

Rainfall at Townley, N. Bunbury

E-G-

Observer - Richard Townley Esq.

Authority Phil. Trans: Vol 10 p 51

Gauge. 12 inches diameter

YEAR - -								1677	1678	1679	MEANS.
January - -								4.74	3.73	.43	
February - -								2.71	3.73	1.62	
March - - -								2.46	2.51	2.03	
April - - -								3.27	1.71	.92	
May - - - -								3.15	5.03	1.06	
June - - - -								5.19	2.50	2.99	
July - - - -								3.53	3.41	3.52	
August - - -								4.07	1.46	0.39	
September -								2.24	5.29	5.57	
October - -								3.34	6.47	6.19	
November -								4.34	5.50	1.20	
December -								4.02	.57	4.41	
TOTALS -								43.06	42.07	30.41	

The record for this station, and also that for Westminster, was made by observing the number of 5ths of water which fell through a 12 in. funnel. The observers considered that each 5th equalled 1 inch, and therefore they regarded each 5th as 0.10. They sometimes mentioned that the strict equivalent was 0.1005, but they did not always apply the correction, and it should really be still smaller. Subsequently they stated the rainfall in inches only; and here is no means of ascertaining whether the correction was applied or not. On this account, and in consequence of its smallness, the correction has been ^{omitted} throughout. in

the figures given above.

p2
9143

(see over)

LINT.O.B. RAINMASTER
RETROSPECTIVE SITE REVIEW

HYD. SIN. NUMBER 574261

SD (34) 854309

465 142

21-7-78

Rainfall at Townley Hall.

E-H

Observer Richard Townley Esq.

Authority Phil. Trans.

YEAR --	1680	1681	1682	1683	1684	1685	1686			1689	MEANS.
January --	5.14	.53	9.91	2.39	.32	1.10	4.74			3.35	
February --	4.94	3.65	1.36	2.46	4.85	.42	.21			3.95	
March ---	4.15	2.36	2.38	3.07	.87	1.86	5.75			8.79	
April ---	2.23	.57	3.10	4.04	3.72	3.82	3.07			4.71	
May ----	1.09	.69	3.17	3.55	.97	2.02	4.39			1.03	
June ----	3.43	3.99	5.19	4.78	1.93	4.12	4.75			3.03	
July ----	3.04	2.92	4.84	4.14	3.15	4.99	1.89			1.21	
August --	5.05	4.27	3.07	5.85	3.40	4.00	8.74			2.23	
September -	1.47	6.10	2.94	1.52	2.00	1.64	5.74			4.44	
October --	5.73	1.72	4.29	3.31	4.27	3.27	2.94			7.43	
November -	4.81	2.37	5.28	1.93	5.82	5.25	7.13			4.17	
December -	2.62	4.25	4.59	.37	3.01	5.50	1.33			3.70	
TOTALS -	44.50	33.42	50.92	37.33	34.31	37.99	50.68			48.84	

In a letter to Dr. Croon dated July 9th 169th Mr. Townley stated that the records for ¹⁶1587-88 were untrustworthy through his frequent absence from home.

Note

The construction and siting of the rain gauge have been described by Townley in Phil. Trans. Vol 18, pp 57 etc. Prof G Manly, who has visited Townley Hall, says it is a battlemented grange with a flatish roof, and that a gauge exposed in the way Townley described would be above the roof level, with a pipe descending about 20 feet to one of the ground floor windows. He does not think the catch was much affected by wind.

J.M. Craddock 13/3/75

MET. O. S. D. 1880
RETROSPECTIVE

574261

HOR: 3D(34) 854309

1922 465 ft 142 notes. Date of review 21-7-78.

RAINFALL AT

Hall
Townley, Lancashire

Ann. Phil. Trans. Vol. XVIII, p. 37-8

Observed

R. Townley, Esq.

Rain

By

Gauge

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Diameter.....in.

Height above Ground.....ft.....in.

Above Mean Sea Level.....ft.

YEAR.....	1680	1681	1682	1683	1684	1685	1686	1687	1688	1689	MEANS.
January.....	5.12	53	9.86	2.38	32	1.10	4.72			3.33	
February.....	4.02	3.63	1.35	2.45	4.83	42	20			3.93	
March.....	4.13	2.35	2.37	3.05	87	1.85	5.72			8.75	
April.....	2.22	37	3.08	4.02	3.70	3.80	3.05			4.68	
May.....	1.88	69	3.15	3.53	97	2.01	4.37			1.82	
June.....	3.42	3.97	5.17	4.88	1.92	4.10	4.73			3.02	
July.....	3.02	2.92	4.82	4.12	3.13	4.97	1.88			1.20	
August.....	5.02	4.25	3.85	5.82	3.38	3.98	8.70			2.22	
September.....	1.46	6.07	2.93	1.52	1.99	1.63	5.72			4.42	
October.....	5.70	1.70	4.27	3.30	4.25	3.25	2.93			7.40	
November.....	4.79	2.35	5.25	1.92	5.79	5.22	7.09			4.15	
December.....	2.69	4.23	4.56	37	2.99	5.48	1.32			3.68	
TOTALS	44.37	33.26	50.66	37.16	34.14	37.81	50.43	-	-	48.60	

