

Rainfall at West Hendon, Sunderland.

50

Gauge "A."

J. W. Backhouse

Diameter of Gauge, in. Height above Ground, ft. in. Above Mean Sea Level, ft.

RAINFALL AT West HendonSunderlandObserver I W Backhouse

Rain	By.....									
Gauge	Diameter.....in.	Height above Ground,.....ft.	in.	Above Mean Sea Level.....ft.						

YEAR.....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January.....	3.51	.97	2.47	3.08	1.03	1.85	1.55				
February	1.98	1.93	1.39	.48	2.41	1.67	1.71				
March	1.83	2.32	3.45	1.55	2.03	1.28	<i>broken</i>				
April	1.25	1.46	1.17	1.03	1.85	1.17	<i>part</i>				
May	2.90	1.30	"	1.57	2.16						
June.....	2.65		3.40	4.55	2.06		.91				
July	3.51	3.79	2.22	1.31	1.00		2.20				
August.....	2.88		4.32	3.29	1.51		3.97				
September.....			.97	2.80	1.29		.64				
October.....			1.76	3.50	5.46		6.48				
November.....	3.40	4.35	1.10	3.27	2.08		2.05				
December.....	4.43	.99	1.52	2.26	3.24		1.81				
TOTALS					28.69	26.92					

C C C C C C C

Duplicate Gauge

1860

- May 2.96 A sort of funnel made of glass and graduated
 June 2.72
 July 3.58 Character of surrounding country overlooking for 2 miles
 Aug. 3.04

RAINFALL AT

West Hendon House
Sunderland

Backhouse

Rain { By

Gauge {

Diameter..... 5..... in.

No 2

Height above Ground, ... ft. 0... in.

Above Mean Sea Level, 125 ft.

YEAR	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	M.RANS.
January						2 1.73	1.36	4.19	1.71	1.73	
February						1.82	1.52	.54	.73	1.00	
March						1.25	2.34	1.89	1.09	1.71	
April							1.88	1.43	2.22	1.40	
May							1.04	2.30	1.29	2.64	
June77	2.08	1.76	.36	1.09	
July						1.86	4.85	3.35	.91	.96	
August						3.33	3.12	2.63	1.63	1.41	
September58	4.34	1.84	3.77	3.42	
October						5.7	1.61	1.08	1.85	2.65	
November ...						1.81	1.88	.82	2.12	2.92	
December.....						1.61	1.88	2.04	3.61	3.32	
TOTALS.....						27.90	23.87	21.29	24.25		

1865 a new g I believe it to be more moist
than the other

RAINFALL AT Sunderland West Hendon House

Lat..... Lon..... County of..... Durhams.....

Rain Gauge, by..... Observer J. W. Backhouse Esq
New 9

Diameter5										
Height	1.0										
Altitude	132.0	132	M								
YEAR	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS,
January.....	# .92	2.13	1.03	1.60	2.22	4.8	2.91	2.29	1.30		
February	1.67	2.10	1.64	1.96	1.11	2.01	1.66	1.99	3.23		
March65	2.69	1.74	1.18	.50	2.06	2.50	.87	.68		
April	2.97	2.17	1.46	.65	.65	3.29	4.55	2.36	2.09		
May	1.15	1.64	2.41	2.87	{ 3.24	1.04	2.41	3.10	(1.90)		
June	2.72	2.63	1.27	.59)	1.59	1.50	1.69			
July	3.71	{ 5.99	2.73	1.07	4.16	2.79	2.78	4.8	3.86		
August.....	.65	2.50	2.74	2.85	1.81	5.42	4.77	3.17			
September.....	4.25	4.12	1.85	1.94	1.86	3.54	1.50	1.41	1.18		
October.....	1.54	5.22	2.05	1.47	3.29	1.72	2.43	1.58	.78		
November.....	1.67	3.60	1.21	{ 5.76	3.12	1.39	7.15	3.32			
December.....	1.60	4.13	.27	{ 7.78	1.46	5.58	1.66		.74		
TOTALS	23.50	36.32	20.19	22.85	27.10	29.03	30.71			→	

C C

1871 New gauge of the same construction.

1877 Hedge 4ft 6 in high 12ft to W. small gauge on pole
3 ft 8 in high 6 ft to S.

RAINFALL AT Sunderland West Glendore House

Lat.....

