

# RAINFALL AT *Slaidburn, Middle No. 80*

Lat. \_\_\_\_\_

Lon. \_\_\_\_\_

County of *Yorks*

*Wully*

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

Observer *M. P. Barnau, Esq., C.E.*

*J. B. McCallum Esq. C.E.*

*Ribble - 2*

Diameter ....	<i>8</i>											
Height .....	<i>2.6</i>											
Altitude ....	<i>1295 ft</i>											
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January ....	<i>.80</i>	<i>(1.50)</i>	<i>4.50</i>	<i>6.70</i>	<i>8.60</i>	<i>4.20</i>	<i>6.00</i>	<i>2.10</i>	<i>2.42</i>	<i>2.70</i>	<i>3.862</i>	
February ....	<i>4.00</i>	<i>(5.90)</i>	<i>6.50</i>	<i>4.60</i>	<i>4.80</i>	<i>4.30</i>	<i>1.20</i>	<i>2.50</i>	<i>.95</i>	<i>5.12</i>	<i>3.937</i>	
March .....	<i>3.20</i>	<i>11.80</i>	<i>5.90</i>	<i>.80</i>	<i>4.60</i>	<i>5.30</i>	<i>5.60</i>	<i>2.90</i>	<i>2.93</i>	<i>5.20</i>	<i>4.183</i>	
April .....	<i>2.00</i>	<i>3.00</i>	<i>5.50</i>	<i>2.10</i>	<i>.90</i>	<i>1.90</i>	<i>3.10</i>	<i>2.30</i>	<i>2.70</i>	<i>2.40</i>	<i>2.600</i>	
May .....	<i>2.80</i>	<i>5.90</i>	<i>3.00</i>	<i>1.40</i>	<i>4.00</i>	<i>1.90</i>	<i>5.20</i>	<i>2.80</i>	<i>2.00</i>	<i>4.00</i>	<i>3.300</i>	
June .....	<i>6.00</i>	<i>3.70</i>	<i>6.80</i>	<i>5.60</i>	<i>1.10</i>	<i>3.00</i>	<i>2.80</i>	<i>.30</i>	<i>2.10</i>	<i>1.40</i>	<i>3.280</i>	
July .....	<i>6.00</i>	<i>6.50</i>	<i>0.90</i>	<i>5.40</i>	<i>5.70</i>	<i>2.40</i>	<i>9.00</i>	<i>3.50</i>	<i>14.10</i>	<i>4.10</i>	<i>6.760</i>	
August .....	<i>2.60</i>	<i>7.60</i>	<i>5.90</i>	<i>6.00</i>	<i>2.30</i>	<i>2.70</i>	<i>3.90</i>	<i>2.50</i>	<i>5.90</i>	<i>10.10</i>	<i>4.980</i>	
September....	<i>4.50</i>	<i>2.10</i>	<i>3.90</i>	<i>8.20</i>	<i>5.10</i>	<i>8.40</i>	<i>6.50</i>	<i>6.70</i>	<i>2.50</i>	<i>5.40</i>	<i>5.330</i>	
October .....	<i>1.00</i>	<i>3.90</i>	<i>5.30</i>	<i>8.60</i>	<i>5.20</i>	<i>6.30</i>	<i>6.30</i>	<i>3.80</i>	<i>3.00</i>	<i>7.10</i>	<i>5.050</i>	
November....	<i>8.40</i>	<i>6.00</i>	<i>10.50</i>	<i>7.00</i>	<i>3.00</i>	<i>3.90</i>	<i>4.80</i>	<i>3.47</i>	<i>8.50</i>	<i>2.98</i>	<i>6.055</i>	
December ....	<i>8.40</i>	<i>4.70</i>	<i>5.90</i>	<i>7.40</i>	<i>7.30</i>	<i>3.20</i>	<i>4.20</i>	<i>3.52</i>	<i>5.20</i>	<i>5.82</i>	<i>5.564</i>	
TOTALS ....	<i>49.70</i>	<i>57.20</i>	<i>74.30</i>	<i>63.80</i>	<i>52.60</i>	<i>47.50</i>	<i>58.60</i>	<i>36.69</i>	<i>52.30</i>	<i>56.32</i>	<i>54.901</i>	

*N.B. Rejected from Survey as 10" low.*

# RAINFALL AT

Slaidburn Middle Knoll

Lat.

