

Gulf of the Prostate. O. The Gulf of the Prostate. P. P. P. Sort of Elbows, or blind Cavities, found therein. Q. The Streights of the Entry into the Bladder.

VI. *A Letter from George Lynn, Esq; to Ja. Jurin, M. D. F. R. S. containing some Remarks on the Weather, and accompanying Three Synoptical Tables of Meteorological Observations for 14 Years, viz. from 1726 to 1739. both inclusive.*

SIR,

HAVING, for these 14 Years last past, kept a constant Register or Diary of the Altitudes of the Barometer and Thermometer, the Quantity of Rain, Course of the Winds, &c. according to your Invitation (in the *Philosophical Transactions*;) the Five first Years of which have been by you communicated to the ROYAL SOCIETY, and taken notice of in the *Transactions*; I now, Sir, send you the remaining Nine Years at large, ending *December 1739.* in the same Method as formerly. But, believing it would be of good Use, both here and abroad, if the Mean Heights of the Barometer, Thermometer, and Quantity of Rain in every Month of the whole 14 Years, with the collateral Means, both of the Months and Years, were brought all into one View together, I have taken the Pains to range them accordingly in a Scheme, or Table, herewith sent, which does not
take

take up much above the Space of half a Sheet of Paper, and may be within Compass for inserting in the *Transactions*, either in a Plate, or otherways, as shall be thought proper. The Meaning of the several Columns in that Scheme is, in a great measure, explained by the Titles of them; and by the lowest Line you will find, that the Mean Height of the

Inches.

Barometer for the whole 14 Years is 29.58; the Mean Quantity of Rain annually, 23 Inches; and the Mean Altitude of the Thermometer $\left\{ \begin{smallmatrix} 56 \\ 48 \\ 52 \end{smallmatrix} \right\}$ that is, at the coldest time of the Day 56, at the hottest 48, and their Mean 52. In the middle Column, *viz.* that of Rain, the *Commas*, *Semicolons*, and *Colons*, over the Figures, denote, by their manner of placing, from the Left to the Right, what Time in the Month the Rain fell, whether at the Beginning, Middle or latter End; the *Comma* [,] denotes a small Quantity, the *Semicolon* [;] a middling Quantity, and the *Colon* [:] a large Quantity; shewing the different Proportion that fell at those Parts of the Months. The Thermometer made use of all along, is that of Mr. *Hauksby*, and kept constantly in the same Place, as mentioned by Mr. *Geo. Hadley* in the *Transactions*, N^o 447. And the Altitudes of the Thermometer are taken but twice a Day, *viz.* at the coldest, which is at Sun-rise, or sometimes a little after; and at the hottest, *viz.* between Two and Four in the Afternoon: By which Method are gained the proportional Heats for every Month in the Year, and their Difference, as also between that of Day and Night, for 13 Years together; not reckoning in the Year 1726. which may be seen

by the Scheme to be in another Method, and not filled up.

Great Care has been taken, in casting up and dividing, to get the exact Mediums and Sums; and I was not a little surpris'd to find, in casting up the Column of the Mean Altitudes of the Thermometer collaterally, that as those for *July*, being the hottest Month, are $\left[\begin{array}{l} 41\frac{13}{2} \\ 35\frac{1}{2} \end{array} \right]$ so the Altitudes of *June* and *August*, on each Side of it, come out exactly equal to one another, and also those of *May* and *September*; these last only differing in their Morning and Evening Heats or Altitudes, which does not alter their Medium of $44\frac{1}{2}$. Many other Observations may be made, both from the Scheme and Diaries at large, which, no doubt, will be taken notice of: But, having had ill Health of late, I am not able now to collect them, nor to form a Summary of the Winds, which I designed to have added some way or other in the same Scheme. As for any Judgment about the Weather, &c. it will be much better had from those who have the Perusal and Comparifon of the many Meteorological Accounts sent to the ROYAL SOCIETY: I shall therefore only give a few cursory Notes of my own, as I find them, and so conclude this Letter.

When there is an Haziness in the Air, so that the Sun's Light quails by Degrees, and his Limb is ill defined, it is a pretty certain Sign of Rain, especially if the *Mercury* falls. The like Haziness, at Night, is still more a Sign of it.

It is observable, that though the *Mercury*, in the Summer Months, does not so much vary in its Altitude as at other times of the Year, yet in that Season

son we have the most Rain: It should seem therefore, that the different Warmths (and consequently Rarefaction of Vapours) in the upper and lower Currents of the Air, and those Currents mixing, and sometimes wholly interchanging, are then the more immediate Causes of the Rains, if not also of Thunder and Lightning.

