

(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 <del>3.85</del>	4.12 <del>4.06</del>	.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	
March .....	.68	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	
June .....	.98	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	<sup>3.00</sup> <del>(2.96)</del>	
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	<del>2.85</del>	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	<del>35.24</del>	23.90	<del>23.84</del>	25.05	26.15	26.05	21.03	23.15	<del>(27.72)</del> 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
February ...	.66	.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, &amp; 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	Direction
1920.	52° 22'	1° 15' W.	Rugby Club.	3 1/8 mi.	SW	Rugby	1/2 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)

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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 Conversions  
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 est'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