

RAINFALL AT

Allenheads

30

Rev W. Walton

Rain By Cohen

Gauge Newcastle

Diameter 12 in.

Height above Ground, 2 ft. in.

Above Mean Sea Level, 1420 ft.

? Northumbria

4623

YEAR.....							1837	1838	1839	MEANS.
January							4.63	2.19	5.43	
February							4.88	1.23	3.72	
March							4.23	4.76	4.53	
April							3.42	2.98	2.15	
May							2.49	4.40	2.41	
June.....							2.89	4.81	5.12	
July							4.04	3.95	5.46	
August							4.13	4.75	5.16	
September ...							2.53	3.13	6.37	
October.....							5.88	7.54	3.40	
November.....							4.77	6.19	6.85	
December.....							7.58	3.30	5.11	
TOTALS							51.47	49.23	55.71	

9 Atkinson's Mps
7-9 W.W.'s Res.

RAINFALL AT *Allenheads [Aston]**Northumberland*Observer *Rev^d W. Walton*Rain { By *Cohen*Gauge { *Newcastle*Diameter *12* in.Height above Ground, *2* ft. in.

Above Mean Sea Level ft.

YEAR.....	1840	1841	1842	1843	1844	1845	1846	1847	1848	1849	MEANS.
January.....		5.55									
February.....		3.38									
March.....		3.90									
April.....		3.86									
May.....		2.73									
June.....		1.83									
July.....		4.04									
August.....		4.76									
September.....		4.63									
October.....		13.74									
November.....		4.44									
December.....		5.54									
TOTALS	54.67	58.40	41.75	46.83		56.41	54.62				

41 *Pub. Met. Soc.*

Allenheads

E g 156

50

Thos J. Bewick

Mrs. return

Quite unsheltered

In & Z. fished
Diam. 8 in.

+ Ground gin.

+ Sea level 1369 ft

YEAR - -	1850	1851	1852	1853	1854	1855	1856	1857	1858	1859	MEANS.
January - -					# 6.59	1.17	3.27	4.64	2.22	5.60	
February - -					2.89	1.44	3.02	2.41	1.19	2.72	
March - - -					1.77	1.67	.42	4.64	3.90	5.89	
April - - -					1.28	1.68	3.73	2.56	1.50	4.91	
May - - - -					2.62	2.69	4.80	1.74	3.05	.12	
June - - - -					5.61	6.01	3.42	3.99	1.76	3.20	
July - - - -					4.12	3.48	1.65	1.70	2.77	2.48	
August - - -					3.48	3.92	5.07	3.98	3.57	2.64	
September -					2.42	.88	0.50	5.06	3.57	5.35	
October - -					4.17	7.68	1.97	3.50	5.25	4.96	
November -					6.93	4.27	1.68	3.48	3.33	4.19	
December -					5.63	2.13	7.07	3.25	4.21	5.65	
TOTALS -				(56.00)	47.51	37.02	45.48	41.80	37.20	47.71	

1854 - 9 from Naps

6-8 Gnadae Bluberry 71

31 272

Rainfall at *Allenheads**Thos. J. Bewick**Pres. return**Arwards Tube - Quite unsheltered*Diameter of Gauge, *1.2* in.Height above Ground, *6* ft. *9* in.Above Mean Sea Level, *1375* ft.

