

*A Register of the Weather, Winds, Height of the Mercury in the Barometer, a
the first Six Months of the Year One Thous.*

	January. 8. 12. 9.				February. 7. 12. 9.				March 7. 12. 9.				Weather
	Weather	Winds.	Barom.	Rain.	Weather.	Winds.	Barom.	Rain.	Weather	Winds.	Barom.	Rain.	
1	Frost	W. S. W.	30. 07		Frost				Cloudy		30. 1		Cloudy
	Fair		07				30. 06		Fair	S. W.	20		Warm
2	Mifling	S.	05		Cloudy		05		Cloudy	W. S. W.	18		Fair
			05		Frost	N. E.	29. 95		Warm	S. W.	19		
3	Fog	S. by W.	07		Cloudy	N. E. by E.	75		Spring		14		Fair
	Cloudy	S.	11		Frost	E.	66		Fog	S.	02		Fair
			15		Calm	S.	50		Fair	W. by S.	29. 95		Want
4	Mifling	S.	18	0. 50	Cloudy	E. by S.	30	0. 02	Mist		75		of Rain
			18		Thaw		26	0. 02	Rain	S. W.	69	0. 13	Mifling
			18		Sleet		20		Fair		69		Cloudy
5	Calm		22		Snow		20		Fair	S. W.	71		Cold
	and	W. by S.	23		Fair	E.	20	0. 03	Colder		70		Fair
	Cloudy	S. W.	26		Frost		19			S.	46		Mifling
6	Fog		22		Frost	N. by E.	05		Rain	S. W.	20		Frost
	Warm	W.	0. 30		Cloudy		02	0. 03	Bluffer.	W.	12	0. 85	Fair
	Mifling		14		Snow	N.	28. 90		Fair		21		Frost
7	Cloudy	W. by N.	05		Cloudy	N. by S.	86		Colder	W. by N.	48		Dry
		N. W.	05			S. by W.	83	0. 01	Bluffer.	W.	57		fon
					Fairer		83		Frost	N. W.	30. 01		Frost
8	Cloudy	N. W.	29. 94		Sleet	S. W.	82	0. 01	Fair	N.	11		Warmer
		N. W.	90				84	0. 01	Frost	N. by E.	15		Fog
			82		Thaw		29. 90		Fair	E.	15		Fair
9	Sunsh.	S.	51		Frost	S. W.	18		Fair	W.	14		Cloudy
	Rain		38		Fair		25		Mist.	S. W.	08		
	Snow		10	1. 20.	Frost	S. W.	43		Fair	S. W. by S.	29. 95		Warm
10	Frost	S. W.	02		Fair	S. W. by W.	52		Fair	S. by W.	90		and
	Thaw	S.	2. 00				61				76		Fair
	Rain	S. by E.	28. 95	0. 70.	Snow	S. by E.	65		Mist	S.	65		Fair
11	Cloudy	N.	29. 46		Rain	S. E.	76	0. 27	Frost	W. by S.	64		Warm
	Fair				Fair	E.	94		Cloudy		60		Cloudy
					Cloudy	E. by S.	30. 08		Rain	N. W.	47		Fair
12	Sleet	N.	83		Frost		08		Fair	W. S. W.	35		Cloudy
							08		Rain	W. by N.	21		Rain
13	Cloudy				Thaw		00		Rain	N. by W.	18		Cloudy
					Warm	S.	00			N.	35	0. 32	Rain
					Cloudy		29. 95		Frost	N.	59		
			91		Calm		88		Fair	W.	60	0. 02	Fair
14	Snow	N. E.	96	0. 20	Rain	S. by W.	87	0. 40	Cloudy	W.	48		
		N. E.	96			S.	80		Fair		40		Fair
		E. N. E.	68		Mist	N.	85		Bluffer.	W.	48		Warm
15	Frost	E. N. E.	94		Warm	N. W.	85	0. 30	Storms		28		Spr. Da
	Cloudy	E.	92		Rain	E.	80				28		
			50						Fair		04		Fair
16	Frost	E. N. E.	90		Cloudy	S. by E.	54		Hail	W.	04	0. 80	Cloudy
	Cloudy	N. E. by N.	91		Fair	W. S. W.	62	0. 28	Snow		28. 93		
			94		Rain		50		Frost		29. 16		Fair
17	Frost	N.	30. 02		Fair	S.	50	0. 20		N. W.	30		
	Cloudy	N. N. W.	02		Rain		52		Fair		32		Fair
	Calm		04		Cloudy	S. by E.	30		Frost	S.	10		Fair
18	Frost	W.	09		Bluffer.	S.	25		Snow	N. W.	10		Hot
	Fair	S. W.	10		Fair		42			W.	16		Day.
			10		Rain	E. by S.	30		Frost	W. by S.	27		The fair
19					Fair	S.	38	0. 05	Fair	N. W.	41		
							39			S. W. by S.	42		
									Frost	S.	4		The fair
20	Fair				Frost	S. E.	45		Snow	S. S. E.	37	0. 52	
	Frost					E. by S.	45						



