

1903 60

# RAINFALL AT Chelburn Blackstone Edge Lancashire

Observer C. R. Dyer Esq. Rochdale Canal Compt.

Rain { By.....  
Gauge { .....  
Diameter.....1.0.....in. Height above Ground, ..1.....ft. ...3.....in. Above Mean Sea Level 700? ft.

YEAR.....							1866	1867	1868	1869	MEANS.
January.....							5.80	4.70	2.50	3.20	
February.....							7.10	5.30	5.10	7.30	
March.....							2.60	2.30	4.30	2.90	
April.....							1.30	4.80	3.20	2.20	
May.....							1.50	2.60	1.40	5.00	
June.....							5.00	3.30	1.00	2.0	
July.....							4.70	6.50	4.0	2.00	
August.....							5.30	2.00	4.20	3.60	
September.....							5.60	3.90	3.50	5.90	
October.....							3.20	3.10	5.70	2.80	
November.....							10.60	1.00	4.10	3.80	
December.....							4.60	4.80	6.20	4.90	
TOTALS ....							57.30	44.30	41.60	43.80	

# RAINFALL AT

*Chelburn* Blackstone Edge

70

Lat.

Lon.

County of

*Lancashire*

Rain Gauge, by

Observer

*C. R. Dykes Esq*

*Rockdale Canal Compt.*

Diameter....	10										
Height ....	1.3										
Altitude ....	<del>800</del> 7002										
Year .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January ....	4.60	2.20	6.00	4.80	5.00	5.60	2.60	4.00	5.00	1.50	4.430
February. ..	1.70	4.50	4.20	4.70	2.10	1.40	5.70	5.90	1.90	3.70	3.180
March .....	2.90	1.50	4.30	2.70	5.10	1.00	5.20	4.10	2.90	2.20	3.190
April .....	1.50	4.00	4.00	3.30	1.80	1.30	3.10	2.70	2.00	2.40	2.310
May .....	2.00	1.70	2.60	2.90	1.80	2.70	80	3.80	5.20	2.10	2.560
June .....	2.50	3.70	4.00	1.90	1.40	3.80	3.60	2.60	3.10	5.70	3.530
July .....	1.10	5.30	4.10	4.90	2.10	5.90	3.40	5.00	5.50	6.50	3.880
August ....	2.50	1.50	4.00	5.20	6.30	3.40	5.10	4.30	6.30	6.00	4.460
September ..	3.40	4.40	7.40	3.00	4.20	6.00	4.80	4.50	4.90	3.40	4.600
October ....	11.60	5.30	6.80	6.90	5.60	5.60	3.60	4.30	4.40	3.30	6.040
November ..	4.20	1.50	6.00	4.00	4.30	6.20	4.30	7.20	2.50	1.80	4.200
December ..	2.00	3.30	3.80	1.60	3.60	1.90	8.60	5.10	2.40	3.20	3.550
TOTALS ..	40.00	38.90	60.20	38.90	43.30	44.80	50.80	59.50	41.10	41.80	45.930

