

RAINFALL AT *Walla Walla, Oregon**Wm. Burman**W. Nottingham*

Rain { By
 Gauge Diameter in.

Height above Ground, ft. in. Above Mean Sea Level, ft.

YEAR		1858	1859	MEANS.
January		4.20	.67	
February28	.97	
March56	1.62	
April		1.65	2.54	
May		1.91	^{3.6} 8.51	
June		1.16	^{2.85} 5.25	
July48	.37	
August		2.68	3.30	
September ...		2.71	2.00	
October		3.87	1.92	
November83	1.35	
December.....		1.08	1.63	
TOTALS.....		17.34	19.58	

C C

10 per cent to be added - the gauge being incorrect -

In a pillar in garden clear of trees -

Wath-upon-Dearne.

W. M. Burman M.D.

8 in + ground 4 ft

+ sea level 186 ft

185 65

YEAR --	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	2.28	.28	1.05	3.61	.40	1.19	1.44	1.75	2.18	2.25	
February - -	.80	3.11	.52	.39	1.13	.94	1.56	.79	1.01	1.43	
March - - -	1.44	3.26	3.55	.74	1.96	.40	1.28	1.46	1.02	1.43	
April - - - -	.46	1.16	1.34	.61	1.20	1.51	.80	2.01	1.70	1.64	
May - - - -	3.38	.76	2.48	.75	1.44	2.04	1.35	2.41	.60	5.36	
June - - - -	3.04	1.77	1.33	2.78	.72	1.04	4.03	2.01	.31	.72	
July - - - -	1.67	1.91	.98	1.80	.52	1.68	4.36	2.61	.28	.27	
August - - -	3.07	.40	1.55	2.23	1.74	4.37	2.18	2.62	1.93	1.69	
September - -	2.61	1.78	3.43	1.26	1.27	.08	2.63	2.19	2.28	3.19	
October - -	1.76	.59	2.47	2.90	2.31	3.76	2.84	1.76	2.03	.94	
November - -	2.35	2.12	.35	1.36	1.63	1.85	1.91	.91	.74	1.17	
December - -	1.02	1.13	1.04	1.04	1.09	.36	1.59	1.16	6.05	3.31	
TOTALS -	23.88	18.27	20.09	19.47	15.41	19.22	26.97	21.68	20.13	23.40	20.852

C C & C & C C C C C C C

1864 The driest year since 1857
 gauge on g. wall no buildings near except one on the
 E side about 4 yards off, on b.th of Dr. I moved to a
 house 60 yards distant some 10 ft. higher above sea level

Reset daily & entered to previous day
 pressure

Obs. before Jan. 1862 are doubtful, Dr. Burman thinks too recent
 to little.

RAINFALL AT Rotherham Path upon Dearne.

Lat..... Long..... County of..... Yorkshire W.R.
 Rain Gauge, by..... Observer W. M. Burnam Esq.

Diameter	8											
Height	6.6	8										
Altitude	186.0	180.	180.	180.								
YEAR	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January	1.38	.67	2.62	.95	.91	2.01	1.24	3.60	2.12	1.13	1.663	
February	.92	1.35	2.20	.84	1.19	1.40	2.04	2.15	.91	2.58	1.558	
March	2.00	.87	2.00	2.08	1.12	.65	2.58	2.61	.65	1.01	1.547	
April	- 17	2.52	3.91	.61	1.73	.46	1.58	3.31	2.06	3.04	1.939	
May	.51	1.43	1.44	2.00	.72	1.07	.55	3.04	3.42	3.00	1.418	
June	1.42	3.50	3.90	1.10	.39	2.52	3.19	2.01	2.80	5.05	2.588	
July	.54	3.04	7.40	2.02	1.38	5.50	1.10	2.65	.81	4.16	2.860	
August	1.27	1.86	2.16	2.16	1.63	3.57	1.45	4.31	5.93	4.81	2.915	
September	.75	5.31	3.04	1.68	1.51	2.44	4.25	3.95	2.25	1.75	2.693	
October	* 6.47	2.15	4.82	1.29	2.19	4.50	2.61	2.20	2.28	.97	2.948	
November	1.68	.55	3.25	2.01	2.93	3.51	3.55	2.17	2.27	1.40	2.332	
December	2.29	.94	3.42	.18	2.04	.01	5.79	2.18	1.75	1.35	2.095	
TOTALS	19.40	24.19	40.16	16.92	17.74	28.54	29.93	34.18	27.25	30.25	26.856	

C C C

1870 6 in garden on the top of a disused hot bed chimney
thoroughly exposed *

1871 6 formerly 6.6 + ground but from Jan 1st 1872 has been
on slab 8 in + ground

1877 Gauge ^W on a wall 9 ft off & 6 ft high. S open. E House
23 ft high & 26 yards off. N. Wall 6 ft high 10 yard off

Watt church 400 ft N.N.W.

