

Upper Avon - 1.

Frank Gullor.

Warwick.

Upper Avon - 1.

YEAR - -	1850	1851	1852	1853	1854	1855	1856	1857	1858	1859	MEANS.
January - -	.97					.07	2.92	2.64	.28	1.09	
February - -						99	1.65	.76	.98	1.45	
March - - -						1.22	.67	1.89	.62	1.41	
April - - -						.57	1.69	2.51	2.47	1.94	
May - - -						1.14	2.78	.85	1.92	1.23	
June - - -						# 2.07 1.97	2.41	1.40	2.23	1.36	2.51
July - - -						2.32	6.02	1.53	2.26	1.76	1.39
August - -						1.93	1.22	1.65	3.84	2.22	2.23
September -						1.03	1.03	1.52	3.87	2.17	1.79
October - -						1.10	4.46	1.72	2.18	2.16	2.42
November -						1.48	1.16	1.35	1.57	.45	1.88
December -						1.45	.67	1.67	.61	2.03	1.75
TOTALS -						21.81	20.55	25.21	18.42	21.09	

Previous to June 1857 the Gauge was on the Roof 50 ft from the Ground.

Subsequent to June 1st 1857 it 2 ft 4 in. above the Ground.

Rugby

Warwick

Jud. Juller Engt.

$52^{\circ}22'N$
 $1^{\circ}15'W$

Upper Avon - 1

12 in + ground 2 ft. 4 in + Sea Level 315 ft.

YEAR	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January	2.56	1.37	2.29	2.07	.92	2.04	2.15	3.09	2.34	3.26	
February	.84	1.52	.39	.45	1.45	2.17	2.58	1.42	1.54	2.26	
March	1.89	2.07	3.58	.31	2.81	1.22	1.22	2.57	2.08	1.43	
April	1.21	.55	1.56	1.41	1.48	.68	1.23	2.37	1.40	1.35	
May	2.96	1.03	2.34	.44	1.39	1.62	1.39	2.39	.53	3.22	
June	5.36	1.88	3.32	3.72	.87	2.47	2.33	3.25	.26	2.41	
July	1.40	4.62	1.89	.66	.27	3.85	3.14	2.46	.30	.22	
August	3.16	.85	1.90	2.02	.73	3.47	4.08	3.43	3.34	1.43	
September	2.51	1.97	3.28	2.23	1.36	.24	6.20	3.49	2.16	3.34	
October	2.29	1.23	2.59	2.13	1.67	4.60	1.97	2.69	2.28		
November	2.01	2.51	.75	1.97	1.65	2.29	1.74	.49	1.44		(100)
December	1.35	1.22	1.30	1.10	1.79	1.29	1.87	1.86	5.48		
TOTALS	27.54	20.82	25.19	18.51	16.39	25.94	29.90	29.57	23.15	(25.92)	

1864 May 19th The chimney of Town Hall struck
a horse killed at the station & a wooden post
split by the same flash.

1865 6th July = 2.035 preceding day

1869 I left Bury on the 1st of March for Avon Lodge about 2 miles off from that time to the end of Sept. the Gauge was only emptied monthly & that by a deputy, so that I could not speak for the accuracy, though I believe it to be correct.

RAINFALL AT *Rugby School*

Lat..... Long..... County of..... Warwick
 Rain Gauge, by..... Observer..... A. Lidgwick Esq

