

# RAINFALL AT Batley Staincliffe Reservoir

80

Lat. \_\_\_\_\_ Lon. \_\_\_\_\_ County of York N.R.

Rain Gauge, by \_\_\_\_\_

Observer O. J. Kirby Esq.

Cause Aired Calder S.

Diameter . . .												7	
Height . . . . .												1	
Altitude . . . .												4928	
Year . . . . .	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.		
January . . . .													
February . . . .													
March . . . . .													
April . . . . .													
May . . . . .													
June . . . . .													
July . . . . .												1.40	
August . . . . .												3.80	
September . . . .												1.70	
October . . . . .												2.40	
November . . . .												.50	
December . . . .												1.70	
TOTALS . . . .													

Batley Church 1 mile NE

# RAINFALL AT

Batley Hamcliffe Reservoir

Lat.

Lon.

County of

York W.R.

Rain Gauge, by

Observer

O. J. Kirby Esq. C.E.

Use. Air or Galder 8

Diameter ....	7											
Height .....	10											
Altitude ....	498 ft											
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January ....	2.30	1.10	1.50	.60	2.70	2.20	.50	2.60	.70	3.60	1.780	
February ....	.70	.00	2.60	2.70	4.00	.90	.70	2.10	1.00	1.40	1.610	
March .....	1.90	.80	.20	.50	1.90	1.00	3.50	2.60	1.00	1.20	1.460	
April .....	.90	1.60	.30	.50	2.10	2.60	1.30	1.40	2.00	2.10	1.480	
May .....	1.70	2.00	1.80	1.90	1.00	.60	.60	.70	1.80	3.10	1.520	
June .....	1.10	1.30	2.80	1.90	2.30	3.40	2.60	3.20	2.80	1.10	2.250	
July .....	2.40	1.60	2.30	3.40	3.50	5.20	1.20	.30	.50	2.10	2.250	
August .....	3.40	4.10	3.30	1.20	2.50	1.30	1.30	2.20	3.20	.80	2.220	
September....	1.30	1.40	1.90	2.30	.40	.80	4.30	2.80	.20	4.40	1.980	
October.....	.90	2.50	4.10	1.60	5.20	2.80	3.70	1.60	3.60	2.70	2.870	
November....	3.90	2.30	1.10	1.90	1.30	2.70	1.20	1.60	1.60	.80	1.840	
December ....	.60	5.70	1.20	3.50	1.20	2.10	2.70	3.40	2.10	2.50	2.500	
TOTALS . . .	21.10	24.40	23.10	22.00	28.10	25.60	23.60	24.50	20.50	25.80	23.870	

1890 Batley Church 1 1/2 mile NW  
Stone Wall 4 ft high 615 ft E

# RAINFALL AT *Batley Staincliffe Reservoir*

Lat. .... Lon. .... County of *York W.R. Central*

*Half fange* Rain Gauge, by .... Observer *D. J. Kirby Esq C.E.*

*Aire & Calder 8*

Diameter ..	7										
Height ....	1.0										
Altitude ..	492 $\pi$										
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEAN.
January ..	2.88	1.25	1.57	1.81	1.93	.62	2.94	.62	1.29	.88	1.579
February ..	2.94	.55	.94	2.06	3.69	.50	1.06	1.19	.79	.37	1.409
March ....	.56	1.75	.80	3.06	1.69	1.88	1.62	1.31	2.76	2.37	1.780
April .....	.62	1.77	1.62	.63	1.62	1.18	.25	.81	1.36	2.26	1.212
May .....	1.25	1.13	2.12	3.87	1.88	.82	1.63	2.69	2.08	1.62	1.909
June .....	2.56	.66	2.00	1.37	1.44	2.06	2.06	3.00	.98	3.00	1.913
July .....	2.06	2.13	1.50	2.75	1.62	1.56	.69	2.06	2.09	2.91	1.937
August ....	4.94	1.32	3.44	2.31	3.13	3.63	2.00	1.19	1.28	2.00	2.524
September ..	.25	.56	1.07	2.75	.18	1.25	.43	.44	2.54	1.91	1.138
October ....	2.94	1.82	2.40	7.56	.38	1.56	3.82	4.62	1.09	1.77	2.796
November ..	3.44	3.55	1.64	1.18	.94	3.19	2.87	8.07	1.09	.25	2.122
December ..	2.81	3.56	1.87	1.06	1.37	.43	2.13	2.12	.98	3.61	1.994
TOTALS ..	27.25	20.05	20.97	30.41	19.87	18.68	21.50	23.12	18.33	22.95	22.313