Lon.....

County of.....

Durham

..... Rain Gauge, by.....

Observer

T. W. Backhouse Esq

old 9.

Diameter5											
Height	1											
Altitude	132,											
YEAR	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January.....	1.36	.91	2.13	1.00	1.59	2.19	.49	2.92	2.26	1.30	1.615	
February.....	1.27	1.6	2.13	1.64	.94	1.11	1.96	1.67	.97	3.23	1.659	
March.....	.78	.66	2.72	1.76	1.19	.50	2.07	2.47	.88	.69	1.372	
April.....	.67	2.95	2.20	1.45	.65	.66	3.28	4.55	2.30	2.08	2.079	
May.....	1.21	1.13	1.62	2.41	2.87	1.00	1.04	2.40	3.09	1.87	1.864	
June.....	1.75	2.70	2.53	1.26	.61	2.29	1.59	1.49	1.68	4.44	2.034	
July.....	.39	3.69	2.96	2.70	1.08	4.14	2.73	2.78	.48	3.79	2.474	
August.....	2.50	.64	3.05	2.50	2.76	2.89	1.77	5.34	4.70	3.11	2.926	
September.....	.62	4.25	4.18	1.83	1.94	1.87	3.52	1.50	1.37	1.17	2.225	
October.....	3.67	1.50	5.38	2.06	1.49	3.31	1.71	2.38	1.56	.76	2.382	
November.....	3.67	1.63	3.71	1.21	3.41	5.77	3.06	1.38	7.10	3.42	3.436	
December.....	5.02	1.57	4.25	2.7	4.36	1.46	5.48	1.63	4.64	.72	2.940	
TOTALS.....	22.91	23.30	36.86	20.09	22.89	27.19	28.70	30.51	31.03	26.58	27.006	

C C C

1873 2.00 in fell from Sep^r 30th to Oct^r 3rd: I have divided it proportionately to J. W. Mounsey's register at Bede's Terrace: he had 2.03 in in that time.

1877 Hedge 12 ft off 4 ft 6 in high small gauge on pole
3 ft 8 in high 4 ft 8. Corrections out 14. 3. 79.

RAINFALL AT Sunderland, W. Gandon House

Lat. Lon. County of Durham
 Bottle Rain Gauge, by Observer T.W. Backhouse, Esq.

Wear 2

Nov. 9. 9204

Diameter	5	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
Height	1. 0											
Altitude	132 ft											
Year												
January50	1.12	.64	1.44	3.01	1.49	3.16	1.84	1.12	1.14		
February	1.56	3.68	4.44	1.86	1.34	.90	.88	.52	1.15	1.29?		
March	1.69	2.88	1.04	2.06	2.48	1.91	3.13	1.92	5.10	2.96		
April	1.86	1.08	3.80	1.36	1.68	1.69	1.89	.60	1.48	2.17		
May	1.39	1.52	2.60	1.68	.70				1.48	.89	1.96	
June												
July	{ 5.33	1.40	3.04			{ 3.96		.86	.42	2.11	.26	
		3.09	4.25									
August	2.23	4.68		2.65	.53	{ 4.80		1.41	2.27	2.07	4.01	
September	4.49	4.26		4.44	4.46	.93	2.48	1.67	5.62	1.51	1.03	
October	4.29	2.86	2.98	1.83	1.59	4.70	3.48	3.27	.59	4.01		
November	2.50	1.15	2.88	1.05	1.77	2.23	2.84	2.90	3.80	.88		
December	3.74	2.28	4.21	2.50	1.24	.88	3.46	3.34	.77	1.37		
TOTALS	29.58	30.00	30.32			19.27	26.42		25.49	27.02	24.45?	