Lon.

County of

York W.R.

Rain Gauge, by

Observer

J.B. McCallum Esq. C.E.  
S.W. Lund Esq. C.E.  
W. H. H. Esq. C.E.

Rubble 2

Diameter ....	8										
Height .....	2 6										
Altitude ....	1298 ft										
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January ....	7.25	1.90	5.80	2.40	5.00	1.95	3.70	1.30	6.60	7.80	4.270
February ....	1.23	1.20	3.49	4.95	6.30	50	3.10	3.70	4.70	3.50	2.267
March .....	5.00	1.30	.30	2.20	3.40	5.00	5.90	6.60	2.90	3.20	2.580
April .....	1.90	2.00	1.20	.60	2.50	3.70	2.30	4.30	3.70	4.40	2.660
May .....	3.03	2.50	5.80	2.40	2.80	.70	1.00	3.20	3.70	4.20	2.933
June .....	5.80	1.30	3.80	2.70	4.40	3.00	4.00	5.50	4.60	1.60	3.670
July .....	5.60	4.70	2.20	5.20	4.10	7.80	5.10	2.70	1.70	3.90	4.200
August .....	7.20	16.00	8.50	5.90	8.30	7.50	4.20	8.60	7.40	1.90	7.550
September....	5.20	6.30	6.80	8.20	.70	1.70	9.70	6.80	2.80	7.30	5.550
October .....	5.52	<del>7.80</del> 5.90	6.90	8.30	6.50	6.80	4.00	2.50	5.70	4.50	5.662
November....	9.40	5.10	4.70	7.00	6.40	5.40	2.20	7.20	5.78	4.50	5.768
December ....	.40	10.60	5.32	4.30	7.15	5.90	7.65	8.90	7.70	4.30	6.222
TOTALS ....	57.53	<del>60.50</del> 58.80	54.81	54.15	57.55	49.95	52.85	61.30	57.28	51.10	55.532

1890 Unreliable.

Corrections sent 17-XI-92

N.B. Rejected from Survey as 10° low.

# RAINFALL AT

*Bladburn Middle Knoll*

Lat. ....

Lon. ....

County of *York W.R. Northern*

Rain Gauge, by .....

Observer. *W. Stubbs Esq. Ch.*

*Riddle - 2. M*

Diameter ..	8											
Height ....	2 6											
Altitude ..	1298											
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.	
January ..	7.40	4.00	6.05	8.50	5.80	5.10	6.60	3.00	7.00	6.00	5945	
February ..	(4.80)	2.50	1.40	7.30	3.20	2.40	3.90	2.80	6.20	4.80	3930	
March ....	.55	4.50	2.20	7.40	3.40	3.80	2.00	5.10	3.10	3.00	3505	
April .....	4.70	2.50	2.10	2.70	5.80	4.40	1.50	3.50	2.40	4.00	3360	
May .....	2.30	.90	3.60	4.40	2.60	1.70	6.50	4.10	4.10	2.90	3310	
June .....	7.50	1.80	1.40	2.40	1.80	3.50	2.60	9.60	3.60	2.10	3630	
July .....	3.50	2.00	7.30	4.90	2.70	4.20	2.80	3.80	5.70	8.00	4520	
August ....	6.70	5.50	4.10	9.20	4.90	5.40	5.30	7.50	5.40	4.90	5890	
September..	4.20	2.80	2.30	7.40	2.40	5.50	2.60	1.20	7.80	3.90	4010	
October ....	9.40	4.40	6.40	13.00	4.00	5.50	10.20	5.30	3.40	8.50	7010	
November..	6.20	8.50	4.20	4.50	6.90	6.60	6.10	4.80	6.00	3.40	5720	
December ..	10.30	5.60	5.30	4.60	3.80	2.30	5.50	6.80	6.00	8.00	5820	
TOTALS ..	67.55	45.00	46.35	76.30	47.30	50.40	55.60	57.50	60.70	59.80	56650	

1900 February Snow estimated

1900 given as 65.55 in PT recd. 1.09.