1909 *Hickmonduke Station 3/4 mile W*

*Hick*



RAINFALL at Batter Staincliffe ReservoirCounty of W YorkshreObserver J. C. Barnardlongh Esq C.E.River Basin Onne - Aire - Calder 8

"British"

Rain Gauge, by NATB

Old g.

Diameter ...	7										
Height .....	1.0										
Altitude ...	492 ft										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	1.88	.38	3.38	2.00	1.31	3.26					
February ...	1.62	1.87	1.44	.63	1.69	2.76					
March .....	.13	.75	2.31	2.93	2.13	1.27					
April .....	1.87	.88	.31	1.93	.75	.69					
May .....	1.62	1.06	3.44	1.98	.47	1.52					
June .....	4.88	2.56	4.37	.50	2.13	2.42					
July .....	2.37	.00	3.87	.38	2.06	3.70					
August .....	3.13	1.69	5.12	.81	2.00	4.36					
September ..	.13	2.13	1.13	1.75	.81	.44					
October ...	2.00	2.06	2.25	2.44	2.19	1.52					
November ..	2.87	2.75	1.31	1.63	2.81	2.20					
December...	2.75	3.25	2.06	1.50	5.12	6.36					
TOTALS ...	25.25	19.38	31.00	18.38	23.87	30.20					

1914 not printed smaller

See New  
Gauge

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
	53.42.28	1.39.12 W	Hackensworth	1 m	W	Staincliffe	close	r

RAINFALL at Barley Staincliffe ReservoirCounty of W.R. YorkshireObserver J. C. Bamford Esq. C.E.River Basin Don and Calder 9British Rain Gauge, by N+3New

Diameter ...					5						
Height .....					10						
Altitude ...					492						
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1916-19 MEANS Totals
January ...					1.56	3.06	1.68	2.15	1.64	3.77	9.24
February ...					1.68	2.76	4.18	.83	2.96	1.93	9.90
March .....					2.59	1.27	5.85	2.07	1.81	3.64	10.90
April .....					.90	.69	1.11	1.63	1.01	1.32	5.07
May .....					1.06	1.52	2.32	2.20	2.97	2.16	9.65
June .....					2.35	2.42	2.65	1.56	1.33	.72	6.26
July .....					2.67	3.70	1.32	1.33	4.23	2.59	9.27
August .....					2.23	4.36	1.43	4.81	2.16	2.44	10.84
September ..					1.10	.44	1.71	.66	6.98	.67	10.02
October ...					2.41	1.52	4.62	3.66	1.86	2.44	12.58
November ..					3.03	2.20	3.10	1.70	1.20	1.81	7.81
December...					5.72	6.36	2.21	1.51	4.68	3.64	12.04
TOTALS ...					27.30	30.30	30.21	24.11	32.33	26.93	113.58

1914 nothing but hail years

Date.	Lat. N.	Long. W.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
	53 42.28	1 39.12	Hickmankirk	1 m	<sup>W</sup> E	Staincliffe	clase	W

RAINFALL at Batley Staincliffe ReservoirCounty of N. R. YorkshireObserver J. C. Barnouclough Esq. C.E.River Basin Cuse-Aire- Calder &W. H. Duckworth & Co. 1924.British Rain Gauge, by N. J.Engineers Batley

