

RAINFALL AT Grange Nutwood

70

Lat.....

Lat.

County of Lancashire

.....

Rain Gauge, by.....

Observer Revd T. Mayfield

Diameter.....												
Height	2.10	3.				2.6			1.6	2.6		
Altitude.....			100									
Year.....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January.....					4.79	6.65	2.38	7.30	4.49	1.88		
February.....					2.18	1.27	4.80	3.71	2.52	2.87		
March.....					3.63	1.04	3.63	3.50	2.25	2.30		
April.....					.96	1.52	2.74	2.20	2.67	1.33		
May.....					.97	2.41	.37	2.75	3.88	1.78		
June.....					1.10	4.84	3.74	2.36	4.77	4.90		
July.....					2.36	2.26	3.59	4.34	.68	6.50		
August.....					7.02	3.56	2.10	5.71	5.86	3.13		
September.....					5.77	5.34	4.57	3.86	4.79	4.31		
October.....					#	9.32	4.32	3.56	6.63	4.58	2.78	
November.....					2.63	4.28	6.13	2.97	7.53	2.44	1.43	
December.....					1.99	3.40	2.48	6.07	5.35	2.37	2.46	
TOTALS.....					45.78	41.82	40.52	54.74	41.30	35.67		

RAINFALL AT *Grange, Nutwood*

Lat.

Lon.

County of Lancashire

Rain Gauge, by

Observer Rev. C. Marrie

*Kent
Lancashire + C. 9*

Diameter	5"										
Height	2.6							2.6			
Altitude	100							B			
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January51	.59	3.24	6.88	7.04	2.30	4.51	2.99	2.24	3.31	3.361
February	2.98	4.50	3.59	2.31	2.54	4.08	1.68	2.16	1.02	2.89	2.775
March	2.95	5.21	3.87	1.03	3.11	3.29	4.14	2.05	2.69	2.88	3.122
April	1.48	2.17	4.37	2.18	1.06	1.69	2.76	2.07	1.50	2.48	2.176
May	1.94	3.64	2.36	1.48	2.98	1.67	4.46	1.73	1.21	3.58	2.505
June	3.83	4.50	4.17	3.67	1.10	2.06	2.01	4.42	1.63	.89	2.428
July	6.24	6.95	4.87	1.62	6.44	3.76	6.88	1.75	6.65	3.21	4.837
August	1.57	6.11	5.18	3.90	1.60	2.79	3.68	2.44	3.35	5.26	3.588
September	4.60	2.47	2.90	4.50	4.40	5.39	6.39	4.03	1.59	3.19	3.945
October	1.09	2.93	3.88	5.15	3.88	4.43	7.16	2.24	4.18	4.81	3.975
November	5.99	5.67	6.57	5.41	1.64	3.72	4.93	2.71	5.05	1.90	4.359
December	6.62	4.09	3.19	3.89	4.82	1.95	4.81	3.27	3.22	4.14	4.000
TOTALS	39.80	46.83	48.19	42.02	40.61	37.12	53.41	27.86	34.33	38.54	41.041

RAINFALL AT Grange Nutwood & Eggerslack

Lat.

Lon.

County of Lancashire

Rain Gauge, by

Observer Rev E. Massie

Mrs Arkwright

Kent & C. 3

Diameter	5										
Height	26										
Altitude	100 B										1140
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January	6.31	2.95	4.37	1.53	2.72	2.60	3.57	1.11	5.20	5.97	3.623
February77	.40	1.68	5.76	7.76	.33	3.19	3.28	3.93	3.32	3.042
March	4.71	1.97	1.47	1.42	3.05	3.98	6.55	6.20	1.75	2.27	2.327
April	1.81	2.17	1.67	.77	1.70	2.82	1.78	2.67	3.30	4.80	2.314
May	3.10	1.62	5.19	2.88	3.04	.87	.50	1.98	2.87	4.16	2.621
June	3.46	1.36	2.55	1.17	5.08	2.74	3.57	5.40	3.56	1.47	3.036
July	3.98	3.01	1.68	4.10	2.93	8.43	4.68	1.67	.95	3.47	3.190
August	5.31	8.98	7.82	4.65	4.94	5.31	3.09	5.18	8.99	1.53	5.580
September	5.03	6.87	4.69	4.14	.50	1.22	6.42	5.15	2.41	6.60	4.302
October	2.94	3.48	4.40	6.01	4.04	6.09	5.59	3.28	5.58	4.20	4.561
November	6.61	4.90	4.31	2.61	5.10	4.52	1.48	7.59	5.30	4.50	4.692
December56	7.51	3.16	4.08	4.97	5.47	7.25	6.74	5.63	3.69	4.906
TOTALS	44.59	45.22	42.99	39.12	45.83	44.38	47.67	50.25	49.47	45.98	45.660

Gauge moved 100 yards to Eggerslack which 100
is 40ft higher above sea than Nutwood

St. Paul's Church Grange 1/2 mile S.W.

