

RAINFALL AT Stannishan

Cheshire.

Observer.....W. Walter.....Rain { By.....Casabelli.....Gauge { 10 in. 2" above wooden standDiameter.....8 1/2.....in.Height above Ground.....3.....ft.....0.....in.Above Mean Sea Level.....88 1/2.....ft.upper mercury - 1.

YEAR.....							1866	1867	1868	1869	MEANS.
January.....								4.59	2.39	3.00	
February.....								5.53	4.29	6.13	
March.....								1.64	5.43	1.56	
April.....								5.93	2.45	2.52	
May.....								2.63	2.22	3.29	
June.....								2.78	4.2	1.58	
July.....							4.81	6.04	.61	1.62	
August.....							6.27	3.12	3.23	3.46	
September.....							7.56	3.09	1.92	7.22	
October.....							2.74	4.43	5.70	4.08	
November.....							6.79	1.28	3.61	5.80	
December.....							7.02	5.91	8.29	5.04	
TOTALS.....								46.97	40.56	45.30	

c c c c

It stands on gentle sloping overland 150 yds from my house and is enclosed in an amphitheatre of hills forming the water-shed of the Ashton & Staley Bridge Water Works. The G is as near as possible in the center

RAINFALL AT *Staleybridge Swineshaw* *Lower*

Lat.....

Lon.....

County of *Cheshire*

Rain Gauge, by.....

Observer

*Mr W. Watts**Mr C. Bevan**Upper Moway - 1.*

Diameter8
Height	3	.0
Altitude	884.0
YEAR	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS,	
January.....	3.60	7.31	5.66	3.46	4.40	5.23	2.78	6.10	5.92	1.67	4.013	
February.....	7.22	4.09	4.76	.78	2.22	1.39	5.36	5.84	1.69	2.71	2.956	
March.....	3.37	1.60	3.38	2.31	5.48	.84	5.79	3.51	3.29	1.92	3.149	
April.....	2.91	4.71	5.10	.81	1.89	2.02	3.64	2.64	2.19	1.86	2.747	
May	2.10	2.92	3.86	2.68	2.76	2.53	1.53	4.06	4.02	2.71	2.917	
June.....	2.45	5.40	7.30	3.21	.91	3.54	4.37	3.56	3.38	5.34	3.946	
July	3.04	5.12	5.60	5.16	1.97	5.14	4.50	5.38	1.03	5.91	4.285	
August.....	2.64	2.26	4.32	3.32	5.48	3.06	4.65	6.50	5.46	7.49	4.718	
September....	4.02	6.15	8.08	3.32	4.46	5.94	4.60	3.23	6.29	3.23	4.932	
October.....	13.94	6.62	5.22	6.20	4.73	5.91	2.78	4.78	4.17	3.08	5.743	
November.....	3.06	2.08	5.28	3.59	5.27	6.78	3.72	6.86	3.19	1.81	4.864	
December.....	2.86	3.08	2.63	1.41	3.68	2.17	6.36	3.79	2.19	3.23	3.140	
TOTALS	45.21	45.34	61.19	38.25	43.25	44.55	50.08	55.75	42.82	40.96	46.740	

C C C

1879 Wall 5'6" high 80,000 N.E.

Motham church 3 miles S.W.

2926

80

RAINFALL AT *Staleybridge, Swinshaw*

Lat. _____

Lon. _____

County of _____

Cheshire

Staff Rain Gauge, by _____

Observer *J. E. Bateman, Esq., F.R.S.*

Upper mercury - 1.