Diameter ...	5											
Height .....	10											
Altitude ...	492											
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEANS.	1920-30 TOWNS
January ...	2.61	2.92	2.95	1.38	1.68	2.27	2.28	1.69	5.09	1.56	3.70	28.13
February ...	2.42	1.0	2.28	4.02	.37	3.56	2.14	.76	2.80	.33	.68	19.46
March .....	1.69	.75	1.67	1.55	1.24	.91	.66	1.90	2.02	.21	2.32	14.92
April .....	2.98	.96	2.96	1.74	1.26	2.26	1.27	1.98	0.80	1.00	2.28	19.29
May .....	3.23	1.25	.96	2.92	4.04	5.06	2.58	1.57	2.35	1.42	1.41	26.79
June .....	1.93	.08	1.55	0.58	1.50	.08	2.99	1.89	4.50	.88	1.71	17.49
July .....	6.02	.45	3.47	4.62	2.58	1.52	2.78	3.02	0.56	2.24	4.91	31.97
August .....	1.67	3.52	5.15	3.26	2.33	2.79	3.14	4.91	5.32	2.27	3.18	35.54
September...	1.09	.97	3.28	1.95	2.90	2.46	1.35	3.50	0.54	.62	3.98	22.44
October .....	2.12	1.41	.73	2.14	3.50	2.77	2.73	2.19	4.25	2.37	3.05	27.26
November...	1.20	1.94	1.45	2.97	1.92	1.78	3.35	3.20	5.76	4.61	3.03	29.21
December...	2.54	3.19	2.42	2.48	2.35	3.31	.90	1.91	1.27	5.06	2.23	28.16
TOTALS...	29.50	17.34	29.37	29.61	25.67	28.77	26.17	28.52	30.66	22.57	32.48	300.66
	D	D	D	D	D	D	D	D	D	D	D	✓

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°42'28"	1°39'12"	Heckmondwick	1 mi	W	Staincliffe	Close	



RAINFALL at Batley (Staincliffe Reservoir)County of West Riding Observer W. H. Duckworth, Esq., C.E.River Basin Ouse - Aire - Calder - S. N.P. JoyceType of Gauge 25.3Annual Average 24.1 in. based on 18 years obs. un-weighted. Period of average 1891-1915 Ref. 5Gauge being replaced (date) = 1915 (date)

820633/28

Diameter	5.										
Height	1.0.										
Altitude	492.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1931-40 Mean Totals
January	1.99	1.70	1.59	1.73	1.33	2.79	3.48	2.95	4.83	(2.09)	24.48
February	2.92	2.24	2.83	1.18	2.67	2.51	3.67	.71	1.58	2.65	19.96
March	.29	1.54	1.98	2.13	1.01	1.88	3.19	.35	1.81	2.22	16.40
April	3.90	2.34	2.64	2.70	3.30	1.44	2.54	.12	1.26	2.62	21.86
May	2.71	4.92	2.86	.99	.56	1.33	2.68	3.22	1.37	0.71	21.35
June	5.66	.22	1.73	1.82	2.40	4.04	1.19	2.19	2.12	0.37	21.74
July	3.28	3.66	3.01	1.70	.91	2.69	1.94	3.72	6.51	3.02	30.44
August	4.15	1.12	0.58	1.02	2.33	1.80	1.09	3.30	1.21	0.52	17.12
September	4.45	1.52	1.68	1.65	4.95	3.16	1.32	2.16	.90	2.09	23.88
October	.94	3.82	3.28	2.13	5.28	2.72	2.67	4.67	2.36	3.42	31.29
November	3.98	1.42	1.89	2.06	4.72	3.59	1.81	3.83	4.13	4.68	32.11
December	.90	.67	0.62	4.22	2.24	1.64	2.24	3.18	1.66	1.70	18.97
TOTALS	35.17	23.17	23.89	22.33	31.70	24.59	27.82	30.40	29.74	26.09	279.60
	D	D	D	D	D	D	D	D	D	D	

1940 Jan: part est'd.

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
1931			Heckmondworth	1 mile	SW	Staincliffe	close to reservoir	SW

Station No. 3244

RAINFALL at Batley (Staincliffe Reservoir)

41

County of West Riding

Observer H. P. Joyce, Esq. C.E.