RAINFALL AT Frangerton Over Sands Eggar Slack
 Lat. Lon. County of Lancashire North
 Rain Gauge, by Cawell Observer Miss Arkwright
 S.M. James Lawnden

Kent 3

Diameter ..	5										
Height	2.6					2.3					
Altitude ..	140 B										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	6.02	2.97	3.34	4.98	5.85	2.48	6.66	2.77	5.61	2.85	4353
February ..	4.12	1.22	1.78	3.77	3.85	2.80	3.58	2.94	3.42	3.44	3092
March ..	.56	4.07	2.88	4.60	3.83	3.64	4.15	5.38	4.03	4.67	3781
April ..	3.13	2.91	1.45	1.97	4.75	4.59	1.97	2.52	3.01	4.33	3063
May ..	2.42	1.69	2.83	4.71	3.11	1.77	7.13	5.82	4.25	2.45	3618
June ..	3.86	2.30	1.18	2.27	1.58	3.10	3.60	8.67	3.13	2.61	3230
July ..	3.19	1.85	4.17	5.08	2.15	2.67	3.17	5.29	4.39	7.41	3937
August ..	6.30	4.99	4.36	8.12	4.04	5.27	6.38	5.97	5.36	4.15	5488
September ..	3.52	1.99	2.32	8.68	3.46	4.20	1.68	87	6.22	3.90	3684
October ..	8.30	4.69	4.72	10.39	4.02	3.69	7.43	7.27	3.08	7.81	6140
November ..	4.93	5.87	4.14	4.47	4.54	5.39	4.75	5.04	4.93	2.50	4656
December ..	7.36	5.35	4.78	3.81	4.85	2.21	4.80	4.17	3.96	9.59	5388
TOTALS ..	53.71	39.90	37.95	62.85	46.03	41.81	55.30	59.71	51.33	65.71	50430 562

D D D D D D

Hark

1903	Frangerton	1/2 mile	50
1906	St Pauls Church	3/4 mile	5.5
	Shrubs 10 ft high	15 yards	SE
	..	12 .. 18 ..	5.5

RAINFALL at Grange over Sands, Ulverston

County of North Lanarkshire

Observer Miss S. M. Arkwright

River Basin Kent + C 3

Brit. Assoc. Rain Gauge, by Casella

Diameter ...		5								
Height		2.6								
Altitude ...		<i>Lower than your depth</i>								
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	MEANS.
January ...			3.15	4.15				2.60		
February ...			2.51	2.41				1.57		
March		6.33	3.82					2.13		
April	3.35	1.19	4.62					1.53		
May	1.41	2.52	2.51					3.39		
June	2.45	5.63	2.62					2.85		
July79	6.11	1.04					1.58		
August	3.49	6.71	2.24					8.95		
September ..	4.57	1.96	2.50					3.08		
October ..	5.43	6.16	3.39					7.45		
November ..	5.34	6.24	4.20					6.01		
December ..	7.02	5.47	3.37					2.72		
TOTALS ...		54.28	36.90					44.76		

Removed from Eggerslach

+ Inspected by Dr. Mill 26. IX. 12. G. much rusted - and collar practically rusted off so that rain can enter g. from outside. Excellent exposure in Kitchin garden.
Ins. 40-55 ft high 207 lbs 3.5.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1912			Orange	1/2 m 250 yds	SE S.	St Pauls	1/2 m	SW

RAINFALL at

County of North Lancashire

River Basin Kendal &c 3

Observer

Miss S. M. Arkwright

Gauge Rain Gauge, by Camlin

Av. 1916-1950 45.46 based on 19 years 1916-34

PB 734

New Gauge

Diameter ...			5								
Height			1.0								
Altitude ...											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...				4.15	4.24	5.25	4.80	2.60	5.41	5.60	
February ...				2.41	4.08	4.69	4.12	1.57	4.81	2.53	
March				3.82	4.67	2.30	1.47	2.13	2.09	4.77	
April				4.62	.78	2.36	2.48	1.53	1.61	1.76	
May				2.51	2.31	1.35	4.31	3.39	2.50	2.17	
June.....				2.62	1.08	.78	3.41	2.85	2.49	1.93	
July				1.04	5.12	4.70	2.51	1.58	4.73	1.01	
August.....				2.24	3.42	3.20	2.61	8.95	5.19	4.79	
September ..				2.50	3.76	.78	3.33	3.98	11.65	3.40	
October ...				3.39	2.18	1.34	7.27	7.45	5.05	2.21	
November..				4.23	5.98	2.10	3.99	6.01	2.84	2.96	
December...				9.01	3.37	5.88	7.09	4.28	2.72	8.32	7.06
TOTALS ...				36.90	43.50	35.94	44.58	44.76	56.69	40.19	