Diameter	8											
Height	3.0											
Altitude	884 ft											
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January ....	.76	.77	4.19	5.81	6.50	2.47	6.59	1.86	2.27	2.58	3.380	
February	3.52	5.20	4.00	2.49	2.36	2.92	.78	.98	1.25	1.84	2.534	
March	3.00	5.75	4.01	.93	2.23	2.90	3.04	1.88	3.14	3.15	3.003	
April	2.11	1.22	4.89	1.66	1.70	1.91	2.97	1.52	3.27	2.82	2.407	
May	2.62	4.74	1.65	1.60	2.11	2.32	8.63	2.80	1.60	2.59	3.066	
June	2.78	1.85	8.89	5.57	1.03	4.22	2.59	.41	3.63	.81	3.178	
July	6.52	4.15	5.65	3.32	4.12	2.26	4.91	2.07	8.09	3.99	4.507	
August	1.72	5.72	4.07	4.22	2.65	2.15	3.22	2.16	4.75	8.05	3.871	
September	6.15	2.92	3.80	7.01	3.69	4.44	4.58	5.12	2.51	4.44	4.436	
October	4.00	4.50	5.15	6.37	3.03	8.24	7.13	3.32	2.18	4.81	4.873	
November	4.83	4.66	8.06	3.90	2.40	4.11	3.18	2.41	7.63	2.40	4.358	
December	6.30	4.60	5.79	4.23	5.65	3.48	6.09	3.53	2.75	3.53	4.595	
TOTALS	44.81	46.08	60.15	47.11	37.47	41.11	53.71	28.06	43.07	41.01	44.208	

N.B. Annual Values, 1881-2, repeated from Survey, 1928

RAINFALL AT

Staley bridge ^{Lower} Swinshaw

Lat. _____

Lon. _____

County of Cheshire

Rain Gauge, by _____

Observer

G. H. Hill Esq C.E.Upper survey - 1.

Diameter	8										
Height	3 0										
Altitude	884 ft										
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January	5.03	4.20	5.22	2.47	3.41	2.41	2.10	1.56	3.72	6.58	3.670
February ....	.82	.86	3.06	8.51	6.60	.86	3.99	2.46	3.99	1.26	3.211
March	5.34	2.47	.53	1.07	4.51	4.55	6.21	4.09	2.81	2.88	3.446
April	1.26	2.18	1.95	1.12	2.21	1.76	2.25	3.52	3.37	4.65	2.427
May	3.80	5.08	8.02	5.40	2.90	1.39	.82	2.35	4.79	3.46	3.801
June	4.98	2.91	5.60	3.82	4.41	3.14	3.79	4.25	4.31	2.18	3.939
July	4.24	5.79	5.05	5.48	4.06	8.86	2.75	2.46	1.30	2.97	4.296
August	6.50	10.47	6.60	4.98	6.57	5.73	4.33	4.84	9.05	3.09	6.216
September....	1.74	6.14	6.19	4.81	1.02	1.95	7.87	5.99	.84	8.64	4.519
October	3.89	7.43	12.34	3.67	7.01	4.30	7.99	2.82	5.96	4.73	6.014
November....	7.66	5.04	5.00	4.14	3.23	3.09	1.76	6.50	3.01	2.11	4.154
December ....	.45	10.33	2.49	4.72	4.73	5.03	5.09	5.23	6.03	2.88	4.698
TOTALS	45.71	62.90	62.05	50.19	50.66	43.07	48.95	46.07	49.18	45.43	50.421

1890 -

N.B. Values rejected from Survey, 1928.

RAINFALL AT *Lower Staleybridge, Limeshaw Reservoir*
 Lat. Lon. County of *Cheshire Lancs. S*
 Rain Gauge, by Observer *G. H. Hill Esq. C.E.*
Trusey H *F. J. Dixon Esq. C.E. (08)*

Diameter ..	8										
Height	3.0									10	
Altitude ..	884									886	
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	4.93	2.48	4.05	4.04	4.23	3.13	4.97	2.15	4.86	3.35	3819
February ..	2.66	1.88	.88	4.63	3.67	2.46	3.12	2.81	4.34	3.35	2975
March ....	.81	3.05	2.88	5.39	2.49	4.90	4.02	4.26	4.35	3.62	3577
April	3.29	3.12	2.49	2.62	3.12	3.06	2.70	2.98	2.72	4.16	3026
May	1.56	1.05	3.35	3.32	3.24	.94	4.05	5.24	2.90	2.41	2807
June	7.15	2.76	1.59	1.95	1.20	4.11	2.15	8.28	1.83	3.59	3461
July	4.78	3.31	2.86	5.10	1.84	3.12	2.81	4.08	7.31	7.83	4304
August	8.87	3.12	5.14	5.33	4.89	4.94	4.36	6.15	3.91	4.06	5078
September ..	1.77	.92	1.28	5.59	1.79	3.24	2.14	1.14	4.57	3.74	2618
October	6.60	4.91	6.76	10.17	1.91	4.68	6.63	7.29	1.39	7.92	5326
November ..	3.34	7.16	2.23	4.97	3.96	4.12	5.83	3.94	3.41	1.99	4095
December ..	6.10	6.06	3.47	1.65	3.43	.99	4.51	4.88	3.87	7.18	4214
TOTALS ..	51.86	39.83	36.93	54.77	35.77	39.69	47.29	53.20	45.46	53.20	4580

