

RAINFALL AT *Morpeth Cockle Park*
 Lat. _____ Lon. _____ County of *Northumberland*
 Rain Gauge, by _____ Observer *Mr G. P. Berry*
Boquett 5 *J. V. Steele Esq*

Diameter									8		
Height									10		
Altitude									325		
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January				(15.60)					.77	2.52	(1.889)
February				(12.80)					1.29	1.20	(1.529)
March				(17.90)					1.73	3.45	(3.08)
April				(8.20)					3.01	2.73	(14.04)
May				(14.00)					2.27	3.34	(14.61)
June				(19.40)					1.73	1.89	(2.02)
July				(22.20)					1.10	2.15	(2.505)
August				(29.40)					2.12	.85	(3.237)
September...				(16.40)					2.22	2.00	(2.062)
October				(28.00)					5.46	2.36	(3.582)
November...				(18.70)					3.31	1.66	(2.67)
December				(19.70)					1.39	3.73	(2.42)
TOTALS				(222.40)					26.40	27.98	(27.675)

Hebron Church 1 mile S.W.
Belt of trees 45 ft high 210 ft NNE
1899 Borthol Church 5 miles SE

$$1890-99 = \text{Borthol Church (garden D)} \times \frac{100}{97}$$

RAINFALL AT Morpeth Cockle Park

Lat. Lon. County of Northumberland

M.O. N° 400

Rain Gauge, by Casella

Observer W. H. Hogg Esq

909 Day Recorder

Coyne - 5.

J. H. J. Tappin Esq

J. E. C. Dobson Esq

Diameter ..	8										
Height	10										
Altitude ..	325 K										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	3.62	1.83	.84	3.56	2.10	.52	2.21	.71	1.65	1.32	1.836
February ..	5.72	1.84	1.64	1.45	2.09	.76	1.02	1.47	1.56	2.11	1.966
March	2.27	2.39	1.15	1.56	1.87	1.72	1.28	1.18	3.48	4.48	2.138
April	1.42	1.17	1.30	1.78	1.36	2.98	.84	1.59	2.38	2.75	1.757
May	1.32	3.41	3.32	2.00	2.78	1.45	5.56	4.36	1.84	2.06	2.810
June	4.15	1.52	2.33	2.55	2.32	.64	1.83	2.89	.46	2.26	2.095
July	1.97	2.64	2.66	3.87	1.26	.95	1.70	1.79	2.72	2.18	2.174
August	5.41	2.50	1.96	2.60	2.80	4.29	3.93	2.81	2.41	2.96	3.167
September ..	.78	1.09	.82	2.21	.88	1.45	.55	.43	3.03	2.02	1.326
October	6.05	2.07	2.31	8.90	.48	3.24	5.69	5.57	1.95	2.94	3.920
November ..	3.97	4.92	1.46	2.09	4.10	4.68	3.31	1.98	1.51	.74	2.876
December ..	1.99	4.38	4.57	2.64	1.85	.61	3.13	3.66	2.89	3.66	2.938
TOTALS ..	38.67	29.76	24.36	35.21	23.89	23.29	31.05	28.44	25.88	29.48	29.003

1900 Borthal Church 5 miles SE

Trees 40 ft high 120 ft NE

1903 Morpeth Station 4 1/2 miles S

1908 Hebburn Church 3/4 mile W

Longhirst Station 2 1/2 S.E.

"Well exposed"

Hubb

RAINFALL at Morpeth Cockle ParkCounty of NorthumberlandObserver J. E. W. Dobson EsqRiver Basin Cogwell + C 5Roger Thornton Esq