Sledge 6 ft high 12 ft W.S.W.

Tree 9 ft " 12 ft NNE

" 9 ft " 12 ft ESE

Bishopwearmouth Church 7 furlongs N.N.W.

1884 Moved 25 yards S.E. to beside the old gauge, at the new year.

1889 Feb. Too small owing to snow drifting.

RAINFALL AT Sunderland, W. Hendon House

Lat.

Lon.

County of Durham

Rain Gauge, by

Observer T.W. Backhouse, Esq.

Wear 2

Old. g. No 2.

Diameter	5											
Height	1.0											
Altitude	132 ft											
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS,	
January50	1.12	61	1.39	2.94	1.50	3.14	1.82	1.13	1.08	1.523	
February	1.57	3.60	44	1.85	1.30	.88	.88	.51	1.08	1.23 ⁹	1.334	
March	1.65	2.93	1.01	2.05	2.44	1.87	3.08	1.89	5.13	2.86	2.491	
April	1.80	1.04	3.73	1.35	1.69	1.70	1.88	.58	1.46	2.09	1.727	
May	1.34	1.48	2.61	1.65	.72	3.38	2.58	1.39	.56	1.85	1.756	
June	{ 1.28	1.38	3.00	2.60	.75	1.95	.87	.40	2.08	2.6	1.457	
July	{ 5.28	(4.00)	3.07	4.21	3.45	3.19	1.28	4.86	1.26	6.64	3.25	3.521
August	2.17	4.57	2.63	2.60	.58	3.34	1.36	2.20	2.01	3.72	2.536	
September	4.32	4.19	1.70	4.35	.94	2.39	1.64	5.49	1.49	.98	2.749	
October	4.27	2.74	2.91	1.81	1.58	4.59	3.44	3.17	.58	3.73	2.882	
November	2.47	1.10	2.88	.99	1.76	2.16	2.81	2.81	3.69	.77	2.144	
December	3.64	2.23	4.03	2.40	1.25	.92	3.46	3.26	.74	1.24	2.317	
TOTALS	29.01	29.45	29.9	26.49	19.12	25.96	29.95	24.78	26.59	23.06	(2643) ?	

Tree 20ft high 45ft E

Plantation 30ft high 110ft S.S.E.

Bishopswearmouth Church 7 furlongs NNW

1880 October 12th gauge moved 25 yds S.E. on account of growth of hedge

1882 Hedge 6ft high 2ft WSW.

1889 Feb'y Too small owing to snow drifting.

RAINFALL AT Sunderland West Glendon House

Lat. Lon. County of Durham

Snowdon Rain Gauge, by Observer T W Backhouse Esq.

Wear 2 No 5.

Diameter								5		
Height								1 -		
Altitude								132	130 ft	
Year.....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889
										MEANS.
January								1.78	1.16	1.11
February52	1.19	1.41
March								1.91	5.02	2.91
April60	1.45	2.05
May								1.39	.56	1.88
June86	.41	2.04
July								4.88	1.26	6.54
August								1.89	2.23	2.01
September								1.64	5.47	1.46
October								3.48	3.22	.60
November								2.82	2.89	3.70
December								3.47	3.31	.76
TOTALS								24.99	26.49	23.43

No 2 used for average (x 100)

1887 Bishopwearmouth Church 0.7 mile N NW

Hedge 6 ft high 21 ft W SW

Tree 20. - 45.. E

Plantation 30. - 40 .. S SE

RAINFALL AT Sunderland W Hendon 2d 905

Lat.

Lon.