1904 " 46.00 " "

*N.B. Rejected from Survey as 10° low.*

*Hule*



RAINFALL at Slaidburn Middle KnollCounty of W. R. YorkshireObserver W. Stubbins Esq. C.E.River Basin Ribble 2J. T. Stubbins Esq. C.E. 1915  
A. T. Gooseman Esq. C.E. 1918

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

M

Diameter ...	8											
Height .....	2.6											
Altitude ...	1298 ft								1296	1296		
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	
January ...	6.20	2.10	5.10	5.80	6.10	7.37	7.18	3.12	5.08	8.70		
February ...	9.80	5.80	2.70	2.60	5.30	6.24	4.40	.88	9.30	1.95		
March .....	1.80	3.20	8.60	6.70	6.80	3.60	2.07	2.97	2.25	4.70		
April .....	3.80	4.50	1.90	5.80	2.20	3.40	5.87	2.95	1.00	3.70		
May .....	2.90	4.00	2.40	3.60	4.90	2.00	3.83	2.40	1.58	2.19		
June .....	3.00	5.00	8.60	3.70	1.30	1.00	4.16	3.02	3.23	5.50		
July .....	6.60	1.10	4.30	1.20	4.00	4.50	4.69	2.26	4.63	2.81		
August .....	9.20	4.30	8.10	2.80	3.60	3.95	5.36	10.20	5.67	4.53		
September ..	1.10	4.70	2.20	3.00	4.70	1.18	4.60	6.77	11.59	4.56		
October ...	4.50	5.70	5.60	3.80	2.70	1.61	13.75	6.72	4.84	2.57		
November ...	5.40	9.00	7.10	8.60	8.75	1.78	5.22	5.40	3.53	4.86		
December ...	7.30	9.20	4.60	5.10	6.50	9.11	5.40	3.97	7.13	10.30		
TOTALS ...	61.30	58.70	61.60	52.70	58.85	45.74	66.53	50.66	59.88	58.87		

† 22.11.15 12.12.15. A old rod gauge. Rod not now used but measured in glass from top. 8" shadow funnel set at 2' 10" on very summit of hill. Much exposed. Recommended 3' Wall 10' radius.

NB. Rejected from Survey as 10' low.



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

RAINFALL at Slaidburn Middle KnollCounty of N. R. YorkshireObserver A. L. Goosen Esq. C.E.River Basin Pibble 2

(H. M. Wall Esq. C.E. 1920)

M.O. Rain Gauge, byWater Engs Blackburn.

M

Diameter ...	8								5"		
Height .....	2.6								1'0"		
Altitude ...	1298								1298		
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEANS.
January ...	7.88	9.27	2.84	10.07	3.72	4.30	6.25	3.80	18.47	3.40	9.45
February ...	5.45	6.2	5.72	5.03	1.70	5.14	6.35	3.85	9.20	1.25	.98
March .....	4.08	5.90	4.50	1.95	1.45	1.70	2.40	4.45	4.90	2.25	6.30
April .....	7.02	1.70	3.14	4.06	2.45	3.90	2.95	4.70	1.80	2.45	2.80
May .....	5.46	2.80	1.92	4.18	7.08	4.75	3.70	1.75	.75	3.50	2.10
June .....	3.55	6.3	3.31	1.26	3.60	2.4	4.50	4.70	12.50	3.00	2.55
July .....	6.31	2.46	6.81	7.83	6.60	2.25	4.90	6.45	5.50	6.30	5.90
August .....	3.31	7.00	6.29	8.93	7.62	4.35	4.40	7.90	8.90	9.10	10.10
September...	3.22	2.05	5.76	8.93	7.10	4.50	5.50	14.20	2.50	3.20	4.25
October.....	1.76	3.49	1.39	10.24	6.80	7.90	4.50	5.10	9.10	10.30	12.30
November...	3.21	3.30	4.50	10.50	4.51	3.25	9.00	6.95	11.40	13.10	9.45
December...	6.23	13.15	5.39	6.98	10.70	4.95	2.60	1.25	6.50	12.95	7.50
TOTALS...	57.48	52.37	51.57	79.96	63.33	47.23	57.05	65.10	91.32	71.30	73.68
			M.			M.	M	M	M		

