

RAINFALL at West Hartlepool Water WorksCounty of DurhamObserver J. Bowen Esq. C.E.River Basin Tees + C 1aw Branson Esq. C.E.Square Rain Gauge, by Casella

Diameter ...	10											
Height	10											
Altitude ...	35 ft											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS. Total	1910-1919
January ...	2.06	1.07	2.19	2.63	1.37	2.29	.89	3.72	1.06	3.36	9.03	
February ...	1.72	1.14	1.34	.50	.96	2.02	2.59	.92	1.48	2.04	7.08	
March .....	.41	2.71	1.52	1.43	1.62	1.24	3.52	2.18	.79	2.64	9.18	
April	1.83	1.11	.13	2.18	.28	.79	1.00	1.47	1.31	1.43	5.21	
May	2.00	.53	1.77	1.52	1.58	1.68	2.42	1.64	1.80	1.05	6.91	
June	1.65	3.67	4.38	1.26	3.27	.52	1.80	2.09	.29	.58	5.03	
July	2.20	1.04	2.81	.48	4.15	2.35	2.62	1.08	3.49	1.48	8.67	
August	3.10	3.01	2.95	1.18	.84	2.98	4.69	3.70	1.23	2.20	11.82	
September ..	.46	1.19	1.32	1.38	2.11	1.88	2.35	.84	5.32	1.26	9.77	
October ...	2.59	2.04	2.48	2.95	1.89	1.18	2.47	1.95	1.74	6.30	12.46	
November ..	2.23	3.10	2.38	1.40	3.02	2.25	2.95	1.86	.90	3.22	8.93	
December ...	1.48	2.06	1.00	1.43	3.47	5.62	2.75	2.10	3.70	2.69	11.24	
TOTALS ...	21.73	22.67	24.27	18.44	24.56	24.80	30.05	23.55	23.11	28.62	105.33	

1912 Not read on Sundays

1910 Corrected for Windy day
1911 " "
et seq.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911	54.41.30 N	1.12.45 W	W. Hartlepool	1/2 mi	SSE	St Oswalds	230 yds	N.N.W.

RAINFALL at West Hartlepool Water WorksCounty of DurhamObserver A. R. Draxton Esq. C.E.River Basin Tees & C.J.R. Bradshaw1 square Rain Gauge, by Caseella

Diameter ...	10											
Height	1.0											
Altitude ...	35											
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. MEANS.	1920-30 Totals
January ...	3.22	3.57	1.30	1.14	1.29	1.17	1.99	1.34	2.71	2.65	2.98	23.36
February ...	.27	.23	1.92	2.28	1.22	2.21	1.50	0.75	1.22	.70	1.13	13.46
March	2.78	.74	1.26	1.17	1.02	1.47	.57	1.25	1.65	.15	.277	14.85
April	2.67	1.02	1.44	1.52	1.59	2.12	.91	1.42	.85	1.11	1.80	16.45
May	2.64	1.49	.87	2.56	4.60	2.12	2.30	1.46	1.10	1.10	1.30	21.54
June .....	.63	.41	1.45	.78	1.60	.12	2.66	3.05	5.25	1.93	1.51	19.39
July	5.35	1.36	3.80	2.48	4.00	1.64	2.33	3.67	0.97	2.12	5.59	33.33
August	1.30	4.28	2.23	2.48	2.86	3.63	2.17	5.81	2.56	1.72	2.95	31.99
September...	1.16	.44	3.24	1.49	2.13	2.43	1.56	3.00	0.71	1.07	2.89	20.12
October	2.56	1.69	1.37	1.63	3.43	1.52	2.74	1.14	2.77	1.95	1.78	22.58
November...	.63	2.47	.76	3.91	.75	2.72	3.17	5.04	1.64	2.61	3.39	27.09
December...	3.55	1.31	3.58	2.34	2.29	2.91	.70	2.35	1.19	2.26	1.71	24.19
TOTALS...	26.76	19.01	23.22	23.78	36.78	24.08	22.60	30.30	22.62	19.40	29.80	268.35

1926 Rainfall entered to day of reading up to 30th Sept, after that date credited to previous day.
 1927. Nov 10th amended ref nearby records 11 & Nov. 1900.

 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° 41' 33"	1° 12' 45"	W. Hartlepool	1/2 mi	S. 31 E	St Oswalds	230 yds	N. N. W.

RAINFALL at West Hartlepool (Waterworks)County of DurhamObserver J. R. Bradshaw, Esq.River Basin Tees & C. - 1.Type of Gauge (Gaxella 10) M.O.Annual Average 24.7 in. based on 22 years obs. un-weighted. Period of average 1881-1915 Ref. 5

917819/29.

