

RAINFALL AT

Summit

60

Observer *C.R. Dykes* *Blackstone edge*
Rochdale Canal Comfy. *Lancashire*

Rain { By

Gauge { Diameter *10* in. Height above Ground, *1* ft. *10* in. Above Mean Sea Level *700* ft.

YEAR.....							1866	1867	1868	1869	MEANS.
January.....							3.10	3.86	2.10	2.60	
February.....							4.60	4.50	3.80	4.90	
March.....							2.10	1.70	4.70	2.10	
April.....							1.60	5.00	1.40	2.20	
May.....							1.60	2.00	1.10	5.30	
June.....							5.30	3.20	.90	.90	
July.....							4.10	5.30	.30	.60	
August.....							4.60	2.00	3.60	2.10	
September.....							7.70	2.90	2.60	6.00	
October.....							3.90	3.60	4.80	3.40	
November.....							8.40	1.10	3.60	4.90	
December.....							6.40	4.10	7.90	4.20	
TOTALS							53.40	39.20	36.80	39.20	

*On the NW face of the range known as
 Blackstone edge*

RAINFALL AT

Summit Blackstone edge

Lat.

Lon.

County of

Lancashire

Rain Gauge, by

Observer

C. R. Dykes Esq

Rochdale Canal Coy

Diameter....	10											
Height	1.10											
Altitude	700											
Year	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January	3.40	1.00	5.30	4.50	3.90	4.70	2.10	6.40	4.40	1.30	3.70	
February. ..	1.30	3.30	3.60	.60	1.60	1.40	4.90	4.90	1.80	3.60	2.70	
March.....	2.50	1.10	3.30	2.70	4.20	.80	4.70	3.90	2.30	2.00	2.75	
April	1.40	3.50	4.10	.30	1.40	1.10	2.90	2.30	1.60	2.30	2.09	
May	1.20	1.50	2.40	2.50	1.60	2.20	.80	3.40	4.80	1.70	2.21	
June	2.00	3.70	6.20	1.60	1.20	3.70	3.20	1.90	2.70	5.70	3.19	
July.....	.60	4.30	3.80	4.40	1.90	5.90	2.90	4.30	.40	5.70	3.42	
August	1.80	1.10	3.50	4.20	5.40	3.20	4.30	4.00	5.60	4.80	3.79	
September ..	2.70	4.70	6.60	2.80	3.50	5.20	4.40	4.30	4.70	2.50	4.14	
October	4.80	4.50	5.80	5.80	4.80	5.20	3.40	6.00	3.90	2.90	5.21	
November ..	3.60	1.20	5.00	3.30	3.90	5.90	4.30	6.20	2.50	1.60	3.75	
December ..	2.80	2.60	3.50	1.20	3.20	1.60	7.70	4.40	1.80	2.30	3.11	
TOTALS ..	33.10	32.50	53.10	33.90	36.60	40.90	45.60	52.00	36.50	36.40	40.66	