Annual totals approx as, but Mr. Has agreed (1928) to fix standard of gauge at 1 ft.  
 228 Inspected by Mr. Colson see green file  
 New Bradford Staff set up 3 Jan. 1928. This was moved to position recommended by  
 Inspector on 1/12/28. (J.B.A. 2660553/26)

N.B. Average for earlier years rejected from Survey as 10% low.  
 From Jan 1928 average reckoned for new gauge 67.5 VOK.

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	Direction
1930			Belithorse	9 1/2 m.	S.W.	Slaidburn.	3 1/2 m.	S.E.

RAINFALL at Slaidburn (Middle Knoll)County of West RidingObserver H. M. Webb Esq., C.E.River Basin Ribble - 2W. Phipstone Esq. C.E.Type of Gauge M.O. S. SnowdenG. M. E. Kay Esq. C.E. (from 1939)Annual Average 67.5 in. based on 5 years obs. un-weighted. Period of average 1881-1915 Ref. 660553/26

Diameter	5.										
Height	1.0.										
Altitude	1288.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	10.95	10.60	5.10	8.30	3.30	6.00	6.20	11.60	7.80	4.20	
February	10.10	.17	6.45	.55	11.50	2.80	9.00	3.60	7.40	2.80	
March	.95	5.75	3.00	3.65	2.15	4.70	2.20	4.10	4.20	6.70	
April	5.25	6.25	3.40	3.30	4.65	1.30	4.90	1.95	3.70	3.95	
May	2.95	5.85	2.60	4.90	1.25	1.90	2.50	4.80	1.30	2.10	
June	8.30	1.95	3.64	3.25	6.15	4.60	3.90	8.10	5.55	0.85	
July	8.10	5.70	6.20	3.70	3.95	7.00	3.60	7.10	6.40	7.90	
August	5.90	2.85	5.60	8.70	3.80	8.05	3.10	5.30	2.60	5.95	
September	3.40	11.75	1.05	6.70	10.90	7.30	3.60	3.70	2.80	11.45	
October	5.05	10.55	6.72	12.40	14.30	8.55	2.55	19.55	2.90	4.45	
November	13.14	5.75	3.05	2.80	6.10	7.95	1.90	9.50	11.50	10.60	
December	6.30	4.70	0.75	10.80	5.20	9.75	3.35	8.60	3.90	10.10	
TOTALS	80.39	71.57	48.06	69.05	73.25	66.90	46.80	87.90	64.05	71.05	

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
1931			Clietheroe	9½ mls	SSE	Slaidburn	3½ mls	SE



Station No. 3081

RAINFALL at Slaidburn (Middle Knoll)

41

County of West Riding Observer S. MacKay Esq. C.E.River Basin Ribble - 2Type of Gauge Snowdon Bradford 1928 Rtg. fileAnnual Average 27.5 in. based on 5 years obs. un-weighted. Period of average 1881-1915 Ref. SFile No. 660.5.53.26