Snowdon Rain Gauge, by

D. B. Johnstone - Wallace (1914)J. H. Higginbottom (1916)J. Procter Esq 1918.

Diameter ...	8											
Height	10											
Altitude ...	325 ft											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	Means. Totals	1910-19
January ...	3.62	2.32	3.22	4.51	2.25	2.42	1.28	3.15	3.80	3.33		11.56
February ...	2.45	.80	2.63	.82	1.54	2.74	2.45	.99	1.41	2.20		7.05
March .....	.76	2.33	1.89	3.06	2.77	2.48	3.63	2.25	1.19	2.25		9.32
April	2.11	1.61	.15	3.34	.61	.61	1.86	3.46	1.12	1.20		7.72
May	2.27	.82	2.73	3.09	1.68	1.60	2.80	2.53	3.26	.65		9.24
June .....	.95	5.29	5.71	1.62	3.61	.53	2.39	1.10	.59	.49		4.55
July	2.25	.53	2.76	.59	2.98	3.32	3.14	1.18	2.83	1.33		8.48
August	3.07	2.27	6.18	1.52	2.86	2.69	2.22	7.04	1.52	1.98		12.76
September ..	.90	2.66	2.43	2.72	1.42	2.43	1.65	1.50	5.39	1.30		9.84
October ...	3.02	3.00	4.39	1.58	2.56	1.84	3.24	3.54	2.42	4.57		11.97
November ...	3.40	2.99	2.13	1.57	3.36	1.44	3.48	1.18	.97	3.91		9.54
December ...	2.03	2.76	2.07	1.29	4.26	5.84	4.05	2.31	2.32	2.99		12.67
TOTALS ...	26.83	27.58	36.29	26.01	29.90	27.98	32.17	29.73	26.82	25.98		114.70

1919. Tree. 18 ft high 50 ft N.E.

1917 Aug - Sept approximated by ref MWR.

Dec amended ref to MWR.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1919 1911	56.13 N	1.41 W	Longthorpe	3 1/2 mi	E	Hebron	2 1/2 mi	WSW

RAINFALL at Morpeth Cockle ParkCounty of NorthumberlandObserver J. Procter Esq.River Basin Coquet & C. 5M. R. Pitman (1921)A. Logan Wood (1926)Snowdon Rain Gauge, by
M.O. 1927 (126)Record Keeper (Northumberland County Council)
T. Winter 1929

Diameter ...	8												
Height	1.0												
Altitude ...	325												
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEAN	1920-30 Totals	
January ...	2.57	4.47	3.31	1.38	2.53	1.41	2.90	1.58	3.48	2.07	3.14	28.84	
February ...	1.25	.25	2.45	3.97	1.26	3.18	3.28	.82	0.96	1.06	1.41	19.89	
March	2.74	.52	2.12	1.45	.95	1.56	.66	2.08	2.65	.30	2.26	17.59	
April	3.17	.79	1.71	1.84	1.64	3.45	1.35	2.15	1.07	1.53	1.84	20.54	
May	3.61	1.90	.48	2.00	6.12	3.53	2.22	1.43	1.33	1.45	1.58	25.65	
June .....	.60	.33	1.28	.73	2.26	.14	3.12	4.50	4.40	1.53	.80	19.69
July	3.74	1.96	4.26	1.78	5.86	2.36	5.28	2.65	1.36	3.00	3.93	36.18	
August	1.95	6.38	2.01	4.00	2.67	2.88	2.04	4.64	2.94	3.04	5.80	38.35	
September...	1.74	1.53	4.19	1.96	2.78	3.46	3.02	3.63	0.95	.94	3.30	27.52	
October	1.77	2.95	1.65	2.36	3.38	2.08	3.59	2.22	2.97	2.36	2.19	27.52	
November...	1.13	2.66	.97	3.60	1.19	2.06	4.36	3.01	2.64	4.07	3.55	29.24	
December...	4.49	1.38	3.34	2.47	2.38	5.34	.67	3.33	1.99	3.63	2.49	31.71	
TOTALS...	28.76	25.44	27.77	27.54	33.02	31.45	32.49	32.04	26.74	24.93	32.49	322.72	
	D	D	D	D	D	D	D	D	D	D	D	D	

1928 Stephenson Screen 5 ft. Lgh. 9' NW.

Nut

9" " 10' NNE.

1929 Sun recorder 4' high 6' SSE

Fence 4' high 10' all round

Position of Station on reduced Ordnance Survey } No. of Map

Map, 2 miles to 1 inch Series

Reference No.

Date.	Lat. N.	Long. W.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1911	53° 13'	1° 41'	Loughrigh	3 1/2 mi	E	Hebron	1/4 mi	W & N
			Morpeth (126)	5 m.	S.	"	1 1/4 m.	S. W.

