

2741
80

Over
RAINFALL AT Darwen Sunnyhurst Bay

Lat. _____ Lon. _____ County of Lancashire

Rain Gauge, by _____ Observer T. Duxbury, Esq.

Ribble & Co.

Diameter		8									
Height		2.0									
Altitude		915									
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January		29.560	4.20	3.28	2.83	4.49	1.49	1.54	2.10		
February		4.03	3.66	3.52	3.04	3.91	60	1.66	.90	1.97	
March		3.21	5.37	.77	2.55	2.78	2.95	1.72	3.19	2.29	
April		1.08	7.60	2.24	1.67	2.68	2.49	1.60	2.20	2.27	
May		6.44	2.75	.69	1.58	1.96	3.86	1.95	1.17	3.92	
June		3.60	6.69	4.36	1.58	3.36	2.77	.94	2.61	.83	
July		6.76	6.60	3.08	4.70	2.12	4.90	1.60	7.93	3.70	
August		8.57	5.72	1.98	1.57	1.63	1.95	1.96	5.54	6.49	
September		3.34	2.55	5.30	3.45	4.98	3.77	6.76	1.81	4.26	
October		3.42	5.42	4.80	2.20	5.49	5.87	2.18	2.32	3.80	
November		7.28	9.66	2.91	1.13	3.63	3.06	2.40	6.88	2.37	
December		9.12	3.50	2.59	5.15	2.11	5.08	2.49	3.48	4.35	
TOTALS		57.14	65.12	36.14	31.90	37.48	41.79	26.75	39.57	38.35	

1881. Over Darwen 2 miles ESE
Gauge on Reservoir bank fully exposed

Rejected from Review: 5" too low

RAINFALL AT

Over Darwen Sunnyhurst Hvy

Lat.

Lon.

County of

Lancashire

Rain Gauge, by

Observer

J. Duxbury Esq

W. Stubbins Esq

Riddle & Co.

R. W. Smith & Sons Ltd. Cr.

Diameter	8										
Height	20	18									
Altitude	915 T										
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January	4.93	2.53	2.51	1.35	2.60	2.10	3.30	2.07	3.68	5.27	3.034
February ....	.80	.09	2.00	6.19	5.18	.07	1.27	3.93	3.22	1.81	2.456
March	3.69	1.10	1.05	2.36	4.13	5.30	7.01	5.80	2.52	1.93	3.489
April	1.19	1.34	1.43	.48	2.00	3.61	1.73	3.64	1.72	3.89	2.103
May	2.49	3.64	3.85	2.50	4.13	.97	.98	4.16	3.30	2.92	2.894
June	3.86	2.20	4.30	2.67	3.74	3.04	2.10	5.17	2.71	1.55	3.124
July	4.47	3.55	2.44	3.58	5.24	6.05	3.41	2.04	1.10	3.15	3.503
August	5.86	8.46	5.44	3.15	5.65	4.56	2.44	5.72	4.44	1.43	4.715
September....	2.72	3.27	4.32	5.38	.80	1.47	6.77	5.24	2.07	5.68	3.772
October	4.30	6.05	5.37	4.72	4.17	4.13	5.27	3.35	3.66	3.22	4.421
November....	10.11	4.88	4.80	2.56	3.21	3.70	1.66	3.47	2.23	2.27	3.889
December ....	.24	6.66	2.13	4.94	4.73	5.62	5.91	7.46	3.95	2.51	4.415
TOTALS . . .	44.66	43.77	39.64	39.88	45.58	40.62	41.85	52.05	34.60	35.63	41.828

Rejected from Survey: 5' too low.

RAINFALL AT Over Darwen Sunghurst Hey
Central
 Lat. Lon. County of Lancashire
Snowdon Rain Gauge, by Observer R. S. Saville Esq
with

Ribble 1.