* Previous to 1871 probably owing to over exposure record
appears to be about 12% too small. D. qm

70

RAINFALL AT Wath-upon-Dearne
 Lat. _____ Lon. _____ County of Yorkshire W.R.
 Rain Gauge, by J. R. Baxter Esq.

Diameter										5
Height										1
Altitude										100
Year	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879 MEANS.
January										2.26 1.03
February										96 2.72
March										72 1.07
April										2.08 3.13
May										3.48 3.01
June										2.81 4.76
July88 4.00
August										5.82 4.57
September										2.23 1.67
October										2.39 1.79
November										2.55 1.51
December										1.75 1.42
TOTALS										2793 29.68

1879 Trees 30 ft high 78 ft E.
 Wall 3 ft .. 21 ft W.
 Shrub 6 ft .. 6 ft N.

All Saints church 600 yds W.

RAINFALL AT ~~Wath-upon-Dearne, Chesterfield~~

80

Lat.

Lon.

County of

Yorks

Rain Gauge, by

Observer N. M. Burman, Esq.

House - Don 7

Diameter 8

Height 1.0

Altitude 1837

Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January	.21	.63	2.83	3.44	3.61	1.23	3.40	1.98	.67	1.32	1.932
February	2.13	3.53	1.81	2.12	1.55	2.38	.49	.51	1.24	1.50	1.726
March	2.56	3.77	1.49	1.19	1.52	1.10	2.48	1.12	2.99	3.84	2.206
April	1.42	1.00	3.19	3.04	1.84	1.74	1.90	.85	1.75	2.80	1.953
May	2.82	1.59	1.68	1.06	.79	2.06	6.41	1.69	.45	4.32	2.287
June	4.79	1.75	3.96	3.30	1.13	2.70	.85	.28	2.05	.57	2.138
July	5.95	2.33	3.50	2.62	3.63	.53	5.04	1.17	4.08	1.54	3.039
August	1.88	4.80	1.61	1.00	2.10	1.07	1.45	1.89	2.16	3.05	2.101
September	7.71	2.57	2.20	5.11	1.12	1.70	1.00	2.68	1.19	1.50	2.678
October	7.46	3.30	4.93	3.25	.94	5.38	3.92	2.17	.81	3.62	3.578
November	1.83	2.51	3.06	2.37	.86	2.39	1.24	1.29	4.58	.52	2.065
December	3.70	2.70	4.64	.91	1.69	.49	3.87	1.45	1.57	1.30	2.282
TOTALS	42.46	30.48	34.90	29.41	20.78	22.77	32.05	17.08	23.54	25.88	27.935

1880. Wath

400 yards

NNW. by N

Wall 6ft high 9ft W

Stable 20ft. 21ft SE

House 25ft. 34ft E

1882. Wall 6ft. 30ft N

RAINFALL AT Wath upon Dearne

Lat. _____

Lon. _____

County of Yorks

Rain Gauge, by _____

Observer M. Paxton, Esq.

Dose - Don 4

Diameter	5										
Height	1.0										
Altitude	100										
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January	19	.82	2.87	3.45	4.01	1.38	(3.32)	2.26			
February	2.61	4.03	1.72	2.19	1.64	2.45	.23	.52			
March	2.47	3.48	1.56	1.26	1.66	1.75	2.21	1.27			
April	2.29	.89	3.17	2.86	1.74	1.85	1.26	.91			
May	2.52	1.36	1.58	1.09	.98	2.10	6.28	1.91			
June	3.91	1.73	3.87	3.20	1.09	2.63	.82	.24			
July	5.61	2.17	3.42	3.75	3.41	.60	5.19	1.15			
August	1.80	4.57	1.67	.90	2.08	1.14	1.49	1.89			
September	7.79	2.43	2.10	5.20	.94	1.85	.94	2.85			
October	7.22	2.86	4.88	2.98	.71	5.50	3.31	2.28			
November	1.68	2.71	3.43	2.53	.89	2.21	1.18	1.33			
December	3.51	2.36	4.48	1.05	1.95	.76	4.57	1.47			
TOTALS	41.60	29.41	134.75	30.44	21.10	23.62	(30.80)	18.03	9 R		

Wath upon Dearne Church 500 yards W. by N

1885 Tree 12ft high 18ft N

1886 Jan'y Snow neglected amount computed

Rejected from Survey : 2° too High

RAINFALL AT Wath-upon-Dearne Chapel St

Lat.