RAINFALL at Morpeth (Cockle Park) M.W.R.County of NorthumberlandObserver Northumberland Co. Council,River Basin Coquet R. S. - S.Type of Gauge Annual Average 22.2 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. S. A. 153

Diameter	8.											
Height	1.0.											
Altitude	325.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means Totals	1931-40
January	2.28	1.03	1.88	1.71	2.09	3.91	3.93	2.35	5.52	2.64	2734	
February	1.08	.56	.27	.30	1.58	3.01	3.19	.93	.94	1.97	1688	
March	.95	2.79	1.32	3.38	1.09	2.51	4.31	.42	2.93	2.74	2244	
April	3.52	1.53	1.85	5.49	4.16	1.31	2.04	.15	1.13	.86	2184	
May	2.75	3.43	1.27	1.20	1.17	1.49	3.27	3.50	1.30	.72	2010	
June	3.48	1.10	1.10	1.69	2.39	2.94	1.53	2.66	2.38	.66	1993	
July	3.16	2.53	2.00	3.21	.50	3.45	1.83	2.67	2.19	5.93	2807	
August	3.17	2.65	1.84	4.05	1.85	2.00	2.58	2.67	1.98	.81	2365	
September	1.90	3.09	1.54	1.81	4.04	3.72	1.87	1.97	1.25	1.57	2256	
October	1.21	3.73	4.68	3.53	3.67	1.49	3.01	3.41	5.37	2.92	3242	
November	3.86	.70	3.36	3.99	3.79	2.99	1.99	2.35	2.47	3.65	2915	
December	1.04	1.29	1.27	4.64	2.26	1.52	5.65	3.46	1.21	2.73	2507	
TOTALS	28.40	24.23	24.63	35.00	28.59	30.34	35.20	26.59	29.27	27.20	28948	1/31

Inspected 30/5/34. O.K.

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

RAINFALL at Morpeth (Cockle Park) Station No. 3587 51
 County of Northumberland Observer King's Coll., Newcastle
 River Basin Equet + C-5 (Sept. Apr.)
 Type of Gauge M.O.

Annual Average 28.73 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. P.V. M.S.
av. med. for R. adopted for 1947/48 P.V.S. 1916-1950 1916-1950 154.73/50 P

Diameter ...	5"											
Height ...	10"											
Altitude ...	325'											
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	
January ...	2.15	2.64	.73	2.78	3.14	3.99	2.56	2.30	2.49	4.64	27.42	
February ...	2.36	.69	1.42	2.14	2.73	2.47	2.86	2.91	.34	3.13	21.05	
March ...	4.26	2.12	.22	1.27	2.10	.91	2.37	4.11	.72	1.94	20.02	
April ...	1.96	1.06	2.23	.59	.70	.94	.37	2.09	2.15	0.81	12.90	
May ...	4.05	1.91	1.84	2.75	2.04	.67	1.97	2.94	.36	2.62	20.95	
June ...	1.81	1.38	2.03	1.47	1.11	2.25	1.41	3.75	1.67	0.99	17.90	
July ...	1.41	2.94	2.41	2.32	1.40	2.64	3.56	3.30	2.13	4.82	26.93	
August ...	3.83	3.31	3.51	7.03	1.15	8.62	3.66	2.58	.31	2.50	36.50	
September ...	.83	3.75	1.61	3.15	.94	2.64	3.00	2.62	.78	2.37	21.89	
October ...	.74	3.55	1.42	4.15	1.69	2.05	2.30	1.94	1.64	7.02	26.50	
November ...	6.88	3.21	1.51	3.21	1.60	.86	1.60	.60	4.29	3.54	27.80	
December ...	1.38	2.75	.88	1.35	3.95	2.05	1.82	4.15	3.61	1.98	23.92	
TOTALS ...	31.66	29.31	19.81	32.21	22.55	29.92	27.48	33.49	20.49	36.36	283.28	10
	D	D	D	D	D	D	D	D	D	D		

March 1957. ~~Site~~ moved to new spot in same field - 100' west
 In April 1957. No. 1957. May be a bit exposed but best left at this stage.

Position of Station on Ordnance One-Inch map : No. of Map National Grid Reference NZ45201912

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.

Summary of Earlier Records from 10-year Sheets :

1916-1950, P-accepted

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
C 1898	✓	✓	✓	✓	
	✓ but - 15.17	✓	✓	✓	