Black fleecy Clouds, formed upon a sudden Flurry of the Wind, are generally succeeded by a Shower: And,

The shifting of the Wind in a little time almost round the Compass, in hot Weather, is often succeeded by a Thunder-shower.

Several times; when the *Mercury* has been a good while high, and so continues, there has fallen mistling Rain; especially about the New and Full Moon, with an Easterly Breeze, which the Borderers on the Coast of *Lincolnshire* and *Norfolk* call *Tide-weather*, and may be occasioned by the Vapours arising from the Tides, which then cover a vast Wash of Sands in their Neighbourhood.

Those Vapours sometimes reach us here in *Northamptonshire*, but I believe seldom further West.

The Nights are for the most part calmer than the Days; and the Winds seldom settled in their Quarter, or at their Strength, till some Hours after Sunrise, and generally die away again before Sun-set.

I shall add no more, but that I am,

Southwick,
April 21. 1740.

N. Lat. 52°—31'.

Yours and the SOCIETY'S
most Obedient,
Humble Servant,

George Lynn.

Syn.

Synoptical Tables of the Meteorological Observations made by George Lynn, Esq; at Southwick, near Oundle in Northamptonshire, for the Years from 1726 to 1739. inclusively.

The Barometer's Mean Altitude (above 29 Inches) in 100 Parts of an Inch,
In the Years

	1726	1727	1728	1729	1730	1731	1732
<i>January</i>		.36	.28	.70	.79	.61	.54
<i>February</i>		.51	.86	.66	.39	.57	.65
<i>March</i>		.66	.48	.54	.34	.92	.57
<i>April</i>	.75	.72	.48	.60	.66	.51	.52
<i>May</i>	.74	.49	.64	.57	.55	.72	.50
<i>June</i>	.63	.58	.68	.69	.60	.66	.71
<i>July</i>	.68	.65	.64	.64	.61	.72	.65
<i>August</i>	.45	.77	.64	.72	.70	.65	.70
<i>September</i>	.44	.50	.59	.42	.34	.70	.63
<i>October</i>	.77	.44	.38	.52	.49	.67	.68
<i>Novemb.</i>	.74	.84	.53	.32	.55	.54	.75
<i>Decemb.</i>	.50	.33	.51	.52	.83	.61	.47
The Mean Altitudes in the several Years,		.57	.56	.57 $\frac{1}{2}$.57	.66	.61

The Barometer's Mean Altitude (above 29 Inches) in 100 Parts of an Inch, In the Years							The Mean Altitudes collate- dally.	
1733	1734	1735	1736	1737	1738	1739		
<i>January</i>	.68	.80	.47	.26	.86	.70	.45	.58
<i>February</i>	.55	.60	.63	.22	.58	.61	.60	.55
<i>March</i>	.43	.52	.36	.44	.45	.46	.48	.51
<i>April</i>	.65	.69	.49	.70	.67	.53	.34	.52
<i>May</i>	.70	.54	.60	.58	.70	.52	.60	.60
<i>June</i>	.67	.65	.56	.76	.73	.50	.56	.64
<i>July</i>	.67	.63	.50	.67	.59	.72	.67	.65
<i>August</i>	.56	.57	.72	.63	.55	.60	.61	.63
<i>September</i>	.62	.56	.69	.71	.46	.65	.49	.56
<i>October</i>	.72	.47	.69	.33	.60	.52	.71	.57
<i>Novemb.</i>	.75	.74	.45	.64	.68	.67	.32	.61
<i>Decemb.</i>	.53	.22	.59	.53	.70	.58	.65	.54
The Mean Altitudes in the several Years.	.63	.58	.56	.54	.63	.59	.54	.58

The Quantity of Rain in Inches and Decimals for every Month, In the Years

	1726	1727	1728	1729	1730	1731	1732
<i>January</i>	4.2	3.1	4.0	0.2	0.4	0.8	3.9
<i>February</i>	1.0	2.6	0.9	0.5	1.5	1.0	1.2
<i>March</i>	1.5	1.4	3.3	1.3	2.6	0.1 $\frac{1}{2}$	1.4
<i>April</i>	1.0	1.2	2.0	1.1	0.8	2.1	1.2
<i>May</i>	0.4	4.3	1.4	1.6	2.5	0.3	3.4
<i>June</i>	4.0	3.2	2.8	0.8	3.4	3.4	0.6
<i>July</i>	3.7	2.0	3.2	2.3	2.0	1.7	1.8
<i>August</i>	0.3	0.3	1.0	2.4	0.8 $\frac{1}{2}$	1.6	1.7
<i>September</i>	5.2	2.0	0.8 $\frac{1}{2}$	5.3	1.6	1.5	0.7
<i>October</i>	1.5	1.5	2.8	2.2	3.0	1.4	3.7
<i>Novemb.</i>	1.4	0.4	1.5	4.2	2.0	1.5	1.2
<i>Decemb.</i>	2.5	2.8	2.4	1.7	0.8	2.3	2.6
The Mean Quantity of Rain in the several Years.	26. $\frac{1}{2}$	25.	26.	23 $\frac{1}{2}$	21.	17. $\frac{1}{2}$	20. $\frac{1}{2}$

