

RAINFALL at Barnon in Furness Sewage Works, Sandgate.County of N LancashireObserver W.C. Percy Esq C.E.River Basin DuddonRain Gauge, by N43

Diameter ...						5							
Height .....						10							
Altitude ...						21							
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	TOTALS.	16-17.
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	2.38	1.92	1.59	1.78		7.67	
May .....						1.30	3.90	3.87	2.77	1.74		12.28	
June .....						.95	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	1916

1916 Pumping Stn 30 ft high 100 ft W  
 Collage 30 ft 200 ft W  
 Sandgate Hotel 40 ft 400 ft SE  
 Salford Works 30 ft 400 ft

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1918	54.11.25 N	1.45 W	Rosser, Barn in Furness	1/2 m	NE	St. Marks	1/2 m	NW
	54.6.38	1.12.0 W						

RAINFALL at *Barrow in Furness Sewage Works, Sandgate.*County of *N. Lancashire*Observer *W. C. Parry Esq. C.E.*River Basin *Duddon & C. 1**Barrow's Eng. & Surveyor Barrow.*(1925) *Snowdon Rain Gauge, by N. J. J.*

Diameter ...	5"													
Height .....	1.0	0.11												
Altitude ...	21													
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	<del>1930</del>			
January ...	4.68	6.12	4.01	3.57	4.47	3.10	3.89	4.34	8.95	2.51	5.57	51.21	75.115	
February ...	2.50	3.1	4.28	6.25	9.7	4.55	5.17	2.83	4.15	1.45	4.2	32.88		
March .....	5.74	3.61	2.46	1.44	2.35	1.10	1.44	3.23	3.51	91	2.52	28.31		
April .....	5.91	1.21	1.77	3.26	2.51	2.78	1.98	1.85	1.86	1.87	2.02	27.02		
May .....	4.19	1.84	2.21	2.36	4.86	5.36	1.97	2.05	1.07	1.92	1.32	29.15		
June .....	2.83	2.1	2.03	7.0	2.43	4.0	2.50	3.54	4.49	1.87	1.14	22.14		
July .....	5.66	1.63	4.96	4.04	4.02	1.76	3.51	4.34	3.07	3.65	3.13	39.77		
August .....	2.37	6.60	4.01	6.75	3.92	3.44	3.55	6.79	5.26	4.94	7.18	55.41		
September...	4.78	2.25	3.76	4.69	4.58	4.06	4.81	7.48	2.30	1.93	2.25	42.89		
October .....	1.93	2.74	1.33	6.88	4.01	5.70	3.53	3.96	6.89	5.66	6.25	48.88		
November...	1.84	2.50	2.09	5.07	2.35	2.59	6.71	4.79	8.21	8.71	5.67	50.53		
December...	3.32	4.85	4.69	5.87	6.06	2.99	1.63	1.28	4.25	6.89	4.67	46.50		
TOTALS...	45.75	33.87	37.60	50.88	42.53	37.83	40.69	46.48	54.61	42.31	42.14	474.67	48.26	
	D	D	D	D	D	D	D	D	D	D	D	D	D	

1920. Pumping Station 30ft high 100ft W  
 Cottages 30 - " 200 - W  
 Sandgate Hotel 40 - " 400 - W  
 Paper Works 30 - " 400 - S.E.  
 1926 Pumping Station 30 - " 100 W.  
 Gas Works 30 - " 600 E.  
 Housing Works 20 - " 300 N.  
 Paper 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"	3° 12' 0"	Roose	1/2 mi	N.E.	St. Luke's	1/8 mi	N.W.

RAINFALL at Barrow-in-Furness. (Sewage Wks.) (+A) SandgateCounty of North LancashireObserver W.C. Parson, Esq. F.R.S.River Basin Duddon & C. - 1E.L. WOOLDRIDGE, Esq. C.E. (1939)Type of Gauge M.O. (+A)Annual Average 32.3 in. based on 15 years obs. un-weighted. Period of average 1881-1915 Ref S

35264634

Diameter	5.											
Height	1.0.											
Altitude	20.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	Totals
January	4.32	5.02	2.44	4.12	1.96	4.64	3.18	4.37	4.21	3.54		37.80
February	3.75	.02	3.69	.17	5.17	1.95	6.20	1.05	3.35	1.61		26.96
March	.55	3.73	3.10	2.60	1.38	2.75	2.15	1.65	2.45	4.05		24.61
April	2.13	2.90	1.90	2.65	3.75	.66	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		37.12
August	3.66	1.40	3.18	5.34	3.00	3.52	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	2.79	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	2.31	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	5.61	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		386.52
	D	D	D	D	D	D	D	D	D	D		4288

1934. Barrow paper bag. Wks. + Barrow Gas Works.

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

Barrow Gas Works 100' 0" a.g. 330 yds. E.

