

RAINFALL at Norden Higher Red LumbCounty of South LancashireObserver J. Duggle Esq. C.E.River Basin Messery - Swell 3F. Buckley.Rain Gauge, by Parilla
7653

Diameter ...		5									
Height		1.6					1.2				
Altitude ...				1125							
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...		1.82	3.96	4.64	3.56	6.75	3.86	2.81	3.58	4.93	
February ...		5.68	2.20	1.84	2.49	5.06	4.68	1.40	7.31	.97	
March		2.45	6.00	4.75	5.85	1.72	2.20	2.27	2.49	4.75	
April		2.81	1.09	4.95	1.81	1.89	3.36	1.82	.96	2.74	
May		2.26	2.87	3.63	2.74	2.02	3.12	2.08	3.48	2.31	
June		4.08	7.33	2.85	3.02	1.58	3.56	2.41	1.80	1.98	
July40	5.43	1.33	5.70	5.45	2.70	3.25	4.86	2.59	
August		2.94	8.42	2.51	4.19	6.70	4.63	7.37	3.83	4.61	
September ..		4.90	2.18	2.21	4.61	.98	3.25	3.13	12.91	2.55	
October ...		3.70	5.62	2.24	2.96	2.05	8.06	10.52	4.76	2.92	
November ..		4.67	3.84	5.64	5.96	2.00	3.47	6.57	2.94	4.17	
December ...		6.83	5.39	2.70	6.05	8.50	3.57	2.75	10.55	8.40	
TOTALS ...		42.54	54.33	39.29	48.94	44.70	46.46	46.38	59.47	42.92	

1915 Wall

5ft high 78
50 yards N

Rejected from Survey. 6" low.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1918			Wardleworth	4 1/2 1 1/2	N. E.	Norden St Pauls	1 1/2	N W

RAINFALL at Norden Higher Red LumbCounty of LancashireObserver J. D. Diggle Esq. C.E. (Eng.)River Basin Mersey - Inwell 3Haywood & Ryddalton Water BdRain Gauge, by Casella 7653Fontwinke (Secy & Manager)

Diameter ...	5"						5				
Height	1.2						1.3				
Altitude ...	112.5						112.5				
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEAN.
January ...	4.71	7.29	4.38	4.60	3.90	3.53	5.32	4.55	13.21	2.15	5.84
February ...	4.52	.61	5.54	5.99	1.30	6.96	4.68	2.30	5.64	1.90	.38
March	3.80	3.54	3.72	2.25	1.81	1.77	2.23	4.84	3.13	1.70	2.50
April	6.05	1.77	2.90	4.15	2.06	2.54	2.00	2.73	1.28	1.28	2.49
May	4.69	3.33	1.95	4.46	5.79	5.34	4.53	1.93	1.33	3.42	1.98
June	3.96	.42	3.20	1.15	3.19	.11	3.24	5.33	7.94	1.61	2.02
July	9.48	1.94	5.84	4.33	5.67	2.29	2.71	3.92	2.64	3.94	6.75
August	3.12	7.08	5.30	6.64	8.27	4.50	4.95	7.81	7.29	6.64	8.66
September...	2.95	1.86	5.06	5.68	5.33	4.05	3.85	6.86	0.82	2.18	4.64
October	1.69	3.67	1.07	6.91	6.22	5.70	4.05	5.21	6.28	6.80	6.74
November...	2.41	3.42	3.98	7.82	3.13	2.23	6.71	5.18	6.56	8.64	6.69
December...	4.18	7.28	4.65	5.23	5.45	3.18	2.11	1.19	3.33	8.01	4.18
TOTALS...	51.56	42.21	47.59	59.21	52.12	42.20	46.48	51.85	59.45	47.67	52.87
							M	M			

1920 Stone Wall 5 ft high 78 yds W

Rejected from Survey, 6" 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
1920			Wardleworth Rochdale	4 mi	E	Norden	1 mi	E

RAINFALL at Norden (Higher Red Lumb)County of South LancashireObserver Heywood Water BoardRiver Basin Messy. Irwell-3Type of Gauge BradfordAnnual Average 42.0 in. based on 17 years obs. un-weighted. Period of average 1881-1915 Ref. PB 35