Lon.

County of

YORK N.R.

Rain Gauge, by

Observer

Dr Burman

House. Den Y

Diameter	8										
Height	10										
Altitude	185	ft									
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January	2.44	1.04	1.16	1.59	1.57	3.98	.48	2.85	.48	2.85	1.8114
February83	.05	2.51	2.74	2.46	.10	.67	2.82	.66	1.46	1.410
March	1.69	1.22	1.00	.21	.88	1.62	2.06	2.49	1.00	.90	1.307
April64	1.66	1.27	.37	2.91	2.06	.82	1.50	2.21	1.34	1.478
May	2.95	2.70	3.08	2.38	1.47	.76	.66	1.02	2.62	2.53	2.017
June	2.14	1.91	4.21	1.75	2.72	3.31	2.32	2.37	1.55	2.20	2.448
July	2.24	1.99	2.12	2.80	3.12	4.91	1.04	.71	1.69	1.66	2.281
August	2.51	2.91	2.13	1.95	1.69	2.02	1.79	2.33	3.13	.90	2.136
September	1.51	1.81	1.43	1.13	.66	.59	3.81	1.45	.41	3.23	1.604
October99	3.07	5.08	1.56	4.14	2.71	2.61	.99	3.27	2.93	2.735
November	2.97	2.53	1.18	1.81	1.01	2.95	1.28	1.98	2.02	1.13	1.886
December73	3.70	.41	2.43	1.28	2.57	2.75	2.43	1.94	2.39	2.063
TOTALS	21.64	24.59	25.38	20.75	23.91	27.58	20.29	22.95	20.98	23.52	23.159

1890 Wath Church 400 yards N NW by N 1890
 Wall 6 ft high 10 ft W
 Stable 20 " 21 " S E
 House 25 " 54 " E
 Wall 6 " 30 " N

RAINFALL AT Wath-upon-Dearne Chapel Street

Lat.

Lon.

County of York WR. Northern

Name made Rain Gauge, by

Observer Dr. Burman

Case. Don Y.

Diameter ..	8										MEANS.
Height ..	3.0										
Altitude ..	188 ft										
Year ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	
January ..	3.22	1.34	.76	2.22	1.98	.51	3.00	.78	1.09	1.20	1.610
February ..	4.28	1.22	1.47	1.69	4.14	.78	2.28	.91	1.79	.51	1.907
March ..	.67	1.63	1.17	2.73	2.07	2.28	1.18	1.05	2.86	3.67	1.931
April ..	.70	1.53	2.64	1.51	1.63	1.85	.55	1.84	2.02	1.75	1.605
May ..	1.28	.93	2.58	2.64	2.36	.56	1.44	3.52	2.04	2.05	1.940
June ..	2.39	1.29	1.92	1.44	.80	3.45	1.88	3.32	1.34	3.90	2.173
July ..	2.48	3.52	1.92	2.40	1.73	1.82	1.17	2.26	1.88	4.81	2.399
August ..	5.23	.96	4.16	2.91	3.63	2.85	1.39	1.76	2.43	2.32	2.764
September ..	.52	.93	.88	2.87	1.05	1.13	.59	.36	1.14	2.20	1.167
October ..	2.59	1.81	2.51	5.86	.50	1.55	5.10	5.42	.93	1.74	2.801
November ..	2.56	3.24	2.02	1.05	.84	3.24	2.88	2.24	.74	.29	1.910
December ..	3.57	4.76	1.55	1.02	1.42	.46	2.25	2.15	1.64	5.25	2.407
TOTALS ..	29.52	23.16	23.58	28.34	22.15	20.48	23.71	25.61	19.90	29.69	24.614