County of Durham

Rain Gauge, by

Observer J. W. Backhouse Esq

Wear 2

Diameter	5											
Height	1 0											
Altitude	130 ft											
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January	1.79	.93	1.45	1.54	1.78	1.09	1.04	2.00	1.09	2.99	1.870	
February	1.42	.04	1.82	2.28	2.23	1.33	.59	1.40	.86	.99	1.296	
March	2.03	3.50	1.46	.62	.63	2.16	1.91	2.68	1.49	2.34	1.882	
April69	1.65	1.16	.48	.76	1.29	.65	1.44	2.51	2.18	1.281	
May	2.25	1.51	1.94	1.33	2.49	.81	.95	1.40	2.26	3.74	1.868	
June	3.02	.31	2.90	1.10	3.66	1.63	1.85	2.69	2.06	2.61	2.183	
July	1.72	3.84	1.37	3.53	2.47	6.77	2.34	1.25	.85	2.58	2.672	
August	6.90	3.83	4.17	2.06	2.66	3.76	1.34	2.70	1.85	.95	3.022	
September	1.91	1.84	2.77	1.51	.83	.40	2.54	2.51	.44	2.48	1.723	
October	2.45	1.80	4.88	.85	4.55	4.81	5.65	1.31	3.28	2.78	3.236	
November	3.33	1.87	1.39	2.90	.56	2.07	1.29	1.98	3.70	1.54	2.069	
December	1.37	2.72	1.34	1.38	1.56	1.84	3.92	1.36	1.18	3.48	2.015	
TOTALS	28.88	23.84	26.65	19.58	24.18	30.96	24.07	22.72	21.57	28.66	25.111	

1890 Bushy Parkmouth 07 mile N.N.W 18.72-

Hedge 6 ft high 21 ft WSW

Tree 20 " 45 "

E

Plantation 30 " 110 "

S.S.E

RAINFALL AT Sunderland W Hendon No 4

J_{ext}

J. LOW,

County of Durham

Flowers's Bottle Rain Gauge, by

Observer J.W. Backhouse Esq

Week 2

1890 Bishopwearmouth Ch 07 Mile NW

Hedge 6 ft high 21 ft

WSH

Tree 20° 45°

5

Plantation 30 . . . 110 .

S.S.E

1891 Gauge said to be old and not reliable

RAINFALL AT Sunderland West Hendon House

Lat.

Lon.

County of

Durham

Rain Gauge, by

Observer

J.W. Backhouse Esq

Robin Wear 2

VI

Diameter	5										
Height	10										
Altitude	130										
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January	1.67	.97	1.41	1.55	1.76	1.21	1.05	2.01	1.09	3.01	
February	1.47	.04	1.85	2.36	2.27	1.20	.61	1.44	.86	1.00	
March	2.05	1.45	.64	.64	2.18	1.94	2.69	1.50	2.22		
April	(.72)	1.73	1.18	.48	.78	1.31	.66	1.45	2.56	2.19	
May	2.27	1.56	1.99	1.34	2.56	.81	.95	1.42	2.27	3.74	
June	3.15	.88	2.96	1.11	3.73	1.63	1.86	2.70	2.10	2.64	
July	1.76	3.91	1.42	3.55	2.49	6.76	2.33	1.27	.87	2.59	
August	6.97	3.91	4.24	2.07	2.73	3.80	1.33	2.72	1.87	.95	
September	1.94	1.89	2.84	1.55	.85	.41	2.57	2.52	.44	2.52	
October	2.52	1.84	4.96	.87	4.57	4.88	5.69	1.32	3.30	2.81	
November	3.34	1.90	1.40	2.96	.55	2.08	1.30	2.02	3.70	1.56	
December	1.42	2.74	1.34	1.89	1.57	1.88	3.96	1.39	1.20	3.57	
TOTALS	(29.28)	27.04	19.87	24.50	31.15	24.25	22.95	21.76	28.80		

1890 Bishopwearmouth .07 mile

NNW

Hedge 6 ft high 21 ft

WSW

Tree 20 " 45 "

E

Plankton 30 " 110 "

SSE

1890 New gauge in April

RAINFALL AT Sunderland W. Hendon House No. 5 the best

Lat. Lon. County of Durham
 Sunderland Rain Gauge, by Casella Observer J. W. Backhouse Esq
 wear - 2.

