

RAINFALL AT *Bunley Swinden Under*

2967
80

Lat.

Lon. County of *Leicestershire*

Rain Gauge, by

Observer *H. Williamson, Esq*

Ribble + G. 1.

Diameter		8	8								
Height		8	-	12	-						
Altitude		815	820	7							
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January....		29	5.09	6.42	5.88	2.54	6.84	2.68	2.20	1.98	
February ...		3.03	3.79	4.49	4.80	4.42	.82	1.18	1.06	2.18	
March		2.55	4.90	1.40	3.63	3.13	3.58	2.03	3.60	3.58	
April		1.66	6.72	2.61	2.28	2.82	3.50	1.57	2.56	3.22	
May		3.39	2.40	1.31	1.95	2.92	4.83	2.24	1.31	2.67	
June		2.54	5.92	5.34	.90	3.47	2.46	.43	3.26	.79	
July		5.94	6.99	3.43	5.72	1.82	3.99	3.02	5.34	3.97	
August		5.38	3.69	2.79	1.93	1.77	2.03	1.75	3.84	5.83	
September...		2.26	2.67	7.21	2.94	5.22	3.68	5.51	1.10	2.84	
October		3.77	4.43	5.19	2.67	7.54	6.32	2.98	2.17	5.44	
November...		6.00	7.17	4.65	1.65	3.68	3.91	3.45	8.52	1.86	
December		4.93	3.69	3.47	5.62	2.70	6.61	3.06	3.42	3.16	
TOTALS		41.74	57.46	48.31	39.97	41.43	48.57	29.84	38.38	37.52	

RAINFALL AT Burnley Swinden Upper

Lat. _____

Lon. _____

County of Lancashire

Rain Gauge, by _____

Observer W. Williamson EsqRibble's Co. t

Diameter	8											
Height	12 0											
Altitude	820 ft											
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January	6.18	2.82	3.71	1.46	4.85	4.08	1.90	1.98	3.77	7.21	3.796	
February	1.00	.52	3.10	5.18	5.44	.56	2.32	3.75	3.35	2.38	2.760	
March	3.55	2.23	1.33	1.13	3.83	4.04	5.45	5.88	2.29	2.93	3.266	
April	1.34	3.08	1.37	.87	2.65	3.21	2.43	3.32	2.94	3.95	2.516	
May	2.69	3.46	4.98	2.64	2.66	.82	.87	2.32	3.46	3.08	2.698	
June	4.18	1.56	4.36	3.65	3.57	3.07	2.80	4.16	3.24	1.43	3.200	
July	3.23	4.24	2.02	4.70	4.63	5.95	2.13	2.12	1.12	2.56	3.270	
August	6.23	8.92	5.35	5.25	5.13	5.02	2.41	6.63	5.01	1.63	5.158	
September....	3.09	3.69	3.94	5.31	.26	1.97	7.47	5.31	1.49	7.08	3.961	
October	2.98	5.63	7.02	4.31	5.22	4.86	5.15	2.11	5.39	3.30	4.597	
November....	7.55	4.87	2.36	3.44	3.72	5.14	2.22	4.53	3.22	2.55	3.960	
December ....	.87	8.88	2.46	5.12	4.00	4.67	5.94	6.24	5.70	3.53	4.741	
TOTALS . . .	42.89	49.90	42.00	43.06	45.96	43.39	41.09	48.35	40.98	41.63	43.925	

RAINFALL AT *Burnley Swinden Upper*
Central
 County of *Lancashire South*
 Lat. _____ Lon. _____
 Rain Gauge, by _____ Observer *W. Williamson Esq*