The Quantity of Rain in Inches and Decimals for every Month, In the Years

	1733	1734	1735	1736	1737	1738	1739	The Mean Quantity collaterally.
<i>January</i>	1.0	0.5	2.1	2.3	1.0	1.7	2.4	1.8
<i>February</i>	1.4	2.6	0.7	2.9	2.2	0.8	3.1	1.6
<i>March</i>	2.2	1.8	2.2	2.1	2.1	1.0	1.3	1.7
<i>April</i>	1.0	0.6	1.7	0.6	0.4	1.3	2.2	1.2
<i>May</i>	0.02	5.1	1.5	0.8	1.7	1.9	1.9	1.9
<i>June</i>	2.0	1.3	2.4	1.4	1.8	3.4	1.5	2.3
<i>July</i>	2.2	1.8	2.3	6.0	0.7	1.2	1.7	2.3
<i>August</i>	3.6	4.0	3.2	1.7	5.7	1.6	2.5	2.2
<i>September</i>	1.4	1.7	3.2	1.4	3.8	1.8	1.8	2.3
<i>October</i>	0.6	2.8	1.7	2.6	1.8	1.8	0.8	2.0
<i>Novemb.</i>	0.5	0.9	1.7	0.6	0.6	0.7	1.7	1.4
<i>Decemb.</i>	1.7	4.4	2.1	2.0	2.3	1.2	1.9	2.2
The Mean Quantity of the Rain in the several Years.	$17\frac{1}{2}$	$27\frac{1}{2}$	25.	24.	24.	18.	$22\frac{1}{2}$	23.

The Thermometer's Mean Altitudes taken (from April 13th 1727.) at the coldest and hottest Time of the Day, and their Mean, In the Years

	1726	1727	1728	1729	1730
<i>January</i>		at 10 at 3 65	68 65 66 $\frac{1}{2}$	70 66 68	69 64 66 $\frac{1}{2}$
<i>February</i>		at 10 at 3 59 57 58	69 62 65 $\frac{1}{2}$	74 67 70 $\frac{1}{2}$	68 61 64 $\frac{1}{2}$
<i>March</i>		at 10 at 3 62 58 60	59 53 56	69 60 64 $\frac{1}{2}$	62 54 58
<i>April</i>	at 10 at 3 40 23 36 $\frac{1}{2}$	52 45 48 $\frac{1}{2}$	57 47 52	61 50 55 $\frac{1}{2}$	58 46 52
<i>May</i>	at 10 at 3 25 20 22 $\frac{1}{2}$	45 39 42	47 35 41	53 42 47 $\frac{1}{2}$	49 38 43 $\frac{1}{2}$
<i>June</i>	at 10 at 3 36 31 33 $\frac{1}{2}$	42 32 37	41 30 35 $\frac{1}{2}$	43 30 36 $\frac{1}{2}$	46 35 40 $\frac{1}{2}$
<i>July</i>	at 10 at 3 37 31 34	37 26 31 $\frac{1}{2}$	41 31 36	42 30 36	42 32 37
<i>August</i>	at 10 at 3 40 31 35 $\frac{1}{2}$	43 27 35	43 34 38 $\frac{1}{2}$	43 31 37	44 32 38
<i>September</i>	at 10 at 3 43	49 38 43 $\frac{1}{2}$	53 43 48	46 37 41 $\frac{1}{2}$	47 39 43
<i>October</i>	at 10 at 3 52	57 51 54	58 52 55	57 50 53 $\frac{1}{2}$	55 43 49
<i>Novemb.</i>	at 10 at 3 62	66 60 63	67 61 64	60 57 59 $\frac{1}{2}$	59 52 55 $\frac{1}{2}$
<i>December</i>	at 10 at 3 70	71 68 69 $\frac{1}{2}$	72 70 71	63 60 61 $\frac{1}{2}$	70 65 67 $\frac{1}{2}$
		54 46 50	56 49 52 $\frac{1}{2}$	57 48 52 $\frac{1}{2}$	56 47 51 $\frac{1}{2}$

The Mean Altitudes of the Thermometer in the several Years.

