

RAINFALL AT *Oldham W. Wake*

60

Pickthorne

James Taylor

Rain { By

Gauge { Diameter... *1.0 in.*

Height above Ground, *4* ft. in.

Above Mean Sea Level, *800* ft.

Crosley gauge

YEAR.....	1860	1861					1866	1867	1868	1869	MEANS.
January	3.45	2.3					[#] 5.70	4.01	3.94	2.52	
February	1.33	2.59					5.22	4.73	3.50	4.82	
March	3.15	2.42					1.84	1.88	3.99	.94	
April	1.39	1.87					1.52	5.28	1.72	1.79	
May	2.86	1.00					1.70	2.68	1.36	3.21	
June.....	6.46	2.05					5.04	1.87	.37	1.14	
July	2.03	2.89					3.41	5.36	.38	1.62	
August.....	3.71	4.03					5.38	2.39	3.42	1.90	
September ...	3.25	3.96					7.80	3.27	1.99	5.89	
October.....	6.14	3.45					3.33	4.00	6.10	3.87	
November.....	3.49	5.32					7.03	1.74	2.28	3.75	
December.....	2.22	3.51					6.54	4.05	8.49	4.90	
TOTALS	37.48	33.32					54.57	41.26	37.54	34.35	

C C C C

New Crosley g. fixed April 13th 1869

1862 Jan g. at Pickthorne neglected

1865 Crosley g. replaced.

RAINFALL AT *Milnrow, Rietborne, Kitchcliffe*

Lat.....

Lon.....

County of...

Lancashire

.....*R*

Observer

J Taylor Esq

Diameter	10	11	12	13	14	15	16	17	18	19	MEANS.
Height	6	7	8	9	10	11	12	13	14	15	
Altitude	800	850	900	950	1000	1050	1100	1150	1200	1250	
YEAR	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	
January.....	2.99	2.90	6.19	4.74	3.49	4.46	2.05	5.08	3.53	1.37	
February.....	1.50	2.80	4.34	.82	1.61	.86	3.67	2.98	1.38	3.43	
March.....	2.31	2.90	2.94	1.89	3.39	.60	3.59	2.17	1.58	2.01	
April.....	1.95	2.84	3.40	.33	1.35	1.36	2.81	1.74	1.44	2.35	
May.....	1.54	1.46	1.42	2.52	1.42	2.17	1.23	3.03	3.73	2.56	
June.....	2.02	2.98	5.32	1.92	1.64	3.57	3.26	2.64	3.25	7.26	
July.....	2.70	3.42	4.11	5.08	2.03	5.45	3.65	4.99	7.8	5.99	
August.....	1.94	1.32	3.50	4.59	5.00	2.48	4.18	4.01	5.06	7.25	
September.....	2.64	3.90	5.92	3.10	3.94	4.51	3.70	2.60	4.61	4.06	
October.....	2.81	4.00	4.95	6.10	4.66	4.78	3.74	5.23	3.62	2.58	
November.....	2.89	1.42	4.84	2.84	2.62	4.31	2.78	6.06	2.86	1.78	
December.....	1.67	3.21	1.90	1.03	3.33	1.74	5.97	3.37	1.77	3.13	
TOTALS	31.12	29.15	48.83	34.96	34.48	36.26	40.63	43.90	33.61	43.77	37.67

C C C

1872 Gauge moved

1379. These figures are identical with those for New Year's Budget (Tables W. R.). Oldham Table (VI. 22) gives 35.22 for this year.

RAINFALL AT *Milnor, Piethorne* 80

Lat. _____

Lon. _____

County of *Lancashire* S.