19				Fair	S.	38	0.	05	Fair	N. W.	41		
						39				S. W. by S.	43		
20	Fair Frost Cloudy	S. W. by W.	20	Frost	S. E. E. by S. E.	45 45 40			Frost Snow Fair	S. S. S. E. S. E.	4 37 25	0.	52
21				Fair	E.	36 37 45			Blust. Cloudy Hazy	E. by N. E. by N. N. N. E.	07 10 24		
22	Cloudy Thaw Rain	W. W. by N.	29. 95 90 95	Rain	E.	47 48 52	0.	03					
23	Frost Snow Fair	N. W. N. W. N. N. W.	90 80 68	Hear Frost Fair Rain	E. S. S.	52 54 60			Frost	N. E.	40		
24	Snow Storm Snow	N. W. by W. N. N. E. N. by E.	64 67 78 95	Fair Rain	S. by W.	68 75 81	0.	04	Frost Frost Fair	N. N. N. W. N. by E.	46 54 70		
25	Frost Fair	E. E. by N. N. E.	95 97 98	Cloudy Bluster. Fair	S.	84 85 88			Frost Frost Fair	N. by E. S. I S. o	78 30. 11	02	
26	Sharp Frost	N. E. N. by E. N. N. E.	96 96 86	Fair Cloudy Rain	S. S. W.	88 92	0.	10	The Same	E. o S. E. by E. I	11 10 04		
27	Frost	N. E.	77 77 74	Milling Fair Calm	S. S. by W. S. S. W.	93 97 98			Same	E. o	29. 97 98		
28	Cloudy Frost	N. E.	65 60	Cloudy Fair Cloudy	S. W.	30. 01 01 40	0.	03	Same Hazy	E. o E. o E. I.	13 15 20		
29	Snow Thaw	S. S. W.	47 31 29						Cloudy Cold	NE. by N. o N. N. E. I	14 12 12		
30	Frost Fair	S. W. W. W. by S.	41 50 54						Cloudy Warmer	N. I N. N. E.	12 12 05		
31	Frost Fair	W. N. N. W. N. by W.	77 86 95						Cloudy Rain	N. I N. by E.	96 88	0.	02 68
								Total					80

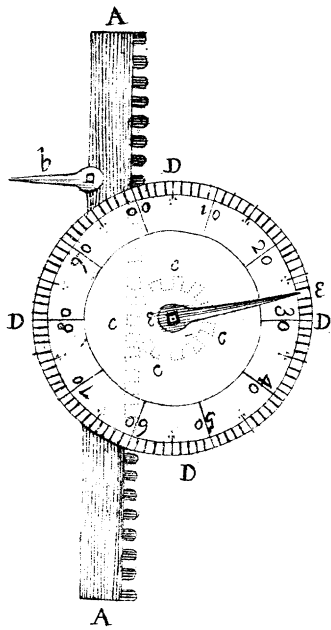
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arometer, and Quantity of Rain falling every Day at Upminster, in Essex,
One Thousand Six Hundred Ninety Seven.