YEAR - -			1852	1853	1854	1855	1856	1857	1858	1859	MEANS.
January - -				8.40	6.81	1.80	3.87	3.72	2.70	7.22	
February - -				4.30	2.93	2.78	3.64	2.56	1.03	3.10	
March - - -				3.02	1.78	3.24	.51	4.37	3.81	7.26	
April - - -		#	1.32	5.39	1.36	2.42	4.19	2.71	1.55	5.49	
May - - - -			3.28	1.26	2.72	2.98	5.02	1.74	4.26	.12	
June - - - -			3.94	2.89	6.28	6.57	3.59	4.10	1.73	3.33	
July - - - -			6.45	5.77	3.99	3.62	1.78	1.71	2.85	2.91	
August - - -			5.36	3.00	3.77	4.29	5.43	4.27	3.62	2.80	
September -			6.89	5.39	3.01	1.05	8.74	6.18	3.76	5.31	
October - - -			6.72	6.31	4.60	8.24	2.17	3.58	5.90	5.51	
November - -			8.98	1.73	8.10	4.54	2.52	3.30	3.58	4.55	
December - -			14.73	3.62	8.15	2.42	9.93	4.30	4.86	5.07	
TOTALS - - -				51.08	53.50	43.95	51.39	42.54	39.65	52.67	

Sta No. 015339. 1852-1886

Cannot be reckoned for certain as

homogeneous with 015339.

Allenheads

60

Mr Varty

Gauge 12 in diam.; 6 ft 9 in + ground; 13.67 ft + s l

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	8.43	1.62	4.69	11.24	4.08	3.95	6.97				
February - -	5.25	6.03	2.21	4.27	4.03	1.97	6.57				
March - - -	5.34	5.61	4.11	2.71	6.42	1.49	2.88				
April - - -	3.33	2.16	3.59	5.41	1.05	1.34	4.44				
May - - - -	2.92	1.56	4.18	2.92	2.30	6.88	1.52				
June - - - -	6.62	2.50	5.86	4.34	3.77	.75	2.82				
July - - - -	3.00	5.27	3.45	1.41	1.42	2.16	4.78				
August - - -	5.06	4.61	3.57	4.56	1.66	4.78	5.89				
September -	1.65	5.67	1.84	6.67	4.11	.53	7.45				
October - - -	7.55	2.10	8.71	6.45	11.69	14.26	2.37				
November -	4.91	12.10	1.90	6.11	4.42	5.21	6.76				
December -	5.85	3.64	6.53	6.41	2.98	4.26	7.92				
TOTALS -	59.91	52.89	50.64	62.50	47.93	47.58	60.37				

Gauge not of value

1864 October 18th .35, 19th 1.16, 20th .25, 21st 1.20, 22nd 2.99, 23rd 1.15

Allenheads.

Thos. J. Bewick M. Varty

Gauge 8 inches diam.; 5 in + ground; 1360 ft + 3 l

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.	
January - -	9.91	1.26	4.17	9.00	3.24	4.14	6.81	6.10	8.63	6.06	59.32	+
February - -	5.19	7.28	1.75	3.20	3.69	3.11	6.29	4.00	4.68	9.26	4.845	
March - - -	4.99	5.15	4.29	2.40	5.90	1.46	3.25	9.10	5.85	2.09	4.448	
April - - -	3.11	2.00	3.00	4.24	1.01	1.20	4.32	6.73	3.93	2.43	3.197	
May - - - -	3.17	1.44	3.85	2.64	2.08	6.15	1.63	2.46	1.66	4.66	2.974	
June - - - -	6.26	2.31	5.27	4.03	3.58	.75	2.81	1.29	.42	1.67	3.839	
July - - - -	3.20	4.84	3.14	1.38	1.32	2.00	4.52	6.05	.61	.87	2.793	-
August - - -	4.93	4.07	3.31	4.52	1.53	4.00	5.33	2.42	5.72	1.77	2.842	
September -	1.87	5.22	1.72	6.34	3.91	.50	6.96	2.65	5.59	8.97	4.373	
October - -	6.24	2.05	6.89	5.84	9.63	11.82	2.16	3.25	4.05	3.08	5.501	
November -	4.76	10.69	1.70	5.33	4.06	4.80	5.64	1.22	5.03	7.64	5.087	
December -	5.52	3.04	5.12	5.10	3.27	3.70	7.17	4.18	10.25	5.94	5.329	
TOTALS -	59.15	49.35	44.21	54.02	48.24	44.43	56.89	49.45	56.42	54.44	51.160	

1864 Bell's 18th 1.37 19th 1.06 20th 1.24 21st .95 22nd 2.52, 23rd .86

Sta. No. 015338

1852-1886

Cannot be reckoned as Homogeneous
with 015339.

