

RAINFALL AT Milrow, Pielthorne Colliery

Lat.

Long.

County of

Lancashire

Rain Gauge, by

Observer

J. F. Batteson Esq., F.R.S.

Mersey - Swell 3

Diameter							5"			
Height							4' 2			
Altitude							894 ft			
Year.....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889
									MENS.	
January						2.72	5.00	1.69	1.47	2.45
February						3.68	7.3	.94	.41	2.13
March						2.52	3.00	1.58	2.98	2.26
April						2.36	2.98	1.38	2.74	3.61
May						1.87	2.35	5.75	1.84	1.87
June						1.31	3.89	1.97	5.2	2.67
July						4.71	1.67	5.68	2.06	6.96
August						2.39	1.46	2.29	1.44	4.34
September.....						2.75	4.68	3.99	5.71	1.63
October						2.39	7.42	6.57	3.12	2.27
November.....						1.78	3.25	2.45	2.73	8.47
December						5.39	1.84	4.91	2.99	3.58
TOTALS.....						37.84	45.32	26.00	38.39	37.02

Annual values rejected from survey (5° low).

RAINFALL AT Milnrow Pethorne Colnehead
 Lat. _____ Lon. _____ County of Lancashire

 Rain Gauge, by G. H. Hill Esq. C.E.
 Observer C. J. Battley Esq. C.E.

Mersy Irwell 3

Diameter	5										
Height	4 2										
Altitude	894 T										
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January	5.65	2.87	2.62	1.02	3.71	2.73	2.26	1.47	4.75	6.77	3.985
February	.73	.30	1.63	4.60	5.45	.32	2.35	1.89	4.27	1.55	2.309
March	3.87	1.47	.45	.74	3.72	2.99	4.82	4.21	2.18	3.25	2.770
April	1.35	1.91	1.08	.71	1.95	2.27	1.62	3.36	2.92	4.27	2.144
May	3.30	3.28	4.63	2.97	2.49	.70	.65	1.80	4.36	4.10	2.828
June	3.97	1.69	3.52	2.51	3.37	4.63	2.81	3.46	3.47	1.69	3.112
July	3.34	3.32	3.09	3.24	3.05	6.76	2.58	1.47	.64	1.66	2.915
August	6.05	8.50	4.55	2.25	3.67	4.81	3.06	4.34	5.65	1.98	4.486
September	1.88	3.16	4.64	3.01	.33	1.89	7.95	4.38	.76	6.35	3.436
October	3.14	6.41	7.32	3.45	4.95	4.12	5.43	2.12	5.50	3.97	4.641
November	5.70	4.00	3.11	2.81	2.59	3.98	1.58	5.23	3.07	1.55	3.362
December	.37	7.63	1.73	3.84	4.45	5.59	5.74	7.33	6.13	3.15	4.596
TOTALS	39.35	44.54	38.37	31.15	39.73	40.79	40.85	41.06	43.70	40.29	39.983

rejected 8th Jan 1902

 1891, 1892 + 1893 unreliable the fall decreasing rapidly
 1898 Newhey Church 2 miles S.W.

Annual values rejected from survey (5% low)

RAINFALL AT Milnrow Piethorne Colnegrave
 Lat. Lon. County of Lancashire South
 Rain Gauge, by Observer C. J. Batley Esq. C.E.

Gravel 3:

Diameter ..	5									
Height ..	4. 2									
Altitude ..	894 ft									
Year ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	MEANS.
January ..	7.73	3.95	2.37	4.09	4.17					
February ..	4.39	1.52	1.40	4.11						
March ..	1.52	3.63	2.21	5.35						
April ..	3.68	2.64	1.71	2.45						
May ..	1.84	2.03	2.64	2.81						
June ..	5.76	2.81	1.47	4.86						
July ..	3.86	2.46	2.30	4.36						
August ..	7.49	2.16	2.78	5.37						
September ..	2.41	1.00	2.10	5.86						
October ..	8.71	3.01	4.85	9.00						
November ..	6.91	6.12	1.97	3.58						
December ..	11.35	4.54	3.12	2.62						
TOTALS ..	65.65	35.87	28.92	52.46						

low

1900 Newhey church 2 miles S.W.
 Hills 200 ft high $\frac{1}{2}$ mile N+S

1900, surely too big

+ Inferred

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

RAINFALL AT Milnrow Pithorne Colnegreene

Lat. Lon. County of Lancashire

 Glascote Rain Gauge, by Casarolle. Observer C. J. Ratley Esq. Ch.
 Inwell New Gauge