River Basin Ouse-Aire Calder-8

Type of Gauge

Annual Average 25.3 in. based on 18 years obs. un-weighted. Period of average 1881-1915 Ref. Encl 75 in file

File No. 820633/28

Diameter	5"			0.79	6.13							
Height	1' 0"				1							
Altitude	492'			41								
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	1941-50
January	2.87	1.88	3.50	3.36	2.29	2.58	2.01	6.25	1.07	1.07	26.88	
February	3.42	1.09	1.11	1.10	2.61	3.29	(3.00)	1.81	1.29	4.27	32.99	
March	3.54	1.41	.56	.30	.30	1.49	5.33	.95	.91	2.17	16.96	
April	2.36	1.27	1.19	1.87	1.88	1.22	2.39	2.13	2.45	3.11	19.87	
May	1.68	2.70	2.23	1.81	3.79	2.06	3.44	.86	1.74	1.86	22.08	
June	.62	1.00	1.77	1.93	2.66	1.84	2.60	3.27	.61	.92	17.22	
July	1.33	1.49	1.21	2.58	2.25	2.96	1.53	.81	3.51	2.20	19.87	
August	3.25	2.75	2.11	2.80	2.38	4.50	.27	3.56	2.39	4.12	28.13	
September	.28	1.37	2.97	3.97	1.17	3.99	1.33	.88	.98	3.25	20.19	
October	3.16	2.22	1.84	2.60	3.75	.54	.86	1.19	2.83	1.24	20.23	
November	2.87	1.17	1.92	4.69	.22	5.18	2.58	.96	4.02	4.22	27.83	
December	.84	1.71	1.27	2.55	1.66	2.32	2.78	2.22	3.52	1.60	20.47	
TOTALS	26.22	20.06	21.68	23.56	24.87	31.97	28.12	24.89	25.32	30.03	262.72	
	d.	D	d	d	d	p	d	2	p	D		

1947 Feb. ext. 3 for snow

20004

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			Heckmondwike	1 m.	S.W.	Staincliffe	near reservoir	

BRITISH RAINFALL ORGANIZATION



Station No. 3244

RAINFALL at BATLEY (ST. MICHAEL'S RESERVOIR)

51

County of Yorks W.A. Observer H. P. JONES, Esq. CERiver Basin 8 - Ouse - Aire & Calder

Type of Gauge

Annual Average 25.3 in. based on 18 years obs. un-weighted. Period of average 1881-1915 Ref. End. 28 file  
27.33 " " 35 " " 1916-1950 1916-1950 PFile No. 622.6.33/28

Diameter ...	5"		079	613								
Height ...	1'0"			1								
Altitude ...	492'			51								
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	Total
January ...	2.56	2.28	.69	2.53	1.74	3.42	1.40	4.19	2.62	5.16		26.59
February ...	2.73	.74	1.66	2.11	1.43	1.26	2.47	4.89	.13	1.64		19.06
March ...	3.37	1.78	.96	1.87	3.21	.71	1.47	2.05	1.06	1.82		18.30
April ...	1.12	1.24	2.23	.24	0.71	2.22	.16	.42	3.44	0.93		12.71
May ...	4.41	2.18	1.50	3.34	2.28	.68	1.24	2.87	.92	1.28		20.70
June ...	.88	1.57	2.66	1.54	1.55	2.06	1.45	5.03	1.70	.64		19.08
July ...	2.99	1.24	3.01	1.71	.68	4.28	3.10	4.49	2.86	2.98		27.34
August ...	4.43	2.06	3.55	5.39	.42	6.55	4.71	3.78	.38	5.21		36.48
September ...	1.86	1.81	1.44	2.63	1.06	3.38	3.94	2.43	.29	3.19		22.03
October ...	1.04	3.96	1.82	4.11	1.72	1.31	1.71	1.88	2.15	6.67		26.37
November ...	6.57	1.47	2.25	4.44	1.81	.66	2.11	.85	3.63	5.42		29.21
December ...	2.76	1.96	1.32	2.86	3.23	3.07	1.42	3.63	3.78	2.74		26.77
TOTALS ...	34.72	22.29	23.09	32.77	19.84	29.60	25.18	36.51	22.96	37.68		284.64
	D	D	D	D	d	D	D	D	D	D		

1951 Rain gauge 5' 6" high gives same gauge as between 20' to 20' on 19 July (see 35A file)

Position of Station on Ordnance One-Inch map : No. of Map ..... National Grid Reference SE 44 229226 (Bk of Abernethy)

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge.	Parish Church.	Distance from gauge.	Direction from gauge.
1951.			Heckmondwike	1m.	SW.	St. Michael's		

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
	C 1914	✓	✓	✓	
	✓ but 16.17.18	✓	✓	✓ but 24.1.46	