RAINFALL AT *Blackstone Edge, Cheltenham*

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

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

County of \_\_\_\_\_

*Lancashire*

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

Observer *C. P. Dykes, Esq.**Swell 3*

Diameter ....	<i>10</i>										
Height .....	<i>1.3</i>										
Altitude ....	<i>800</i>										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	<i>1.00</i>	<i>.80</i>	<i>5.50</i>	<i>7.70</i>	<i>6.90</i>	<i>2.90</i>	<i>6.70</i>	<i>2.30</i>	<i>1.90</i>	<i>3.40</i>	<i>3.910</i>
February ....	<i>3.10</i>	<i>6.40</i>	<i>2.70</i>	<i>2.80</i>	<i>4.30</i>	<i>4.50</i>	<i>1.20</i>	<i>1.50</i>	<i>.70</i>	<i>2.30</i>	<i>2.950</i>
March .....	<i>3.70</i>	<i>5.30</i>	<i>6.00</i>	<i>.80</i>	<i>2.20</i>	<i>2.60</i>	<i>3.50</i>	<i>2.00</i>	<i>3.50</i>	<i>2.60</i>	<i>3.220</i>
April .....	<i>3.30</i>	<i>1.50</i>	<i>4.70</i>	<i>2.40</i>	<i>2.10</i>	<i>2.80</i>	<i>3.70</i>	<i>1.40</i>	<i>2.40</i>	<i>3.40</i>	<i>2.770</i>
May .....	<i>2.70</i>	<i>5.30</i>	<i>2.40</i>	<i>.90</i>	<i>2.00</i>	<i>2.30</i>	<i>5.00</i>	<i>1.90</i>	<i>.70</i>	<i>2.30</i>	<i>2.550</i>
June .....	<i>3.10</i>	<i>1.90</i>	<i>7.00</i>	<i>4.70</i>	<i>1.30</i>	<i>4.90</i>	<i>2.30</i>	<i>.50</i>	<i>2.80</i>	<i>.40</i>	<i>2.890</i>
July .....	<i>4.00</i>	<i>3.80</i>	<i>5.40</i>	<i>2.20</i>	<i>4.90</i>	<i>1.60</i>	<i>5.40</i>	<i>1.90</i>	<i>5.60</i>	<i>4.10</i>	<i>3.890</i>
August .....	<i>4.70</i>	<i>5.70</i>	<i>3.40</i>	<i>2.20</i>	<i>1.90</i>	<i>1.50</i>	<i>1.90</i>	<i>1.10</i>	<i>4.30</i>	<i>6.70</i>	<i>3.340</i>
September....	<i>3.80</i>	<i>1.60</i>	<i>2.10</i>	<i>7.40</i>	<i>2.20</i>	<i>7.00</i>	<i>(4.50)</i>	<i>5.70</i>	<i>1.50</i>	<i>2.10</i>	<i>3.790</i>
October .....	<i>4.00</i>	<i>5.20</i>	<i>3.80</i>	<i>5.90</i>	<i>2.50</i>	<i>8.20</i>	<i>(10.20)</i> <i>(5.70)</i>	<i>1.90</i>	<i>1.80</i>	<i>4.00</i>	<i>4.300</i>
November....	<i>6.10</i>	<i>4.70</i>	<i>6.80</i>	<i>5.50</i>	<i>1.20</i>	<i>3.80</i>	<i>3.00</i>	<i>2.50</i>	<i>7.90</i>	<i>2.00</i>	<i>4.350</i>
December ....	<i>6.70</i>	<i>5.60</i>	<i>3.70</i>	<i>4.00</i>	<i>6.00</i>	<i>2.20</i>	<i>6.80</i>	<i>4.20</i>	<i>3.10</i>	<i>2.80</i>	<i>4.510</i>
TOTALS ....	<i>46.20</i>	<i>47.80</i>	<i>53.50</i>	<i>46.50</i>	<i>37.50</i>	<i>44.30</i>	<i>49.70</i>	<i>26.90</i>	<i>36.20</i>	<i>36.10</i>	<i>42.470</i>

*1880. Littleborough, 2 1/4 miles S.W.**Annual values rejected from survey (10" bar)*



RAINFALL AT Blackstone Edge Chelburne

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

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

County of Lancashire

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

Observer

Rochdale Canal CoyCh. Dykes EsqInwell 3

Diameter ....	10										
Height .....	1 3										
Altitude ....	800										
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January ....	5.30	3.30	2.20	.70	3.60	3.00	1.80	1.40	4.30	6.60	3.220
February ....	.80	.40	2.70	5.10	6.10	.20	1.00	3.30	3.60	1.30	2.450
March .....	3.90	2.10	1.00	1.50	4.20	3.50	5.40	5.10	2.50	2.00	3.120
April .....	1.40	2.20	1.50	.70	1.40	2.20	1.50	3.00	2.30	3.80	2.000
May .....	2.70	3.20	3.50	2.30	2.40	.50	.40	1.80	2.80	2.80	2.240
June .....	3.60	1.20	3.20	1.90	2.90	3.60	2.20	4.00	2.90	1.60	2.710
July .....	3.10	2.60	2.60	3.30	2.60	4.90	3.40	1.90	1.00	2.80	2.820
August .....	4.90	7.60	4.70	3.00	4.20	3.90	2.60	3.70	6.10	1.10	4.180
September....	1.40	3.40	3.70	4.30	.10	1.70	7.60	3.90	.80	6.60	3.350
October .....	4.10	5.80	6.30	4.00	4.50	3.90	4.80	2.50	4.60	3.60	4.110
November....	6.10	3.60	3.30	3.20	2.80	3.00	1.60	4.10	2.50	1.10	3.130
December ....	.70	8.40	3.10	4.40	4.80	4.10	5.70	6.50	5.20	3.40	4.630
TOTALS ...	38.00	43.80	37.80	34.40	39.60	34.50	38.00	41.20	38.60	36.70	38.260

1892 Littleborough Church 2 1/4 miles SW 1070 -  
 Farmhouse & Barn 20 ft high 900 ft NE

## RAINFALL AT

Littleborough  
Blackstone Edge Chelburn

Lat.