Diameter ..	5										
Height ..	4 6										
Altitude ..	894 ft										
Year ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..			2.72	4.09	4.17	2.03	5.53	1.64	3.36	2.58	
February ..			1.48	4.11	3.76	1.87	3.59	2.17	2.94	1.95	
March ..			2.41	5.35	2.40	4.22	3.50	3.33	2.82	3.10	
April ..			1.84	2.45	3.02	3.03	1.57	2.73	2.47	3.75	
May ..			2.86	3.81	3.32	.65	3.19	4.09	2.81	2.38	
June ..			1.60	1.86	1.15	2.90	1.60	7.56	1.94	2.22	
July ..			2.53	4.36	1.85	2.91	2.41	3.13	5.07	5.52	
August ..			3.03	5.37	4.80	4.46	4.17	4.16	3.68	3.45	
September ..			2.34	5.86	1.87	3.28	1.52	.86	3.95	2.81	
October ..			5.29	9.00	1.86	3.70	8.27	6.72	2.13	5.94	
November ..			2.19	3.58	3.30	5.12	4.64	3.30	2.47	1.56	
December ..			3.46	2.62	3.27	.82	3.58	4.60	2.57	7.25	
TOTALS ..			31.75	52.46	34.77	35.29	43.57	44.29	35.71	42.43	

1902 New Hey Church 2 miles S.W.

Hills 200 ft high ½ mile S+N

New Hey Station 2 miles S.W.

+ Inspected

Annual values rejected from Survey (5" low)

10²⁸⁵⁹RAINFALL at Melnow Piethorne ColneCounty of South LancashireObserver C. J. Battye Esq. cl.River Basin Mersey. Incll 3Station Rain Gauge, by Cavatelli

Diameter ...	5	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
Height	4.6											
Altitude ...	894 ft											
Year ...		1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	
January ...	5.13	1.63	3.79	3.68	3.67	6.30	3.75	3.12	2.77	5.04		
February ...	4.25	4.81	2.27	1.58	3.21	4.30	5.21	1.00	6.43	1.05		
March99	2.13	5.95	5.32	5.60	1.89	3.01	2.93	1.89	4.38		
April	3.72	2.66	1.15	5.17	1.54	1.74	2.66	1.97	1.43	1.76		
May	2.67	1.89	3.70	3.46	2.63	2.41	2.78	1.80	2.38	1.88		
June	5.07	3.42	6.10	2.65	3.16	.92	2.87	2.22	1.34	2.06		
July	4.72	.55	4.19	1.34	4.59	5.11	2.73	2.32	5.42	2.34		
August	5.76	3.27	7.22	2.52	3.60	5.44	3.76	7.83	3.51	3.76		
September ..	.24	3.75	1.69	1.92	2.80	1.00	2.74	2.35	12.32	2.10		
October ...	3.95	3.38	4.52	2.38	2.70	2.38	7.70	7.11	3.87	3.39		
November ..	5.15	5.43	3.09	5.36	5.46	2.12	3.45	3.74	2.17	3.55		
December ...	4.83	6.19	5.66	2.75	6.96	7.86	3.06	2.34	8.50	6.84		
TOTALS ...	46.48	39.10	48.33	38.13	45.92	41.47	43.72	38.73	52.03	38.15		

1912. Hill 200 ft high $\frac{1}{2}$ mile N + S

Rejected from Survey. 5" low.

† Inspected

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
			New Hey	2 m	S.W.	New Hey	2 m	S.W.

RAINFALL at Milnrow (Pictorine) Collycavane

County of Lancashire Observer G.J. Ballay Esq. C.E.

