

RAINFALL AT Longbirkworth Reservoir

W.R. Yorks

Observer W. Greenwood Esq.

Rain { By
 Gauge Diameter 8 in. Height above Ground, ft. in. Above Mean Sea Level. 853 ft.

YEAR.....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January.....									3.51	5.00	
February.....									4.79	6.32	
March.....									3.88	2.95	
April.....									2.02	2.41	
May93	5.84	
June16	.98	
July47	.28	
August									2.54	1.82	
September....									3.74	4.80	
October.....									3.98	2.95	
November.....									3.16	3.00	
December.....									9.74	5.20	
TOTALS ...									38.92	39.55	

RAINFALL AT Ingberworth Reservoir

70

Lat.....

Lon..... County of York.....

..... Rain Gauge, by.....

Observer W. Greenwood Esq.

Diameter.....	8	8									MEANS.
Height.....	1.4	1.4									
Altitude.....	853	853									
Year	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	
January.....	3.47	1.99	5.63	3.56	2.52	4.50	1.34	5.62	3.54	1.19	3.336
February.....	2.96	3.72	4.09	.82	1.69	1.54	4.41	3.62	1.51	3.21	2.757
March.....	3.07	1.27	2.58	3.22	4.11	.74	5.83	2.74	1.92	2.02	2.750
April.....	71	3.27	3.92	.63	1.89	1.32	3.07	3.67	1.75	3.49	2.372
May	1.86	1.60	2.61	2.37	1.43	2.08	.99	4.53	5.26	2.55	2.528
June.....	2.43	3.88	4.00	1.75	.48	5.09	3.49	2.10	4.23	5.08	3.253
July36	3.35	4.33	2.19	1.56	5.95	2.16	3.33	1.23	5.14	3.260
August.....	1.16	1.94	3.16	2.79	3.22	3.90	2.78	6.26	8.00	5.39	3.860
September.....	1.97	5.79	6.24	2.86	3.00	3.86	5.04	4.93	3.73	2.40	3.982
October.....	10.01	3.23	6.69	3.64	4.84	6.39	3.20	3.92	3.55	2.07	4.454
November....	2.53	1.65	5.86	2.84	3.06	5.28	4.72	5.87	3.02	2.29	3.712
December....	3.75	1.60	4.81	.83	3.00	1.90	8.76	4.05	1.80	3.00	3.350
TOTALS.....	34.28	33.29	56.92	27.50	30.80	42.55	43.79	50.64	39.54	37.83	39.914

RAINFALL AT Fluistone, Ingleside, Yorks.

Lat. _____

Lon. _____

County of Yorks

Rain Gauge, by _____

Observer W. Greenwood, Esq.

Gauge - Don of

Diameter 8

Height 1.4

2.2 3.0 1.3 1.0

Altitude 853 T

850 M 853

Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January21	.43	4.19	6.55	7.32	2.47	5.31	1.96	1.44	2.07	3.195
February	4.64	4.61	2.97	3.95	2.92	4.36	1.21	.61	1.06	1.89	2.822
March	3.98	4.41	3.22	1.36	2.21	3.57	3.37	1.11	3.77	4.15	3.109
April	2.08	1.02	4.03	3.37	1.85	2.46	3.11	.64	4.05	4.36	2.697
May	3.22	2.75	1.60	1.51	2.52	3.08	7.08	2.14	1.06	3.58	2.854
June	4.57	2.29	4.78	5.33	2.09	3.69	1.06	.23	3.00	.78	2.782
July	6.33	3.79	4.44	4.52	3.33	1.33	5.06	.78	4.96	3.34	3.788
August	2.03	4.93	2.54	2.21	1.36	1.42	1.76	1.55	4.02	3.73	2.555
September	5.27	4.07	3.18	6.82	1.78	4.83	1.81	3.14	1.93	2.50	3.538
October	7.13	6.31	4.61	4.73	1.59	8.12	5.49	3.16	1.71	6.72	4.957
November	4.46	4.26	8.65	3.79	1.62	3.23	2.11	2.71	10.34	1.50	4.267
December	5.08	4.23	5.95	1.84	5.10	1.26	6.08	2.38	2.56	2.59	3.707
TOTALS	H9.00	4310	50.16	45.98	33.69	39.76	43.45	20.41	39.90	37.21	40.266

RAINFALL AT Penitance Ingbrichworth Reservoir

Lat.

