

700

RAINFALL AT Wrexham Pack saddle Recd.

Lat.  $53^{\circ} 1' 7'' N$  Lon.  $3^{\circ} 2' 5'' W$ . County of Denbigh  
 Rain Gauge, by Cassella Observer F. Storr

See - 1.

Diameter . . . . .										5	
Height . . . . .										9	
Altitude . . . . .										370 <sup>ft</sup>	
Year . . . . .	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January . . . . .						(3.04)	(1.06)	(5.45)	(2.82)	1.12	
February . . . . .						(1.45)	(2.99)	(2.25)	(1.32)	2.63	
March . . . . .						(1.02)	(4.29)	(2.48)	(1.56)	1.87	
April . . . . .						(.75)	(2.66)	(3.90)	#	1.70	3.65
May . . . . .						(2.11)	(.22)	(3.03)	5.63	1.75	
June . . . . .						(2.46)	(1.54)	(.78)	3.19	6.57	
July . . . . .						(4.16)	(1.76)	(3.34)	1.35	4.43	
August . . . . .						(2.66)	(4.63)	(5.20)	5.26	5.78	
September . . . . .						(6.25)	(4.77)	(.82)	2.09	2.48	
October . . . . .						(5.48)	(3.45)	(3.11)	4.77	1.25	
November . . . . .						(3.76)	(5.03)	(4.67)	3.82	1.15	
December . . . . .						(1.04)	(5.70)	(1.96)	3.17	1.37	
TOTALS . . . . .	(2670)	(2850)	(52.80)	(2670)	(29.50)	(3418)	(38.10)	(36.93)	31.18	30.98	34.05

1878 Hedge & a few trees about 100 yds distant

1879 Wrexham church  $2\frac{1}{2}$  miles N.E. of E

Gauge on Reservoir Bank.

Jan 1875 - Mar 78 roughly estimated by taking  $9\frac{1}{2}$  of the lower  
 an. total 1870-78 - computed from Plus Power  $\times \frac{9}{100}$ .

## RAINFALL AT Wrexham Pack Saddle Res.

Lat.  $53^{\circ} 1' 7''$  NLon.  $3^{\circ} 2' 5''$  W County of Denbigh

Rain Gauge, by

Observer T.W. Storer, Esq.

Dec - 1 -

Diameter .....	58										
Height .....	0.9										
Altitude .....	370 ft										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January .....	25	61	2.27	4.94	3.43	1.19	3.86	2.74	1.27	.78	2.134
February .....	2.07	3.82	2.06	2.94	3.89	3.10	.94	.73	1.24	2.37	2.316
March .....	1.48	3.22	2.02	1.63	3.26	1.02	2.12	1.74	1.70	2.50	2.069
April .....	2.12	1.11	3.93	.82	1.40	2.26	1.86	.93	1.17	5.13	2.073
May .....	2.49	2.80	1.59	1.83	1.10	2.41	9.08	2.51	.97	2.62	2.740
June .....	4.28	2.09	3.72	2.57	2.04	2.26	1.64	1.31	3.60	.70	2.421
July .....	7.08	1.72	4.18	2.09	3.26	.83	2.12	1.87	5.88	2.67	3.170
August .....	1.99	4.18	2.85	1.52	.94	1.82	1.06	1.97	3.03	3.38	2.274
September .....	2.77	1.73	1.58	4.03	1.80	3.37	1.99	2.70	1.02	2.28	2.827
October .....	6.26	3.45	3.82	3.17	1.26	7.58	5.12	4.04	1.89	4.04	4.063
November .....	3.32	3.81	5.06	3.69	2.51	2.99	2.24	1.79	6.12	2.13	3.366
December .....	5.72	3.07	3.80	1.55	2.61	1.39	5.59	2.65	2.78	2.42	3.158
TOTALS .....	39.83	31.61	30.88	30.78	27.50	30.22	37.62	24.98	30.67	31.02	32.111

1880. Wrexham

2½ miles

N.E. by E.

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RAINFALL AT Wrexham Park Saddle Reservoir

Lat. \_\_\_\_\_ Lon. \_\_\_\_\_ County of Denbigh  
 Rain Gauge, by \_\_\_\_\_ Observer F. Storn Esq.

Dec - 1.