The Thermometer's Mean Altitude taken at the coldest and hottest time of the Day only, and their Mean, In the Years

	1731	1732	1733	1734	1735
<i>January</i>	75 69 72	70 65 67 $\frac{1}{2}$	65 58 61 $\frac{1}{2}$	71 65 68	68 42 65
<i>February</i>	70 63 66 $\frac{1}{2}$	61 53 57	64 56 60	61 54 57 $\frac{1}{2}$	66 59 62 $\frac{1}{2}$
<i>March</i>	63 52 57 $\frac{1}{2}$	64 53 58 $\frac{1}{2}$	64 55 59 $\frac{1}{2}$	59 49 54	64 56 60
<i>April</i>	62 52 57	56 48 52	57 46 51 $\frac{1}{2}$	56 44 50	55 46 50 $\frac{1}{2}$
<i>May</i>	50 34 42	53 44 48 $\frac{1}{2}$	54 40 47	52 42 47 $\frac{1}{2}$	52 43 48
<i>June</i>	45 31 38	46 34 40	43 29 36	44 34 39	45 27 41 $\frac{1}{2}$
<i>July</i>	43 29 36	42 31 36 $\frac{1}{2}$	38 27 32 $\frac{1}{2}$	40 31 35 $\frac{1}{2}$	41 33 37 $\frac{1}{2}$
<i>August</i>	42 32 37	47 33 40	45 34 39 $\frac{1}{2}$	42 32 37	43 33 38
<i>September</i>	48 36 42	49 39 44	52 44 48	51 43 47	46 38 42
<i>October</i>	52 46 49	55 47 51	60 52 56	60 53 56 $\frac{1}{2}$	60 52 56
<i>Novemb.</i>	62 57 59 $\frac{1}{2}$	67 62 64 $\frac{1}{2}$	61 55 58	66 62 64	59 54 56 $\frac{1}{2}$
<i>December</i>	66 61 63 $\frac{1}{2}$	68 64 66	58 53 55 $\frac{1}{2}$	67 63 65	64 60 62
The Mean Altitudes of the Thermometer in the several Years.	56 47 52	57 48 52	55 46 50	56 48 52	56 48 52

The Thermometer's Mean Altitude taken at the coldest and hottest time of the Day only, and their Mean, In the Years

	1736	1737	1738	1739	The Mean Altitudes collaterally.
<i>January</i>	64 60 62	63 59 61	63 57 60	63 58 60 $\frac{1}{2}$	67 62 64 $\frac{1}{2}$
<i>February</i>	71 67 69	65 59 62	66 61 63 $\frac{1}{2}$	60 53 56 $\frac{1}{2}$	66 59 62 $\frac{1}{2}$
<i>March</i>	63 54 58 $\frac{1}{2}$	65 58 61	62 54 58	65 57 61	63 55 59
<i>April</i>	57 46 51 $\frac{1}{2}$	56 47 51 $\frac{1}{2}$	58 49 53 $\frac{1}{2}$	60 52 56	57 48 52 $\frac{1}{2}$
<i>May</i>	54 44 49	49 35 42	48 36 42	49 37 43	50 39 44 $\frac{1}{2}$
<i>June</i>	42 30 36	47 35 41	46 37 41 $\frac{1}{2}$	44 33 31 $\frac{1}{2}$	44 33 38 $\frac{1}{2}$
<i>July</i>	41 31 36	41 29 35	42 30 36	41 32 37	41 30 35 $\frac{1}{2}$
<i>August</i>	42 32 37	41 39 43	45 37 41	41 36 41	44 33 38 $\frac{1}{2}$
<i>September</i>	49 38 43 $\frac{1}{2}$	47 40 43 $\frac{1}{2}$	51 43 47	48 41 44 $\frac{1}{2}$	49 40 44 $\frac{1}{2}$
<i>October</i>	53 47 50	60 55 57 $\frac{1}{2}$	57 50 53 $\frac{1}{2}$	60 53 56 $\frac{1}{2}$	57 50 53 $\frac{1}{2}$
<i>Novemb.</i>	62 57 59 $\frac{1}{2}$	62 56 59	63 57 60	68 63 65 $\frac{1}{2}$	63 58 60 $\frac{1}{2}$
<i>December</i>	63 60 61 $\frac{1}{2}$	67 65 66	65 62 63 $\frac{1}{2}$	70 66 68	66 63 64 $\frac{1}{2}$
The Mean Altitudes of the Thermometer in the several Years	55 47 51	56 48 52	55 48 51 $\frac{1}{2}$	56 48 52	56 48 52