Lon.

County of York W.R.

Rain Gauge, by

Observer J. H. Taylor Eng. Ch.

Quare. Don 4

Diameter	8									
Height	1 3									
Altitude	853 ft									
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899
January	5.10	2.95	2.28	1.54	3.41	3.86	1.13	2.74	1.66	5.40
February	1.27	.16	3.83	4.74	6.39	.59	1.49	3.91	2.72	1.77
March	3.27	2.45	1.30	.62	2.81	2.68	4.46	4.70	1.65	1.45
April	1.42	3.20	1.74	.79	3.19	2.84	1.87	3.34	3.32	2.66
May	3.97	4.19	4.04	2.28	1.73	.73	.62	.81	3.81	2.96
June	2.89	2.83	4.32	1.54	3.26	3.63	3.64	3.83	2.23	1.98
July	2.83	3.17	3.57	3.78	3.73	5.45	1.03	1.22	1.04	2.20
August	4.61	6.62	3.31	2.61	2.87	2.51	1.84	3.34	3.96	1.16
September	2.66	4.07	3.34	2.01	.90	.70	7.49	2.70	.66	4.82
October	1.95	5.25	7.82	2.01	5.87	4.37	5.02	1.71	5.13	3.45
November	5.62	3.73	2.28	2.64	2.45	5.00	1.67	4.66	3.14	2.10
December	1.38	8.07	.92	4.48	2.08	3.65	4.46	4.41	4.82	3.17
TOTALS	36.97	46.69	38.75	29.04	38.69	36.01	34.72	37.37	33.54	33.12
										36.500

1890 -

RAINFALL AT Penistone Ingbirchworth Reservoir

Lat. Lon. County of York w.R. Southern
 Standard Rain Gauge, by Observer J H Taylor Eng Cl.

Date Don't.

Diameter ..	8										(5)
Height	1.3										
Altitude ..	853 ft										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	4.06	2.11	2.04	3.85	4.35	.96	4.77	1.36	2.63	2.12	28.25
February ..	4.89	1.40	1.46	4.76	5.69	1.89	3.10	2.45	2.42	1.78	29.84
March90	3.21	1.37	6.23	2.90	3.41	2.80	2.67	3.92	4.28	31.64
April	1.82	1.90	2.56	2.21	2.25	2.82	.80	2.74	2.47	2.14	21.71
May	1.86	1.43	3.18	4.01	3.06	.66	2.99	5.29	3.09	1.60	27.17
June	2.97	1.06	1.67	1.92	1.40	2.88	2.79	4.86	2.64	4.90	27.09
July	2.60	4.78	2.33	2.68	2.46	1.52	2.00	2.16	3.53	4.73	28.79
August	6.22	1.32	4.23	3.15	4.45	3.97	2.28	2.83	3.41	2.46	33.82
September ..	.63	.53	2.53	5.84	.97	1.77	.62	.40	2.46	2.89	18.64
October	4.22	2.07	4.52	10.39	1.08	2.61	7.75	6.80	1.87	3.87	45.18
November ..	2.69	4.61	2.70	2.14	2.29	5.54	4.50	3.25	1.84	1.23	30.79
December ..	4.78	5.73	3.88	2.33	2.56	.87	2.57	3.20	1.63	5.88	33.43
TOTALS ..	376.4	30.15	32.47	49.51	33.46	28.90	36.97	37.51	31.91	37.83	35.635

1907 Penistone Church 3 1/2 miles ~

Station 20

Nothing near

RAINFALL at Penistone Ingburworth Reservoir

County of W.R. Yorkshire

Observer J.H. Taylor Esq. C.E.

