

Hall

## Rainfall at Townley N. Burying

E-G-

Observer - Richard Townley Esq.

Authority Phil. Trans: Vol 18 p 51

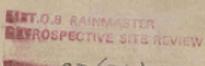
Gauge. 12 inches diameter

YEAR --					1877	1878	1879	MEANS.
January - -					4.74	3.73	.43	
February - -					2.71	3.73	1.62	
March - - -					2.46	2.51	2.05	
April - - -					3.27	1.71	.92	
May - - -					3.15	5.03	1.06	
June - - -					5.19	2.58	2.99	
July - - -					3.53	3.41	3.52	
August - - -					4.07	1.46	8.39	
September -					2.24	5.29	5.57	
October - -					3.34	6.47	6.19	
November -					4.34	5.58	1.80	
December -					4.02	.57	4.41	
TOTALS -					43.86	48.87	38.41	

The record for this station, and also for that for Uppermill, was made by showing the number of  $\frac{1}{10}$ s of water which fell through a 12 inch gauge. The observers considered that each  $\frac{1}{10}$  equalled inch, and therefore they regarded each  $\frac{1}{10}$  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. In any account, and in consequence of its smoothness, the correction has been omitted throughout, in the figures given above.

9143

(See over)



HYD. STN. NUMBER 574261

SD (34) 854309

465 142

21-7-78

## Rainfall at Townley Hall.

E-44

Observer Richard Townley, Esq.

Authority Phil. Trans.

YEAR --	1680	1681	1682	1683	1684	1685	1686	1687	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	8.36	2.38	3.07	.87	1.86	5.75		8.79
April --	3.23	.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	4.04	4.14	3.15	4.99	1.09		1.21
August --	5.05	4.27	3.07	5.85	3.40	4.00	8.74		3.83
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	4.87	3.87	2.94		7.43
November -	4.81	2.37	5.28	1.93	5.82	5.25	7.15		4.17
December -	2.62	4.25	4.59	.37	3.01	5.50	1.53		3.70
TOTALS -	46.50	33.42	50.92	37.33	34.31	37.99	50.68		48.84

In a letter to Dr. Croon dated July 9<sup>th</sup> 169<sup>3</sup>/<sub>4</sub> Mr. Townley stated  
 that the records for 1687-88 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 Manley, who has visited Townley Hall, says it is a battlemented grange with a flattish roof, and that a gauge exposed in the way Townley described would be above the roof level, with a slope 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. OBS. IN THE MUSEUM  
RETROSPECTIVE

574261

SD(34) 854309

465 11 142 217-78

~~Q.W.P.~~

RAINFALL AT ~~Torrelby, Lancashire~~  
HALL  
*From Publ. Trans. Vol. xviii, p. 57-8*

Observer P. T. Farley, Esq.

Rein { By .....  
Gauge } Diameter, 12, in. Height above Ground, ..... ft. ..... in. Above Mean Sea Level ..... ft.

YEAR.....	1680	1681	1682	1683	1684	1685	1686	1687	1688	1689	MEANS.
January.....	512	53	9.86	2.38	.32	1.10	4.72				3.33
February.....	4.92	3.63	1.35	2.45	4.83	4.2	2.20				3.93
March.....	4.13	2.35	2.37	3.05	.87	1.85	5.72				8.75
April.....	2.22	57	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	4.68	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.....	5.82	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.....	3.69	4.23	4.56	.87	2.99	5.48	1.32				3.68
TOTALS ....	144.37	33.26	50.66	37.16	34.74	37.81	50.43	-	-	48.60	

144.50 33.42 50.92 37.33 34.31 37.99 50.68 48.84

1680. *Final Publ. Trans. is 44.28*

MET. O. G. W. R. R.  
RETROSPECTIVE

574261

MEAN: SD (34) 854.309

SD 465 IT = 142 METRES. DATE OF REVIEW 21-7-78

574261  
✓87

## Rainfall at Townley Hall

E. S

Observer - Richard Townley Esq.

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	4.70	3.45	2.99				.99	4.05	3.60	
April - - -	.78	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	1.83				1.79	1.30	2.08	
July - - - -	2.19	2.06	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 -	48.10	31.53	45.98	42.50				41.32	38.17	39.49	25004 4200

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MET. B. RAINFALL  
RETROSPECTIVE

574261

Mean SD(34) 854309

Max 465 ft = 142 metres. Date of max. 21-7-78

RAINFALL AT TROWDLEY,<sup>Hall</sup> ST. BURNLEY

Observer Richard Trowdley

Phil Trans. Vol. XXVIII. p. 58

Phil Trans. Vol. LXVII. p. 67

Rain { By .....  
Gauge { Diameter 12 in. Height above Ground, 10 ft. .... in. Above Mean Sea Level ..... ft.  
Metron. Ad. 1800, p. 155. C

YEAR.....	1690	1691	1692	1693		1697	1698	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	3.42	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		2.376	1.790	
June.....	1.79	4.12	4.16	1.81		1.784	1.290	
July.....	2.18	2.85	4.48	1.12		2.700	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	5.44		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		41.724	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 side of Trowdley's gauge. Phil. Trans. Vol. LXVII. p. 255

MET. O. O. RAIN &  
RETROSPECTIVE

574261

NBR: SD(34) 854309

ALT: 465 H = 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	.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	7799 44.40						

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1704 12-22

MET.O.B RAINFALL  
RETROSPECTIVE

574261

NBB: SD(34) 854309

REB: 465 It = 142 metres. Date of review 21-7-78