Upper Avon -- 1

Diameter.....	58										Reg. Sta. No: 448547
Height	x 11										N.R: SP(4) 504749.
Altitude.....	583										Alt. 116m
Year.....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	3.84	1.52	2.35	3.16	1.95	3.10	1.77	2.15			
February.....	(300)	2.25	1.14	1.80	1.27	2.77	2.15	1.43	2.88		
March.....	1.15	1.95	.87	.42	2.66	1.81	.86	.68			
April.....	2.62	2.51	.80	1.20	1.54	3.67	2.40	1.99	2.15		
May.....	1.50	2.18	2.53	1.44	1.86	.41	1.80	5.12	2.74		
June.....	3.16	4.80	3.64	70	3.98	2.58	1.18	3.15	4.48		
July.....	4.19	4.31	2.32	65	7.58	.88	3.71	1.00	3.55		
August.....	1.18	2.99	2.16	2.26	1.14	2.26	3.89	4.44	4.35		
September.....	4.68	1.61	1.28	3.16	3.38	4.65	1.86	2.37	2.96		
October.....	1.98	3.02	1.98	4.23	5.87	1.57	1.98	2.64	1.17		
November.....	924	741	63	2.53	4.34	3.00	2.81	3.84	1.15		
December.....	1.27	3.30	.71	1.11	1.12	4.18	2.02	1.99	.84		
TOTALS.....	18.00	24.50	36.20	21.66	22.34	35.66	30.88	28.71	30.60	29.10	

C C

Height & diameter of gauge altered after a correspondence with Mr Lidgwick in which he states that the other figures were erroneously given

Jan 1870 - Mar 1871 estimated from Leamington,
Upper Parade

Slight corrections made to monthly totals 6/1874 and 7/1879 and hence annual totals on basis of comparison with sum of daily totals from original climat. records used in preparation of archive dataset. June 1978

RAINFALL AT *Rugby School*

80

Lat.

Lon.

County of Warwick

Rain Gauge, by

Observer, W. G. Michell, Esq
C. H. Hodges Day.

Upper arm - I.

Diameter	5"	Hyd. Sta. No. 448547								
Height	1.3	NGR: SP(42) 504749							1.0	
Altitude	383 T	at: 116m							380	
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	MEANS.
January39	.67	2.10	3.17	2.64	1.73	3.03	2.82	.97	1.03 1.04 1.846
February	2.75	3.91	2.14	3.04	3.41	2.89	2.57	.77	.61	1.95 1.80 2.083
March	1.69	1.55	1.32	.97	1.57	.78	2.16	.92	2.42	3.10 1.642
April	1.44	1.41	3.30	1.63	1.85	2.44	1.76	1.30	1.94	2.73 1.880
May	1.41	.88	1.85	1.99	1.08	2.88	5.30	1.39	1.05	3.59 2.142
June	2.65	3.75	4.75	3.26	1.43	2.10	.90	1.57	2.20	.84 2.339
July	7.88	2.57	3.15	3.59	3.61	4.11	.17	3.00	1.38	7.22 2.62 3.569
August	1.12	5.60	1.58	1.06	2.46	3.01	1.42	1.10	2.25	2.84 2.244
September....	4.72	1.81	2.73	4.83	1.13	2.88	1.68	2.15	1.02	2.91 2.586
October.....	6.62	3.07	5.62	2.01	1.24	3.82	4.28	2.33	.66	2.68 3.233
November....	1.98	3.25	4.11	3.27	1.60	3.35	2.85	2.25	3.71	1.37 2.774
December....	4.03	3.29	3.36	1.21	2.24	.93	3.19	1.74	2.12	1.77 2.388
TOTALS	36.68	30.76	36.01	30.43	22.08	26.66	30.34	19.50	27.51	27.29 27.28 28.726
				30.42						

Slight corrections $\pm .78$ from original Climat. returns (sum of daily totals) used in preparation of archive dataset.

RAINFALL AT Rugby School

Lat.

Long.

County of Warwick

Rain Gauge, by

Observer H.P. Highton Esq

Upper Avon - 1.