River Basin River Don 7

Rain Gauge, by

Diameter ...	8										
Height	1.0										
Altitude ...	853 ft										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	4.46	2.18	5.15	4.27	2.37	6.02	3.51	2.45	2.41	4.28	
February ...	4.11	4.14	2.07	1.52	2.76	4.66	7.12	.63	4.34	2.43	
March66	1.84	3.60	5.76	3.51	.67	5.92	2.56	1.39	4.06	
April	3.51	1.64	.81	3.89	1.13	1.55	1.79	1.99	1.37	1.59	
May	3.84	1.08	4.14	2.72	1.88	2.09	2.94	2.26	3.74	1.76	
June	3.53	3.06	4.39	1.49	4.14	1.15	3.32	1.96	1.18	.65	
July	3.71	.14	6.63	1.46	3.35	4.39	2.69	1.33	2.70	3.56	
August	4.62	2.90	6.96	1.37	2.12	4.43	2.28	5.86	1.32	2.99	
September ..	.24	2.53	2.04	2.76	1.86	1.07	1.98	1.47	9.44	1.77	
October ...	3.28	3.81	3.54	4.93	2.73	1.88	7.01	4.79	2.35	3.36	
November ...	4.70	5.05	3.36	2.98	5.62	3.36	5.04	2.40	2.09	2.84	
December ...	5.09	5.39	4.22	2.84	8.14	8.44	3.42	1.82	4.80	5.28	
TOTALS ...	41.75	33.76	46.91	35.99	39.61	39.71	47.03	29.52	37.13	35.12	

too low, leaking
(Barrowley 1922)

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

RAINFALL at Penistone, Ingliston Res.

County of Yorkshire W.R. Observer J.R. Fox, Esq. C.E.

River Basin Base - Dist. 7 Water Engg. Board

Rain Gauge, by

NEW GAUGE

Diameter ...		5	8	5							
Height			1.0		1.0						
Altitude ...			853		853						
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS
January ...			2.39	2.37	4.27	5.22	2.74	9.88	1.62	6.59	
February ...			4.77	1.03	5.47	2.70	1.44	5.52	4.42	1.99	
March			2.07	.90	1.95	1.21	4.56	3.22	.31	3.16	
April			2.42	2.03	3.57	2.72	4.70	1.57	1.83	3.99	
May			3.94	3.45	5.15	3.66	1.38	2.23	2.51	1.98	
June			0.98	1.38	.08	3.63	4.22	4.34	1.29	2.84	
July			3.21	2.58	1.05	3.89	3.56	1.21	3.17	6.85	
August			3.55	1.44	3.89	2.96	6.46	3.80	3.14	4.76	
September... See old gauge.			3.04	3.01?	3.11	2.15	5.71	0.27	1.14	5.42	
October.....			3.57	4.40	4.26	4.12	4.88	5.94	4.99	5.38	
November...			1.82	6.71	3.07	2.96	6.16	5.66	7.77	8.89	5.12
December...			2.85	3.09	4.26	5.07	1.51	2.35	3.35	9.94	3.61+
TOTALS...			114	39.94	29.93	40.83	39.93	47.66	49.15	39.26	50.72

1922. New g. cruced as check.

1923. The obs. says "The total of this g. is below (especially the months of July - Oct.) compared with the other gauge, that, nothing was found wrong - the readings are open to suspicion."

Position of Station on reduced Ordnance Survey } No. of Map _____ Reference No. _____
Map, 2 miles to 1 inch Series

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

RAINFALL at Penistone Ingberworth Reservoir

County of W. R. Yorkshire

Observer J. P. Fox Esq. G.E.