Lon.

County of

Lancashire South

Rain Gauge, by

Observer

Rochdale Canal Coy

C.F. Dykes Esq

Inwell 3

Diameter ..	10							8			
Height ....	1 3							2.0			
Altitude ..	800										
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	6.30	2.70	3.30	4.30	3.40	1.90	5.10	2.00	4.26	2.60	3.586
February ..	3.30	1.00	1.50	3.50	3.80	2.10	2.80	2.08	2.76	2.25	2.509
March ....	.70	3.20	1.80	5.40	2.20	3.20	3.40	3.86	3.02	2.60	2.938
April .....	2.30	2.60	2.20	1.60	2.80	2.80	1.30	2.13	2.04	3.87	2.364
May .....	1.80	1.90	2.50	3.30	1.90	.70	2.10	3.77	2.54	2.13	2.264
June .....	4.00	1.50	1.30	1.10	1.60	2.50	2.10	7.80	2.18	2.57	2.665
July .....	2.60	1.90	2.50	5.20	1.80	2.90	2.20	2.95	4.30	5.82	3.217
August ....	5.60	2.30	3.00	5.10	4.80	6.00	4.20	4.03	3.65	3.13	4.181
September ..	1.50	.70	2.10	5.70	1.00	1.80	.90	1.17	3.86	2.94	2.167
October .....	5.90	3.10	4.30	8.50	2.40	2.70	6.40	4.98	2.28	5.62	4.618
November ..	3.90	6.00	2.50	2.80	2.80	3.60	4.00	3.45	2.56	1.20	3.281
December ..	5.00	5.30	3.70	2.20	2.60	.80	3.00	4.57	2.45	7.15	3.677
TOTALS ..	42.90	32.20	30.70	48.70	31.10	31.00	37.50	42.79	35.90	41.88	37.46

Hub

Annual average reported from Survey (10' bar)

RAINFALL at Littborough ChelburnCounty of South LancashireObserver Rochdale Canal Co  
W. A. M. PashleyRiver Basin Mersey-Inverell 3

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

Diameter ...	8											
Height .....	20											
Altitude ...	800											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	
January ...	7.68	2.13	6.33	3.62	3.25	6.17	3.72	7.53	2.75	7.38	9.82	
February ...	1.96	5.09		1.66	3.39	4.63	7.29					
March .....	.92	2.23	5.18	4.35	4.82	2.90	2.70		1.63			
April .....	3.68	2.40	1.11	4.08	1.31				1.21			1.85
May .....	2.57	1.57	2.82	3.42	2.18	3.80	2.57	2.13	1.82	1.78		
June .....	3.45	2.54	6.00	3.32	2.13	.52	2.62	2.10	1.18	1.60		
July .....	3.75	.95	2.42	1.00	3.46	1.65	2.33	2.14	4.98	1.30		
August .....	5.63	2.53	7.38	2.23	3.45	4.37	3.28	7.20	3.00	3.93		
September ..	.34	3.81	2.66	1.46	3.07	1.23	2.33	2.64	11.48	1.97		
October ...	2.81	3.16	5.54	2.20	2.54	1.61	7.48	7.55	3.42	2.10		
November ..	5.57	4.67	2.90	5.08	5.82	10.04	3.78	4.16	2.32	3.41		
December ...	4.26	5.91	5.94	2.62	6.49		3.46	2.15	9.63	6.51		
TOTALS ...	42.62	36.99	48.29	35.04	41.91	39.92	41.80	37.45	50.71	34.27		

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 ChelburnCounty of LancashireObserver Rockdale Canal Co.River Basin Mersey-Inwell 3M.A. M. G. G. M. B.E.  
Enquiries, Oldham W.W. 1924  
C. J. Babb.M.O. Rain Gauge, by N+Z  
funnel vessel  
2629  
some water in inlet can but no obvious leak 22.glass correct 22