12 9.		October. 7. 12. 9				November. 8. 12. 9.				December. 8. 12. 9.			
Rain.	Weather	Winds.	Barom.	Rain	Weather.	Winds.	Barom.	Rain.	Weather	Winds.	Barom.	Rain.	
	Cloudy	N. W. o	29. 75		Miffling	S. 1	30. 19		Hard	W. b. N. o	29. 86		
	Misty	S. 1							Frost and	W. b. N. 2	87		
	Warm	S. o	78		Misty		15		Fair		89		
	Rain----	S. o	77	o. 10	Fair	S. S. W. o	11		Same	N. 1	90		
	Cloudy	S. by E. o	75		Warm	W. by S. o	11			N. o	94		
	Warm		70		Pleasant		07				99		
	Cloudy	S. by E. o	51		Fair	W. o	04		Same	N. o	30. 05		
		S. 1	46		Colder	W. by S. o	02		Same	N. N. E. o	08		
	Rain		31	o. 72	Fog		29. 99				06		
	Fair	SWb. W. 1	50		Cloudy	SW. b. S. 2	94		Cloudy	N. W. 1	29. 98		
	Cold	S. W. 2	55		Cold		88		Snow	N. N. W. 1	89		
	Rain		28		Day		80		Half Inch		96		
		S. 4	00	o. 12	Rain----	S. W. 2	73	o. 50	Cloudy	N. b. E. 2	30. 00		
	Rain	S. by W. 2	28. 98		Fair	W. b. S. 2	75		Fair	N. N. E. 1	06		
			29. 13	o. 57			81				09		
	Rain	S. 1	16		Rain	W. by N. 1	87		Snow	NW. b. N. 3	29. 98		
	Stormy	E. & W. S.	28. 97		Fair		30. 00		Fair	NW. b. N. 1	99		
	Fairer	S. & c. 6	29. 28	o. 36	Cold	E. o.	29. 93		Sn. 1 Inch		30. 00		
	Rain	S. by E. 1	08		Cloudy	E. S. E. o	91		Snow 6	N. W. o	29. 93		
		N. 1	13		Day		92		Snow 8	S. o	71		
	Fair	W. 1	58	o. 52	Frost	E. by S. o	96		Inches		68		
	Rain	S. 2.	66		Fair	E. S. E. o	99		Fair	E. o	84		
	Cloudy	S. W. 4	64	o. 10	Hard		30. 10		Snow	S. b. E. 1	64		
	Stormy	5	44		Frost	E. o	10		Sleet		53		
	Stormy	S. W. 8	39		Fair		10		Thaw		42		
	Cloudy	W. S. W. 4	51		Cloudy	N. E. o	08		Frost	E. N. E. o	55		
	Fairer	2	66		Frost		04		Thaw	E. o	57	3. 62	
	Fair	SWb. W. o	88		Fair				Snow	2	46		
	and	W. by S. o	30. 00		Rain	W. by S. 1	29. 73		Rain	E. S. E. 2	09	2. 76	
	Pleasant		15		Fairer	N. 2	72	o. 78	Warm	S. b. W. 1	10		
					Rain	N. by W. 2	70	o. 02	Thaw		24	o. 90	
					Fair	N. 1	68		Thaw	S. by E. 2	14		
					Frost		65	o. 15	Rain	S. 2	04		
					Rain----	N. 1	63		Fair	S. W. 3	33		
					Cloudy		62	o. 09	Warm	W. S. W. 3	50		
					Frost		56		Pleasant	S. W. 1	61		
					Snow	N. E. 2	40	o. 82	Cloudy	S. W. 1	63		
					Sleet	N. 1	38		Warm	W. S. W. 1	67		
					All Day		48	o. 50	Day	W. S. W. o	65		
					Frost	W. b. S. o	64		Misty	E. 1	64		
									Warm	E. by N. o	64		
									Day		65		
					Hard	Nb y W. 2	30. 04		Frost	E. by N. 1	58		
					Frost				Fair		59		
					Fair				Frost	E. o	57		
					The same	N. b. W. 2	03		Cloudy		56		
						N. b. W. 3	03		Fairer		62		
							00						
						N. N. W. 1	29. 92						
					The same	N. N. W. o	91		Mist	E. o	72		
							76						
					Snow	S. S. W. 2	26		Cloudy	E. 1	70		
					Sleet				Warm		68		
					Rain		28. 80	o. 20	Day		62		