Ribble 1

Diameter ..	8										
Height	12.0										
Altitude ..	820 ft										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	5.78	2.74	3.96	4.73	4.73	2.01	6.72	2.11	3.76	2.57	3.911
February ..	4.90	2.35	1.64	4.97	5.57	2.54	3.43	2.48	2.91	2.68	3.347
March ....	.97	3.57	2.94	6.87	2.79	3.72	3.26	3.46	3.93	3.38	3.489
April	2.43	3.16	2.76	2.39	3.00	3.54	1.43	2.51	2.92	3.85	2.799
May	2.42	1.34	3.44	3.35	3.30	.96	3.76	4.03	2.92	2.47	2.799
June	4.35	1.56	1.62	2.01	1.21	2.97	1.60	6.39	2.19	3.06	2.696
July	3.86	1.83	3.55	4.26	3.18	2.28	2.12	2.60	5.03	6.31	3.502
August	5.62	2.45	3.09	5.06	5.00	5.28	4.46	4.41	4.52	3.32	4.321
September ..	1.60	1.53	1.69	5.83	1.56	2.84	1.39	.85	4.45	2.46	2.423
October	5.57	3.69	4.80	10.87	1.77	3.62	7.05	6.01	1.90	5.22	5.050
November ..	3.89	6.22	3.35	2.86	3.31	5.27	5.17	2.26	3.32	1.71	3.736
December ..	5.12	5.51	4.57	3.03	3.26	1.13	3.89	4.81	3.19	5.42	3.993
TOTALS ..	46.51	35.95	37.41	56.23	38.68	36.16	44.28	41.92	41.07	42.45	42.066

Southern Channel 1 1/2 mile W
Holme Station 3 . W
 1907. *Burnley Station 3 -*

H.W.

RAINFALL at Barnby Swinden UpperCounty of Central LancashireObserver W. WilliamsonS. Rawlinson Esq. 1918River Basin Ribble + C 1

Rain Gauge, by _____

Diameter ...	8												
Height	12 0												
Altitude ...	820 7												
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	Sum	16-19
January ...	5.81	2.48	5.43	5.38	4.22	6.70	4.29	3.12	3.07	6.03		651	
February ...	5.42	5.20	2.04	2.30	4.03	7.10	5.47	.97	5.96	1.95		1435	
March	1.30	2.24	5.65	6.54	5.13	2.15	3.99	3.28	1.93	6.50		1570	
April	3.93	2.56	1.20	6.15	1.52	2.31	3.19	1.99	1.30	2.45		893	
May	2.74	3.14	2.73	4.50	2.36	1.77	3.17	2.09	2.55	1.94		975	
June	2.95	5.66	6.88	2.37	2.28	.94	3.03	2.69	2.37	1.63		972	
July	4.07	.49	5.54	1.72	3.82	4.87	2.97	1.82	3.54	2.59		1092	
August	6.54	2.61	7.46	2.62	2.95	4.81	3.86	8.36	3.56	3.68		1946	
September ..	.51	3.84	2.43	1.55	3.06	.96	2.18	2.52	11.12	1.97		1779	
October ...	3.98	4.20	4.83	2.22	2.85	1.65	8.86	7.54	4.06	3.11		3357	
November ..	5.28	5.08	4.26	5.67	7.02	2.53	4.34	3.97	3.18	4.20		1569	
December ...	6.07	8.57	5.33	3.00	8.28	8.04	4.28	3.10	7.78	6.97		2213	
TOTALS ...	48.60	46.07	53.75	44.02	47.52	43.86	49.63	41.45	50.42	43.02			

+ Inspected

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.

RAINFALL at Burnley Swinden Upper GaugeCounty of LancashireObserver S. Paulinsson Esq.River Basin Ribble & C.Burnley Corp. Water Dept.Spauldier Rain Gauge, by
(126)