Diameter ..	8										
Height	1.8		1 0	1 8							
Altitude ..	915 T		925	915							
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	6.23	2.34	3.08	4.17	4.60	2.24	6.59	2.02	4.01	2.57	3.785
February ..	2.72	1.08	1.61	3.34	3.55	2.37	3.56	2.02	3.86	2.46	2.657
March ....	.49	2.69	2.30	3.38	2.70	4.58	4.48	3.92	3.42	3.11	3.107
April	2.71	3.34	2.51	1.21	4.48	3.43	2.18	2.45	2.16	4.60	2.907
May	2.51	.93	2.48	3.89	2.25	1.42	4.40	4.50	3.39	3.27	2.904
June	2.91	2.04	1.19	1.41	1.91	2.90	2.02	10.09	2.24	3.73	3.044
July	2.55	2.18	3.27	5.03	1.83	3.28	2.87	4.08	5.75	7.12	3.796
August	4.99	2.58	2.67	5.27	5.40	4.66	4.45	5.80	4.68	3.82	4.432
September ..	2.69	1.16	2.00	4.68	1.29	3.23	1.73	1.42	5.18	3.38	2.676
October	6.10	3.22	4.26	8.59	3.54	4.94	7.52	3.86	2.17	7.13	5.133
November ..	4.57	4.69	3.00	3.07	3.87	5.74	4.67	3.43	4.15	2.30	3.949
December ..	5.04	3.81	2.75	2.09	3.26	1.64	4.55	5.47	3.08	6.48	3.817
TOTALS ..	43.51	30.06	31.12	46.13	38.68	40.43	49.02	49.06	44.09	49.97	42.25

1907. St. Euthberts Church 1 mile W.
Darwen Station 1½ " W.
 1909 N. objects near

Rejected from Survey: 5" too low.

Hills

RAINFALL at

Darnworth Sunnyhurst Hey

County of Central LancashireObserver R. L. Lawrence Esq. C.E.River Basin Ribble &c 1E. Marden Esq. C.E.

Rain Gauge, by

Diameter ...	8											
Height	1 8											
Altitude ...	915 T											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	
January ...	4.61	1.82	5.20	5.46	3.62	6.91	4.22	2.39	3.07	4.67		11.35
February ...	5.05	5.91	2.56	2.01	3.98	7.52	3.73	.97	5.77	1.07		11.54
March	1.25	2.59	7.86	6.29	6.08	2.05	1.94	2.50	2.00	8.31		11.75
April	3.75	3.95	.94	7.13	1.96	2.50	4.36	1.92	1.26	2.82		10.36
May	4.45	3.10	2.52	4.29	2.57	1.76	3.05	1.96	2.52	1.98		9.51
June	3.23	4.48	6.58	3.62	2.26	2.17	3.85	2.56	2.47	2.44		11.32
July	6.13	.49	6.80	1.62	5.32	3.99	3.03	2.26	3.74	2.00		11.00
August	7.62	4.54	8.62	2.89	3.55	5.79	3.26	7.92	5.23	4.69		21.10
September ..	.72	4.96	2.70	2.53	4.70	.57	3.74	2.47	13.32	3.11		22.64
October ...	3.83	4.19	5.97	2.29	3.01	2.40	9.32	9.08	4.85	2.70		25.95
November ...	5.67	5.37	3.97	6.36	6.36	1.61	3.27	5.61	3.08	3.35		15.31
December ...	5.61	9.69	4.81	3.85	7.29	4.88	3.26	2.30	9.61	8.43		23.60
TOTALS ...	51.92	51.09	58.53	48.34	50.70	46.45	47.03	41.94	56.92	42.57		183.46

1916 f on open ground near Filton Beck

Rejected from Survey : 5" too Low

Date.	Lat. N.	Long. W.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
	53.41.30	2.29	Darnworth	1 1/2	SW	Silfings	1 m	S.W.

RAINFALL at *Darwen Sunnyhurst Hey Reservoir*County of *Central Lancashire* Observer *E. Marsden Esq. C.E.*River Basin *Ribble &c 1* Baro' Eng' *Darwen*(1928) *Glaisher* Rain Gauge, by _____