	Rain	N. 1	98						S. W. 2	101. 60	
19	Mifling	N.	93						Fair	W.by N.o	38
		W.N.W.1	30. 00	62					Cloudy	S. W. 1	50
	Cloudy		30						Rain	S. 1	22. 0. 56
20	Showry							Fair	S. by W. 2		
		W.by S. 1	29. 85					Great Steer.			
								Thun. Ra.		60 1. 88	
21	Rain	W.by W. 1	75					Cloudy		60	
	Fair	W.by N. 1	71					Rain	S. 1	60	
	Mifling	W. 1	60					Cloudy		61 0. 13	
22	Mifty	S.W.b.W.	48					Cloudy	W.by S. 0	74	
	Rain							Mifling	W. 1.	84	
	Fair	S.W.b.S. 0	50 0. 45					Fair	W.	90	
23	Fair	S.by W. 0	50					Fair	W.by S. 0	92	
	Cool	S. 1	48					Cloudy	W.by S. 2	88	
	Day	S. 0	48					Fair	S. W. 2.	84	
24	Fair	S. 1	50					Fair		82	
	Thun.	W. & N.	56					Sultry	S. W. 1	78	
	Great Sh.	& S.	60 1. 02					Cloudy	S.W.b.S. 1	70	
	with Hail							Fair	S.W.b.S. 2	67	
25	Fair	W. 0	65					Fair	S. by W. 2	54	
	Pleasant	N. W. 1	72								
	Day	W.S.W. 0	77								
26	Fair		76					Rain	S. 3	29	
	Cloudy	W.by S. 0	76					Fair	W.by S. 3	31	
	Mifling		69							54 0. 53	
27	Cloudy	S.by W. 0	63					Fair	S. W. 1	81	
	and	SE. Sb.W	60						W.by S. 2	93	
	Cool	E. by N. 1	60							98	
28	The same	N. N. E. 2	58					Fair	S. S.W. 0	94	
		E. by N. 2	62						S. S.W. 2	94	
			69							90	
29	Fair	N. 1	70					Cloudy	S. W. 0	95	
	Cool	N. 2	76					Sultry	E. 0	99	
	Day		90					Very Cl.		30. 03	
30	The same	N.by W. 0	77					Fair	N. E. 0	03	
		W.by N. 1	30. 00								
			00								
31	Cloudy	S. by E. 1	29. 50	0. 20				Fair			
	Warmer	S. S. E. 1	86					and			
	Rain	S. 1	79	6. 19				Air sharp			
										01 13. 98	
											10. 47

Place this between Pag. 48, 49.



II. *A Letter of Mr. W. Derham, Rector of Upminster, dated Jan. 13. 1697. to Dr. Sloane, about a Contrivance to measure the Height of the Mercury in the Barometer, by a Circle on one of the Weather Plates, with a Register of the Weather, &c. for the Year 1697.*

TO my former Observations about the Barometer, give me leave to subjoin a Contrivance for measuring the Height of the *Mercury*, which hath lately occurred to my Thoughts, and which in some Cases is more commodious, than that way with a crooked Tube (I spake of.) This way is by a Circle on one of the Weather-plates, of any convenient Diameter. Divide this into 100 Parts (which are to answer the 100 Parts of an Inch.) The Index which pointeth to these Parts, must be driven round by a small wheel, like the Dial-wheel of a Watch. This Wheel must be driven round by a strait Piece, like a small Ruler, with Teeth on one Edge thereof; every Inch whereof must contain just the same Number of Teeth as are in the Dial-wheel before mentioned; so as that by the thrusting up and down this toothed Ruler, you may at every Inch turn round the Index once. About the middle of this toothed Ruler, a fine Finger must be fixed to point exactly to the Height of the *Mercury*. And consequently by raising or depressing this Finger to the Height of the *Mercury*, you very exactly see, on the Circle, the Parts of an Inch, which the *Mercury* riseth or falleth in the Tube, by reason the Circumference of the Circle is Three or more Inches about.

This Description in Words may perhaps be sufficient, but to prevent Obscurity, I have added a Figure.