The New Gauge is 8 ft from old one in future the new gauge will be entered
 1913 trees to the right 20 yards NE
 Wall 9. 12. SW

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1913			Grange	1/4 mi 1/2	SE	St Pauls	1/2 mi 3/4	SW

RAINFALL at Grange over Sands, Nutwood

County of N. Lancashire

Observer Miss M. Arkwright ^{and} ~~VIII~~ 29

River Basin Kent & C 3

J. Steen,

Snowdon Rain Gauge, by Gaselle

Av. 1916-1950 45.46 based on 19 years 1916-34

PB 784

Diameter ...	5"										
Height	1.0										
Altitude ...			1140								
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS 1930
January ...	5.10	3.11	3.86	4.36	4.42	3.28	4.92	4.22	10.68	2.55	7.61
February ...	4.06	2.20	5.20	5.00	7.74	4.73	7.09	3.71	4.99	1.20	.52
March	3.30	4.17	2.05	1.18	3.07	1.43	1.98	3.07	3.46	1.08	3.04
April	5.89	1.34	1.79	3.14	2.38	3.00	1.88	2.54	1.85	2.14	1.93
May	4.98	2.52	3.12	3.34	5.75	3.40	2.74	2.21	1.06	2.24	1.68
June	2.66	2.26	2.72	1.82	2.71	1.47	3.23	3.33	6.33	1.89	2.24
July	6.61	1.83	5.11	5.19	4.24	2.29	4.99	3.75	6.80	3.95	3.92
August	2.15	8.38	5.50	7.57	4.46	6.00	4.26	8.00	6.46	6.18	6.09
September...	3.50	2.29	4.79	4.93	5.87	4.03	5.20	7.55	3.47	2.34	2.43
October.....	1.77	3.12	9.57	6.60	4.44	3.28	3.69	4.35	6.09	(6.50)	8.91
November...	2.74	2.58	2.74	6.87	3.17	2.47	5.45	5.86	8.79	(8.76)	5.62
December...	3.80	6.07	5.57	5.07	6.24	3.61	1.46	1.14	3.86	7.83	4.04
TOTALS...	48.56	40.87	63.40	55.42	47.49	41.99	46.89	49.73	63.84 (15.41)	48.03	
	D	D	D	D	D	D	D	D	D		

1920 Years 60ft high 30yds N.E

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			Grange	1/2 mi	SE	St. Pauls	1/4 mi SW
1929				1/4	S.W.	"	1/2 W

RAINFALL at Grange-over-Sands (Nuthwood)*

County of North Lancashire

Observer J. Steen, Esq., (died 1/31)

River Basin Kent & E - 3

Type of Gauge Snowdon.

Annual Average 45.2 in. based on 47 years obs. un-weighted. Period of average 1881-1895
 45.46 19 1916-54 1916-1950 Ref. P.B. 734
 742832/27

Diameter	5										
Height	1.0.										
Altitude	140.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	5.18	5.12	3.47	5.47	2.17						
February	4.87	.00	4.36	.29	6.31						
March	1.78	3.57	3.20	2.64	1.27						
April	2.23	3.19	2.26	4.11	3.67						
May	2.65	6.86	2.17	4.51	1.60						
June	6.83	1.95	2.77	3.20	5.17						
July	6.24	4.11	3.56	2.62	1.81						
August	3.56	1.98	3.33	5.22	4.16						
September	1.83	6.21	.73	4.97	8.89						
October	4.47	7.01	4.88	6.60	8.25						
November	8.46	3.79	2.60	1.46	4.23						
December	6.52	4.26	1.06	6.88	4.70	#					
TOTALS	53.12	48.05	34.89	48.00	51.23	N.R.					

1924. 60' high 20yds NW.
 " 20' " 56' N.W. * This gauge was at 'Nuthwood' during the period Nov. 1873
 to 1929 inclusive.
 1927. Mr. J. Steen died on 21st Jan. 1927. No record for 1926 available.
 Station terminated 31/1/37

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 from gauge	Parish Church.	Distance from gauge	Direction from gauge
1931			Grange	1/4 m	S.	St Paul's	1/2 m	W.