

## RAINFALL AT Morpeth Cockle Park

Lat.

Long.

County of Northumberland.

Rain Gauge, by

Observer

Mr G. P. Berry

J. Y. Steele Esq

Coquet 5

Diameter .....										8	
Height .....										10	
Altitude .....										325	
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January .....				(15.60)					.77	2.52	(18.89)
February .....				(12.80)					1.29	1.30	(15.20)
March .....				(17.90)					1.73	3.45	23.08
April .....				( 8.20)					3.01	2.73	14.04
May .....				(14.00)					2.27	3.34	19.61
June .....				(19.40)					1.73	1.89	23.02
July .....				(22.20)					1.10	2.15	25.05
August .....				(20.40)					2.12	.85	22.37
September .....				(16.40)					2.22	2.06	20.62
October .....				(28.00)					5.46	2.36	25.82
November .....				(18.70)					3.31	1.66	23.67
December .....				(19.70)					1.39	3.73	24.82
TOTALS .....				(222.40)					26.40	27.98	27.678

Hebron Church 1 mile SW

Belt of Trees 45 ft high 210 ft NNE  
1899 Bothal Church 5 miles SE1890-99 = Bothalhaugh (standard) X  $\frac{100}{97}$

## RAINFALL AT Morpeth Cockle Park

Lat.

Lon.

County of Northumberland

M. S. N. 400

Rain Gauge, by Casella

Observer W. H. Hogg Esq

909 May 1900

Compt - 5.

J. H. J. Ferguson Esq

J. C. Henderson Esq

J. E. S. Dobson Esq

Diameter ..	8	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
Height ..	10											
Altitude ..	325 ft											
Year ..		1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	
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	2.038	
TOTALS ..	38.67	29.76	24.36	35.21	23.89	23.29	31.05	28.44	25.88	29.48	20.003	

1900 Bothal church 5 miles SE

Trees 40 ft high 120 ft NE

1903 Morpeth Station 4 1/2 Miles S

1908 Hebburn Church 3 1/4 mile W

Longhirst Station 2 1/2 . S.E.

"Well exposed"

10 3587

RAINFALL at Morpeth Cockle Park

County of Northumberland

Observer J. E. W. Dobson Esq.

River Basin Cognel + C 5

Roger Thornton Esq

*Snowdon Rain Gauge, by*

D.B. Johnstone-Wallace (1914)

J. D. Higginbotham 1916

J. Proctœus Esq. 1918.

Diameter ...	8										
Height .....	10										
Altitude ...	3257										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS. TOTALS
January ...	3.62	2.32	3.22	4.51	2.25	2.42	1.28	3.15	3.80	3.33	41.56
February ...	2.45	.80	2.63	.82	1.54	2.74	2.05	.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	1.68	2.56	1.88	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	1.31	2.32	2.99	12.67
TOTALS ...	26.83	27.38	36.29	26.01	29.90	27.98	32.17	29.73	26.82	25.98	114.70

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

1917 Aug - Sept' censuses by ref M.W.B.

Dec Recommended ref to NWR.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1919 1911	56°13' N	1°41' W	Longhirst	3½ mi	E	Hebron	1½ mi ¾ mi	SW NW

## RAINFALL at Morpeth Cockle Park

County of Northumberland

Observer J. Proctor Esq.

River Basin Coquet &amp;c c 5

Mr. R. Pitman (1921)

A. Logan Wood (1926)

Snowdon Rain Gauge, by  
M.O. 1927 (26)

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	M. MEAN		
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	1920-30 Totals
February ...	1.25	2.5	2.45	3.97	1.26	3.18	3.28	.82	0.96	1.06	1.41	19.89	
March .....	2.74	82	2.12	1.45	95	1.56	1.66	2.08	2.65	.80	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	4.48	2.00	6.12	3.55	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	2.06	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	6.80	38.35	
September...	1.74	1.55	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	1.67	3.33	1.99	3.63	2.69	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	

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

N.E.

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 \_\_\_\_\_ Reference No. \_\_\_\_\_  
Map, 2 miles to 1 inch Series

Date.	Lat. N.	Long. W.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge	Direction
1911	53°13'	1°41'	Loughrigg L. Morpeth (26)	3½ mi E 5 m. S.	E S.	Hebron	¾ mi 1 ¼ m.	W.S.W. S.W.

## RAINFALL at Morpeth (Cockle Park) M.W.R.

County of Northumberland

Observer Northumberland Co. Council,

River Basin Coquet &amp; C. - S.

Type of Gauge

Annual Average 22.5 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. A.W.S.