E. Kitchener Esq

Diameter	5	Regd. No. No.	448547	8	5						
Height	13	NGR:	SP(42) 504749								
Altitude	383 T	All New									
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January	2.56	1.75	1.19	1.65	1.46	3.62	1.46	2.27	1.18	3.04	2.018
February	.62	.04	1.04	2.76	1.78	.19	.41	2.60	1.14	2.36	1.289
March	1.56	1.14	.59	.23	1.16	2.05	2.55	2.67	1.07	1.51	1.455
April	1.77	1.52	.79	.29	1.91	.91	1.16	1.79	2.30	2.13	1.457
May	1.47	3.16	1.66	2.07	1.98	.75	.34	1.22	3.27	1.81	1.770
June	1.94	1.42	2.53	.83	2.51	.28	2.34	2.36	.82	1.32	1.630
July	2.39	2.07	2.93	4.17	2.84	2.57	1.80	1.44	1.00	1.40	2.254
August	1.91	4.02	1.85	1.75	2.17	2.27	2.15	4.11	3.53	1.38	2.514
September	1.18	1.13	2.03	1.08	1.79	.73	1.10	2.50	.54	2.71	1.477
October	1.63	5.19	3.21	3.18	3.08	2.73	3.08	1.73	3.45	2.65	2.999
November	3.97	1.88	1.70	1.84	3.79	5.19	1.07	1.06	1.81	1.44	2.375
December	.67	3.58	1.47	1.70	2.43	1.60	3.91	1.02	2.07	1.91	2.026
TOTALS	21.67	26.90	20.99	21.55	26.85	22.89	24.37	24.77	22.18	23.56	23.556

1896 St Andrews Ch 400 yards N

1880

Tree 6 ft high 12 ft

all directions

1898 March, May, June, July, October and annual : totals adjusted to agree with sum of daily values on original climat. returns when transcribed for transferring to archive dataset (errors introduced by rounding) — June 1978.

RAINFALL AT Rugby Temple Observatory School
Lat. Lon. County of Warwick

Rain Gauge, by
Upper Avon - 1.

Observer S. J. B. T. Syme Willson Esq
Rev Denys E. Shorlock Esq

Diameter ..	5	<u>Type No. 448547 (Rugby School)</u>								Type No. 448546	
Height ..	1.3	<u>N.R.: SP(42) 504749</u>								<u>N.R.: SP(42) 507749</u>	
Altitude ..	383 ft	alt.	116 m		380					alt. 117 m	
Year ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	3.69	.95	.94	1.89	2.20	.57	3.53	1.20	.79	1.17	1.719
February ..	4.71	2.36	1.35	.95	2.75	.57	2.18	1.13	1.19	.55	1.774
March ..	.64	1.00	1.59	3.30	1.63	2.62	1.38	.94	2.79	3.38	1.927
April ..	.81	2.39	1.33	1.26	.85	1.20	.89	2.10	4.18	1.37	1.638
May ..	1.69	1.04	2.28	2.90	2.29	.44	1.93	4.15	1.32	1.61	1.964
June ..	3.46	3.16	3.34	2.22	.61	3.09	3.02	2.06	1.21	3.46	2.563
July ..	.77	3.68	1.70	2.07	1.94	1.48	.86	2.47	2.44	2.89	2.130
August ..	3.66	1.69	3.83	3.24	2.42	3.86	.94	3.51	3.75	1.76	2.866
September ..	.66	1.17	1.17	2.00	2.08	2.00	1.60	(0.76)	1.93	2.21	1.547
October ..	2.72	.94	2.42	5.79	.76	.93	4.95	5.14	1.24	3.02	2.790
November ..	3.26	.65	1.50	1.66	1.37	2.20	3.21	1.88	.81	.68	1.721
December ..	4.61	3.46	1.16	2.01	(1.56)	91	2.43	3.06	2.56	3.88	2.564
TOTALS ..	30.68	22.49	22.61	30.28	20.46	19.87	26.92	28.40	24.21	25.98	25.203

1900 St Andrews church 150 yards N
House 35 High Gt ...

*1904 December partly interpolated. None readings taken after 18th owing to accident
† 1907 Sept amount estimated

wef. 10/1907 Rugby, Caldecott

(Accumulation)
*(Readings supplied using Rugby, Bilston Grange 2461 for archive dataset. Monthly total is correct. June 1978