RAINFALL AT *Allenheads*

70

Lat.....

Lon.....

County of *Northumberland*

Rain Gauge, by.....

Observer *Matthew Karty Esq.*

Diameter8										
Height9				4	7	4				
Altitude	<i>1359</i>		<i>1360</i>	<i>1353</i>			<i>1360</i>		<i>1353</i>		
YEAR	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	4.46	3.17	6.21	6.32	4.56	6.08	1.95	7.89	5.05	1.28	4.697
February.....	4.76	4.49	4.94	1.53	2.59	2.61	6.87	4.76	1.82	5.09	3.946
March.....	2.08	2.59	5.44	3.10	4.09	1.47	6.67	6.10	2.32	3.33	3.719
April.....	1.79	3.05	5.13	1.26	2.75	1.68	4.35	4.47	3.05	2.24	2.977
May.....	3.14	1.52	3.91	2.64	2.32	3.03	2.33	3.65	4.68	2.33	2.960
June.....	2.03	3.68	4.20	1.89	1.54	2.53	3.19	2.21	2.72	5.35	2.934
July.....	.82	4.30	4.14	2.34	1.88	6.02	2.04	5.51	1.48	7.05	3.558
August.....	2.39	2.34	3.44	4.05	4.80	1.99	3.26	10.35	6.66	4.70	4.398
September.....	3.00	6.76	6.02	3.11	4.31	4.20	5.42	2.18	4.49	1.36	4.093
October.....	9.97	4.29	3.08	3.68	5.72	6.24	2.20	4.78	4.49	1.93	5.138
November.....	2.42	3.00	7.39	3.51	4.52	7.78	5.16	6.26	5.91	1.32	4.727
December.....	7.33	3.46	6.96	3.21	6.76	5.15	10.60	3.77	5.05	1.11	5.340
TOTALS.....	44.27	42.65	65.86	36.64	45.84	48.78	54.09	67.93	47.72	37.09	48.487

1874 The gauge is in a back yard surrounded by houses & a wall 9 ft high which is 6 ft distant

1st Peter's church Allenheads 2 miles N.W.

Sta. No. 015338. Cannot be reckoned as Homogeneous with Sta. No. 015339

Daily available Jan & Feb 1879

low

RAINFALL AT *Allenheads*

Lat.....

Lon.....

County of *Northumberland*

Rain Gauge, by.....

Observer *Matthew K. Esq.*

Diameter	1											
Height	6 $\frac{9}{16}$											
Altitude	1374	1360										
YEAR	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January.....	4.38		7.80									
February.....	5.05		5.66									
March.....	2.13		5.07									
April.....	1.90		5.90									
May	3.37		4.43									
June.....	2.04		4.37									
July	~ 86		4.41									
August.....	2.53		3.65									
September.....	3.42		6.55									
October.....	⁺ 10.73		8.84									
November.....	2.47		8.53									
December.....	7.64		7.86 ⁺									
TOTALS	46.52		73.12									

1873 Gauge out of order.

RAINFALL AT Allenhead

80

Lat.

Lon. County of Northumberland

Rain Gauge, by

Observer W^h J. Charlton

Stn. Type 2.

Diameter	8											
Height	0.4											
Altitude	1353A											
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January	39	1.75	2.89	5.26	8.01	2.58						
February	84	3.59	4.47	4.54	3.36	2.73						
March	1.86	5.48	5.26	2.94	2.82	2.80						
April	3.05	1.91	4.98	1.86	3.26	2.99						
May	2.92	2.51	1.38	2.39	2.32	2.35						
June	3.76	2.78	4.62	2.47	.96	1.93						
July	6.96	4.68	2.80	3.79	6.89	1.08						
August	1.11	6.23	3.01	3.90	.69	3.02						
September ...	5.44	5.03	3.89	5.79	3.03	3.33						
October	4.83	6.17	4.25	6.21	3.21	5.75						
November ...	1.84	6.70	6.05	2.89	2.76	.93						
December	5.95	4.70	5.09	3.27	5.63	.50						
TOTALS	38.95	51.53	48.69	45.01	42.94	29.44						

probably bad

Sta. No. 015338. Cannot be reckoned as being homogeneous with Sta. No. 015339
1852-1885 1910-1972

N.B. annual values rejected from Survey Map, 1929.