River Basin Mersey - Irwell 3

Snowdon Rain Gauge, by Casarcelli
 B.A. funnel (22) built into iron pillar.
 funnel correct
 (Dr. 1920)

Glass .01 ~ .014 .36 = .343 } 1 in
 .13 ~ .130 .50 = .510 }
 .245 ~ .250

Diameter ...	5"										MEANS.
Height	4.6										
Altitude ...	894										
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	
January ...	4.21	6.69	3.77	4.01	3.07	3.56					
February ...	3.87	.57	4.69	6.07	1.17	6.46					
March	3.47	3.64	3.22	2.47	1.70	1.80					
April.....	5.63	1.51	3.08	3.49	2.06	2.72					
May	6.53	2.96	1.32	4.15	5.69	4.18					
June	2.88	.36	2.64	1.08	3.18	.06					
July	9.68	2.21	5.51	5.31	3.88	2.82					
August	3.12	6.43	5.78	5.51	5.92	3.71					
September...	2.76	1.45	3.50	4.21	5.48	3.49					
October.....	1.73	3.63	1.22	5.70	6.16	5.93					
November...	2.10	2.53	3.26	6.56	2.53	3.40					
December...	4.09	6.66	4.35	4.05	5.73	3.58	See new gauge				
TOTALS...	50.07	38.52	42.34	52.61	46.59	41.41					

1920 Hills 200 ft. High 1/2 mi N+S.

Inspected Ch. 1.4.22. 3-m. flat land at bottom of valley. Fair shelter but land drops slightly to reservoir 200 yds. E. Over exposed in a limited degree, the effect being aggravated by shallow funnel & height of it above ground.



Rejected from survey. 5" class.

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
1920			New Hey	2 mi	S W	New Hey	2 mi S W

(No. 2859) 20

RAINFALL at Kilnrow, Piethorne, Coldgreen ²⁰ newy.

County of S. Lancashire Observer C. J. Batley CE

River Basin Mersey. Divell 3. Gladham Corp. Wh.

Snowden Rain Gauge, by Cassella

1923. Wall off high 20 ft away to S.W.

See expected Ch. 7.7.22. 200 yds. E.W. of old g. towards bottom of
valley. A beautifully
rising slightly to N.E.
1936. Hills 200 ft. high, $\frac{1}{2}$ m. N.W.S.

1926. Hills 200 ft. high, $\frac{1}{2}$ m. N.E.S.

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
1923	53° 36' 30"	22° 57'	New Hey	2 m	S.W.	New Hey	2 m	S.W.

RAINFALL at Milnrow (Pielthorne, Oldgreave)

County of South Lancashire

Observer C. T. Batley, Esq., C.E.

River Basin Mersey-Tame-?

C. P. G. Field, Eng. 11221

Type of Gauge M.O.

Annual Average H_o. 3 in. based on 7 years obs. un-weighted. Period of average 1881-1915 Ref. 5
660607/26.

Diameter	5"											
Height	1.0.											
Altitude	832.											
Year	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	Mean	TOTAL
January	5.98	6.31	3.149	3.90	2.01	4.75	4.17	6.72	7.10	2.37	46.80	
February	6.84	5.55	5.145	3.86	6.66	3.84	7.05	2.10	5.97	3.12	41.64	
March	4.46	3.07	4.58	3.70	2.11	3.34	3.29	1.13	3.66	3.95	29.29	
April	4.23	4.41	2.36	3.34	4.69	2.18	2.50	7.1	2.88	3.36	30.66	
May	3.29	6.19	2.00	3.28	1.31	1.81	2.35	4.19	2.12	1.30	27.84	
June	6.66	1.07	3.55	2.83	5.59	6.03	2.59	4.02	3.45	1.04	36.53	
July	5.12	4.95	3.62	3.60	2.29	4.50	2.29	4.55	7.04	5.43	43.39	
August	7.02	1.96	1.53	3.57	2.17	2.64	2.44	4.08	2.44	2.40	30.20	
September	4.87	5.50	2.38	4.84	7.68	5.87	2.03	1.81	1.74	5.13	41.35	
October	2.84	8.23	4.90	5.55	10.23	5.75	2.81	9.35	3.56	5.45	58.67	
November	8.47	3.73	2.59	3.27	7.31	6.88	2.98	5.09	8.09	8.80	57.21	
December	2.61	2.52	6.69	6.71	3.69	4.45	2.92	6.05	4.35	5.15	39.04	
TOTALS	58.29	48.49	37.14	44.15	55.74	51.74	37.42	49.75	52.40	47.50	482.62	
	D.											

Walls 6' high 30' SW.

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
1921			Hew Hey	2m	SW.	Hew Hey.	2m.	SW.

Station No. 2859

RAINFALL at Milnrow (Pethorne) Old Greave

41

County of South Lancashire Observer G. Busfield Esq.

River Basin Mersey Gravelly - 3

Type of Gauge M.O.

Annual Average 46.3 in. based on 7 years obs. un-weighted. Period of average 1881-1913

Ref. S.