Slight corrections made on the basis of climat. Returns sum of daily totals used in preparation of archive dataset. [†]Sept. 1907 value of 0.76 in measured (daily) totals at the time but not communicated to Met. Office. S&B June 1978

(For School)

RAINFALL at Rugby Temple Observatory Caldecott (1919)

County of Warwickshire

Observer Rev Denys Elphinstone

B.C. Bishopton pm. v

River Basin Severn - Upper Avon

W.A.D. Rudge Esq. 1919

Station Saxon copper Rain Gauge, by Casella P.R. (7.20)

Diameter ...	5										
Height	1.1										
Altitude ...	380 T										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	2.68	.90	3.83 3.85	4.12 4.06	.85	2.47	1.38	2.01	1.97	4.26	
February ...	2.20	1.38	1.61	.77	1.63	2.91	3.55	.59	1.37	2.77	
March68	2.23	3.13	3.96	2.85	.93	3.94	1.03	.91	3.91	
April	1.56	.95	.15	2.94	1.09	.83	1.01	1.53	2.48	1.59	
May	2.43	.95	3.11	1.51	1.35	2.03	1.55	2.01	.98	.89	
June98	1.53	4.11	.68	2.65	1.41	1.49	2.96	1.07	.95	
July	2.20	.31	3.68	.91	1.93	4.04	1.75	1.49	2.80	^{3.00} (2.96)	
August	3.14	1.69	6.42	.72	1.38	1.71	3.27	3.39	1.14	2.13	
September ..	.53	1.19	1.88	1.62	1.12	1.70	.84	1.42	4.68	1.87	
October ...	3.47	1.92	2.36	3.34	2.85	1.88	2.22	2.91	1.30	1.25	
November ..	3.47	2.42	1.66	2.48	2.41	2.17	2.88	.95	2.13	1.33	
December ...	4.50	3.66	3.10	.85	5.44	3.77	2.20	.74	2.32	3.81	
			35.24		24.85					27.76	
TOTALS ...	27.84	19.03	35.24	23.90	23.84	25.05	26.15	26.05	21.03	23.15	(27.72) 25513 D

1912 Jan partly estimated Accumulation (8-27th) but monthly total is accurate II. 78
 (House 27 ft high 30 yrs) *

Slight corrections made II. 78 from transcribed data from Climatological returns compared with F. 1000: mostly due to rounding errors.

Original values read in MILLIMETRES August 1915 onwards: monthly totals in inches are converted from monthly totals in mm and differ slightly ($\pm 0.5\text{mm}$) from archive Datastar values for this reason.
 + £3.45 p. 20. excellent level field, trees S+E, buildings on N all well away.

Date.	Lat. N.	Long. W.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
52.22	1.15		Rugby	830 yds	E	Holy Trinity	600 yds	NW

2462
20RAINFALL at Rugby (Caldecott).County of WarwickObserver W. G. D. Ridge Esq.,River Basin 1 - Upper Avon1921 H. R. Sparkling Esq.1922 R. Brostow.(1926) N.H.O. Brostow
officerRain Gauge, by P.R.R.
7/201925 R. M. Carey Esq.
(1929) R. Lander Esq.