Rain Gauge, by _____

Observer *L. F. Bateman, Esq., F.R.S.*

Mersay - Inwell 3

Diameter	<i>5"</i>										
Height	<i>4.0</i>										
Altitude	<i>800 T</i>				<i>767 T</i>						
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January	<i>.54</i>	<i>.58</i>	<i>3.62</i>	<i>4.44</i>	<i>4.98</i>	<i>2.30</i>	<i>3.93</i>	<i>1.42</i>	<i>.97</i>	<i>1.84</i>	<i>2.462</i>
February	<i>2.73</i>	<i>4.23</i>	<i>3.29</i>	<i>1.93</i>	<i>2.29</i>	<i>2.93</i>	<i>.57</i>	<i>.71</i>	<i>.29</i>	<i>1.51</i>	<i>2.048</i>
March	<i>3.16</i>	<i>3.12</i>	<i>3.41</i>	<i>.43</i>	<i>1.88</i>	<i>1.79</i>	<i>2.42</i>	<i>1.29</i>	<i>1.95</i>	<i>1.71</i>	<i>2.116</i>
April	<i>2.12</i>	<i>1.60</i>	<i>3.45</i>	<i>1.46</i>	<i>1.31</i>	<i>1.43</i>	<i>2.23</i>	<i>1.02</i>	<i>1.67</i>	<i>1.58</i>	<i>1.787</i>
May	<i>2.32</i>	<i>4.75</i>	<i>2.22</i>	<i>.71</i>	<i>1.52</i>	<i>1.62</i>	<i>3.10</i>	<i>1.25</i>	<i>.62</i>	<i>1.50</i>	<i>1.961</i>
June	<i>2.25</i>	<i>1.97</i>	<i>7.50</i>	<i>4.57</i>	<i>.81</i>	<i>2.36</i>	<i>1.40</i>	<i>.15</i>	<i>1.81</i>	<i>.55</i>	<i>2.337</i>
July	<i>6.42</i>	<i>3.33</i>	<i>7.35</i>	<i>2.61</i>	<i>3.76</i>	<i>1.41</i>	<i>5.08</i>	<i>1.61</i>	<i>4.66</i>	<i>2.82</i>	<i>3.905</i>
August	<i>1.83</i>	<i>4.36</i>	<i>3.22</i>	<i>2.87</i>	<i>1.90</i>	<i>1.23</i>	<i>2.07</i>	<i>1.22</i>	<i>3.26</i>	<i>4.86</i>	<i>2.682</i>
September	<i>4.35</i>	<i>2.59</i>	<i>2.60</i>	<i>4.79</i>	<i>2.19</i>	<i>4.62</i>	<i>3.37</i>	<i>4.59</i>	<i>1.27</i>	<i>1.83</i>	<i>3.220</i>
October	<i>1.56</i>	<i>3.04</i>	<i>3.75</i>	<i>5.26</i>	<i>1.94</i>	<i>4.19</i>	<i>4.66</i>	<i>1.81</i>	<i>1.66</i>	<i>3.20</i>	<i>3.107</i>
November	<i>4.27</i>	<i>4.87</i>	<i>5.46</i>	<i>4.21</i>	<i>1.43</i>	<i>2.11</i>	<i>1.95</i>	<i>1.54</i>	<i>3.75</i>	<i>1.35</i>	<i>3.094</i>
December	<i>4.66</i>	<i>4.03</i>	<i>2.62</i>	<i>3.09</i>	<i>4.36</i>	<i>1.66</i>	<i>4.13</i>	<i>2.05</i>	<i>2.65</i>	<i>2.58</i>	<i>3.183</i>
TOTALS	<i>36.21</i>	<i>38.47</i>	<i>48.49</i>	<i>36.37</i>	<i>28.37</i>	<i>27.65</i>	<i>34.91</i>	<i>18.66</i>	<i>24.56</i>	<i>25.33</i>	<i>31.902 ?</i>

1880.

Annual values rejected from series (5' low.)

RAINFALL AT

Milnrow Pothome Kitchiff

2858

Lat.

Lon.

County of

Lancashire

Rain Gauge, by

Observer

G. H. Hall Esq. C.E.

C. J. Batley Esq. C.E.

Mersey Inwell 3

Diameter	5											
Height	4 0											
Altitude	767 T											
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January	4.94	3.31	1.90	1.70	4.43	3.01	1.99	1.78	3.44	6.52	3.302	
February ....	.50	.33	1.33	8.87 [?]	6.01	.48	2.28	2.45	3.25	1.55	2.705 [?]	
March	2.65	1.26	.41	1.90	4.29	3.82	5.43	4.94	1.62	2.75	2.907	
April .....	.92	1.23	.95	.55	1.88	2.42	1.61	3.60	2.37	3.66	1.919	
May	2.44	2.77	3.47	2.21	2.75	.73	.59	1.72	3.54	3.42	2.364	
June	3.11	.68	2.28	2.12	3.36	4.59	2.63	3.56	2.74	1.77	2.684	
July	2.43	2.95	2.47	2.71	2.91	7.14	2.39	1.56	1.58	1.72	2.786	
August	4.58	7.76	3.56	2.37	3.85	5.19	2.88	4.41	6.07	2.05	4.272	
September...	1.24	2.07	4.69	3.74	3.0	1.92	7.44	4.49	.86	6.43	3.318	
October.....	2.29	5.37	6.58	4.82	5.34	4.17	5.54	2.18	5.24	4.00	4.553	
November...	4.33	2.69	4.11	3.10	2.71	3.63	1.64	5.45	2.76	1.74	3.216	
December ...	.32	5.80	3.59	4.49	4.06	4.67	6.02	6.28	4.85	2.57	4.265	
TOTALS ...	29.75	36.22	35.34	38.58 [?]	41.89	41.77	40.44	42.42	38.32	38.18	38.291	

rejected October value (1900)