Diameter ..	5										
Height	1.0										
Altitude ..	130 ft										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	M.EAN.
January ..	2.60	1.60	.71	2.43	1.86	.26	2.45	.34	1.11	.65	1.401
February ..	5.07	1.83	1.29	1.05	2.21	.59	1.04	1.07	1.28	1.45	1.683
March	2.06	1.92	.64	1.21	1.07	1.48	1.03	.96	2.63	4.47	1.747
April.....	.83	.90	1.49	1.74	.97	2.47	.82	2.02	2.76	2.52	1.652
May	1.26	2.15	2.29	2.35	2.68	.58	5.36	4.12	1.38	1.69	2.386
June	3.62	1.48	2.31	2.84	1.59	.76	1.13	2.64	.76	2.47	1.960
July	2.11	2.73	2.78	4.67	1.41	.97	.98	1.81	2.48	2.65	2.259
August	5.35	2.51	1.98	2.23	2.92	2.71	2.14	2.60	1.26	2.95	2.665
September..	.66	1.07	.67	2.53	.72	1.82	.40	.37	1.65	1.94	1.183
October....	7.05	1.83	2.34	8.16	.60	3.32	5.39	3.37	.99	2.83	3.538
November ..	2.85	5.06	1.38	2.35	2.25	4.45	2.96	1.50	1.32	1.28	2.540
December ..	2.25	3.59	2.77	1.59	2.07	.30	2.24	2.73	1.37	3.79	2.270
TOTALS ..	35.71	26.67	20.65	33.15	20.35	19.71	25.94	23.53	18.99	28.19	25.289

1900 Bishopsgate Church 0.7 mile N.N.W

Hedge 6.91 high 21 ft W.S.E

Tree 25. . 45. E

Plantation 35. - 110 .. SSE

1903 Sunderland Station 0.7 mile N

1906 Note - The ground has evidently sunk 2 ft since ordnance Survey in 1857

1907 Note - when the measurement is taken between 005+01 Rods it is reckoned as one on which 01 fell

RAINFALL AT Sunderland w Hendon No 6

Lat.

Lon.

County of

Durham

Ordinary Rain Gauge, by Coatta

Observer J. W. Backhouse Esq

wear - 2.

Diameter ..	5										
Height	1.0										
Altitude ..	130 ft										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	2.65	1.63	.72	2.48	1.88	.26	2.47	.36	1.10	.66	1.421
February ..	5.08	1.88	1.36	1.07	2.22	.59	1.05	1.08	1.29	1.46	1.708
March	2.08	1.95	.66	1.21	1.12	1.46	1.07	.95	2.63	4.45	1.758
April.....	.84	.91	1.50	1.81	1.00	2.49	.82	2.03	2.74	2.54	1.668
May	1.27	2.16	2.31	2.39	2.72	.59	5.41	4.12	1.39	1.69	2.405
June	3.62	1.50	2.32	2.87	1.60	.77	1.13	2.65	.76	2.46	1.968
July	2.12	2.74	2.83	4.69	1.43	.97	.98	1.81	2.49	2.69	2.275
August	5.39	2.55	2.00	2.23	2.94	2.71	2.14	2.61	1.28	2.96	2.681
September..	.66	1.07	.68	2.57	.74	1.82	.41	.37	1.65	1.99	1.196
October....	7.13	1.83	2.37	8.19	.60	3.34	5.37	3.39	1.01	2.35	3.558
November ..	2.87	5.10	1.38	2.43	2.29	4.47	2.96	1.49	1.35	1.20	2.554
December ..	2.26	3.69	2.75	1.61	2.06	.31	2.26	2.76	1.30	3.80	2.280
TOTALS ..	35.97	27.01	20.88	33.55	20.60	19.78	26.07	23.62	18.99	28.25	25.479 ± .55