D D D D D D D

1900 November 20th Gauge moved 8 ft N

Wath upon Dearne Church 347 yards N

Stable 20 ft high 28 ft S

Farmhouse 6' 8" 12' N

1903 Watt Station G.C.R. 3/4 mile NNE

Hub

RAINFALL at Wath-upon-Dearne Chapel Bank

County of W.R. Yorkshire

Observer Dr J. J. Burnam

River Basin Ouse - Don 7

Smaller Rain Gauge, by N+3

Diameter ...	8										
Height	2.2										
Altitude ...	188 T										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	M.EANS.
January ...	2.27	.92	3.85	3.09	1.02	2.33	.67	2.09	1.72	3.18	766
February ...	1.87	1.16	1.52	.61	1.19	2.74	3.72	.59	1.63	2.40	824
March76	.86	2.49	2.49	1.59	.90	3.89	1.53	1.10	3.52	1006
April	1.97	.68	.18	2.54	.55	.64	.86	1.84	1.30	1.51	531
May	1.88	.61	4.13	2.11	1.19	1.80	2.70	2.33	2.35	.70	808
June	3.44	2.56	5.03	.41	2.18	1.13	1.49	1.61	1.19	.78	507
July	2.93	.22	5.02	1.48	3.60	3.94	1.28	.90	3.78	3.81	977
August	2.40	1.88	6.03	1.66	1.59	2.31	1.17	4.01	1.61	2.65	942
September ..	.20	1.98	1.13	3.58	.75	.93	1.18	.68	5.45	2.21	952
October ...	1.70	2.13	2.11	3.80	2.21	1.34	1.93	2.90	1.30	2.95	908
November ...	3.33	2.79	1.83	1.75	2.43	2.39	2.82	.79	1.11	1.52	624
December ...	2.98	3.51	1.88	1.24	4.50	5.63	1.93	1.57	2.51	2.89	890
TOTALS ...	25.73	19.30	35.15	24.76	22.80	25.58	23.64	20.84	24.95	27.92	25067 9735

1910 Jan 1st New Smaller Gauge
 1914 Scale 20 ft long 25 ft 5
 from 6 ft 12 ft

Date.	Lat. N.	Long. W.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
53° 30' 10" N 1.20° 30' W	Wath-on-Dee	3/4 mi	NNE	Wath-on-Dee	347 pds	N		

RAINFALL at Walk-upon-Deerne Chapel Street

County of W.R. Yorkshire

Observer late Dr. F. J. Burnham M.A. F.R.S.

River Basin Ouse-Dow 7

F. J. Cowley

Cm Snowdon Rain Gauge, by M. J. B.

{ 8.01
8.10
1.90

good condition measure (flat bottom) n+2, curved

8.01

Diameter ...	8											
Height	2.2	inspected 1ft 3										
Altitude ...	188											
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MILES	
January	2.79	1.66	3.25	1.84	1.47	1.76	2.23	1.80	3.19	1.64	3.15	2378
February	1.89	.21	2.39	4.53	1.15	2.98	1.52	.99	2.30	.94	.59	1951
March	1.63	.73	1.44	1.59	.93	.60	.61	1.76	2.84	.05	2.21	1439
April	3.84	.83	2.92	2.10	1.52	2.70	1.25	1.96	.94	.81	2.86	2173
May	3.06	.99	.86	2.55	3.01	3.14	1.63	.97	1.99	1.10	1.17	2057
June	2.64	.32	.71	.72	1.62	.12	3.26	2.20	3.00	1.27	.64	1658
July	4.97	.28	2.54	3.82	2.29	1.30	1.61	2.36	.43	.88	5.65	263
August	1.12	3.61	5.30	2.14	2.81	2.21	2.67	5.15	2.09	1.86	2.23	3119
September...	1.16	.94	2.02	1.24	2.65	2.27	.79	3.71	.30	1.10	4.09	2027
October.....	1.65	1.52	.98	1.62	3.26	2.52	2.24	1.65	4.79	2.40	1.95	2458
November...	.95	1.76	.78	2.49	1.74	1.62	2.64	2.59	2.18	4.23	2.65	2363
December...	2.22	2.22	3.09	2.35	1.86	2.37	.83	1.87	1.65	4.33	1.95	2474
TOTALS...	27.92	15.07	26.28	26.01	24.31	23.59	21.28	27.01	25.70	20.61	29.24	267.02

inspected 20. VII. 22. G.B. The g. was in kitchen garden where has stood for over 20 years. Excellent position.

9.56

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
	53° 30' 10"	1° 20' 30"	Walk-on-Deerne	3/4 mi	NN E	Walk-on-Deerne	3 1/2 yds N

RAINFALL at Wath-upon-Dearne (Chapel St.)

County of West Riding Observer Dr. T. Crowley

River Basin Ouse - Don - 7

Type of Gauge

Annual Average 24.5 in. based on 25 years obs. un-weighted. Period of average 1881-1915 Ref. Bed N.