On the NW face of the Range known as Blackstone edge

RAINFALL AT *Blackstone Edge, Canal Tunnel*

80

Lat. _____

Lon. _____

County of _____

Lancashire

Rain Gauge, by _____

Observer, _____

G. R. Dykes, Esq.

Inwell 3

Diameter	<i>10</i>											
Height	<i>1.11</i>							<i>1.10</i>				
Altitude	<i>700</i>											
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January	<i>90</i>	<i>40</i>	<i>4.70</i>	<i>5.40</i>	<i>5.60</i>	<i>2.70</i>	<i>6.10</i>	<i>1.30</i>	<i>1.40</i>	<i>2.00</i>	<i>3.050</i>	
February	<i>2.70</i>	<i>5.70</i>	<i>2.80</i>	<i>2.10</i>	<i>4.10</i>	<i>3.60</i>	<i>.70</i>	<i>1.00</i>	<i>.60</i>	<i>2.40</i>	<i>2.570</i>	
March	<i>3.10</i>	<i>5.00</i>	<i>4.40</i>	<i>.70</i>	<i>1.80</i>	<i>2.20</i>	<i>2.70</i>	<i>1.90</i>	<i>3.10</i>	<i>2.30</i>	<i>2.720</i>	
April	<i>2.70</i>	<i>1.20</i>	<i>4.80</i>	<i>2.80</i>	<i>1.70</i>	<i>2.30</i>	<i>3.30</i>	<i>1.20</i>	<i>2.40</i>	<i>2.80</i>	<i>2.440</i>	
May	<i>2.20</i>	<i>4.40</i>	<i>1.80</i>	<i>.90</i>	<i>1.70</i>	<i>2.20</i>	<i>5.20</i>	<i>1.40</i>	<i>.40</i>	<i>2.10</i>	<i>2.230</i>	
June	<i>3.20</i>	<i>1.60</i>	<i>6.30</i>	<i>4.30</i>	<i>.90</i>	<i>4.60</i>	<i>2.00</i>	<i>.70</i>	<i>2.20</i>	<i>.60</i>	<i>2.640</i>	
July	<i>5.10</i>	<i>3.00</i>	<i>4.30</i>	<i>2.10</i>	<i>4.20</i>	<i>1.20</i>	<i>4.30</i>	<i>1.40</i>	<i>5.40</i>	<i>3.50</i>	<i>3.450</i>	
August	<i>2.10</i>	<i>5.50</i>	<i>3.30</i>	<i>2.20</i>	<i>1.70</i>	<i>1.10</i>	<i>1.40</i>	<i>.70</i>	<i>3.60</i>	<i>5.70</i>	<i>2.730</i>	
September....	<i>4.00</i>	<i>1.90</i>	<i>1.50</i>	<i>6.00</i>	<i>1.70</i>	<i>6.00</i>	<i>(4.00)</i>	<i>5.00</i>	<i>1.20</i>	<i>1.80</i>	<i>3.310</i>	
October	<i>6.40</i>	<i>3.60</i>	<i>3.30</i>	<i>5.30</i>	<i>2.30</i>	<i>8.30</i>	<i>(4.90)</i>	<i>8.90</i>	<i>2.60</i>	<i>1.40</i>	<i>4.10</i>	<i>4.220</i>
November....	<i>4.60</i>	<i>4.10</i>	<i>6.20</i>	<i>4.80</i>	<i>1.00</i>	<i>2.90</i>	<i>2.50</i>	<i>2.60</i>	<i>6.60</i>	<i>1.70</i>	<i>3.700</i>	
December	<i>6.30</i>	<i>4.30</i>	<i>3.40</i>	<i>3.30</i>	<i>5.30</i>	<i>1.70</i>	<i>5.60</i>	<i>4.10</i>	<i>2.50</i>	<i>3.00</i>	<i>3.950</i>	
TOTALS	<i>43.80</i>	<i>40.70</i>	<i>46.80</i>	<i>39.10</i>	<i>32.00</i>	<i>38.80</i>	<i>42.70</i>	<i>23.90</i>	<i>30.80</i>	<i>32.00</i>	<i>37.010</i>	

1880. Littleborough

2 miles

S.W.

Annual values rejected from survey (10" low).

RAINFALL AT *Blackstone Edge Canal Summit*

Lat. _____

Lon. _____

County of *Lancashire*

Rain Gauge, by _____

Observer *Rockdale Canal Coy*
C. R. Dykes Esq

Well 3

Diameter	10											
Height	1 10											
Altitude	700											
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January	4.40	3.20	3.20	.70	3.00	3.60	1.80	1.40	3.00	5.50	2.980	
February ....	.70	.20	2.80	4.30	5.00	.20	1.00	3.30	3.00	1.00	2.150	
March	3.10	2.00	.90	1.20	3.30	3.40	5.40	4.10	2.40	1.50	2.750	
April	1.10	2.10	1.20	.60	1.70	2.20	1.50	2.90	2.10	3.40	1.880	
May	2.70	3.10	3.50	2.20	2.10	.50	.40	1.30	3.00	2.60	2.140	
June	3.00	1.20	3.60	1.90	2.50	3.60	2.20	3.70	2.70	1.30	2.570	
July	2.50	2.50	2.50	2.60	2.60	4.90	2.80	1.80	.70	2.30	2.520	
August	4.50	6.00	4.00	2.40	3.70	3.90	1.90	2.80	5.00	1.40	3.560	
September....	.90	3.10	3.10	3.40	.30	1.70	7.00	3.40	.50	7.10	3.050	
October	3.40	4.20	6.70	3.40	4.20	3.90	4.10	2.30	4.70	3.10	4.000	
November....	5.40	3.00	2.50	2.40	2.50	3.00	1.80	3.10	2.10	1.10	2.690	
December ....	.70	7.10	2.40	3.20	3.30	4.10	4.90	5.20	4.20	2.60	3.770	
TOTALS	32.40	37.70	36.40	28.30	34.20	35.00	34.80	35.30	33.40	32.90	34.040	

1892 Littleborough Church 2 Miles SW 1890
House 18 ft high 90 ft SW

Annual value rejected from survey. (10" low)

RAINFALL AT

Littleborough

Blackstone Edge Canal Summit

Lat.