Inspected 20/1/34. Ht. above ground 1' 3" (bricks round gauge, to be removed, outer air locks recommended carried out.

2/33

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
1932.			Roose	½ m.	N.E.	St. Lukes.	310 yds.	N.W.



Station No. ✓ 3016

RAINFALL at Barrow - in - Furness (Sewage Works) (A) 41

County of North Lancashire

Observer F. L. Woolfson & E. E.

River Basin.....Duddon & C-1

*E. H. Fitteroft Esq., C.E.*

Type of Gauge..... M.O. (+A)

Bilateral Investment & Subvention

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

File No. 358646/34

Diameter	5"			5.88	7.97							
Height	1'0"				1							
Altitude	20'				41							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	
January	2.02	4.72	6.40	4.15	3.77	5.31	3.62	7.97	2.56	2.05		Totals 42.57
February	3.96	2.27	2.22	1.88	4.02	3.38	.72	2.24	1.88	4.20		26.76
March	3.27	2.85	1.09	.55	2.41	1.38	6.38	1.98	2.75	2.47		25.13
April	1.47	1.88	2.52	3.59	2.03	1.36	3.88	2.12	2.86	2.41		24.12
May	3.00	3.41	3.82	3.01	3.67	1.43	5.44	1.52	2.33	.88		28.51
June	.48	1.32	2.70	2.29	3.16	2.65	3.19	5.75	.50	1.43		23.47
July	1.42	3.64	3.53	3.30	2.76	3.41	2.66	1.74	3.88	3.07		27.41
August	3.81	4.97	6.54	3.65	.97	5.05	.33	4.28	3.44	5.40		38.44
September	1.54	2.92	5.56	5.32	3.43	4.68	3.62	6.03	1.09	8.63		42.82
October	7.60	4.40	5.38	5.99	4.99	.41	.64	2.77	5.56	3.51		40.85
November	2.58	.98	4.54	7.35	.15	7.58	5.07	3.51	4.86	4.56		41.18
December	2.02	4.73	1.77	3.77	2.82	5.99	2.49	3.34	5.99	2.84		35.76
TOTALS	33.36 D	38.09 D	46.07 D	44.25 D	34.18 D	42.63 D	38.04 D	43.25 D	37.70 D	41.45 D		399.02 401.3

1941 Barrow Paper Co. Works 40' high 210 yds from gauge. Gas Works 100' high  
1943 " " 40' - 210 yds S.E. " - 100' high 330 yds. f.g.

*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	Parish Church.	Distance from gauge.	Direction
1941			Roose	800 y.	N.E	St. Lukes	310 y.	N.W.

## BRITISH RAINFALL ORGANIZATION

Station No. 3016

RAINFALL at Burrow-in-Furness (Sewage Works) (+P) 51County of N. Lancashire Observer J. C. F. Lister of Eng. & M. C. E.River Basin Druidon & C. 1Type of Gauge M. D. (+P)Annual Average 39.2 in. based on 15 years obs. un-weighted. Period of average 1881-1915 Ref. S.P.41.05 " " " 35 (No. 2. Nat. Siphon) 1916-1950File No. 358644/34

Diameter ...	5"	5.88	7.97	8"							
Height ...	1' 0"		1	6' 4"							
Altitude ...	20'		51	24							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	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 ...	2.42	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	39.73
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
	D	D	D	D	D	D	D	D	D	D	

1951 House 110' high at 210° E. Gas Works 100' high at 330° E.

\* 1954 values are from Nat. Siphon. And 1955.

1956 Burrow Paper Coy. 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 34/215688

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.
1951			Rome	800' N.E.	St. duken	310' N.W.

Summary of Earlier Records from 10-year Sheets :

1916-1950, R-accepted

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	21915 215, 17-19	✓ ✓	✓	✓	