Diameter ...	8				8						
Height .....	2 0				1.0						
Altitude ...	800				725						
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEAN.
January ...	4.67	7.20	3.36		3.74	5.28	5.98	4.82	13.34	2.76	7.83
February ...	3.70	7.3	5.14		2.16	8.12	4.15	2.07	6.50	9.4	1.05
March .....	3.14	4.08	3.08		1.96	1.94	2.63	5.43	3.72	1.52	2.26
April .....	5.84	1.43	3.18		2.32	3.73	1.73	3.94	1.16	1.45	2.90
May .....	5.60	2.25	1.25		5.86	5.45	5.02	1.97	1.95	3.82	2.36
June .....	2.62	1.9	2.89		2.83	1.5	2.76	4.46	7.47	1.86	2.76
July .....	8.97	2.33	4.55		4.56	2.16	3.74	3.11	2.14	2.63	7.03
August .....	2.30	6.58	5.65		7.16	5.03	5.12	9.37	5.21	6.31	8.18
September...	2.60	1.90	3.31		5.30	4.82	3.76	6.26	6.7	2.24	4.31
October .....	1.73	3.05	1.10		6.47	6.03	4.93	5.25	6.15	6.144	7.30
November...	2.73	2.83	3.15		3.30	3.32	7.07	6.15	8.61	9.19	6.63
December...	3.82	7.23	4.69		5.65	4.74	2.30	2.04	3.78	9.90	4.34
TOTALS...	47.72	39.80	41.35	N.R.	51.31	50.87	49.19	54.87	60.76	49.06	59.04

Inspected C.S. 6.1.22 - 3. in 4 ft. under iron rail 4 ft. distant.  
 S. on steep hill side falling 50 ft. on S. + rising on N. Dry stone walls on  
 S + E but no effective shelter. Valley runs E + W on S of gauge.  
 Poor exposure but not so bad as summit.  
 1926. Reservoir Embankment 35 ft high, 1 1/2 chs. E.

Rejected for survey 10.10.22Position 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 from gauge	Parish Church.	Distance from gauge	Direction from gauge
1924	53°39'46"	2°4'3"	Littleborough	1 1/2 mile	SSW	Littleborough	1 1/2 mile	SSW.

RAINFALL at Littleborough (Chelburn)County of Lancashire Observer Chas. Batley, C.E. (Empt.)River Basin Mersey, Irwell, - 3. Oldham W.W.Snowden Rain Gauge, by Basella.  
M.O. (126)

Diameter ...					6.5							
Height .....					1.0							
Altitude ...					700							
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930.	MEANS.
January ...					3.14	4.18	4.63	3.97	11.13	2.35	6.43	
February ...					1.84	6.74	3.56	1.69	5.25	7.4	.99	
March .....					1.85	1.85	1.77	4.65	2.96	1.32	2.79	
April .....					2.05	2.91	1.61	3.18	.98	1.29	3.64	
May .....					5.39	4.32	4.63	1.79	1.85	3.11	2.04	
June .....					2.46	.10	2.46	3.92	6.68	1.59	2.51	
July .....					3.99	1.85	3.38	2.84	1.68	2.11	6.33	
August .....					6.32	4.33	4.72	8.12	4.73	5.21	6.97	
September...					4.54	4.06	3.48	5.55	.58	2.07	4.07	
October .....					5.60	5.26	4.29	4.30	5.05	5.12	5.80	
November...					2.78	3.10	5.97	5.47	6.51	7.00	5.28	
December...					4.18	3.83	1.81	1.90	3.06	7.39	3.55	
TOTALS...					44.14	42.73	42.36	47.38	50.46	39.30	50.40.	

1924 House 25ft high 15.80 to W.

Rejected from survey 10" low.

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
1924	53° 40'	2° 43' W	Littleborough	1 1/2 m	S.S.W.	Littleborough	1 1/2 m	S.S.W.



## RAINFALL at Littleborough (Uppr Ch'lburn)

County of South LancashireObserver C. J. Batley, Esq., C.E.River Basin Mersey-Twivel-3C. B. Adfield, Esq., (1938)Type of Gauge M.O.Annual Average 47.5 in. based on 9 years obs. un-weighted. Period of average 1881-195 Ref. S

66067/26.