1890-

Extract from letter from Mr. Watts dated 20-7-94 "Kitchiff gauge being placed on the crest of the embankment was never reliable & I have removed it to a more eligible site 300 yards NE of its old position but 3ft higher O.D. Its readings now correspond more correctly with those of Cold Greave gauge which I regard as occupying the most favourable site in the valley. Kitchiff reading for Feb'y 1893 is abnormal and in my opinion some spray from the reservoir got blown into it.

1899 New High Church 1 1/2 miles S.W.

Annual values rejected from survey. (5" low).

RAINFALL AT *Milnour Pithorne Kitchie*

Lat.

Lon.

County of *Lancashire South**Rankin*
*Snoden*Rain Gauge, by *Cassattelli*Observer *C. J. Batley Esq. Ch.**Jewell 3*

Diameter ..	5										
Height	4.6										
Altitude ..	767										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	6.90	2.53	2.89	4.80	4.57	2.27	6.22	1.85	3.83	2.75	3.861
February ..	3.87	1.66	1.52	4.58	4.98	2.47	4.22	2.40	3.37	2.22	3.129
March ....	.71	4.08	2.62	6.30	2.70	4.73	3.98	3.57	3.25	3.53	3.547
April	2.95	2.95	2.09	2.65	3.32	3.78	1.80	2.72	2.45	4.23	2.894
May	1.80	1.99	2.95	4.06	3.62	.76	3.61	4.26	2.53	2.44	2.802
June	5.71	2.97	1.51	1.91	1.22	3.08	1.42	8.65	2.29	2.45	3.121
July	3.46	2.43	2.72	4.73	2.02	2.84	2.60	3.40	5.88	5.82	3.590
August	6.07	2.51	3.33	5.90	5.24	5.00	4.62	4.11	3.89	3.57	4.424
September ..	1.62	1.06	2.40	6.22	2.01	3.56	1.65	1.01	4.46	2.95	2.694
October	5.89	3.44	5.33	9.47	2.05	4.06	8.32	7.09	2.23	6.59	5.447
November ..	4.47	6.36	2.51	3.85	3.63	5.36	4.84	3.87	2.77	1.52	3.918
December ..	6.42	6.01	3.77	3.01	3.68	.93	3.91	5.11	3.30	7.78	4.392
TOTALS ..	49.87	37.99	33.64	57.48	39.04	38.84	47.19	48.04	40.25	45.85	43.810

1900 New Hey Church 1 1/2 miles S.W.

Hills 250 ft high 1/2 mile N + S

New Hey Station 1 1/2 miles S.W.

† Inspected

Annual values rejected from survey (5 hrs)

RAINFALL at Milvins Piethorne KitchipsCounty of South GloucestershireObserver C. J. Batty, Esq. C.E.River Basin Messy Inwell 3Smarden Rain Gauge, by Caratelli

Diameter ...	5										
Height	4.6										
Altitude ...	769 ft										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	5.64	1.87	4.14	4.05	3.79	6.66	3.93	3.21	3.30	3.38	
February ...	4.87	5.21	2.37	1.62	3.31	4.95	5.59	1.04	6.85	1.21	
March	1.03	2.29	6.26	5.74	5.73	1.99	3.27	2.86	2.07	5.29	
April	3.57	2.83	1.22	5.45	1.62	1.86	2.73	2.13	1.49	1.89	
May	2.76	2.06	3.50	3.62	2.66	2.46	3.05	2.09	2.40	1.80	
June	5.32	3.34	5.40	2.75	3.35	.95	2.82	2.26	1.34	1.97	
July	4.79	.55	4.95	1.27	4.69	5.27	2.79	2.12	4.64	2.21	
August	6.16	3.18	7.27	2.55	3.70	5.08	3.75	8.12	3.29	3.66	
September ..	.26	3.84	1.57	1.90	2.84	.98	2.66	2.41	12.65	2.04	
October ...	4.05	3.40	5.04	2.33	2.75	2.43	8.25	7.71	3.90	3.18	
November ..	5.76	5.83	3.42	5.45	5.45	2.17	3.82	3.84	2.28	3.65	
December ...	5.10	6.80	5.96	2.83	7.50	8.04	3.35	2.43	9.06	7.60	
TOTALS ...	49.31	41.20	51.10	39.56	47.39	42.84	46.01	40.22	53.27	39.88	