1900 Bishopswearmouth Church 0.7 mile N.N.W

Hedge 6 ft high 21 ft W.S.W

Tree 25 - - 45 - E

Plantation 35 - - 10 - S.S.E

1903 Sunderland Station 0.5 mile N

1906 Note. The ground has evidently sunk 2 ft since Ordnance Survey in 1857

RAINFALL at Sunderland W/Hamilton No 6

County of Durham

Observer J.W. Backhouse Esq

River Basin 2 Year 2
Howard Rain Gauge, by Casella

Diameter ...	5											
Height	10											
Altitude ...	130 ft											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919		MEANS.
January ...	2.28	1.48	2.70	3.75	1.59	2.57	.75	2.90	2.39	2.85		
February ...	2.41	1.04	2.24	.56	1.01	2.88	2.12	.77	1.14	1.99		
March65	2.22	1.94	2.76	1.88	2.00	3.00	2.58	1.06	2.61		
April	1.97	1.36	.20	3.35	.64	.67	1.53	2.50	1.35	1.78		
May	2.61	1.01	2.47	2.57	1.41	1.82	2.13	2.67	1.89	.92		
June	1.79	4.83	4.68	1.30	3.68	.50	2.03	.99	.47	1.10		
July	2.11	.83	3.84	.73	3.47	2.16	2.89	.81	3.89	1.48		
August	2.93	2.42	4.18	.91	1.92	2.26	2.68	6.34	1.02	2.09		
September ..	.64	2.06	1.87	2.66	1.66	1.90	1.66	1.31	4.83	1.10		
October ...	2.54	2.29	3.56	1.79	1.70	1.61	2.61	2.22	2.05	5.47		
November ...	2.97	4.09	1.94	1.34	3.12	1.70	2.84	1.51	.95	4.44		
December ...	2.05	3.09	1.40	1.23	3.11	6.08	3.09	2.78	3.63	2.66		
TOTALS ...	24.95	26.72	31.02	22.94	25.19	26.15	27.31	27.38	24.67	28.29		

1912 Hedge 6 ft high 21 ft - W.S.W.
 Tree 25' 45' 6' S.S.E.
 Bank 35' 110' 55' N.N.W.

+ Imperfected

Date.	Lat. N.	Long. E.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911	55.54	1.228	Sunderland	2 mi	N.	Bishopwearmouth	0.7 mi	NNW

RAINFALL at Sunderland West Hendon House N° 5-

County of Durham

Observer Mr. Mountjoy

River Basin Wear 2

Snowdon Rain Gauge, by Casella

1920 Hedge 6 ft high 21 ft - WSW

Tree 25 " " 45 " E ← Moved October 1926.

Plantation 35° 40' ~ 40° 10' SSE

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	Parish Church.	Distance from gauge
1920	52° 54'	1° 23'	Sunderland	1/2 mi N	Bishopwearmouth	0.7 mi NW

RAINFALL at Sunderland West Hendon House No. 6

County of Durham Observer Mr. Mounsey

River Basin Wear 2

Howard Rain Gauge, by Casella

1920 Hedge 6 ft high 21 ft WSW

Year 25° " 45° " E

Plantation 35 " " 40 " SSE

Position of Station on reduced Ordnance Survey Map, 2 miles to 1 inch Series } No. of Map _____ Reference No. _____

Date.	Lat. N.	Long. W.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge	Direction
1920	54°51'	1°23'	Sunderland	1/2 mi	N	Bishop Wearmouth	0.7 mi	NNW

RAINFALL at Sunderland (W. Hendon Hb.) No. 6

County of Durham

Observer Mrs. W.A. Mounsey,

River Basin Wear - 2.