Diameter ...	5"												1930 MEANS.
Height	1.0												
Altitude ...	390												
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929			
January ...	2.91	1.48	2.68	1.52	2.47	1.53	2.81	2.24	3.76	1.24	1.21	3.20	
February66	.15	1.72	3.42	.57	2.41	2.99	2.70	1.96	.18	.51		
March	1.74	.97	2.23	1.44	.64	.48	.50	1.91	1.33	.19	1.90		
April.....	4.35	1.31	2.78	1.89	3.43	1.68	2.74	1.61	1.34	1.20	1.85		
May	1.69	1.73	.67	.97	3.93	2.73	2.39	0.81	.83	1.69	3.43		
June	2.62	.32	.59	.41	1.79	.02	1.48	3.44	2.54	1.11	1.59		
July	3.19	.31	4.16	2.70	3.08	2.40	1.69	2.24	1.58	1.86	4.28		
August	1.24	2.98	4.71	1.76	2.28	1.78	2.15	3.08	3.58	1.69	2.07		
September...	2.00	.88	2.03	2.71	2.81	3.07	1.70	4.28	.51	1.56	3.89		
October.....	1.93	1.27	.53	3.54	3.83	2.78	1.90	1.53	3.80	2.78	1.87		
November...	1.10	1.32	1.10	2.43	2.42	1.47	4.03	2.56	2.56	6.05	2.76		
December...	1.99	1.58	3.16	2.70	3.00	2.09	.50	2.39	2.15	4.69	2.64		
TOTALS...	25.72	14.30	26.36	25.49	30.27	22.19	22.44	24.88	28.79	25.94	24.27	29.99	
	0	0	0	0	0	0	0	0	0	0	0	0	

E.S. 15/7/20 Eccles, & level field, buildings on N. - all well away.

1922 : g. in field.

1926. Screen 3' 6" high + 7ds. N.
Tree 35' " 20° S.S.E.

Post 6' " 4° S.W.

Original records in MILLIMETRES from August 1915: The values above are converted mm-to-inch monthly totals and show slight discrepancies from sum of daily conversion. A few corrections have been made on comparison with original client records for the purposes of preparation of archive dataset of daily rainfall. See June 1978

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 Parish Church. Distance from gauge	1920. 52°22' 1°15'w. Rugby Club. $\frac{3}{4} \text{ mi}$ E. Rugby	$\frac{1}{2} \text{ mi}$ NW.

RAINFALL at Rugby (Gaddesden) M.W.R.
 County of Warwickshire Headmaster,
 River Basin Soar Observer Rugby School
 Type of Gauge.....

Annual Average 25.6 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. B of N

Diameter	5											Syst. No. 448546
Height	10											14R: SP(42) 507749
Altitude	383											alt. 117m
Year	1931	1932	1933	1934	1935	1936	1937	† 1938	1939	1940	Means	
January	1.41	1.36	1.12	1.26	1.82	2.78	2.64	2.76	4.84	2.68		
February	2.88	2.28	2.39	1.50	2.11	1.80	3.35	1.14	1.93	2.52		
March	.07	1.24	2.28	1.07	1.38	1.36	2.45	1.33	1.43	2.06		
April	3.80	3.45	0.87	1.65	3.34	1.82	3.27	.02	1.58	1.91		
May	3.02	5.28	1.28	.70	1.87	.86	3.19	1.47	1.35	1.61		
June	2.40	1.54	1.83	.66	3.32	4.02	1.28	1.34	2.07	1.45		
July	2.48	3.96	1.14	3.02	1.00	5.50	2.27	2.63	5.25	2.89		
August	3.66	1.73	0.83	1.75	1.19	.61	1.13	4.49	4.06	1.15		
September	2.84	3.32	1.23	1.80	3.69	2.06	1.23	2.64	1.44	.92		
October	.51	3.11	2.20	1.58	3.47	1.54	3.00	2.74	5.56	3.09		
November	2.34	1.90	1.00	1.77	4.74	2.25	1.44	2.33	3.59	6.20		
December	.79	.61	0.30	5.62	3.15	2.38	1.99	2.70	1.17	1.55		
TOTALS	26.20	26.78	16.47	21.38	28.08	27.18	27.24	24.19	32.29	26.03		

Inspected 27/9/32. Tube off funnel & no bottle in gauge. Repaired 8/32.