Diameter	10 ¹ / ₄												
Height	1.0												
Altitude	35.												
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1931-40 Means Totals		
January	1.59	.87	2.11	.84	2.10	3.42	1.76	2.05	3.54	1.95	2023		
February	1.31	1.07	2.41	.84	2.41	2.49	2.69	1.20	.64	1.84	1690		
March	1.23	2.24	1.26	1.69	.72	1.26	2.75	.09	1.92	1.84	1500		
April	2.53	.95	.70	2.25	2.68	1.13	2.33	.23	1.35	1.38	1583		
May	2.29	5.18	1.51	.96	.67	1.84	2.62	2.65	1.27	.87	1926		
June	3.38	1.09	1.27	2.24	2.08	3.27	1.10	2.26	1.81	.80	1930		
July	3.35	2.55	1.15	2.28	.40	3.50	1.15	2.27	2.04	5.58	2427		
August	2.87	2.11	.26	2.85	1.56	1.91	1.38	2.03	1.88	1.34	1819		
September	3.45	1.75	1.76	1.20	4.38	2.17	1.53	1.45	1.62	1.27	2058		
October	1.18	2.41	3.79	2.39	3.61	1.39	1.34	2.27	3.92	2.59	2549		
November	1.70	.94	3.53	1.95	3.54	2.27	2.12	1.93	2.19	2.74	2291		
December	.93	.90	1.52	3.42	2.67	1.55	3.89	3.15	.99	2.46	2148		
TOTALS	26.11	22.06	21.27	22.91	26.82	26.20	24.66	22.18	23.17	24.66	24004		✓
	M.	2	2	2	2	2	2	2	2	2			

1935. Engine house 36' high 30 yds. E. Water tower 160' high 100 yds. W.

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.			West Hartlepool	1/2 m	S.S.E.	St. Oswalds.	230 yds.	N.N.W.

Station No. T.F. 3525

RAINFALL at West Hartlepool (Waterworks)

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County of Durham

Observer J.R. Bradshaw Esq.

River Basin Tees & C - 1

F. J. W. E. Esq. (1949)

Type of Gauge Casella 10" square M.O. (1945)

Adam Hope Esq. (1951)

Annual Average 24.7 in. based on 22 years obs. unweighted. Period of average 1881-1915 Ref. 8

File No. 917819/29

Diameter	10"		0.26	323						5'8"	
Height	1'0"			1							
Altitude	35'			41							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1941-50 Means Totals
January	2.81	2.73	2.44	1.01	4.06	1.12	1.37	5.79	1.51	1.53	23.37
February	5.99	1.49	.36	1.86	1.50	.51	1.91	.99	.29	2.58	17.48
March	1.65	.59	.52	.49	.26	1.03	2.91	.76	1.07	.59	9.87
April	.70	.64	.69	2.03	1.61	2.17	3.27	1.22	1.47	2.04	15.84
May	1.14	1.22	1.99	1.25	2.59	1.83	1.95	1.07	.73	2.01	15.78
June	.37	1.03	1.13	2.03	1.98	2.54	1.85	3.47	.52	1.73	16.05
July	1.01	3.82	1.38	3.27	1.88	3.24	2.51	.99	1.40	2.73	22.23
August	2.33	1.92	4.46	2.36	3.03	3.17	.32	4.49	2.07	4.95	29.10
September	.85	2.64	3.54	4.47	1.18	3.45	1.52	1.68	.48	2.37	22.18
October	3.38	1.98	1.23	2.34	3.71	1.00	.43	1.48	2.41	1.14	19.10
November	2.20	1.37	3.16	4.24	.97	3.87	2.11	1.21	2.23	6.18	27.54
December	.32	2.08	1.01	1.04	.86	2.14	1.56	1.18	2.10	2.84	15.13
TOTALS	22.75 D	21.51 D	21.91 D	26.39 D	23.63 D	26.07 D	21.71 D	84.33 D	152.8 D	30.09 D	233.67 10

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			W. Hartlepool	1/2 mile	S.S.E.	St. Oswalds	230 yds	N.N.W.

BRITISH RAINFALL ORGANIZATION

352

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County of...Durham

Observer

J. C. LORCH, Esq. BSc. (2.1.20)

River Basin... Lees & Co. - 1

Type of Gauge..... *M.C.*

Annual Average 24.7 in. based on 22 years obs. un-weighted

Period of average

Ref. \mathcal{S}

" " 23.99 " " -36 " Within 1920-56.

File No.

917819/29 5.

10

Dec. 1951, same killed - sound. Same that is g. to wood (1/2 sec) of P. 5th r. in C. 5th r. would be 1/2 sec. killed.

* 1.5.55 Gauge moved to new site. No obstructions. "Flat open space."

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference NZ(45) 509334

Date.	Lai. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge.	Direction
1952			West Hartlepool	½ mi	SSE	St Oswalds	230*	NNW.
* 1955			"	"	"	"	113 yd.	"

Summary of Earlier Records from 10-year Sheets :

1916-1950, P - Rejected

	1910-19	1920-30	1931-40	1941-50	1951-60
Record D, or d	✓ ✓ but - 12-15	✓ ✓ but D 26.30	✓ ✓ but M31 432-33	✓ ✓ but - 49	