Diameter .....	5										
Height .....	0 9										
Altitude .....	370 ft										
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January .....	5.36	1.75	2.46	1.58	2.66	3.89	.90	2.43	1.08	4.52	2.662
February .....	1.00	.06	1.86	4.20	1.86	.00	.82	2.24	2.86	2.73	1.763
March .....	1.46	1.95	1.24	.70	1.32	2.77	3.74	3.50	.87	1.45	1.900
April .....	1.46	2.47	1.21	.90	1.75	2.39	1.40	2.37	2.09	2.79	1.883
May .....	2.88	4.26	2.45	1.56	3.26	.66	.30	1.13	4.43	2.52	2.8451
June .....	2.43	5.39	2.50	1.66	2.12	2.94	2.74	3.32	1.61	3.02	2.772
July .....	2.20	2.76	2.92	3.25	2.98	4.01	1.88	.58	.77	1.97	2.332
August .....	3.90	4.73	2.77	2.53	3.04	1.90	1.44	3.09	3.81	.93	2.814
September .....	1.15	3.87	2.47	1.91	1.09	1.26	5.76	2.71	1.31	2.33	2.286
October .....	2.30	4.44	6.37	1.65	4.02	4.19	4.74	1.64	5.37	3.68	2.840
November .....	7.54	3.03	2.02	1.95	2.85	5.46	1.39	3.19	1.80	2.26	3.149
December .....	1.06	4.59	2.09	4.37	2.60	2.82	3.77	3.61	3.41	2.02	2.024
TOTALS .....	32.74	39.30	30.36	26.26	29.55	32.29	28.88	29.81	29.41	30.22	30.882

1889 —

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4290  
RAINFALL AT Wrexham Park Saddle Reservoir

Lat. .... Lon. .... County of Denbigh

Rain Gauge, by Observer F. Stour Eng. A.

Bee - I.

Diameter ..	5										
Height ....	0.9										
Altitude ..	370 ft										
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	3.34	3.19	1.70	4.17	3.50	1.19	4.49	1.42	2.23	2.41	3.764
February ..	4.31	1.07	1.73	2.64	3.64	1.44	2.92	1.74	2.07	1.53	2.309
March ..	1.33	3.33	1.47	6.58	1.69	3.71	1.63	2.04	4.17	2.53	2.848
April ..	2.13	2.48	2.28	1.93	1.23	2.60	.82	1.67	3.49	2.57	2.120
May ..	2.01	1.33	3.61	4.40	1.89	.80	2.50	2.97	3.13	1.10	2.374
June ..	1.51	2.29	1.60	1.41	1.11	2.11	.88	4.04	2.89	4.15	3.199
July ..	1.73	3.94	1.56	2.88	1.69	3.40	1.13	2.25	3.32	2.55	2.445
August ..	6.79	2.42	3.44	5.14	5.11	4.56	2.43	2.87	3.23	2.63	3.866
September ..	.56	.90	1.70	4.77	1.31	1.41	.99	1.01	5.04	2.95	2.064
October ..	4.21	3.20	4.53	9.03	1.49	2.17	6.30	6.75	2.69	4.81	4.468
November ..	3.23	3.55	2.30	2.84	1.95	3.61	3.16	2.92	2.63	.71	2.690
December ..	3.37	5.23	2.93	2.48	2.40	.84	4.29	2.93	2.59	5.80	3.286
TOTALS ..	34.52	32.93	28.85	48.27	27.01	27.84	31.54	32.61	37.48	33.24	33.429

H. G. /

## RAINFALL at Wrexham Pack Saddle Res.

County of Denbigh

Observer T. Horr. Esq. C.B.