" 15/5/33 Pipe broken off funnel, repaired 7/6/33

† , 19.10.28 Leak at junction of funnel & pipe

Original records taken in millimetres - monthly totals are conversion of mm sum of daily values. All values checked against sum of daily totals during preparation of archive dataset June 1978 and all found to be correct.

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

Station No. M.W.R. 2462

RAINFALL at Rugby (Leodegate)

41

County of WarwickshireObserver Headmaster, Rugby SchoolRiver Basin Severn: Upper Avon 1

Type of Gauge

Annual Average 25.6 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. B. of N.Original values in millimetres to 1948: Monthly totals here are Conventions
from sum of daily totals in mm.File No. E16087/57

Diameter	5"	W.M.R. No. <u>448526</u>									
Height	1' 0"	N.W.R. <u>59(42) 507749</u>									
Altitude	390'	All <u>117m</u>									
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.96	2.56	3.88	1.96	1.78	1.89	1.39				
February	2.11	.84	1.02	1.23	2.03	1.83	.93				
March	2.49	1.69	.72	.31	.76	.96	5.54	0.36			
April	1.27	.93	.78	2.30	.97	1.97	1.73	1.26			
May	2.02	3.56	2.78	.96	2.95	1.96	1.22	3.27			
June	1.78	.07	3.96	2.20	1.60	2.33	1.21	1.98			
July	3.96	1.73	.66	2.23	2.24	2.03	1.89		3.19		
August	3.80	2.68	1.56	2.97	2.90	4.41	(0.23)		2.48		
September	.37	.80	1.64	3.11	(1.41)	(5.50)	(3.29)	(1.41)			
October	2.11	3.37	1.34	2.45	3.67	.80	0.16				
November	2.59	1.86	1.45	3.75	.21	(5.12)	1.87		5.45		
December	1.14	2.48	.83	1.04	2.79	2.40	2.15				
TOTALS	26.60	22.57	20.62	24.31	24.10	(9.73)	Imp.	Inc. N.R. Inc.			
	D ✓	D ✓	D ✓	D ✓	23.40	(28.09)	Inc.	n.p. n.p.			

1945 September cont'd Sum of daily values from original Climat. records 1.41 ins including accumulation and partial estimation from Lawrence Sheriff Site 200m North June 1978

June 1945: amends by M.W.R. Section on Climat. returns

December 1945: Monthly total of daily values 68.3mm wrongly converted to 2.70 ins. should be 2.69 ins.

1946 September and November totals are for Lawrence Sheriff Site, 200m to north, 448545

1947 July and October sums from daily values on Climat. returns: Aug, Sept from Lawrence Sheriff

1948 March sum from Climat. returns

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

Station No. 2462 M.W.R.

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RAINFALL at Rugby (GALDECOTT)County of WARRICK SHIREObserver HEADMASTERRiver Basin SEVERN - UPPER Avon!

Type of Gauge.....

Annual Average 25.6 in. based on 35 years obs. un-weighted. Period of average 1881- 1915 Ref. B. & N.
File No. E 16087/53

Diameter ...	<u>5"</u>	<u>Hgol. Sta. No</u>	<u>448546</u>								
Height ...	<u>1'0"</u>	<u>N.R. : 80(42)</u>	<u>507749</u>								
Altitude ...	<u>390'</u>	<u>Set. 117m</u>									
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	<u>2.32</u>										
February ...		<u>.56</u>									
March		<u>1.96</u>	<u>.98</u>								
April			<u>1.30</u>								
May				<u>1.74</u>	<u>#</u>						
June											
July											
August ...	<u>6.58</u>										
September ...	<u>1.25</u>										
October ...											
November ...											
December ...	<u>1.65</u>										
TOTALS ...	inc. n.p.	inc. n.p.	inc. n.p.								

T. S. 54. No further return recd.

Position of Station on Ordnance One-Inch map : No. of Map National Grid Reference

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

Summary of Earlier Records from 10-year Sheets :

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