1912 Hills 200 ft high 1/2 mile SW

+ Inspected

Rejected from Survey 5" low.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
			New Hay	1 1/2 m	SW	New Hay	1 1/2 m	SW

RAINFALL at Millmow, Piethorne, Kitcheliffes newsg.County of S. Lancashire Observer C. J. Batley CE.River Basin Hyersy Inwell. 3. Ordinance Cont. 4010.Snarson Rain Gauge, by Cassella
N.O. (126)

Diameter ...			5	5							
Height				10							
Altitude ...				766							
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEANS
January ...				4.80	3.65	4.09	5.78	5.47	13.17	2.81	7.87
February ...				7.40	1.50	7.56	4.15	2.11	6.11	.94	.91
March				2.67	2.04	1.92	1.95	5.77	3.64	1.51	2.78
April.....				4.04	2.37	3.16	2.34	4.30	1.28	1.60	4.02
May				4.62	6.08	4.99	5.31	1.69	1.75	4.33	2.50
June				1.18	3.54	.07	3.27	4.82	7.47	1.83	2.54
July				5.86	4.37	2.99	3.70	3.60	2.17	3.27	7.26
August				6.10	6.66	4.28	5.85	8.79	6.29	6.25	8.16
September...			#	3.93	4.93	6.07	3.94	3.77	6.52	6.4	2.31
October.....				1.36	6.45	7.10	6.73	4.65	5.29	5.70	6.63
November...				3.64	7.94	2.87	3.96	7.04	5.65	7.82	10.03
December...				5.56	5.10	6.66	4.33	2.51	1.67	3.71	8.44
TOTALS...				6.11	52.91	48.02	50.32	55.68	59.75	49.95	58.96

1923. Hills 220ft. miles away to S. & N.

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
1923	53° 36' 35"	2° 3' 36"	New Hey	13 in	S.W.	New Hey	13 in	S.W.

RAINFALL at *Milnrow Pelthorne Kitchie*County of *Lancashire*Observer *C. J. Batty Esq. C.E.*River Basin *Mersey - Irwell 3*

5.00 } *Snowdon* Rain Gauge, by *Casartelli*
 5.00
 5.00
 5.07

Glass correct (Casartelli)

Diameter ...	5										
Height	4.6										
Altitude ...	769										
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS.
January ...	4.77	6.98	5.87	4.23	3.40	3.82					
February ...	4.27	5.15	5.14	6.88	1.21	7.19					
March	3.75	3.69	3.42	2.48	1.86	1.68					
April	5.70	1.86	3.27	3.80	2.09	2.91					
May	6.73	2.84	1.24	4.12	5.72	4.75					
June	2.75	.30	2.81	.93	3.29	.06					
July	10.04	2.14	5.54	5.57	4.00	2.83					
August	3.08	6.34	5.59	5.54	6.22	4.02					
September...	2.95	1.40	3.57	4.40	5.69	3.58					
October	1.80	3.93	1.10	5.88	6.76	6.44					
November...	2.24	2.66	3.41	7.41	2.71	3.70					
December...	4.28	6.88	4.90	4.78	6.38	3.91					
TOTALS...	52.36	39.23	43.92	56.02	49.33	44.89					

1920 Hills 250 ft high $\frac{1}{2}$ mi S & N

Inspected B.S. 7.22 5. sunk in pedestal 4 ft high, giving rise to risk of imploding
 a good site at the bottom of a gentle hollow with no obstructions. About
 5 years ago a 1 ft. gauge nearby was found to agree well (!) compensating
 errors.