SIS 115/28

Diameter	5.										
Height	1.3.										
Altitude	1125.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	5.68	5.80	2.90	3.41	2.27	5.37	4.62	6.14	5.78	2.24	
February	5.31	2.25	4.52	5.6	6.08	2.90	6.41	2.29	5.53	2.87	
March	4.46	2.94	3.22	2.86	1.80	2.96	2.31	1.34	2.89	3.65	
April	3.77	4.26	2.10	2.61	3.80	1.32	3.78	.77	2.26	2.93	
May	3.19	5.66	1.92	2.39	.92	1.26	2.22	3.68	1.85	1.02	
June	6.55	.92	1.86	2.84	2.22	4.08	2.21	5.10	4.09	.99	
July	5.04	4.26	3.29	2.34	2.11	4.64	2.86	5.15	7.33	4.80	
August	5.91	1.25	2.38	3.16	1.94	3.53	2.64	4.93	3.72	2.35	
September	3.73	5.12	1.92	4.05	8.71	5.88	2.10	2.10	1.49	5.44	
October	2.69	8.90	4.87	6.33	9.94	6.35	2.24	11.22	2.47	5.38	
November	10.78	3.55	2.19	2.37	5.02	6.90	2.09	5.62	8.63	8.40	
December	2.56	2.46	.61	7.16	4.31	4.94	4.36	5.73	4.19	5.82	
TOTALS	55.67	45.37	31.78	40.57	49.12	50.13	37.84	54.27	50.23	45.89	

Inspected 17/9/37 f in fence 15' diameter and 6' high - over-exposed to S.
 New site selected for g. some 150 yds S of old site & 15 yds from wall in natural
 hollow with a minimum of slope to S. Turf wall still essential.

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
			Wardleworth	4 1/2 m	E (1940)	Norden	1 1/2 m	E (1940)

Station No. 2895

RAINFALL at Norden (Higher Red Lamb)

41

County of Lancashire

Observer Heywood & Salter Rd.

River Basin Mersey, Irwell - 3

Type of Gauge Bradford

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

File No. 8.15.115/22

Diameter	5"		361	810							
Height	1'3"			1			1' 2"				
Altitude	1125'			41							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	8.9	4.07	6.16	6.52		5.45	3.86	10.04	3.16	2.75	
February	5.96	2.07	2.89	2.48		6.28	.53	3.37	3.45	6.19	
March	4.09	3.71	1.41	.71		1.49	5.60	1.67	2.06	3.21	
April	2.22	2.47	2.87	3.45		1.52	3.57	1.87	4.22	3.29	
May	2.84	1.90	2.97	3.71		1.23	2.48	2.25	3.96	1.72	
June	.31	.81	4.29	3.05		4.05	2.85	6.10	.71	3.45	
July	3.10	5.42	3.56	4.36		4.93	3.92	2.79	2.81	6.19	
August	6.62	5.22	6.85	3.82		7.94	.34	5.80	4.69	7.58	
September	1.13	2.41	5.65	5.98		8.28	3.08	3.65	1.69	8.28	
October	5.85	6.99	3.98	5.48		1.55	.92	3.68	5.82	3.23	
November	3.24	1.46	3.71	8.62		7.46	6.87	2.65	6.86	6.87	
December	2.41	4.66	2.52	5.17		3.83	3.85	4.19	7.23	3.43	
TOTALS	40.44	41.19	46.86	53.35	N.R.	54.01	37.87	48.06	46.66	56.19	
		n.p.	n.p.	n.p.		n.p.	n.p.		n.p.	n.p.	

1942 n.p. low

1943 n.p. low

1944 n.p. low

1945 n.p. low

1946 n.p. low

1947 n.p. low

1948 Jan - April still a little low, otherwise record looks O.K.

1950 n.p. 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.
1941			Ramsbottom	4 m.	N.W.	Norden	2 1/2 m.	S.

BRITISH RAINFALL ORGANIZATION

Station No. 2895RAINFALL at Norden (Higher Red Lumb)

51

County of L. LancashireObserver Heywood & Middleton Water Board.River Basin Mersey-Twedd-3Type of Gauge Bradford

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

File No. 8.15.115/28

Diameter ...	5"		561	810							
Height ...	1' 0"			1							
Altitude ...	1125			51							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	5.12	5.84	1.88	4.51	3.95						
February ...	2.52	1.52	1.97	3.49	2.38						
March ...	5.03	3.09	2.00	3.76	2.14						
April ...	2.58	3.86	3.45	.98	2.80						
May ...	1.93	2.51	2.42	4.00	4.18						
June ...	1.63	4.31	2.82	4.27	4.11						
July ...	3.40	3.04	5.78	5.94	1.25						
August ...	5.71	6.85	5.19	5.33	1.25						
September ...	4.11	4.43	4.15	5.62	4.18						
October85	5.41	2.01	8.47	2.54						
November ...	9.38	2.68	5.73	6.75	2.60						
December ...	8.64	4.83	2.00	7.15	6.41						
TOTALS ...	50.90	48.37	39.40	60.27	37.79						
	np	2. p.	n.p.lw	200	np low						

1951 n.p.lw.

1952 n.p. low.

1953 n.p.lw

1954 n.p.lw.

1955 n.p.lw

Inspected June 1956 in. Decks, gauge stem loose. Site of s/w. ^{recor} move to green field 400' s.w.

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference 34/839660

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge.	Direction from gauge.
1951			Ramsbottom	4 m.	N.W.	Norden	2 1/2 m.	S.

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	e 1911	✓	✓	41-44 46-50 n.p. 42-44 46-50	