Printed in Cheshire all 1908.

1908 Mulbrook Station

H. H. B.

RAINFALL at Lower Limesham ReservoirCounty of South LancashireObserver F. J. Dixon Esq C.E.River Basin Upper Mersey 4E. H. Radding Esq C.E. (12)Sirriola Rain Gauge, by N 3

Diameter ...	7		8								
Height	1.0	3.0	1.0							1.6	
Altitude ...	886 7							884	886		
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	Mean 1910-1919
January ...	4.67	1.39	3.38	3.63	3.82	6.60	4.36	2.93	2.90	4.18	14.37
February ...	5.04	5.72	1.57	1.69	1.97	3.95	5.46	.99	6.02	1.29	13.76
March .....	.77	2.62	5.25	3.96	5.76	2.00	1.73	2.11	1.65	6.06	11.55
April	5.26	3.42	1.51	4.17	1.63	1.73	3.42	1.84	1.77	2.88	9.91
May	3.51	2.27	3.40	3.04	2.75	2.00	3.48	3.34	2.95	2.10	11.87
June	4.29	5.12	5.44	2.90	3.94	2.73	5.46	2.08	2.20	2.82	12.26
July	6.69	.58	5.78	1.14	4.52	5.84	2.66	2.75	5.06	2.69	13.16
August	7.52	4.21	9.00	2.35	4.03	5.23	3.10	6.08	4.17	4.04	17.39
September ..	.34	5.22	2.79	2.02	2.96	1.03	3.56	3.13	10.82	2.42	19.93
October ...	3.91	3.70	4.42	2.06	2.99	1.81	6.24	6.57	3.27	2.99	19.07
November ..	5.23	5.77	4.18	3.98	4.87	2.77	3.40	5.10	2.01	3.56	14.07
December ...	4.62	6.13	5.49	3.32	5.82	6.81	3.76	2.43	8.11	6.69	20.99
TOTALS ...	51.85	46.15	52.21	34.26	45.06	42.50	46.63	39.35	50.93	41.42	178.33
		D	D	D	D	D	D	D	D	D	

f in open
 1912 Dec 1. Res. 8' f fixed in same position as before but only 19' high above ground

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
53.29.22	1.59.43		Stalybridge	2.44.70	W	St James	1.27.40	W

RAINFALL at Lower Swineshaw ReservoirCounty of S. LancashireObserver G. H. Padden Esq. C.E.River Basin Upper Mersey &Water Works Engineer.Shawdon Rain Gauge, by N.S.G.James Wm B. Whiston C.E.