Type of Gauge Standard

Annual Average 25.6 in. based on 38 years obs. un-weighted. Period of average 1881-1935 Ref. B.M.N.

897043/29.

Diameter	S.											
Height	1.0.											
Altitude	130.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January	2.58	.86	2.08	1.60	2.79	3.76	2.52	2.07	3.65	2.41	24.37	
February	1.28	.94	2.83	.53	2.73	2.89	3.23	.97	.72	2.18	18.30	
March	1.27	2.91	1.24	2.57	.70	1.95	3.67	.25	2.09	2.02	18.67	
April	3.19	1.83	0.94	3.58	2.90	1.72	2.63	.22	.82	1.25	18.58	
May	2.65	4.56	1.37	1.11	1.08	2.03	3.00	3.37	1.42	.95	21.54	
June	3.19	1.25	2.02	2.23	2.66	2.94	2.06	2.51	2.48	1.03	22.37	
July	4.16	2.61	1.87	1.65	.42	2.69	3.09	2.85	2.76	6.88	28.98	
August	3.05	2.53	1.81	3.38	1.89	2.96	1.86	1.52	2.19	1.41	22.10	
September	3.59	1.94	1.77	1.39	.92	2.42	1.83	2.12	1.30	1.58	22.86	
October	1.48	3.64	4.08	3.13	3.91	1.50	2.03	3.31	4.31	2.69	30.08	
November	2.06	1.02	4.54	2.61	3.51	2.57	2.08	2.45	2.76	3.28	26.88	
December	1.42	.61	2.22	3.61	2.47	1.60	5.35	3.12	1.51	2.48	24.39	
TOTALS	29.92	24.20	26.27	27.39	29.98	29.03	33.35	24.76	26.01	28.16	279.07	
	D	D	D	D	D	D	D	D	D	D		

1931. Hedge 6' high 21° W.S.W. Plantation 40' high 110° S.S.E.

1932. Tree 10' high 10° SSE.

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	Parish Church.	Distance from gauge
1931.			Sunderland	2 m	N.	Bishop Auckland	0.7 m

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

Station No. 3549RAINFALL at Sunderland (W. Hendon Hs.)

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County of DurhamObserver Mrs. W. A. MansseyRiver Basin Tees 2Type of Gauge SnowdonAnnual Average 25.6 in. based on 35 years obs. un-weighted. Period of average 1881-1915. Ref. B of NFile No. 897043/29

Diameter	5"											
Height	1' 0"											
Altitude	130'											
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	
January	4.07	3.33	2.99	7.3	4.67	1.22	1.45					
February	5.80	1.73	.47	1.61	1.22	.41	1.34					
March	2.41	.81	.76	.67	.42	.88	3.57					
April	.90	.70	.79	1.94	1.24	1.49	2.72					
May	1.48	1.08	2.05	1.87	3.36	1.70	3.37					
June	.42	1.53	1.57	2.39	2.11	3.24	2.27					
July	.81	3.03	2.27	2.97	1.99	1.97	2.96					
August	2.30	1.67	4.63	1.73	4.49	2.70	3.9					
September	.54	3.35	3.41	5.35	1.92	3.68	1.69					
October	4.24	2.27	1.61	2.75	3.06	.92	1.43					
November	3.08	1.05	2.61	4.57	.80	3.45	2.14	1.52				
December	.22	2.23	1.11	1.36	1.10	2.83	2.30	2.01				
TOTALS	26.27	22.78	24.27	27.94	26.38	24.49	24.63	24.44	24.44	24.44		

1941 - Affletice 10' high 10° S.S.E. Hedge 6' high 21° W.S.W. Plantation 10' high 110° S.S.E. Det. cond. for snow.

1948 n.p. imp.

Gauge destroyed in February 1949; Station terminated.

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			Sunderland	1/2 mile	N.	Bishop Wearmouth	0.7 miles	N.N.W.

not located