Projected from survey 5° 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	Parish Church.	Distance from gauge	Direction
1920			New Hey	1 1/2 mi	S W	New Hey	1 1/2 mi	S W

Station No. 2858RAINFALL at Milsons (Pethorne, Kitchcliffe)

41

County of South Lancashire Observer G. Ransfield Esq.River Basin Messy, Laxell - 3Type of Gauge M.O.Annual Average 46.1 in. based on 20 years obs. unweighted. Period of average 1881 - 1915 Ref. I.W.S.File No. 610.057/26

Diameter	5"			561	467						
Height	1'0"				1						
Altitude	766'				741		7				
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.88	5.60	6.14	6.99	5.12	5.92	4.43	10.81	2.13	2.95	51.97
February	5.78	1.90	3.36	2.68	6.89	6.94	.79	3.67	3.24	6.07	40.82
March	5.31	3.21	1.61	.60	1.63	1.99	7.80	2.16	2.16	2.53	29.00
April	3.61	2.82	2.73	3.60	2.99	2.05	5.02	2.63	5.02	4.06	34.53
May	2.74	4.59	3.07	5.59	4.88	2.14	2.98	2.01	5.43	2.19	35.62
June	1.43	1.10	4.42	3.92	6.16	3.81	3.96	5.94	.82	2.71	34.27
July	2.78	4.29	2.90	4.73	2.11	5.58	3.88	2.15	2.57	4.56	35.55
August	7.66	5.44	5.90	4.24	3.00	6.14	.50	6.35	3.65	7.19	49.97
September	.74	2.68	4.76	5.60	3.47	8.30	3.81	3.47	1.60	7.60	42.03
October	5.33	6.11	3.47	5.66	7.11	1.26	1.34	3.32	5.67	3.03	42.30
November	3.21	1.34	3.61	8.97	.71	8.81	7.84	2.70	8.07	6.22	51.48
December	2.60	4.41	2.90	5.64	3.26	4.38	5.24	5.27	7.60	3.88	45.18
TOTALS	43.07 D	43.49 D	44.87 D	58.22 D	46.83 D	57.32 D	47.59 D	50.38 D	47.96 D	52.99 D	492.72

1941 Hill 220' high 1/2 m. S.W.

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			New Hey	1 1/2 m.	S.W.	New Hey	1 1/2 m.	S.W.

BRITISH RAINFALL ORGANIZATION

Station No. 2858

RAINFALL at Milnrow (Pictone, Kitchliff)

51

County of LancashireObserver G. Busfield Esq.River Basin Mussey-Drwell-3Type of Gauge M.O.Annual Average 46.05 in. based on 29 years obs. un-weighted. Period of average 1881-1915 Ref. J.W.S.
" 44.03 " " 26 " " within 1931-57 " " 1916-50 File No. 660607/26

Diameter ...	5 ¹			561	467							
Height ...	11 0 ⁰				1							
Altitude ...	760 ¹				51							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	Totals
January ...	5.22	5.21	1.90	4.53	3.48	5.52	5.02	4.89	4.06	6.62	46.45	
February ...	3.65	1.50	2.87	3.72	2.99	1.67	3.74	6.70	4.46	3.57	30.87	
March ...	5.70	3.01	2.35	3.27	2.61	1.64	4.18	2.78	2.41	1.47	29.42	
April ...	2.44	4.26	4.25	9.4	2.51	4.38	5.3	1.58	4.61	2.75	28.75	
May ...	2.65	2.98	3.44	3.88	4.49	2.01	2.01	4.85	2.69	2.07	31.07	
June ...	.84	3.80	2.85	4.03	3.55	3.65	2.48	6.10	3.12	1.87	32.29	
July ...	4.53	3.14	6.22	5.58	1.24	7.89	5.52	5.01	4.25	8.17	51.55	
August ...	6.56	4.56	5.53	7.73	1.18	12.73	5.84	6.83	7.4	6.11	57.81	
September ...	3.45	4.37	3.65	6.98	3.29	4.48	6.06	5.77	4.7	3.41	42.13	
October ...	1.49	6.97	2.72	8.97	2.69	3.22	7.08	5.15	4.63	5.91	48.83	
November ...	8.73	3.06	5.20	7.09	2.36	1.77	3.27	1.86	5.55	7.89	46.78	
December ...	8.26	4.65	2.17	7.18	6.31	5.24	5.05	5.08	8.42	5.00	57.36	
TOTALS ...	54.22	47.51	43.15	63.90	36.70	54.20	50.78	46.60	41.41	54.84	503.31	
	D	D	D	D	D	D	D	D	D	D		

1951 Feb 220' high at 1/2 mile S. & N.

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference SD(34) ^{66/123}

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

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	Comp 1922	✓	✓	
	✓ list - 13, 14	224-30	✓	✓	