Diameter ...	8											
Height	1 6											
Altitude ...	886											
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. MEANS	
January ...	5.48	7.28	3.18	4.40	3.46	3.17	3.84	4.72	10.29	2.08	5.58	Total 53.48
February ...	4.68	6.0	5.51	4.86	1.14	6.41	3.66	1.71	5.45	1.04	6.4	35.70
March	2.99	3.32	2.78	1.99	1.52	2.03	1.95	5.09	1.94	1.37	2.80	27.78
April	5.10	1.98	3.34	3.30	1.97	2.43	2.30	4.32	1.20	1.92	3.14	31.00
May	7.00	2.25	1.63	4.45	5.69	4.55	5.30	1.23	1.22	3.06	2.21	38.64
June	3.47	5.52	3.50	1.41	3.01	1.09	4.13	5.76	7.53	1.67	4.11	35.20
July	8.52	2.00	5.60	5.29	4.47	2.35	2.43	4.76	2.46	3.55	7.79	49.22
August	3.33	5.61	5.92	4.98	6.59	3.94	5.40	6.12	6.56	6.15	6.24	60.84
September...	3.12	1.20	4.77	4.89	3.77	4.20	3.48	7.24	1.00	2.09	4.62	40.38
October	1.27	2.92	1.26	4.98	5.92	5.34	4.15	3.81	4.23	3.69	6.34	45.91
November...	1.54	2.18	3.41	6.62	2.22	3.31	4.42	4.43	6.91	8.94	5.23	47.21
December...	2.75	6.48	4.41	4.23	4.26	3.65	2.14	1.90	3.08	7.15	2.99	42.04
TOTALS...	49.25	36.34	45.31	51.40	44.02	41.47	43.20	50.14	51.87	44.71	51.69	509.40
	D	D	D	D	D	D	D	D	D	D	D	424

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	53°29'22"	1°59'45"	Stalybridge	2 miles 007 1/2	W	St. James	1 mi 7 1/2	W

RAINFALL at Lower Swineshaw ReservoirCounty of South LancashireObserver M.T.B. Whittson, Esq. C.E.River Basin Mersy - Upper - 4

Type of Gauge

Annual Average 43.6 in. based on 39 years obs. ~~un~~ weighted. Period of average 1891-1915 Ref. 5

705468/26.

Diameter	8.											
Height	1.6.							1.0	1.6	1.6		
Altitude	886.									886'		
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January	6.91	4.93	2.70	3.01	3.02	3.38	4.12	4.92	5.59	2.08		Totals 40.66
February	5.78	4.1	5.35	3.35	5.29	2.66	6.28	1.81	4.33	2.60		34.86
March	4.28	2.90	3.18	3.37	2.43	2.35	2.38	1.57	2.76	3.39		24.81
April	5.11	4.34	2.14	2.45	3.18	1.37	3.62	5.8	2.47	3.25		28.51
May	2.51	4.83	1.89	2.98	7.5	8.1	2.33	4.14	2.61	2.00		24.85
June	6.49	5.9	3.00	2.28	4.01	3.06	2.23	5.10	3.34	1.02		31.12
July	5.05	7.51	4.00	5.17	2.33	4.56	3.59	5.13	7.85	5.99		51.11
August	6.74	1.55	1.61	3.56	2.16	3.38	1.79	4.08	2.32	2.60		29.79
September	5.24	5.13	1.71	3.42	6.01	7.21	2.07	2.16	1.65	4.41		39.01
October	2.42	8.08	5.70	6.30	7.83	5.16	1.81	8.90	2.61	3.74		52.55
November	5.80	3.64	2.03	2.63	4.94	5.39	1.78	5.05	7.33	7.61		46.20
December	2.09	1.99	80	4.88	3.49	4.04	3.24	4.39	4.21	5.43		36.66
TOTALS	54.62	45.90	34.11	40.40	45.44	43.37	35.24	47.83	47.17	44.12		438.20
	2	2	2	2	2	2	2	2	2	2		40.66

open via.

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
1901			Staleybridge	2 1/2 m	W.S.	St. James' Millbrook	1 1/2 m	W.N.

BRITISH RAINFALL ORGANIZATION, EXHIBITION ROAD, LONDON, S.W.7.

Station No. 2936RAINFALL at Lower Swineshead Reservoir

41

County of South Lancashire Observer Mr. T.B. Whitson Esq. C.E.River Basin Mersey - Upper - 4

Type of Gauge

Annual Average 43.6 in. based on 30 years obs. unweighted. Period of average 1881-1915 Ref. SFile No. 705468/26