Diameter ...	8								8			
Height	1 8								1 80		1 0	
Altitude ...	915								905	915		
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS 1926	
January ...	4.26	8.05	3.73	5.39	3.93	3.73	6.34	5.76	13.47	2.05	7.88	Total 64.59
February ...	3.77	3.7	5.87	8.11	1.12	7.91	5.62	2.60	5.39	1.53	.44	42.74
March	4.83	3.95	2.95	2.15	1.66	2.19	2.35	5.90	4.27	1.87	3.35	35.49
April	6.27	2.58	2.7	3.82	2.02	3.50	1.97	3.63	1.60	1.41	2.90	32.57
May	7.53	3.17	2.40	4.58	6.16	5.03	3.81	1.74	1.29	3.93	2.32	41.96
June	3.31	.82	4.04	1.63	3.83	.29	3.10	5.21	7.08	2.15	2.88	34.34
July	6.48	2.49	5.71	6.15	5.62	2.96	3.80	5.38	3.23	4.42	6.14	52.38
August	3.11	7.49	5.44	7.05	8.21	5.26	4.26	7.02	7.90	6.81	9.85	72.40
September...	3.10	2.23	5.25	5.94	5.38	5.48	5.22	7.90	1.58	2.50	3.58	48.16
October	1.98	3.20	5.24	7.92	5.03	7.08	4.19	5.36	7.23	8.91	6.75	58.52
November...	2.50	3.32	4.46	6.96	3.24	4.18	8.41	5.60	7.87	10.70	7.50	64.74
December...	3.07	7.25	5.45	5.47	6.84	3.49	2.01	1.55	3.14	10.43	4.97	53.97
TOTALS...	50.21	44.92	49.01	65.17	53.04	51.10	51.09	57.65	64.37	56.74	58.56	601.86
	D	D	D	D	D	D	D	D	D	D	D	426

(1922) gauge on open ground near filter bed

Rejected from Survey - 5' too low.

1928 6.75
average recorded for gauge at 1 foot - 4.75 in.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	53° 41' 30"	2° 29'	Darwen	1 1/2 mi	W	St. George	1 mi	S.W.

RAINFALL at Darwen (Sunnyhurst-Hey Res.)

County of Central Lancashire Observer E. Marsden, Esq. C.E.

River Basin Ribble & C-1.

Type of Gauge Glaisher

Annual Average ⁴⁹⁵~~435~~ in. based on ⁵~~25~~ years obs. ~~un~~-weighted. Period of average ¹⁹²⁸⁻¹⁹³²~~1881-1915~~ Ref. ^{Sunny}~~Darwen~~
614.573/27

Diameter	8.											
Height	1.0.							1.5				
Altitude	915.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January	6.29	6.01	3.75	4.11	2.77	5.68	4.35	6.35	5.73	1.75		Totals. 46.79
February	5.19	1.2	4.02	4.1	7.26	3.28	6.64	1.95	5.13	2.74		36.74
March	6.1	3.46	4.19	3.04	1.52	3.88	2.44	1.75	2.48	3.50		26.87
April	3.74	4.00	2.30	3.40	3.87	1.31	4.18	7.4	3.27	3.23		30.04
May	2.65	4.91	2.23	4.53	1.52	8.4	2.31	4.96	1.83	1.17		26.75
June	6.12	1.48	2.75	2.26	3.30	4.34	2.27	5.29	4.20	1.06		33.07
July	4.83	4.47	3.69	2.24	2.36	5.68	2.34	5.27	8.04	5.83		44.75
August	5.69	1.63	3.65	5.77	2.27	3.16	3.68	3.80	2.83	3.04		35.52
September	4.19	6.92	1.05	4.53	8.76	4.71	2.16	2.71	1.82	5.37		42.22
October	3.52	8.99	5.42	7.12	9.51	5.75	2.54	11.04	2.63	5.38		61.90
November	9.39	3.80	2.50	2.75	5.84	7.25	2.31	7.73	8.57	7.84		57.98
December	2.57	2.67	7.0	8.09	4.33	5.95	3.17	6.17	3.69	5.63		42.97
TOTALS	54.79	48.46	36.25	48.28	53.31	51.83	38.39	57.76	58.22	46.54		425.80
	D.	D.	D.	D.	D.	D.	D.	D.	D.	D.		4966

9. on open ground.
1939. Corrected for addition, 26/4/56. 4966.

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
1931			Darwen	1m	E.N.E.	Lockholes	1m
						"	1m
							E.
							N.W.(96)

Station No. 2941

RAINFALL at Darwen (Sunnyhurst Key Res.)