Lon.

County of

Lancashire South

Rain Gauge, by

Observer

Rochdale Canal Co

Jewell 3

C.R.D. Yates Esq

Diameter ..	10							8			
Height	1. 10							2. 0			
Altitude ..	700										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	5.40	2.20	3.30	3.30	3.30	1.30	4.40	1.66	3.46	2.10	3.052
February ..	3.60	.90	1.30	2.80	3.10	1.40	2.50	1.85	2.32	1.58	2.135
March ....	.90	2.90	1.50	5.10	1.80	3.00	3.20	3.35	2.79	2.78	2.732
April	2.00	2.20	1.90	1.30	2.40	2.20	1.30	2.08	2.27	3.73	2.138
May	1.60	1.60	2.50	3.60	1.60	.50	1.90	3.48	2.46	1.98	2.132
June	3.60	1.50	1.30	1.20	1.60	2.00	2.20	6.98	2.08	2.52	2.498
July	2.40	1.70	2.20	4.40	1.30	2.60	1.90	2.64	3.89	5.32	2.835
August	5.60	2.00	2.80	4.30	4.70	5.60	3.90	3.42	3.46	3.03	3.881
September ..	1.40	.90	2.00	5.30	.80	1.70	.80	.97	3.44	2.75	2.006
October	5.20	2.70	4.30	8.10	1.40	2.60	6.40	4.94	2.27	4.59	4.250
November ..	3.20	5.60	2.00	2.30	2.40	3.40	3.70	3.39	2.08	.91	2.878
December ..	4.60	5.10	3.10	2.10	2.30	.70	2.80	3.85	2.30	6.30	3.315
TOTALS ..	39.60	29.30	28.20	43.80	26.70	27.00	35.00	38.61	32.82	37.59	33.852

Hub

Annual values rejects from Survey (10" low)

RAINFALL at Littleborough Canal SummitCounty of South LancashireObserver Rochdale Canal Co
W A MatherRiver Basin Mercer Inwell 3

Rain Gauge, by _____

Diameter ...	8										
Height	20										
Altitude ...	700										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	5.89	1.48		3.22	2.70	6.25	3.65		2.63		
February ...	1.51	3.28	6.60	1.25	2.75	4.06			5.66		
March .....	.69	1.69	4.92	3.98	4.13		1.71	6.94	1.36	9.75	
April	3.44	2.02	.94	4.02	1.12	2.62	2.68		1.31	1.54	
May	2.36	1.24	2.91	3.05	2.00	3.76	2.53	1.80	1.95	1.81	
June	3.34	2.48	5.82	2.82	2.53	.52	2.46	2.48	1.00	1.53	
July	3.30	.78	2.25	.89	3.41	4.50	1.86	1.81	4.89	1.68	
August	4.69	2.05	7.21	1.95	2.94	4.39	2.73	6.89	2.73	3.42	
September ..	.29	3.42	2.30	1.46	3.08	1.17	2.11	1.98	13.11	1.23	
October ...	2.75	2.95	4.92	2.06	2.47	1.46	6.17	6.87	3.02	3.01	
November ..	4.95	4.14	1.80	4.61	5.79		3.61	3.12	1.67	3.49	
December ...	4.06	5.82	5.88	2.55	6.22	10.05	3.10	2.25	7.60	6.47	
TOTALS ...	37.27	30.85	45.55	31.86	39.14	38.78	38.61	33.84	46.93	33.93	

1919 Gauge frozen up at end of Jan & Feb.

Rejected from Survey. 10" low.

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

RAINFALL at Littleborough Canal SummitCounty of LancashireObserver Rochdale Canal Co.M. A. M. Smith Esq. M.B.E.River Basin Mersey-TwellsM.O.Rain Gauge, by N+27.38
8.002326.214Glass correct 22

Diameter ...	8										
Height	2.0										
Altitude ...	700										
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS.
January ...	4.10	3.77	3.20								
February ...	3.29	1.60	4.22								
March	2.76	2.87	2.57								
April	5.79	1.30	3.45								
May	4.72	2.14	1.05								
June	1.92	1.10	2.87								
July	3.82	1.74	4.36								
August	1.61	5.85	5.79								
September...	1.92	1.60	3.00								
October	1.69	2.77	1.09								
November...	2.48	2.66	2.66								
December...	3.77	5.65	4.40								
TOTALS...	42.87	33.05	38.66								

Inspected C.S. 6.11.22, in left circular iron fence 4 ft. away on exposed bank. Land falls steeply on all sides. Grossly overexposed.

Rejected from Survey 10.1.23.

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