RAINFALL at

Allenheads

County of NorthumberlandObserver Regal Meteorological SocRiver Basin South Tyne 2G.W. Metcalfe Esq (11)

"old pattern" Rain Gauge, by

Diameter ...	8											
Height	0 4	0 4							2.0	1.0		
Altitude ...	1353	(1. x 11)										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	
January ...	5.31	2.45	2.39	6.18	3.60	3.39	6.37	4.38	5.62	6.03		
February ...	6.95	2.49	1.31?	3.17	5.52	5.31	8.03	1.49	5.42	1.20		
March	1.49	2.45	5.73	8.37	4.30	1.92	6.06	3.28	1.84	4.10		
April	3.78	2.45	.83	4.55	2.20	1.17	3.83	3.35	1.80	(1.00)		
May	2.63	.86	2.72	2.12	2.22	1.42	3.89	2.81	1.83	(1.92)		
June	2.48	2.39	5.65	2.19	4.35	.43	2.74	1.42	.54	(1.43)		
July	3.49	.27	4.78	1.78	2.30	4.22	4.99	1.02	5.23	3.10		
August	4.25	2.24	5.69	1.51	1.60	4.24	3.16	9.16	2.36	3.64		
September ..	.46	2.89	2.82	2.33	2.24	1.80	2.74	3.29	8.12	2.27		
October ...	3.60	5.44	5.27	3.90	2.33	1.24	7.64	6.55	4.80	6.58		
November ...	2.96	7.17	3.79	4.95	8.15	3.41	5.66	4.47	2.43	6.96		
December ...	4.19	8.05	7.06	3.50	10.52	3.91	4.56	3.78	4.57	5.28		
TOTALS ...	41.69	39.15	48.04	44.55	49.33	32.46	59.67	45.00	44.58			
							→	→	→	→		

1912 Wall 10 ft high 8 ft 4

Buildings 10

1915 No painter 3. heavy

This record appears to be defective

C.B. 12. 71. 15

N.B. Annual values rejected from Survey data. 1929.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911			Wearhead Allenheads	4 1/2 mi	S N	St Peter's Allenheads	2 mi	N.

RAINFALL at AllenheadsCounty of NorthumberlandObserver J. W. Metcalfe Esq.River Basin South Tyne 2

"old pattern" Rain Gauge, by _____

Diameter ...	8										
Height	1	0									
Altitude ...	1353							1350			
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. MEANS
January ...	5.59	8.97	5.93	2.44	3.90	4.45	5.75	(5.25)	8.90	1.80	7.05
February ...	3.83	6.6	3.86	4.78	1.15	7.40	4.90	(1.25)	4.55	1.00	1.90
March	5.11	3.74	3.42	1.18	1.19	2.55	2.00	(4.55)	4.85	.25	3.20
April	4.89	1.38	4.23	1.78	1.71	2.25	3.05	(2.50)	1.15	1.90	4.00
May	5.30	2.05	.53	2.41	5.35	4.25	2.90	(3.70)	2.25	1.80	1.90
June	1.05	4.1	1.68	.84	2.74	.00	3.65	2.60	6.15	2.25	1.65
July	4.46	2.44	5.82	2.61	4.42	1.30	4.70	5.05	2.65	4.50	7.75
August	2.38	5.91	3.05	6.47	3.62	2.85	3.60	7.55	5.85	4.15	6.70
September...	2.43	1.31	5.48	3.36	5.37	5.00	(4.55)	7.15	1.63	2.00	5.20
October	2.44	3.95	1.90	6.05	4.45	4.25	4.25	4.70	7.85	4.95	5.05
November...	2.78	2.05	1.44	7.25	2.55	2.85	5.00	6.00	7.90	5.80	5.35
December...	5.29	6.75	6.14	3.10	6.30	7.10	(1.59)	3.10	3.00	8.00	4.85
TOTALS...	45.55	39.02	43.48	42.27	42.93	44.25	45.94	53.40	56.73	38.40	54.60
	2	2	2	2	2	2	2	2	2	2	2