Diameter ...	8											
Height	12.0											
Altitude ...	820											
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 1930	
January ...	5.04	8.32	4.55	4.83	3.44	4.41	5.74	4.65	11.19	2.17	7.61	62.35
February ...	3.71	.57	4.10	7.34	1.32	8.08	4.10	2.52	5.72	1.00	.90	40.06
March	4.32	3.73	3.54	2.10	1.52	1.76	2.12	4.42	4.44	1.18	3.31	32.44
April	6.86	1.93	4.22	4.28	2.41	3.62	2.22	3.24	1.38	1.44	3.96	35.26
May	5.88	2.93	2.21	4.04	5.13	4.52	3.93	1.47	1.72	3.24	2.81	35.88
June	2.30	.26	2.91	1.21	2.97	.11	3.95	3.81	7.06	1.83	2.29	28.70
July	6.96	2.40	5.29	5.49	4.33	1.89	2.70	4.14	1.86	2.96	5.93	43.95
August	2.17	6.33	6.44	6.19	6.35	4.49	4.26	7.14	6.84	4.13	7.98	62.32
September...	2.87	2.19	4.32	6.26	5.53	3.88	3.50	6.25	1.02	1.44	4.21	41.77
October	2.97	3.04	1.53	5.94	4.74	6.24	3.47	4.99	6.55	6.11	7.06	52.64
November...	2.77	2.39	3.01	7.00	2.82	2.93	8.27	5.14	6.70	8.98	6.74	36.75
December...	3.72	6.75	5.57	4.36	6.68	4.18	1.96	1.61	3.24	10.67	5.32	54.06
TOTALS...	49.57	40.84	48.39	59.04	47.24	46.21	46.22	49.38	57.72	45.75	58.12	

Position of Station on reduced Ordnance Survey Map, 2 miles 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
1926			Burnley	3 m.		Burnley	3 m.	

RAINFALL at Burnley (Swinden) Upper g.

County of Central LancashireObserver S. Rawlinson Esq. C.E.River Basin Ribble & C - 1J. Shephard Esq. Advt. (1933) C.E. (90)Type of Gauge Slougher No. 1927Annual Average 43.6 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. 5

664446/26.

Diameter	4.										5
Height	12.0.										0 6 1.0
Altitude	820.										811
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	5.98	5.84	3.80	4.62	2.30		3.69	6.00	6.85	2.81	
February	5.28	4.2	4.01	5.8	6.62		5.83	2.06	4.80	1.84	
March	4.9	2.99	2.68	3.44	1.70		2.07	2.08	2.98	3.01	
April	4.09	3.52	2.11	3.39	3.14		3.39	8.9	2.21	3.62	
May	2.80	4.84	2.72	3.72	1.36		2.35	4.15	1.67	1.09	
June	6.32	1.15	1.93	2.62	4.45		1.95	4.41	3.23	.89	
July	4.20	4.44	3.23	2.65	1.83		1.83	4.99	7.02	4.81	
August	5.14	1.39	1.57	4.60	1.79		2.00	5.55	3.38	2.43	
September	4.75	6.33	2.72	4.47	7.58		2.21	2.03	1.56	3.97	
October	2.61	6.97	4.78	5.61	9.49		2.59	10.18	2.41	4.72	
November	8.14	3.14	3.29	5.45	5.17		2.35	7.42	7.44	7.77	
December	2.49	2.42	.70	7.30	3.26		2.73	5.70	3.11	4.81	
TOTALS	52.29	43.76	33.54	45.35	48.64	N.R.	33.09	55.46	44.46	41.77	
	D.	D.	D.	D.	D.		D.	D.	D.	D.	

1936. Identical returns forwarded for Swinden upper & lower gauges in error - the upper gauge being actually out of commission during this period, 1934, 1935. Error assumed notice and is now rectified (see f. 664446/26, letter 29A).

1937. Forwarded 16/9/37 & previously over-exposed. Site good. New g. and turf well recommended.

1937. No. gauge and turf well erected 11/37.

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

Station No. T.F. 2967RAINFALL at Burnley (Swinden) upper G.