Diameter	8"			559	762							
Height	1'6"				1			1'0"				
Altitude	886'				41							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	
January	2.29	4.01	4.74	6.67	4.91	5.34	3.36	9.46	2.61	3.41		Totals 46.90
February	5.36	1.74	3.08	2.85	5.08	7.34	(1.54)	2.65	2.20	5.04		36.88
March	4.89	2.26	1.72	.95	1.62	1.36	5.07	1.29	1.98	2.35		23.49
April	2.93	2.04	2.72	3.45	2.66	1.95	3.12	1.54	4.90	4.02		29.32
May	2.64	3.63	2.35	4.78	3.61	1.44	3.47	1.39	3.02	1.62		27.95
June	2.32	1.23	4.02	3.66	5.62	3.96	2.79	5.74	1.18	3.46		33.98
July	2.86	5.10	2.84	4.44	2.17	7.87	3.59	2.58	2.27	3.94		37.65
August	6.47	4.31	6.90	4.13	3.31	4.84	.51	5.49	3.64	4.89		45.09
September	.78	3.14	4.96	6.04	3.31	6.34	2.57	2.83	1.32	6.91		38.20
October	6.02	7.17	3.10	4.13	6.63	.66	.91	3.23	3.66	2.51		38.08
November	3.16	1.09	4.02	7.62	.64	7.20	5.86	2.66	6.76	7.00		46.03
December	3.15	3.89	2.24	3.43	2.72	4.33	4.67	3.13	7.32	3.54		38.42
TOTALS	42.98	40.21	42.69	52.27	42.28	52.63	37.46	41.99	40.86	48.69		442.06
	D	D	D	D	D	D	D	D	D	D		464

1947 Feb part not yet snow

20004

1951 49.24

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

1 mile to 1 inch Series

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

Station No. 2936 TP 28

51

RAINFALL at Lower Swineshaw Reservoir

County of Lancashire

Observer M. S. B. Whitson Esq. C.E.

River Basin Mersey - Upper - 4

Type of Gauge M.K. 1A on inspection

Annual Average 43.6 in. based on 30 years obs. un-weighted. Period of average 1881-1915 Ref. S
44.60 " " 35 " " 1916-1950 X 1916-1950 File No. 705468/26 E 22901/55

Diameter ...	8"			554	762						
Height ...	1' 6"				1						
Altitude ...	886'				51						
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means- Total
January ...	5.08	4.98	2.31	4.50	3.31	5.51	3.36	4.14	3.93	6.19	43.31
February ...	3.50	1.62	3.36	2.94	1.97	1.69	2.90	6.43	.53	3.22	28.16
March ...	5.28	2.77	2.75	2.81	2.25	1.39	4.01	2.55	1.99	1.02	26.82
April ...	2.89	4.07	2.58	1.09	2.19	3.18	1.01	1.33	3.30	2.49	24.13
May ...	1.96	2.49	2.62	3.87	4.17	1.58	1.30	3.39	1.10	2.02	24.50
June ...	1.67	3.32	4.51	3.71	2.94	3.51	2.39	5.38	2.88	1.98	32.29
July ...	4.07	4.21	7.43	7.81	1.42	6.89	5.42	5.39	4.12	8.25	55.01
August ...	6.03	3.28	5.35	7.56	.71	11.88	5.97	4.54	.49	6.33	52.14
September ...	2.98	4.60	2.82	5.43	2.52	3.28	8.45	5.10	.28	3.73	39.19
October ...	1.21	4.73	2.05	8.21	2.71	3.40	5.43	3.42	3.64	4.76	40.06
November ...	7.42	3.40	4.11	5.44	1.92	2.18	2.62	1.68	4.88	5.59	39.74
December ...	6.65	4.19	1.96	6.33	5.41	5.23	5.15	3.34	5.85	4.32	48.63
TOTALS ...	49.24	43.66	41.85	59.70	31.52	49.72	48.01	47.39	32.99	49.90	453.98
	D	D	D	D	D	D	D	D	D	D	

Inspected 9.9.55 Mr. Deeks. Gauge satisfactory, no leaks, measured lat-bottomed.
S.E. of SE but best available. Recommended new gauge measurement & rainfall.

Position of Station on Ordnance One-Inch map :

No. of Map 102

National Grid Reference 5K/43/656494

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.

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
	✓	✓	✓	✓	
	21-19	✓	✓	✓	