Diameter	8.										
Height	1.0.										
Altitude	725.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Mean Total
January	6.28	6.41	3.50	4.21	2.31	4.71	5.04	6.48	6.39	2.75	48.08
February	6.64	4.8	5.29	4.6	6.90	3.66	6.75	2.65	5.88	2.46	40.54
March	4.2	2.96	4.20	4.00	1.94	3.08	2.76	1.42	3.51	3.56	27.85
April	4.37	4.85	1.97	2.94	4.02	1.73	2.94	77	2.53	3.21	29.33
May	3.05	5.41	2.21	3.64	1.12	1.43	2.52	4.31	1.59	2.14	27.42
June	6.60	1.09	3.38	2.67	5.02	4.47	3.67	5.52	4.01	.92	37.35
July	5.40	4.64	3.10	2.91	2.05	4.34	2.65	5.13	7.13	4.25	41.60
August	5.55	1.46	1.65	3.59	1.95	2.96	2.91	5.99	3.24	2.47	31.77
September	3.57	6.12	1.55	4.27	8.80	5.28	2.49	1.63	1.58	5.31	40.60
October	3.20	8.40	5.31	5.75	10.01	5.89	2.72	11.76	2.54	5.45	61.08
November	9.37	4.26	2.60	2.55	6.78	6.88	3.04	7.11	7.54	9.06	59.24
December	3.01	2.83	.70	6.44	4.00	5.02	3.24	5.61	3.72	5.49	40.06
TOTALS	57.46	48.88	35.46	43.43	54.90	48.85	40.73	58.38	49.76	47.07	484.92
	2	3	3	3	3	3	3	3	3	3	

Embankment 35' high 1/2 chains E.

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			Littleborough	1 1/2 m.	SSW	Littleborough	1 1/2 m.	SSW

## RAINFALL at Littleborough (Chelburn)

County of South LancashireObserver C. J. Bartley Esq. C.E.River Basin Mersey-Itwell-3C. D. Whitfield, Esq. (1938)Type of Gauge M.O.

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

660607/26.

Diameter	8.										
Height	1.0.										
Altitude	700.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	4.79	4.86	2.70	3.55	1.76	3.97	3.98	4.87	5.70	2.40	
February	5.21	4.1	4.25	3.38	5.41	2.70	5.84	1.91	4.70	2.25	
March	3.7	2.43	3.63	3.67	1.65	2.35	2.65	1.08	2.88	3.00	
April	4.05	3.70	1.61	2.75	3.54	1.51	2.53	5.4	2.15	2.65	
May	2.79	4.93	2.08	2.78	1.01	1.34	2.27	3.53	1.36	1.91	
June	6.04	1.89	3.01	2.39	4.63	3.95	3.04	4.35	3.35	1.84	
July	4.96	4.19	2.71	2.88	1.62	3.61	2.30	4.09	6.04	3.80	
August	4.84	1.34	1.44	3.01	1.54	2.51	2.53	4.96	3.17	1.87	
September	3.35	4.92	1.36	3.66	7.97	4.49	1.99	1.35	1.42	4.15	
October	2.71	7.00	4.76	4.38	7.98	4.52	2.45	3.46	2.22	4.21	
November	7.51	3.41	2.33	2.50	5.89	5.72	2.63	5.66	5.95	7.36	
December	2.18	2.27	1.67	5.87	3.40	3.55	2.64	4.57	3.12	4.58	
TOTALS	48.80	40.35	30.55	37.30	46.40	40.40	34.85	45.37	42.06	39.14	
	D	D	D	D	D	D	D	D	D	D	

House 25' high 12 chains W.

1939. In 1925 it was noted that an inch fall was some 5 miles below & a defining has occurred in subsequent years.

1940 Print with query. Saw part ext. Turf well erected Oct 40

N.B. Reported from Survey as 10' too Low.

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			Littleborough	1 3/4 m	SSW	Littleborough	1 3/4 m.	SSW.



Station No. 2903

RAINFALL at Littleborough (Upper P. Hillman)

41

County of South Lancashire Observer C. Binfield - Esq.

River Basin Mersey - Irwell - 3

Type of Gauge T.A.O.