River Basin

Dec 1

Rain Gauge, by

Diameter ...	5												
Height .....	0.9												
Altitude ...	370 ft												
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	SUMM.	1916 A.
January ...	2.46	.60	3.92	4.13	1.43	3.95	1.40	2.38	2.31	2.91	2539	900	
February ...	3.37	1.90	1.65	1.68	2.54	4.15	3.48	1.14	2.76	2.52	2619	990	
March .....	1.05	1.10	4.08	4.30	3.06	1.12	3.55	3.24	1.12	6.14	2876	1405	
April .....	2.48	.82	.61	4.69	1.03	1.40	2.19	2.06	2.22	2.85	2035	932	
May .....	2.12	.85	2.44	2.54	2.09	2.75	3.94	3.27	3.50	1.18	2468.	1189	
June .....	2.40	2.24	4.45	1.65	2.47	.91	2.03	2.05	1.98	1.68	2186	774	
July .....	3.19	.64	2.29	1.27	4.05	3.79	2.09	1.66	3.32	1.69	2397	874	
August .....	3.49	2.43	5.68	1.27	1.86	2.82	2.02	7.16	2.74	3.38	3285	1380	
September ..	.84	3.99	1.24	1.26	1.91	.43	2.81	1.07	7.19	2.33	2257	1366	
October ...	3.37	2.84	3.58	3.63	1.34	1.98	5.45	6.92	1.84	4.83	3478	1804	
November ...	6.29	3.90	2.68	2.70	4.25	4.30	4.28	3.76	2.34	2.10	3660	1346	
December ...	5.85	5.02	2.67	2.65	6.76	5.54	2.16	1.39	4.59	6.64	4327	1478	
TOTALS ...	36.41	26.33	35.29	31.77	32.79	33.04	35.38	35.10	35.91	38.25	34027	14047	

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.

## RAINFALL at Wrexham, (Pack Saddle Reservoir)

County of Denbigh

Observer F. Story Esq., C.E.

River Basin - see - /

J J Davies V.  
Wrexham & B. Denbigh Water Cty.

*Rain Gauge, by* \_\_\_\_\_

*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

RAINFALL at Wrexham w.w. (Pant Gaddle Reservoir.)

County of Denbigh

Observer J.A. Davies d-1940

River Basin. - Dee.

Observer J.A. Davies, d-1940

### Type of Gauge

The Secretary & Manager

*Type of Gauge*.....

Ref. Fig. 1b

677674/36

Diameter	5.										
Height	0.9										
Altitude	376		370.	370							
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	
										Meters Tatata	
January	3.12	3.50	2.86	2.62	1.92	4.83	3.92	4.74	6.37	2.92	3630
February	3.16	1.13	2.83	1.24	3.08	3.33	5.82	1.23	2.38	2.57	2477
March	.79	1.84	2.28	2.86	.87	2.51	2.26	.80	2.71	2.31	1929
April	3.62	4.65	6.91	3.21	3.23	2.43	3.04	2.9	2.59	3.56	2753
May	4.11	4.23	1.77	1.71	1.58	1.36	2.35	3.12	1.54	2.53	2430
June	4.88	.85	1.89	1.03	3.46	4.19	1.39	2.94	2.13	1.15	2391
July	1.98	5.60	1.03	1.81	.86	4.14	2.08	3.92	5.88	3.50	3430
August	6.76	2.13	1.16	3.38	1.48	.75	2.16	4.08	1.60	.43	2393
September	4.49	2.37	0.90	1.47	5.41	3.63	1.18	1.39	.86	1.76	2346
October	1.43	6.01	4.19	3.73	5.52	1.65	3.19	4.07	3.42	4.27	3748
November	6.38	2.55	1.69	1.82	5.74	3.86	1.92	4.63	5.84	7.19	41.61
December	1.68	1.54	0.85	6.00	4.63	4.74	2.95	4.01	2.32	2.95	3167
TOTALS	42.60	35.40	21.86	29.88	37.78	37.91	32.26	35.22	31.70	35.14	34555 KM.

1960 Jan. 1st for snow.

V

1

✓

✓

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*Position of Station on reduced Ordnance Survey Map,* { *No. of Map*..... *Reference No.*.....  
*1 mile to 1 inch Series*

Station No. T.F. 4290

## RAINFALL at Wrexham W.W. (Pucks Saddle Reservoir) ✓

41

County of Denbigh

Observer Tom Secretory &amp; Manager.

River Basin I-Dee

The Engineer (1944)

Type of Gauge .....