Diameter	5			573	716						
Height	1 0				1						
Altitude	1288				41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.10	8.70	10.15	10.80	6.30	7.20	5.60	14.02	4.48	7.48	
February	6.75	(2.50)	3.80	3.20	10.10	6.20	1.13	4.60	4.87	7.60	
March	4.10	4.20	2.15	.30	(5.80)	1.70	8.15	(4.25)	3.92	4.68	
April	2.80	3.70	4.10	3.95	(3.90)	1.80	5.30	3.10	6.80	4.33	
May	4.70	5.90	5.30	5.50	4.40	1.95	2.86	(3.52)	2.79	1.90	
June	1.40	1.10	5.80	5.40	7.10	4.40	2.98	8.83	1.19	8.26	
July	2.45	6.10	6.20	5.30	4.40	6.30	5.28	3.86	3.88	7.09	
August	9.20	7.60	10.00	4.75	3.60	(10.81)	.06	(6.28)	4.00	13.09	
September	3.05	6.60	7.20	9.90	4.70	9.90	5.14	7.35	3.65	12.18	
October	8.30	9.35	5.55	9.40	8.50	1.45	1.14	5.83	7.89	8.18	
November	3.10	2.40	4.40	10.70	.60	12.90	6.91	4.42	8.80	7.72	
December	7.70	6.20	5.30	6.40	3.65	7.55	4.20	5.93	7.65	8.17	
TOTALS	54.65	64.35	69.95	76.20	63.05	72.16	48.75 n.p.	71.99	59.92 N.P.	79.68	

1942 February corrected for snow. 14004 00204

1945 March &amp; April approximated

1946 August estimated - gauge leaking

1947 n.p. snow

20004

12204

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			Slaidburn	9 1/2 m.	S. E.	Slaidburn	2 1/2 m.	S. E.

BRITISH RAINFALL ORGANIZATION

Station No. 3081

RAINFALL at Slaidburn (Middle Knoll)

51

County of West Riding - Yorks.Observer L. McKay Esq. C.E.River Basin Ribble - 2Hydro Water Board (1/4/60)Type of Gauge BradfordAnnual Average 67.2 in. based on 2 years obs. un-weighted. Period of average 1881-1915 Ref. S" " 73.92 " " 5 " " 1953-57 " " 1916-50File No. 660553/36

Diameter ...	5"			573	716						
Height ...	1'0"				1						
Altitude ...	1288'				51						
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	6.86	7.85	3.85	6.82	5.68	6.54	8.05	7.87	3.85	8.47	
February ...	4.76	4.06	2.86	5.12	1.82	1.47	5.42	12.12	2.39	7.41	
March ...	6.72	5.20	1.19	4.82	1.67	1.81	6.69	2.74	3.00	1.86	
April ...	4.22	4.60	3.92	1.98	5.17	2.67	1.05	2.82	3.55	5.34	
May ...	2.30	4.64	3.80	4.11	5.66	3.82	3.26	7.87	2.14	2.35	
June ...	1.38	6.80	3.26	6.48	4.92	4.31	2.32	3.40	4.22	3.40	
July ...	4.70	7.20	9.20	13.48	1.18	573	8.06	5.00	6.72	16.45	
August ...	6.44	9.10	8.31	10.12	1.04	16.67	6.03	6.79	1.00	6.30	
September ...	5.71	7.50	9.87	10.89	5.10	4.62	2.00	6.59	9.6	5.40	
October ...	2.67	6.85	2.55	16.37	4.61	4.98	10.99	6.68	9.65	4.65	
November ...	11.78	3.25	8.88	12.06	3.22	3.38	3.30	2.92	8.72	12.74	
December ...	16.90	5.80	3.90	14.30	6.80	7.90	10.38	6.13	15.35	9.59	
TOTALS ...	74.44	72.85	62.09	106.50	46.87	63.90	81.55	70.93	61.55	83.96	
	M.	M	M	M	M.N.P.	M	M	np	np	np	

1951. footed low but accept.

Ins. of 10.53. G. sound. Site very exposed on all sides. To be terminated.

1955. N.P. Too low. - See 1953 inspection report.

1958 np o/e

1959 - np o/e

1960 np o/e

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference 53 653 543

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.
1951			Cleithorne	9 1/2 m S.E.	Slaidburn	3 1/2 m SE.

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	✓	✓	✓ np 47, 49	