Diameter	8.											
Height	1.3.											
Altitude	188.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Mean	
January	1.48	1.12	1.68	1.39	1.12	2.81	3.11	2.10	4.85	2.26	2192	
February	2.16	.43	3.43	.55	2.45	2.54	3.39	1.09	.73	2.41	1918	
March	.23	1.37	2.76	1.75	1.30	1.62	2.52	.19	1.93	1.56	1523	
April	2.89	2.29	1.41	1.96	1.93	1.14	2.65	.14	1.29	2.00	1770	
May	2.76	6.25	2.16	.92	.41	.79	2.68	2.50	1.47	.74	2068	
June	4.73	.47	0.90	1.92	2.08	4.04	1.55	1.82	1.82	.51	1984	
July	3.29	2.63	1.41	1.42	.71	3.93	2.69	2.95	5.13	2.91	2707	
August	4.24	1.92	0.27	.68	1.90	1.21	.27	4.91	1.77	.29	1746	
September	3.88	1.23	1.79	1.68	3.74	2.10	1.65	2.08	2.55	.83	2153	
October	.69	3.26	4.63	1.45	3.53	2.19	2.98	2.89	2.30	3.63	2755	
November	3.37	1.26	1.70	1.91	4.12	2.80	1.68	2.40	3.10	5.07	2771	
December	.60	.72	0.25	3.43	2.22	1.36	3.60	3.05	1.37	2.08	1868	
TOTALS	30.32	22.95	22.39	19.06	25.51	26.53	28.77	26.12	28.61	24.29	25455	
	D	D	D	D	D	D	D	D	D	D		

1940 Feb. corr. for snow.

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

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

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

Station No. 3158 M.

RAINFALL at Wath-upon-Dearne (Schoop St.)

41

County of West Riding, Yorkshire. Observer Dr. T. Bowley.

River Basin Gauge Don.

The Water Engineer.

Type of Gauge.

Annual Average 24.6 in. based on 35 years obs. un-weighted. Period of average 1881-1915. Ref. G.21 N.
24.43 " " 1916-1950
1916-1959 File No. 120042/140 P

Diameter	8"	086	171				Ends	3161	
Height	1' 3"		1				1941		
Altitude	188'		41					43 -	
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949
January	4.41	2.28	2.92	2.96	1.78	2.08	2.43	4.19	5.99
February	3.23	1.20	.61	1.59	1.55	2.08	2.06	1.25	6.30
March	3.92	1.53	.64	.45	.49	1.16	4.08	.51	3.01
April	1.30	1.04	1.34	1.87	1.32	1.30	1.91	1.03	5.52
May	1.54	2.32	2.03	2.11	3.33	3.49	2.42	1.30	3.87
June	.16	1.22	.83	1.83	2.81	3.88	2.74	2.55	3.69
July	3.16	1.71	.88	2.30	2.11	3.04	1.87	1.00	5.41
August	2.13	2.20	1.58	2.69	2.27	4.73	.72	6.74	11.13
September	.39	1.47	3.38	3.29	.80	3.04	1.08	1.65	4.92
October	2.36	1.98	1.42	2.53	3.74	1.05	.51	1.27	4.87
November	3.03	1.44	1.67	3.95	.26	4.48	1.23	1.00	7.85
December	.52	1.26	.88	1.72	1.17	2.26	2.25	2.76	6.26
TOTALS	26.14	13.65	18.18	26.69	21.63	31.59	23.36	25.25	6882
	D	D	D	D	D	D	D	D	23606

N.G.R. from 1916-50 long period working sheets

Sect 6/72.

Position of Station on reduced Ordnance Survey Map, 1 mile to 1 inch Series

Reference No. SE 433004

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

RAINFALL at

Wath-upon-Dearne

County of

Yorkshire W.R.

Observer

Douglas Jewsbury Esq., M.A.

River Basin

Ouse - Don - T

Type of Gauge

C

Annual Average 24.6 in. based on 1 years obs. un-weighted. Period of average 1916-50
1958-64 (1945)

Ref.

File No.

22362

Diameter ...											5"			
Height ...											11'			
Altitude ...											250'			
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means			
January ...											2.67	2.64	2.29	
February ...											3.71	.03	2.08	
March ...											1.73	.86	1.44	
April34	2.71	0.60	
May ...											2.31	.63	1.03	
June ...											5.33	1.58	1.10	
July ...											2.78	5.39	.94	2.14
August ...											4.48	2.06	.79	3.33
September ...											3.15	1.92	.01	3.56
October ...											1.12	1.40	1.40	5.43
November ...											2.13	.58	3.31	3.42
December ...											2.19	3.12	3.16	2.14
TOTALS ...											30.56	18.06	30.56	
											96	91	94	

1957 Sled 5°, 27'W; Hedge 25°, 5'N. Record acceptable from July 57.

1957 up to

1959: Print

Position of Station on Ordnance One-Inch map :

No. of Map 103

National Grid Reference SE(4)A35000

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

Summary of Earlier Records from 10-year Sheets :

	1910-19	1920-30	1931-40	1941-50	1951-60
Record D, or d					2.1957