Annual Average 37.2 in. based on 35 years obs. un-weighted. Period of average 1881 - 1915 Ref. B.S. M

File No. 677874126

Diameter	5				546	042					
Height	0.9						1				
Altitude	370						41				
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means Total
January	4.93	4.18	5.95	3.49	2.45	3.56	3.08	8.48	2.76	1.29	10.17
February	3.60	1.68	2.31	1.50	2.38	5.39	3.25	2.62	1.46	6.10	29.80
March	2.47	2.44	1.35	0.91	0.91	1.03	8.13	1.18	2.17	1.92	23.09
April	1.18	2.36	1.72	0.98	1.59	0.86	3.90	2.36	3.78	4.20	22.90
May	3.74	3.86	3.58	1.77	2.59	2.74	3.30	1.33	2.22	1.30	26.45
June	1.14	0.19	3.16	1.73	2.55	2.55	2.42	4.51	0.56	0.96	19.77
July	1.78	2.61	2.04	1.63	2.22	1.78	3.85	2.43	3.63	2.38	26.35
August	3.32	3.64	1.94	2.13	1.93	4.79	0.42	4.10	1.70	1.34	28.31
September	0.49	1.88	3.84	3.87	1.82	3.67	1.80	1.32	0.95	1.81	24.45
October	3.10	1.62	3.59	4.88	4.92	2.06	0.61	1.68	5.43	2.65	30.54
November	3.35	1.03	3.08	5.12	0.58	5.94	3.91	2.26	4.37	4.56	34.20
December	1.73	4.21	1.94	2.44	3.92	3.76	2.37	4.87	3.33	2.72	30.71
TOTALS	31.83	29.70	34.50	30.45	27.86	38.13	37.04	36.60	32.35	37.28	234.61

B

10

Position of Station on reduced Ordnance Survey Map, } No. of Map.....  
1 mile to 1 inch Series

Reference No.....

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

Station No. 4290 TF 58

## RAINFALL at Wrexham W.D. (Pack Saddle Res.)

51

County of Derbyshire

Observer Engineer

River Basin

1 - Dee

Type of Gauge Mk 1.4 (semi-inspection)

Annual Average 32.0 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. B. J. N.  
34.91 - - - - - 1916-1950 1916-1950  
File No. 67874/26

Diameter	5"			546	042							
Height	0' 9"					1	1' 0"					
Altitude	370'					51	ft					
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	Total
January	2.54	5.31	1.10	2.84	2.36	4.72	1.97	3.77	4.45	6.54	35.60	
February	3.50	1.19	1.62	3.23	2.63	0.49	3.32	5.85	0.47	4.15	26.35	
March	5.90	0.68	0.92	2.87	2.68	1.86	1.72	1.50	2.04	2.07	22.24	
April	2.02	2.01	2.56	.69	1.10	1.98	0.22	0.62	5.41	1.48	18.09	
May	3.38	2.78	2.37	2.82	4.06	0.54	1.87	2.41	1.98	2.02	24.23	
June	1.05	1.63	2.01	3.72	3.68	1.75	1.36	4.18	2.07	1.51	22.96	
July	1.97	2.13	2.75	2.43	0.21	3.89	4.41	4.14	2.26	2.17	26.44	
August	2.91	2.59	2.59	3.38	0.94	5.71	4.33	4.09	0.80	3.76	31.10	
September	2.67	3.17	3.69	3.13	2.11	3.31	8.49	4.28	0.14	4.73	35.72	
October	1.26	6.86	1.74	5.42	2.19	2.32	2.44	3.02	2.79	5.88	33.92	
November	6.86	2.74	3.04	7.81	2.63	1.44	2.22	2.22	1.29	6.66	39.91	
December	5.16	4.53	1.37	3.16	4.39	4.16	1.79	3.56	6.08	3.39	37.59	
TOTALS	39.24	35.62	25.76	41.60	28.94	32.17	34.14	39.64	32.78	44.36	354.15	10
	D	D	D	D	D	D	D	D	D	D		

1952 Eng. confirms gauge sound, no change in gauge, measure or site for many years.  
 Inspected 10.10.58. Gauge sound, found lower and tilted E. Unorthodox site on top of covered service reservoir; reservoir about 100' diameter. Protected by trees, houses around reservoir. Recommended gauge to be fixed firmly.

Sept 1957. G. tested & found sound. Ht of rain lowered from 1'3" to 1'1".

Position of Station on Ordnance One-Inch map : No. of Map. 109 National Grid Reference S.T. 305678

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

Summary of Earlier Records from 10-year Sheets :

1916-1950, P - accepted

Record D, or d		1910-19	1920-30	1931-40	1941-50	1951-60
		-	1920-24 1925-27 1928 1929-30	D	D	