41

County of Central LancashireObserver E. Marsden Esq. C.E. died.River Basin Ribble & C. T.Borough Engineers (1944)Type of Gauge GlaisherBorough & Water Engineer (1950)Annual Average 49.5 in. based on 5 years obs. up-weighted. Period of average 1928-1932 Ref. S.File No. 54573/27

Diameter	8"			575	934								
Height	1' 5"	1 0			1	1' 5"							
Altitude	915'				41								
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means		
January	1.81	6.21	7.43	6.35	4.52	5.69	5.33	10.58	3.94	4.42			56.21
February	5.51	1.42	3.50	2.32	6.71	8.93	3.7	3.12	3.36	6.25			41.49
March	4.06	3.60	1.48	1.09	1.98	1.14	7.07	2.72	2.80	3.04			29.05
April	1.82	2.92	2.80	2.76	2.70	1.70	4.26	2.57	4.79	3.81			30.13
May	2.99	4.25	3.81	4.86	3.96	1.97	2.87	2.09	4.10	2.35			33.25
June	.65	.92	4.41	3.56	5.00	3.79	3.58	6.31	1.39	2.78			32.39
July	2.99	6.49	3.48	4.87	3.89	4.87	3.93	2.61	2.87	5.43			41.43
August	7.10	6.13	8.03	4.49	2.80	8.74	.27	5.93	3.42	9.73			56.64
September	1.52	4.38	5.60	7.40	3.33	7.77	5.25	3.40	2.49	9.94			51.08
October	5.47	8.91	4.78	6.84	6.95	1.61	1.29	3.40	5.96	5.04			50.25
November	3.48	1.46	4.16	8.39	.64	8.20	6.55	2.79	7.69	7.75			51.11
December	3.27	4.42	3.19	5.83	4.11	5.69	4.20	5.85	7.08	3.77			47.41
TOTALS	40.69 D	51.11 D	52.67 D	58.76 D	46.59 D	60.10 D	44.97 D	51.30 D	49.74 D	64.31 D			520.44 426

1943 gauge on open ground near pithead.

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.
1941 1943			Darwen	1 m.	E.N.E	Jockholes	1 m.	N.W.
			"	1 m.	E.N.E	"	1 m.	E

BRITISH RAINFALL ORGANIZATION

Station No. 2941

RAINFALL at Darwen (Lunnyhurst Hey Res.)

51

County of Central LancashireObserver Borough & Water Engineer.River Basin Ribble & C-1Type of Gauge GlaisherAnnual Average 49.5 in. based on 5 years obs. un-weighted. Period of average 1881-1915 Ref. S
51.33 " " 35 " " 1916-1950 1916-1950File No. 8/14573/27

Diameter ...	8"			575	934						
Height ...	11' 5"				1						
Altitude ...	915'				51						
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	5.71	5.65	100	6.06	2.97	6.56	4.03	4.58	3.18	6.33	
February ...	4.70	1.93		4.32	2.47	1.08	4.07	7.93	.89	4.04	
March ...	5.96	2.94		4.52	2.24	2.07	4.65	1.90	2.52	1.80	
April ...	3.25	4.52		1.29	3.61	3.02	.77	1.79	3.90	3.62	
May ...	2.85	3.18		3.64	4.87	2.24	3.22	5.43	2.07	2.48	
June ...	1.81	4.63		4.36	4.11	2.94	2.41	4.92	3.28	1.95	
July ...	4.09	3.44	6.39	8.16	1.19	5.77	7.83	3.95	5.53	10.51	
August ...	5.72	6.41	5.78	7.43	1.48	14.93	7.99	5.33	.78	5.56	
September ...	4.24	5.82	6.28	6.71	5.29	4.49	8.65	5.67	.50	3.72	
October ...	1.37	6.01	2.96	10.35	3.76	3.29	7.98	5.68	6.14	4.51	
November ...	10.01	3.03	7.30	9.80	3.32	1.80	2.92	1.95	6.41	9.08	
December ...	12.84	5.10	2.46	7.87	7.13	5.75	5.78	4.78	11.57	5.90	
TOTALS ...	62.55	52.66	100	74.51	42.44	53.94	59.30	53.41	46.77	59.50	
	D	n.p.	n.p.	D	D	D	D	D	D	D	

1451 gauge on open ground near fells

1952. values unreliable (Revised until 29/12/52) 1953 n.p.m.

1957 Fines Wall 6' at 12° SE

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference 341677221

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.
1951			Darwen	1 m. E.N.E.	Tockholes	1 m. N.W.

Summary of Earlier Records from 10-year Sheets :

1916-1950, P - accepted

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	✓	✓	✓	
	D11-19	✓	✓	✓	