1925 Walls 10' high 12' W & 12' high 12' E.
 1926. Sept. & Dec. corrected by snow observations.
 1927 Jan to May adj. by maps.

K.B. annual values rejected from Survey leaf. 1929

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
1911			Wearhead	4 1/2 mi	S	St. Peter's Allendale	2 mi	N

RAINFALL at AllenheadsCounty of NorthumberlandObserver J. W. Metcalfe, Esq.River Basin South Tyne - 2.R. Hebble Esq.Type of Gauge Glaisher No 1900F. J. Straker-Smith, Esq. (1940)Annual Average 48.3 in. based on 13 years obs. yr.-weighted. Period of average Ref.

YY9715/27.

Diameter	8.									5	
Height	1.0.									1.5	
Altitude	1350.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	3.80	4.60	3.18	4.70	2.72	5.01		6.47	8.14	2.76	
February	3.40	1.30	5.73	3.35	6.35	1.83		2.44	4.54	2.87	
March	1.15	2.80	2.17	5.55	1.39	2.26		1.48	5.54	4.68	
April	4.50	3.05	1.81	7.02	4.49	1.14	2.67	4.1	2.78	2.75	
May	2.35	3.40	2.40	3.39	.93	2.48	3.74	2.31	1.46	1.99	
June	4.80	2.80	2.35	3.12	2.49	3.47	1.67	3.08	4.43	1.86	
July	3.85	4.00	3.70	3.63	2.24	4.62		3.11	4.31	6.36	
August	4.25	2.05	1.70	3.71	1.55	2.12		2.33	3.16	2.41	
September	2.25	4.30	3.05	2.76	5.63	4.10		1.74	2.68	3.48	
October	2.25	6.75	5.32	7.41	8.27	4.24	3.20	6.07	6.88	5.97	
November	(4.95)	2.30	4.11	3.28	7.07	5.14	1.45	7.23	6.48	5.76	
December	2.20	(2.50)	1.54	5.81	2.32	4.16		5.42	2.24	5.50	
TOTALS	37.75	39.86	37.06	50.73	45.45	40.58	40.16	42.09	52.64	45.39	

1931. Wall 6' high 10' E.W. of gauge. Walls 715 20' distance.

Gauge damaged Dec. 1932, repairs.

1932. Rec'd estimated by note.

1937. - Yearly total imperfect. Hill 2208' high 2 1/4 mls W.

1938. - 1/10 low.

NB. The average was updated from Survey as 6' too low. Letter to gauge = 10/20

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	Parish Church.	Distance from gauge	Direction
1931.			Alldendale	8 m.	N.	St. Peter's Alldendale	2 m.	N.
1937			Wearhead	4 m.	S	Sparty Lea	2 m.	N.