Having propos'd the nicest ways I can think of, for measuring the Variation of the *Mercury* on different Heights, there is one Difficulty (partly suggested to me by a correspondent Friend) which may be resolv'd hereby, which I have not yet had Opportunity to make trial of, and do therefore recommend it to others. And that is, *Whether the Mercury hath exactly the same Variation, on one and the same Height, at two different Times: viz. When the Mercury is high, as in fair Weather; or low, as in foul:* I am inclin'd to think, That as the Atmosphere is heavier or lighter, so its pressure being more or less on the same Height, that consequently the *Mercury* riseth or falleth sometimes more, sometimes less on one and the same Height. As for Instance, If the *Mercury* sinketh $\frac{1}{2}$ of an Inch at the Height of 82 Feet, when the *Mercury* standeth at 30 Inches in the Barometer, I Quære, Whether it will sink so much when the Barometer is at 29 Inches?

Fig. 1. representeth the Circle and toothed Ruler, without the Interposition of the Weather-plate; that the Contrivance may be the better seen.

A. A. The Ruler with Teeth, made to slide up and down.

b. The little Finger that pointeth to the *Mercury's* Height (which is placed higher on the toothed Rule than it ought to be, that it may be seen.)

c. c. c. c. The Index or Dial-wheel.

D. D. D. D. The Circle.

e. e. The Index.

The following Table explained, with Remarks upon it.

1. **T**HE Four Columns in each Month are easy : The First giveth the State of the Weather in the Morning, at Noon, and at Night. The Second the Bearing of the Winds. The Third, the Height of the *Mercury* in the Barometer, in Inches and Centesimals. The last the Quantity of Rain that fell every Day through a Tunnel of Twelve Inches Diameter, in Pounds and Centesimals of a Pound : At the Bottom of which Column is the Quantity of all the Rain that fell in the Month.

2. Where only one sort of Weather is noted upon one Day, that was the Weather of all the Day ; especially if the Barometer be noted three times. The same observe also in the Column of Winds. Thus *Jan. 2.* it was a Misty Day, Wind S.

3. The uppermost Observation of each Day is the Morning Observation ; the middlemost at Noon ; the lowermost at Night. Or if a Defect be in any of those Three Places, no Observation was made at that time.

If you meet with [Rain] noted on the Line that parts every Day, it signifies rain fell in the Night.

4. The Time of observing at Night, was at Nine of the Clock all the Year. But the Morning Observations were all *January* at 8 of the Clock ; all *February*, and to *March 20.* at 7 of the Clock ; thence to the End of *September* at Six of the Clock ; all *October* at Seven ; all *November* and *December* at Eight : And this is the meaning of the Figures that follow the Name of every Month.

5. The Strength of the Winds is noted in the Column

of Winds, from *March* 25. The Reason I did it not before, was, because I did not think of it till Mr. *Townley* suggested it to me, *Note*, A Cypher signifies a Calm; 1, 2, 3, &c. denotes the Strength of the Wind; wherefore 5, or 6 is a little Storm; 7, or 8 a great Storm.

6. Where the Weather, Winds, or Rain are noted only in the Morning and at Night, it signifies the Weather, &c. all the Morning and Afternoon; especially if the Barometer was observed at Noon.

7. The Defect of Observations from *April* 26. to *May* 16. was occasioned by my Absence in a Journey: Notwithstanding which, I took Care to have the Rain that fell, measured; tho' not on the Days it fell.

8. Forasmuch as the Quantity of Snow falling can't be well observed by the Tunnel, I have therefore in the Table noted the Depth of it on the Ground, as on *Dec.* 4, &c.

9. The whole Quantity of Rain that fell through my Tunnel last Year, was 77.60 lb. which is less than fell from the Beginning of *March* (at which time I began my Rain-Observations) till the End of *December*, 1696. In which Ten Months there fell here, at *Upminster*, almost 115 lb. and at *Townley* in *Lancashire* (according to Mr. *Townley's* Observations) above 172 lb. and in the whole Year at *Townley* 203.75 lb.

10. My Rain-Observations I make with a Tunnel of Twelve Inches Diameter (as I have said) the Rain I measure with a Cylindrical Glass. But for a fuller Description, I refer to Mr. *Townley's* Account of his Method, in one of the Transactions of a former Year.