41

County of Central LancashireObserver Jack Shephard J.M. 9.10.26 E.River Basin Ribble & C-1Type of Gauge M.O.Annual Average 43.6 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. SFile No. 664446/26

Diameter	5"			574	336						
Height	1'0"				1						
Altitude	811'				41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.66	5.52	7.14	7.20	4.68	5.71	4.89	10.10	3.00	3.96	
February	7.01	2.00	3.37	2.64	5.58	6.77	2.57	3.30	3.95	5.89	
March	4.51	4.24	1.23	.83	1.79	1.60	9.17	2.72	2.15	2.76	
April	2.61	2.12	2.52	2.89	2.65	1.27	5.02	2.90	4.12	3.24	
May	2.33	3.47	3.19	3.43	4.70	1.84	2.81	1.52	2.91	2.21	
June	.50	1.40	3.50	4.05	4.46	3.19	3.20	5.58	.72	2.86	
July	1.64	5.28	3.05	3.19	2.85	3.82	3.93	2.09	2.32	5.35	
August	5.56	3.74	6.61	3.86	3.96	7.48	.25	4.59	4.51	6.76	
September	.70	2.90	4.62	6.83	2.88	8.21	3.17	3.04	1.26	7.62	
October	5.05	7.98	3.05	5.11	6.37	1.20	1.36	2.57	5.94	2.94	
November	2.10	1.27	3.53	8.47	.58	7.14	6.47	2.69	7.10	6.61	
December	3.09	4.50	2.85	5.41	3.22	4.87	4.08	4.67	7.71	3.46	
TOTALS	37.98 D	44.42 D	44.66 D	53.91 D	43.72 D	53.10 D	46.92 D	45.77 D	45.69 D	53.66 D	

416.17

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

RAINFALL at Burnley (Lancaster) Upper Station No. 2967 T.F. 69
 County of Central Lancashire Observer J. Shepherd Esq. C.E.
 River Basin Ribble & C.
 Type of Gauge M.O.

Annual Average 43.6 in. based on 25 years obs. un-weighted. Period of average 1881-1915 Ref. S
48.59 " " 19 " " within 1936-57. " " 1916-50 " S
 File No. 66444.4/26

Diameter ...	5"			574	336						
Height ...	1' 6"				1						
Altitude ...	811'				51						
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	4.91	6.04	1.92	4.79	2.82	6.25	4.41	5.17	3.51	6.45	
February ...	4.66	1.65	2.53	4.11	2.82	1.68	4.42	7.50	.66	4.14	
March ...	5.42	2.12	2.12	3.64	2.96	2.16	4.15	2.27	2.26	1.83	
April ...	2.84	3.33	3.98	.79	2.57	4.32	.33	1.38	3.87	3.42	
May ...	3.00	2.19	2.63	4.04	4.81	2.02	1.73	5.76	2.06	2.25	
June ...	1.63	3.31	3.61	2.90	3.26	2.83	2.12	5.61	3.77	1.18	
July ...	4.28	3.06	6.86	5.45	1.08	5.10	5.52	3.74	3.03	7.17	
August ...	4.94	6.04	6.21	8.72	1.38	12.26	6.77	4.60	.99	6.73	
September ...	2.74	4.44	4.86	5.89	3.59	4.38	6.62	5.60	.26	3.06	
October ...	1.47	5.63	2.61	8.18	3.55	2.49	5.78	4.17	5.86	6.05	
November ...	10.24	2.76	5.69	8.58	3.21	1.87	2.72	1.80	6.21	8.48	
December ...	10.14	4.88	2.24	8.25	6.35	6.41	6.75	3.22	9.14	5.81	
TOTALS ...	56.27	45.45	45.26	65.34	38.40	51.77	51.32	52.82	41.62	56.57	
	D	D	D	D	D	D	D	D	D	D	

WSP. 11th. 1958 960K Good site. Turf wall in good condition

Position of Station on Ordnance One-Inch map : No. of Map 95 National Grid Reference SD 823 334

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge.	Direction from gauge.
1955			Burnley Central	3 1/2 m	E	Worsborough	1 1/2 m	ESE

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	✓	31.33, 37.40	✓	
	—	325-30	✓	✓	