River Basin Guse-Dow 7

Water Eng'g Barnsley

Gauge Rain Gauge by

old gauge

Diameter ...	9	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS.
Height	1 0											
Altitude ...	953											
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929		
January ...	4.21	3.66	3.99	2.59								
February ...	3.41	1.17	3.09	5.46								
March	2.66	1.94	2.55	2.18								
April.....	5.63	1.68	4.42									
May	4.29	1.82	1.74									
June	3.68	1.11	1.37									
July	6.23	1.91	3.34									
August	1.28	3.74	7.01									
September...	1.38	1.25	3.73									
October.....	2.44	1.43	1.15									
November...	1.83	1.79	1.81									
December...	3.48	5.54	2.81									
TOTALS...	40.52	21.64	36.01	d								

see new gauge

(1920) small. of baby vs. (Barnsley 1920)

Prospectus 1921. A perfect site on flat roof of well. G. leaking both under flange and through a dent, and apparently through bottom of receiver. New gauge to be erected as soon as practicable.

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	Parish Church.	Distance from gauge

RAINFALL at Penistone (Ingbirchworth Res.)

County of West Riding.

Observer J. R. Fox, Esq., C.E.

River Basin Ouse - Don - 7

W. G. Head Esq., C.E. (1936)

Type of Gauge.....

Annual Average 38.2 in. based on 7 years obs. un-weighted. Period of average 1881-1915 Ref. S. 660870/26

Diameter	5.											
Height	1.0.	9										1'6"
Altitude		853.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January	3.68	4.63	3.99	3.98	1.87	2.96	5.28	4.57	5.17	(3.87)		
February	4.71	3.34	7.63	1.18	5.07	3.22	4.28	1.28	2.40	2.61		
March	3.38	2.46	2.03	4.28	1.31	2.91	2.87	1.45	3.21	2.73		
April	5.49	4.36	1.51	2.96	3.30	1.36	2.92	1.39	1.81	3.00		
May	2.84	6.29	2.32	2.19	2.29	1.25	3.06	3.20	2.33	.66		
June	4.91	1.72	2.52	1.36	3.38	4.81	1.85	2.57	2.67	1.70		
July	3.54	4.47	2.65	2.20	1.94	3.27	2.10	3.51	1.02	3.39		
August	6.49	2.33	0.73	1.25	2.28	1.92	.55	3.13	1.48	.76		
September	4.59	2.49	3.03	3.04	5.45	3.94	1.54	2.65	1.67	2.26		
October	1.10	6.47	5.22	4.03	7.14	4.64	3.62	7.36	3.37	5.04		
November	5.76	3.64	2.11	2.22	6.42	4.83	1.92	4.28	6.44	7.39		
December	1.86	1.42	0.59	4.63	2.55	3.69	2.40	3.38	3.25	2.99		
TOTALS	45.35	39.62	34.33	32.32	40.00	37.90	31.42	36.97	31.84	34.90		

Described 1940. Site excellent apart from rim being 1'6" above ground.

No change suggested.

1940 Jan. corrected for snow.

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	Parish Church.	Distance from gauge	Direction

Station No. T.F. 3169

RAINFALL at Penistone (Kingbirstwith Res) ✓

41

County of West Riding

Observer W. G. Head, Esq., C.E.

River Basin Once-Dam 7

Type of Gauge

P.A. 487

Annual Average 32.6 in. based on 7 years obs. unweighted. Period of average 1881 - 1915. Ref. S

E 1182/1/10
File No. 668870/26

Diameter	5		081	698							
Height	1	6			1						
Altitude	553				61						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	3.99	3.11	5.27	6.16	3.80	4.75	3.53	3.36	1.50		
February	4.64	1.23	2.66	1.81	3.82	4.87	3.94	2.35	2.23		
March	5.18	1.93	1.70	4.9	9.6	1.86	6.51	1.53	.91		
April	2.62	1.49	2.33	2.28	2.28	1.91	4.32	2.27	3.67		
May	3.00	3.33	3.01	2.70	5.30	2.59	3.02	1.48	2.32		
June	.59	1.20	2.06	1.82	3.03	3.80	2.61	3.66	.50		
July	1.80	2.90	1.60	2.66	1.80	3.21	1.84	1.19	4.57		
August	3.72	4.66	3.14	3.28	3.17	4.08	.39	5.01	2.04		
September	.40	1.90	3.99	5.36	1.50	5.38	1.51	1.23	1.34		
October	4.33	3.38	2.45	4.09	5.93	1.46	1.02	1.68	3.98		
November	3.46	1.44	2.86	6.84	4.45	6.82	4.17	1.01	5.41		
December	1.59	2.66	1.79	3.77	2.44	3.59	3.80	3.83	6.23		
TOTALS	35.22	29.29	32.86	41.26	34.48	44.32	36.66	33.90	34.70	N.R.	
	D	D	D	D	D	D	D	D	D		

