (No. 2, Net Sph) 1916-1950 1916-1950 Ref. S P
File No. 3586446/34

Diameter	5"	588	797	8"							
Height	11' 0"		1	4' 4"							
Altitude	20'		51	24							
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	Means Total	
January	4.60	3.77	1.93	3.19	2.16	4.04	3.61	3.87	3.15	6.38	36.70
February	3.50	1.16	1.34	3.86	2.08	.59	3.41	6.81	.59	3.35	26.69
March	4.48	2.47	.41	2.53	1.96	.84	2.58	1.58	2.14	1.46	20.45
April	1.20	2.75	2.96	.84	2.32	1.40	.47	1.12	3.27	2.43	18.66
May	1.73	2.30	2.58	2.74	2.39	1.55	3.24	4.04	2.56	2.36	25.49
June	.82	2.59	1.40	3.03	3.24	2.18	1.91	4.43	4.48	1.40	25.48
July	2.62	1.76	3.22	4.27	2.32	5.02	3.08	2.57	2.18	4.72	31.76
August	4.53	5.12	4.05	4.88	2.11	8.91	3.62	5.23	.29	3.80	42.54
September	3.77	3.60	4.69	6.49	3.37	3.12	7.69	4.91	.85	4.19	42.68
October	.96	3.46	2.28	7.80	3.20	3.32	6.16	3.75	4.90	3.90	39.79
November	8.34	2.02	5.99	9.14	1.90	1.55	1.81	1.89	5.57	7.06	45.27
December	7.51	4.66	2.20	4.03	4.51	4.35	4.83	5.10	7.30	3.92	48.41
TOTALS	44.06	35.66	32.95	52.80	31.56	36.87	42.41	45.30	37.28	44.97	403.86

1951 House 40' high at 310° E. Gas Works 100' high at 330° E.

* 1954 values are from *Laguna Lagoon*. And 1955-

1956 Barrow Paper Co., 40' at 210 yds SE and Gas Works 100' at 330° E.

Position of Station on Ordnance One-Inch map :			No. of Map.....	National Grid Reference				
Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge.	Direction
1951			Roose	800 ^X	N.E.	St. Lukes	310 ^X	N.W.

Summary of English Records from 10-mm. Sheets

1916-1920 P- accepted

Summary of Earlier Records from 10-year Sheets:		1916-1950				
Record D, or d		1910-19	1920-30	1931-40	1941-50	1951-60
		✓ 1915 25.12.19	✓	✓	✓	