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

Station No. 3559

RAINFALL at Althorpe

41

County of NorthumberlandObserver R. H. H. Esq. - 1948River Basin South-Tyne 2T. S. F. Esq. (1949)Type of Gauge MO. 1940Annual Average 48.3 in. based on 13 years obs. un-weighted. Period of average Ref.File No. 779715/27

Diameter	5"			015	339						
Height	1'5"				1						
Altitude	1350'				41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	5.96	6.42	6.09	5.64	8.00	4.42	5.26	11.78	2.60	3.36	
February	9.13	3.12	4.68	3.87	4.75	4.34	6.55	4.75	4.51	7.59	
March	4.90	4.08	1.90	1.00	3.42	2.31	6.11	3.53	1.79	2.73	
April	2.73	2.48	3.11	1.56	1.63	2.02	9.47	3.81	4.62	3.94	
May	2.92	2.50	4.88	3.08	4.49	3.03	2.22	1.87	1.55	2.47	
June	.67	1.93	2.22	3.44	3.92	2.95	4.57	6.26	.85	2.49	
July	1.57	4.17	2.57	4.24	2.11	4.08	3.92	1.43	2.58	3.45	
August	4.86	3.82	5.93	2.23	4.12	4.84	.21	6.42	2.45	6.21	
September	.50	4.63	4.19	8.32	2.84	5.02	2.72	4.63	2.39	8.90	
October	6.00	5.83	4.64	4.83	5.70	1.53	1.60	2.76	5.05	3.05	
November	4.50	.87	4.28	10.88	1.32	9.08	5.65	2.74	7.52	7.69	
December	2.69	4.93	2.44	5.27	2.31	3.47	3.70	4.27	9.03	2.88	
TOTALS	46.43	44.78	46.93	54.36	44.61	47.09	51.98	52.20	44.94	54.76	

1941: - Hill 2208' high, 2½ miles W.

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

1 mile to 1 inch Series

Reference No.....

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge.	Direction from gauge.
1941			Wearhead	4 miles	S.	Spartly Lea	2m.	N.

BRITISH RAINFALL ORGANIZATION

Station No. 3559

51

RAINFALL at CollenheadsCounty of NorthumberlandObserver J. I. Foggitt Esq.River Basin South Tyne - 2Type of Gauge M.D.Annual Average 4.83 in. based on 13 years obs. un-weighted. Period of average 1881-1915 Ref. P.B. 593" " 49.28 " " 17 " " within 1939-57 " " 1916-50File No. 779 712/27

Diameter ...	5"		0.15	339								
Height ...	1' 5"			1								
Altitude ...	1360'			51								
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	
January ...	3.53	5.31	1.68	4.82	4.67	5.21	5.32	4.15	3.64	7.58		
February ...	4.33	1.45	2.78	4.55	4.27	4.03	3.88	7.27	1.64	5.02		
March ...	6.94	1.95	.63	2.10	2.54	2.81	2.58	3.31	1.42	2.71		
April ...	2.96	2.30	4.32	.76	1.36	1.44	.36	2.34	4.26	3.23		
May ...	4.34	2.75	2.88	6.07	3.36	1.85	1.98	5.00	.86	2.28		
June ...	1.31	1.98	2.39	2.89	3.30	3.80	1.37	4.06	2.51	1.32		
July ...	2.34	2.70	3.54	2.98	1.03	4.10	4.99	5.09	2.57	4.90		
August ...	5.60	5.23	4.46	9.29	1.35	8.44	7.04	3.53	.57	3.84		
September ...	2.31	5.80	5.20	4.98	2.56	4.42	4.23	3.55	1.19	2.99		
October ...	1.01	6.60	2.58	9.84	2.72	3.03	4.07	3.12	4.09	10.45		
November ...	11.26	4.22	4.09	7.91	2.06	1.93	3.43	.78	7.26	6.75		
December ...	8.59	4.39	2.24	7.04	6.73	6.94	4.55	5.86	8.63	5.49		
TOTALS ...	54.42	44.68	36.19 38.08	62.23	35.95	48.30	43.80	48.06	37.64	56.56		
	D	D	D	D	D	D	D	D	D	D		

1951 Hill 2208', 22.210:

22.10
71.73

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference

NY(35)860453

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.
1951			Wearhead	4rd S	Sparty Lea	2nd N.

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
C 1910	✓ up 1919	✓	✓ up 37-39	✓	
	✓ but -10-15	✓	✓ but -31-32	but D 47-50	