N.S. Second gauge set up 12-15 ft in Jan 1949 SN 3169/11
 based on 1949 only this record appears to be
 2"-3" low but taken as homogeneous record

J.W.W.
7/72
 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

Station No.

3169/1

T.F.

RAINFALL at Penistone (Ingleby Cross Res.)

41

County of West Riding

Observer W. J. Lees, Esq., C.E.

River Basin Ouse - No. 7

Type of Gauge

Annual Average..... in. based on..... years obs. un-weighted. Period of average..... Ref.....

File No. E 1824/50.

Diameter				081	698					5
Height					1					10
Altitude					41					853
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950 Means
January									1.73	2.84
February									2.44	6.84
March									1.01	1.67
April									3.86	4.02
May									2.41	2.73
June									.53	1.05
July									4.84	2.12
August									2.16	3.89
September									1.42	4.89
October									4.04	1.82
November									5.74	6.81
December									7.08	2.11
TOTALS									37.26	38.49

1950 Gauge 12-15 feet w/ 3169.
 Taken as continuation of 3169 from 49
 last 3169 may be 2"-3" low. J. D.
 7/72

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	Parish Church.	Distance from gauge	Direction

RAINFALL at Penistone (Englefield Res.)
 County of West Riding - Yorks. Observer W. G. Lee Esq. C.B.
 River Basin. Don 7
 Type of Gauge. N.L.I.

Station No. 3169/1

51

Annual Average in. based on years obs. un-weighted. Period of average 1916-50
 " 38.76 " " 9 - 1949-57 " " " File No. E 1182/50 F A 1555/57

Diameter ...	5"			081	698						
Height ...	1'0"					1					
Altitude ...	853'					51					
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	3.78	4.35	1.17	3.43	2.91	5.20	2.35	3.77	3.99	6.00	
February ...	3.80	1.00	2.37	3.62	3.54	1.49	2.98	5.36	1.5	2.98	
March ...	4.81	1.82	2.57	2.56	3.04	1.61	2.12	2.79	1.40	2.49	
April ...	2.39	1.88	2.91	.67	.66	2.57	.37	.86	5.51	1.79	
May ...	5.13	2.45	2.52	4.70	3.69	.90	1.17	3.49	.99	2.46	
June ...	1.43	1.78	3.56	1.50	2.52	3.65	1.11	4.78	2.64	1.65	
July ...	2.75	1.89	3.95	3.06	.73	6.69	2.95	5.50	2.30	3.93	
August ...	5.13	2.44	3.90	5.60	.64	7.15	6.30	3.52	.98	4.33	
September ...	2.12	3.43	2.76	3.58	1.11	4.15	4.51	4.10	.16	3.86	
October ...	1.12	6.15	2.12	2.49	2.19	2.15	2.90	3.07	3.35	8.29	
November ...	9.36	2.25	3.35	7.30	2.21	1.54	2.62	.98	4.84	5.54	
December ...	6.33	3.24	1.79	5.65	4.62	4.80	4.60	4.66	7.26	5.34	
TOTALS ...	48.15	32.68	32.97	47.16	27.86	41.90	33.98	42.88	33.57	48.66	
	D	D	D	D	D	D	D	D	D	D	

INSP. APR 1958 J. BOYD Satisfactory

Position of Station on Ordnance One-Inch map : No. of Map 102 National Grid Reference SE 213056

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

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
				C 19.49 / out - .49	