RAINFALL AT Highgate Hill ("almost at the top", see Vol. XXXIII. p. 596)

From the Monthly Magazine for 1810. Vol XXIX. pp. 103. 199. 307. 407. 519. 620.
" " XXX. " 99. 199. 295. 390. 489. 594
1811 " XXXI. " 103. 200. 308. 400. 509. 604
1812 " XXXII " 102. 204. 310. 415. 522. 626
(See Vol XXXVII p. 229) " XXXIII. " 96. 205. 309. 404. 509. 536
1813 " XXXIV " 96. 191. 286. 382. 478. 574
(D° D°) " XXXV " 98. 191. 287. 383. 480. 576
" XXXVI " 96. 192. 288. 384. 480. 575
1814 XXXVII 96. 196. 242. 353. 457. 552
" XXXVIII 72. 174. 275. 368. 464. 560
1815 XXXIX 67. 172. 258. 359. 451. 537
" XL 69. 168. 263. [illegible] [illegible]. 541
1816 XLI 70. 168. 265. [illegible] 458. 555

Observer T. Joy (see Vol. XXVII p. 32) ~~T. Joy~~
Vide " XXXVII. p. 231

Rain Gauge { By .... / .... / Diameter 10 in. Height above Ground, 6 ft. .... in. (see Vol. XXXIII. p. 596) Above Mean Sea Level .... ft.

YEAR	1810	1811	1812	1813	1814	1815	1816				MEANS.
(24th to 24th of each month)											
January			1·48		excessive snow, but unmeasurable		1.75				
February	2·50	5·70	5·60	3.30	snow not measured	3.25	1.00 snow				
March	1·90		2·94	1.05	1.00	3.50	2.25				
		1·95									
April	2·05			1.50	2.50	1.50	1.95				
May		5·50	4·67	4.30	2.00	1.25	1.45				
June	6·05	1.25	2·25	1.50	5.50	3.50	(crossed out)				
July		5·00		4.00	1.25	1.25					
August	6·57	1·75	3·29		1.00	2.00					
September	2·00	1·05		3.75		2.85					
October	2·00	3·25	6·54	5.25	7.50						
November	9·05	5·75	3·00		4.25	2.00					
December	4·33	3·75	·52	3·00	4.50	1.50					
TOTALS	36·45 *	34·95 ⊖	30·29 +	27·65	29·50	22·60					

+ The records of this year are taken from Vol. XXXVII. p. 229. But they differ greatly in Vols XXXIII & XXXIV.

* On p. 25 of Vol. XXXI, where a summary of the year's rain is given, the total is stated to be 34.40, instead of 36.45; the error is occasioned by the omission of Sept. fall of 2.00: In Vol XXXVII. p 230, the total is given as 34.14.

⊖ The quantities in this year differ from the summary given on p. 4. Vol. XXXIII by the same observer: e.g. On p. 522 Vol. XXXII, Nov. rain is said to have been 5 3/4 inches [5.75]; but on p. 4, Vol. XXXIII, it is given as 5.25. So also, on p. 626, Vol. XXXII, Dec. rain is said to have been 3 3/4 inches [3.75]; but on p. 4. Vol. XXXIII, it is given as 3.30. Other minor differences and the above make the total to be 34.14, instead of 34.95. See also Vol. XXXVII. p. 230, where the total is 34.14.

The following letter from Mr J. Dalton of Albury, Guildford appears in Vol XXXIII. p. 409: Apl 20th 1812.
"Sir, The quantity of rain which your meteorological correspondent mentions as having fallen since Nov. [1811] is so
"much ~~more~~ beyond what the Royal Society papers have given for any eight months of former years, that I am desirous
"of knowing what gauge he makes use of, and from what circumstance the difference arises between his calculation
"and that of the Royal Society, in which there is very considerable difference in the same years. 1803, 4, 5, &c. have been
"compared, and the quantity of rain has always exceeded, in your correspondent's report what has been published as
"the observations of the Royal Society. J. Dalton."

For answers to this letter, see over

Reply to the foregoing letter.

"The rain-gauge made use of by the author of this Report, is described in the XIth Vol. "of the Monthly Magazine, p. 25-6; * it is fixed about six feet from the ground, almost at the "top of Highgate Hill. The observer is not aware of any inaccuracy in his computations."

Vol. XXXVIII. p. 396.

* The rain-gauge is thus described:— "The principal part is only a tin funnel, painted "to preserve it from oxydation [sic], the area of the top is ten inches, and the section of the "conical part is an equilateral triangle, the tube nearly cylindrical, and about six inches long, "and two-tenths of an inch in diameter; this funnel is passed through the middle of a cork "fitted to a common quart bottle, the weight of which without the funnel is thirteen when empty; "it is then placed in a deal box to defend it from the heat of the sun, leaving nothing but "a very small part of the neck of the bottle and the funnel above the box; and once a week "(or months, if more convenient) take out the cork, and weigh the bottle, and for every seven-pennie "ounce of increase of weight allow 1/3 inches of depth for the rain, or 15 : 20 :: 07 of increase: "inches depth nearly." J. Bevan, Leighton, Jan 20th 1801.

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(Y13)

RAINFALL AT Highgate Hill, ("almost at the top." see Vol. XXXIII, p. 596.

from the Monthly Magazine Vol XXVI p.p. 505. 615
Vol XXVII. p.p. 111. 219. 319. 423, 532. 645.
Vol XXVIII. p.p. 123. 243. 347. 447. 532. 652.

Observer J. T. (see Vol. XXVII. p. 32)

Rain Gauge { By..................
....
Diameter..........in. Height above Ground, 6 ft..........in. Above Mean Sea Level..........ft.
see Vol. XXXIII. p. 596.

YEAR........									1808	1809	MEANS.
January........										4·20	
February.......										5·54	
March..........										(March–April together)	
April...........										5·32	
May............										2·60	
June...........										(June–July together)	
July...........										7·60	
August.........										8·50	
September......										4·00	
October........									*	(October–November together)	
November......									4·52	4·33	
December......									2·05	6·05	
TOTALS									–	48·14 *	

* The totals, as given in the summary (Vol. XXIX p. 5, Vol. XXXVII. p. 250) amount to 47·875

MET.O.8 RAINMASTER RETROSPECTIVE SITE REVIEW 246170

NGR: TQ (51) 283874

400 ft = 122 metres. Date of review 3-7-78.