File No. 160607/26

Diameter	5"		561	463							
Height	10°				1						
Altitude	832'				41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means T 92.0
January	2.22	5.40	6.40	7.32	5.32	6.12	4.25	10.93	2.29	3.05	53.80
February	6.91	2.01	3.82	2.79	6.43	7.35	6.9	3.77	3.08	5.85	42.50
March	6.36	3.76	1.73	6.63	1.68	2.02	7.46	2.05	2.03	2.40	30.12
April	4.30	2.93	2.76	3.47	2.97	2.13	5.26	2.45	4.65	3.95	34.87
May	2.94	5.05	3.06	5.23	4.86	2.92	2.83	1.69	5.02	2.26	35.09
June	1.56	1.27	4.33	3.87	6.06	3.63	3.93	5.38	8.7	2.75	33.65
July	2.59	4.70	3.12	4.45	1.95	5.31	3.33	2.02	2.30	4.23	34.00
August	7.44	5.62	6.06	4.15	3.09	5.32	4.45	5.48	2.99	6.71	47.61
September	7.2	3.02	4.88	5.45	3.28	7.82	3.87	3.00	1.42	7.33	40.79
October	5.42	6.93	3.45	5.39	7.21	1.36	1.28	2.94	5.09	2.99	42.06
November	3.91	1.38	3.81	9.21	.85	9.06	8.01	2.33	7.48	6.35	52.25
December	2.83	4.60	2.92	5.61	3.11	4.38	5.15	4.59	8.16	3.69	45.04
TOTALS	46.93	46.67	46.34	57.57	46.81	56.82	46.51	46.63	45.38	51.56	491.28

1941 Wall b'high 30 S.W.

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
1941			New Hey	2 m.	S.W.	New Hey	2 m.	S.W.

BRITISH RAINFALL ORGANIZATION

Station No. 2859

51

RAINFALL at Milnrow (Ridgeway, Cold Greave)

County of Lancashire

Observer G. Busfield Esq.

River Basin Mersey-Trarrell 3

Type of Gauge. M.R.

Annual Average 46.3 in. based on 7 years obs. un-weighted. Period of average 1881-1915 Ref. 5
 " 49.59 " " 33 " " within 1922-57. " " 1916-50
 File No. 660607/26

Diameter ...	5"			561	463							
Height ...	1' 0"					1						
Altitude ...	832'					51						
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	Total
January	5.44	5.35	1.83	4.33	3.37	5.49	5.04	4.65	4.16	6.76	46.42	
February	3.95	1.48	3.13	3.42	2.97	1.70	3.73	6.79	5.50	3.26	30.83	
March	5.98	3.05	2.46	3.09	2.68	1.64	4.35	2.63	2.27	1.66	29.71	
April	2.86	4.19	4.28	.92	2.30	4.29	.53	1.32	4.76	2.93	28.38	
May	2.90	2.83	3.38	3.76	4.45	2.02	1.69	4.61	2.86	2.09	30.49	
June	.66	3.57	2.72	3.95	3.73	3.49	2.54	6.09	2.91	1.90	31.56	
July	4.45	2.71	5.87	5.60	1.20	7.34	5.80	5.11	4.08	8.59	50.75	
August	6.34	4.59	5.30	7.53	1.04	12.49	5.86	6.26	.71	6.17	56.29	
September	3.31	4.17	3.43	6.71	3.12	4.63	6.24	5.63	.62	3.53	41.39	
October	1.55	6.62	2.60	8.61	2.62	3.08	7.08	4.80	4.76	6.00	47.72	
November	8.76	2.91	5.10	7.01	2.20	2.00	3.58	1.88	5.61	7.62	46.67	
December	8.37	4.35	2.05	7.19	6.23	4.96	5.38	5.16	8.31	4.94	56.94	
TOTALS	54.47	45.82	42.15	62.12	35.91	53.13	51.82	54.73	41.55	55.45	497.15	
	D	D	D	D	D	D	D	D	D	D		

1951 Wall at 6' high 20° to SW.

Position of Station on Ordnance One-Inch map : No. of Map National Grid Reference SD(34)947126

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge
1951			New Hey	2 m.	SW	New Hey	2 m. SW

Summary of Earlier Records from 10-year Sheets :

Record D, or d		1910-19	1920-30	1931-40	1941-50	1951-60
			Cimp 1922 D 23 - 30	✓	✓	✓