Annual Average 48.2 in. based on 20 years obs. un-weighted. Period of average 1881-1915 Ref. 13

File No. 660607/26

Diameter	8"			561	285						
Height	1' 0"				1						
Altitude	725'				41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means Total
January	1.78	5.88	6.90	7.67	5.04	6.03	3.64	11.15	2.98	3.61	54.68
February	5.92	1.73	4.27	3.01	6.46	7.44	1.76	4.01	4.29	4.32	45.21
March	5.02	3.92	1.77	.75	1.56	1.74	6.64	2.19	2.03	2.84	28.46
April	3.64	2.33	3.04	3.48	3.13	1.82	5.48	2.48	5.13	4.63	35.16
May	2.45	4.32	3.30	4.36	4.94	1.83	2.27	1.50	4.33	2.38	31.68
June	1.27	1.03	4.19	4.04	4.95	4.13	3.56	5.81	.70	2.59	32.47
July	1.79	4.63	3.21	4.78	2.98	4.78	3.31	2.11	2.38	4.78	34.75
August	7.18	5.21	7.73	4.28	3.39	6.84	.44	5.31	4.97	6.50	51.85
September	.73	2.56	6.17	6.70	3.36	8.33	3.38	3.58	1.33	8.89	45.03
October	5.62	7.33	3.47	5.59	7.24	1.09	1.40	3.26	5.90	3.04	43.94
November	3.41	1.23	4.22	9.66	70	8.97	7.62	2.56	7.17	6.55	52.09
December	2.98	4.81	2.76	5.93	3.67	4.44	5.14	4.68	8.86	2.25	46.52
TOTALS	41.79 D	44.98 D	51.03 D	60.25 D	47.42 D	57.44 D	44.64 D	48.64 D	50.27 D	55.38 D	501.84

1941 Reservoir Embankment 35' high 1 1/2 ch. E.

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			Littleborough	1 1/2 m.	S.S.W.	Littleborough	1 1/2 m.	S.S.W.

BRITISH RAINFALL ORGANIZATION



Station No. 2904RAINFALL at Littleborough (Chellum)

41

County of South Lancashire Observer C. Buxfield Esq.River Basin Messy. Jowall. 3Type of Gauge M.O.Annual Average in. based on years obs. un-weighted. Period of average Ref.File No. 660607/26

Diameter	8"			561	287						
Height	1'0"				1						
Altitude	Yoo				41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.64	5.06	6.91	7.52	4.98	5.86	3.41	10.68	2.89	3.61	
February	5.25	1.62	4.29	2.30	6.61	7.27	1.21	3.90	4.04	6.08	
March	4.61	3.67	1.77	.74	1.53	1.74	6.14	2.16	1.94	2.83	
April	3.54	1.38	2.97	3.33	3.07	1.76	5.08	2.48	5.02	4.59	
May	2.30	3.31	3.31	4.17	4.90	1.69	2.14	1.44	4.11	2.31	
June	1.08	1.07	4.25	3.33	4.89	3.95	3.34	5.85	.86	2.57	
July	1.68	4.56	3.36	4.62	3.01	4.64	3.29	2.04	2.31	4.64	
August	6.20	5.21	7.77	4.01	3.20	6.65	.41	5.14	4.53	6.18	
September	.64	2.58	6.20	6.62	3.16	8.06	3.34	3.56	1.23	8.61	
October	4.64	7.48	3.45	5.57	7.15	.97	1.27	3.22	5.61	2.97	
November	2.96	1.17	4.22	3.54	.69	8.17	7.76	2.47	6.88	6.44	
December	2.41	4.61	2.73	5.76	3.46	4.17	4.98	4.41	8.65	3.20	
TOTALS	36.98 n.p.	42.32 n.p.	51.23 D	58.71 D	46.65 D	54.93 D	42.37 D	47.35 D	48.07 D	54.03 D	

1941. n.p. low. House 25' high 1 1/2 ch. W.

242 Gauge moved on 18<sup>th</sup> June 350' S. House 25' high 1 1/2 ch. W. Embankment 40' high 1 1/2 ch. N.W.

n.p. low. (Readings satisfactory since June).

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	Parish Church.	Distance from gauge.	Direction
1941			Littleborough	1 1/4 m.	S.S.W.	Littleborough	1 1/4 m.	S.S.W.

BRITISH RAINFALL ORGANIZATION

Station No. 2903

RAINFALL at Littleborough (Upper G. Holburn)

51

County of Lancashire

Observer

C. B. Asfield Esq.

River Basin Mersey - Jewell - 3

Type of Gauge M.O.