44.50 33.42 50.92 37.33 34.31 37.99 50.68

48.84

1689. End in Phil. Trans. is 44.28

MET. O. A. and P. S. R.
RETROS. 1878

574261

NOV. 50 (34) 854309

NOV. 465 ft = 142 metres. Date of rain 21-7-78

574261
487

E-S

Rainfall at Townley Hall

Observer Richard Townley Esq^r

YEAR --	1690	1691	1692	1693	1694	1695	1696	1697	1698	1699	MEANS.
January --	7.10	1.98	.54	2.19				1.03	1.30	3.60	
February --	1.72	1.13	1.69	.78				1.44	1.18	6.57	
March --	1.46	4.78	3.45	3.99				.99	4.05	3.60	
April --	.70	3.86	5.00	5.42				.83	4.22	2.10	
May --	2.45	3.01	3.32	.93				2.39	1.80	.80	
June --	1.80	4.14	4.18	1.03				1.79	1.30	2.08	
July --	2.19	2.86	4.50	1.13				2.71	2.08	3.32	
August --	4.04	1.94	2.00	6.71				8.09	4.32	3.97	
September --	4.05	2.16	6.08	6.44				9.43	4.38	3.33	
October --	7.60	1.66	2.74	5.17				5.55	4.47	3.80	
November --	7.19	2.31	1.49	6.30				2.15	4.97	2.95	
December --	2.64	1.70	8.96	2.62				4.92	4.10	3.37	
TOTALS --	43.10	31.53	43.93	42.50				41.32	38.17	39.49	25004 9201
	C	C	C	C				C	C	C	

MET. O. B. RAIN. G. G.
RETROSPECTIVE.

574261

WIND: SD(34) 854309

WIND: 465 ft = 142 metres. Date of writing, 21-7-78

RAINFALL AT

Towndley Hall
M. Bowley

Observer

Richard Towndley

Phil. Trans. vol. XVIII. p. 58

Phil. Trans. vol. XXI. p. 47

Rain

By

Gauge

Diameter 12 in.

Height above Ground, 20 ft.

Above Mean Sea Level ft.

Phil. Trans. vol. XXII. p. 135

YEAR.....	1890	1891	1892	1893				1897	1898		MEANS.
January.....	7.07	1.97	.54	2.18				102.6	129.4		
February.....	1.71	1.12	1.98	.78				143.4	117.6		
March.....	1.45	4.76	5.42	2.98				0.986	4.032		
April.....	.78	3.86	4.98	5.39				8.824	4.190		
May.....	2.44	3.00	3.30	.93				23.76	17.90		
June.....	1.79	4.12	4.16	1.81				1.784	12.90		
July.....	2.18	2.85	4.48	1.12				27.00	2.074		
August.....	4.02	1.93	1.98	6.68				8.050	4.300		
September.....	4.03	2.15	6.05	6.41				9.380	4.358		
October.....	7.65	1.65	2.73	5.14				5.520	4.452		
November.....	7.17	2.30	1.48	6.27				2.144	4.944		
December.....	2.62	1.69	8.92	2.61				4.900	4.084		
TOTALS	42.91	31.40	43.72	42.30				41.124	37.984		

43.10 31.53 43.93 42.50

* 41.32 38.17

* Phil. Trans. gives the total as 41.040, but the addition there is wrong.

See remarks on site of Towndley's gauge. Phil. Trans. vol. LXVII. p. 255

MET. O.D. RAIN GAUGE
RETROSPECTIVE

574261

NGR: SD(34) 854309

ALT: 465 ft = 142 metres. Date of review 21-7-78

Rainfall at Townley Hall

E. J.

Observer Richard Townley Esq.

YEAR - -	1700	1701	1702	1703	1704	1705	1706	1707	1708	1709	MEANS.
January - -	4.19	4.50	4.24	3.05	6.28						
February - -	3.84	3.37	4.28	3.19	1.19						
March - - -	1.52	1.43	1.50	4.01	4.14						
April - - -	3.75	1.23	1.07	3.54							
May - - - -	3.60	3.95	1.77	3.55							
June - - - -	2.64	2.28	4.62	4.84							
July - - - -	3.07	3.53	5.09	1.73							
August - - -	2.42	4.76	4.04	2.86							
September -	4.73	4.28	4.62	6.51							
October - - -	5.31	4.94	5.74	1.42							
November - -	2.75	5.15	7.46	5.74							
December - -	5.40	2.05	8.37	2.06							
TOTALS -	43.22	41.47	51.80	41.50	77.99 44.48						

1704 12-22

MET. O. S. RA. 1700-1709
RETROSPECTIVE. RA.

574261

NO. 52(34) 854309

H.A. 465 ft = 142 metres. Date of review 21-7-78