Diameter	8.										
Height	10.										
Altitude	325.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1931-40 Mean Total
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	3.27	1.30	1.58	3.01	3.19	.98	.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	1.33	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	3.24	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	2.79	5.93	2807
August	3.17	2.65	1.87	4.05	1.85	2.00	2.58	2.67	1.98	.81	2365
September	1.90	3.09	1.34	1.81	4.04	3.72	1.84	1.97	1.25	1.57	2256
October	1.21	3.73	4.08	3.53	3.67	1.49	3.01	3.41	5.37	2.92	3242
November	3.86	.70	3.86	3.99	3.79	2.99	1.99	2.25	2.47	3.65	2915
December	1.04	1.29	1.27	4.64	2.26	1.62	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	29.21	27.20	28946 ✓

Inspected 30/5/34. O.K.

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

BRITISH RAINFALL ORGANIZATION, EXHIBITION ROAD, LONDON, S.W.7.

Station No. 3587

RAINFALL at Morpeth (Cockle Park) M.W.R.

41

County of Northumberland  
 River Basin Coquet & C.S.  
 Type of Gauge ~~10~~ (19.45)  
 28.73

Observer Northumberland C.C. Council  
 King's Coll. Newcastle Dept Ag. (1950)

Annual Average 22.3 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. A.v. WLS.

Avg. used 4 ft 7 in. B. adopted for 1947 (3 AWS).

File No.

Diameter	8"		005	349	5						
Height	1' 0"				1						
Altitude	325'				61						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1941-50 Means Total
January	3.44	2.92	3.02	1.85	5.16	1.44	1.92	9.09	.93	1.62	30.39
February	6.43	2.49	.86	1.86	1.54	3.8	3.16	1.50	.68	3.64	22.54
March	3.20	.61	.73	.66	.36	1.46	4.88	.45	.99	.99	14.33
April	1.71	.75	1.55	2.37	1.57	.78	3.55	1.95	1.01	2.03	17.27
May	1.73	1.55	3.07	2.40	4.32	1.73	2.31	1.80	1.12	1.90	21.93
June	1.05	1.04	2.70	1.84	2.94	2.02	1.69	2.33	.97	1.92	18.50
July	1.77	4.52	1.82	4.39	1.44	2.91	4.50	.81	1.78	3.89	27.83
August	2.80	2.50	3.83	1.76	2.55	4.64	.15	4.28	2.31	3.88	30.70
September	.57	2.22	3.19	5.75	1.83	3.46	1.43	2.68	.93	3.71	25.77
October	3.93	2.42	2.31	2.90	3.40	.73	.55	1.48	3.32	1.22	22.26
November	3.05	.63	2.64	4.82	1.01	4.38	2.21	1.70	2.96	5.41	28.81
December	.43	2.05	1.05	1.52	1.70	2.32	2.00	1.89	3.06	2.30	18.32
TOTALS	30.11	23.70	26.77	31.12	27.82	26.25	28.35	31.96	20.06	32.51	278.65
	D	D	D	D	D	D	D	D	D	D	10

Inspected by Mr. Zobel 27/10/48. Beal hedge 9' high 11' N.E. + E. Screen 7' away. Observer asked to cut hedge to 5' + move gauge 10' from hedge + screen. New gauge + taller measure since last inspection gauge 5' H.D. 3322/44.

Inspected by Mr. Zobel

14  
4  
3  
3

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

Station No. 3587

RAINFALL at Morpeth (Cockle Park) M.W.R. (64) 51  
 County of Northumberland Observer King's Coll., Newcastle  
 River Basin Coquet & C. S. (Dept. Agr.)  
 Type of Gauge M.D.

Annual Average 28.73 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. A.M. N.S.  
 28.73 " " 35 " 1916-1950 1916-1950 E 15473/64 P  
 Av. used for M.W.R. adopted from 1907 E.M.W.S.

File No.

Diameter	5"	005	349								Means
Height	1' 0"			1							Total
Altitude	325'			51							
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	
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	2.67	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	1.67	1.97	2.94	.36	2.62	20.95
June	1.81	1.38	2.03	1.47	1.11	2.28	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	2.82	.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	27.30
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
	b	D	D	D	D	D	D	D	D	D	10

March 1957. Gauge moved to new spot - in same field - 100' west  
 in April 1957. No change. 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 NZL45 201912			
Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge

Summary of Earlier Records from 10-year Sheets :

1916-1950, P-accepted

Record D, or d	C 1898	1910-19 (2)	1920-30 (3)	1931-40 (4)	1941-50 (5)	1951-60
		✓	✓	✓	✓	
	✓ but - 15.17		✓	✓	✓	