Annual Average 47.5 in. based on 9 years obs. un-weighted. Period of average 1881-1915 Ref. S

" " 44.87 " - 31 " within 1924-57. " " 1916-50 File No. 660607/26

Diameter ...	8"			5.61	2.85						
Height ...	1' 0"				1						
Altitude ...	425'				51						
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means Total
January ...	4.94	5.77	1.93	4.53	3.19	6.69	5.18	5.46	4.20	6.47	48.36
February ...	4.24	1.53	2.37	3.69	2.59	1.44	3.60	6.58	1.76	3.03	29.83
March ...	5.82	2.98	2.51	2.73	2.37	1.96	4.27	2.47	2.11	1.80	29.02
April ...	3.07	3.53	3.84	.86	2.38	3.99	.46	1.74	4.06	3.13	27.06
May ...	2.88	2.12	3.07	3.05	4.24	1.87	1.84	4.78	2.45	2.10	28.45
June ...	1.55	3.68	2.55	2.46	3.30	3.43	2.79	5.44	2.69	2.05	30.94
July ...	4.95	2.33	7.21	6.27	1.06	7.71	5.40	4.55	3.61	6.85	49.94
August ...	6.00	5.85	5.81	7.27	1.36	11.95	6.77	7.01	.40	4.93	57.35
September ...	3.17	4.25	3.63	6.22	3.34	4.17	5.82	5.65	.43	3.42	40.10
October ...	1.42	6.57	2.58	9.70	3.33	3.61	8.09	5.78	5.16	5.59	51.83
November ...	9.75	3.06	5.88	7.29	2.42	1.93	3.36	2.13	5.25	8.29	49.36
December ...	9.07	4.66	2.22	8.23	6.94	4.65	5.97	5.54	8.98	5.51	61.87
TOTALS ...	56.86	46.33	43.60	63.40	36.57	53.40	53.55	57.13	40.10	53.17	504.11
	D	D	D	D	D	D	D	D	D	D	

1951 Reservoir Embankment 35' high at 33 yds E.

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference SD(34)952195

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge.	Direction from gauge.
1951			Littleboro	1 1/2 m	N.W.	Littleboro	1 1/2 m	N.W.

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	20-22, 24-30 D 26-30	✓	✓	✓

Station No. 2904RAINFALL at Littleborough (Chellburn)

51

County of Y. LancashireObserver C. Busfield Eng.River Basin Mersay - Irwell 3Type of Gauge M.O.Annual Average 46.6 in. based on 5 years obs. un-weighted. Period of average 1881-1915 Ref. L.W.S.  
" " 49.69 " " 14 " " with 1943-51 " " 1916-50 File No. 666627/26

Diameter ...	8"			5.61	2.87						
Height ...	1' 0"				1						
Altitude ...	700				51						
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	4.87	5.71	1.95	4.50	3.48	6.90	5.24	5.38	4.14	6.39	
February ...	4.20	1.55	2.37	3.90	2.66	1.49	3.57	6.48	.75	2.95	
March ...	5.60	2.95	2.49	2.99	2.29	1.99	4.22	2.41	2.04	1.74	
April ...	3.09	3.51	3.75	.93	2.50	3.95	.44	1.68	3.94	3.30	
May ...	2.76	2.07	3.16	3.12	4.50	1.87	1.84	4.65	2.50	2.06	
June ...	1.64	3.80	2.51	3.53	3.35	3.36	2.76	5.25	2.51	1.97	
July ...	4.84	2.36	6.94	6.40	1.08	7.38	5.20	4.57	3.50	6.98	
August ...	5.94	6.05	6.02	7.45	1.16	12.07	6.66	6.91	.40	5.01	
September ...	3.16	4.24	3.63	6.24	3.36	4.19	5.79	5.51	.43	3.33	
October ...	1.41	6.47	2.54	9.68	3.25	3.60	7.96	5.55	5.26	5.73	
November ...	9.71	3.06	6.02	7.46	2.33	1.97	3.24	2.05	5.25	8.46	
December ...	8.99	4.70	2.27	8.33	6.90	4.64	5.94	5.34	8.66	5.57	
TOTALS ...	56.21	46.47	43.65	64.63	36.86	53.41	52.86	55.62	39.38	53.49	
	D	D	D	D	D	D	D	D	D	D	

1951 Embankment 40' high at 83 yds N.W.

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference SD(24) 969183

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.
1951			Littleboro'	1 3/4 m. S.S.W.	Littleboro'	1 3/4 m. S.S.W.

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
		C1924	✓	✓ n.p. 41, 42	
		D25-30	✓	D 43-47, 49, 50	