A Register of the Weather, Winds, Height of the Mercury in the Barometer, and Quantity of Rain falling every Day at Upminster, in Essex, the first Six Months of the Year One Thousand Six Hundred Ninety Seven.

Day	January. 8. 12. 9.				February. 7. 12. 9.				March. 7. 12. 9.				April. 6. 12. 9.				May. 6. 12. 9.				June. 6. 12. 9.			
	Weather	Winds.	Barom.	Rain.	Weather	Winds.	Barom.	Rain.	Weather	Winds.	Barom.	Rain.	Weather	Winds.	Barom.	Rain.	Weather	Winds.	Barom.	Rain.	Weather	Winds.	Barom.	Rain.
1	Frost	W.S.W.	30.07		Frost		30.06		Cloudy	S.W.	30.1		Cloudy	N.E.	29.83						Fair	S.	29.66	
2	Milling	S.	05		Cloudy	N.E.	05		Cloudy	W.S.W.	18		Fair	N.E.	88						Rain	S.	42	
3	Fog	S. by W.	07		Frost	N.E. by E.	75		Fog	S.	02		Fair	N.E.	88						Rain	S.	29.44	
4	Milling	S.	18	50	Cloudy	E. by S.	30	02	Fair	W. by S.	88		Fair	N.E.	88						Fair	S. by W.	02	79
5	Calm and Cloudy	W. by S.	22		Thaw	E.	20	03	Fair	S.W.	71	13	Cloudy	N.	75						Showers	S.	02	37
6	Fog	W.	22	30	Frost	N. by E.	05		Rain	S.W.	20		Frost	E.	73						Thunder	E. by S.	85	
7	Cloudy	W. by N.	05		Snow	N.	28	03	Fair	W.	48		Fair	E.	68						Thunder	E.	82	13
8	Cloudy	N.W.	29	94	Cloudy	W. by S.	83	01	Colder	W. by N.	57		Frost	E.	67						Fog	S. by W.	70	02
9	Sunsh. Rain Snow	S.	51	20	Fairer	S.W.	84	01	Bluffer.	W.	60		Frost	E.	71						Hot	S.W.	75	
10	Frost	S.W.	02		Thaw	S.W.	29	00	Frost	N.W.	30	01	Warmer	E.	71						Fair	S.W. by W.	70	
11	Cloudy	N.	29	46	Snow	S. by E.	65		Mist	S.	65		Fog	W.	65						Cloudy	S.	56	
12	sleet	N.	83		Rain	S.E.	75	27	Rain	N.W.	47		Warm	E.	62						Fair	S. by E.	50	
13	Cloudy		91		Cloudy	E. by S.	30	08	Fair	W. by N.	21		Cloudy	N. by E.	65						Fair	S.W.	34	
14	Snow	N.E.	95	20	Thaw	S.	00		Rain	N. by W.	18		Warm	N.E.	12	38					Fair	S.W.	28	
15	Frost	E.N.E.	54		Calm	S. by W.	88	40	Frost	N.	59		Fair	N.N.E.	75						Rain	E.	38	20
16	Cloudy	N.E. by N.	91		Mist	N.W.	85	30	Cloudy	W.	48		Fair	E. by N.	75						Misty	E.	45	
17	Cloudy	N.N.W.	30	02	Warm	E.	30		Fair	W. by S.	41		Fair	S.	77						Hot	N. by W.	64	
18	Fair	S.W.	10		Rain	S. by S.	30	05	Frost	N.W.	10		The same	E.	93						Cloudy	N.	90	01
19	Fair				Fair	S.	38		Fair	N.W.	41		The same	E.	80						Fair	W.	94	
20	Cloudy	S.W. by W.	20		Frost	S.E.	45		Frost	S.W. by S.	42		The same	E.	69						Fair	W. by S.	92	
21					Fair	E. by S.	45		Frost	N.W.	10		Cloudy	E. by S.	85	43					Cloudy	N.	90	
22	Cloudy	W.	29	95	Rain	E.	47	03	Bluff.	E. by N.	07		Fair	N.	88						Fair	W.	92	
23	Frost	N.W.	90	08	Fair	E.	52		Cloudy	N.N.E.	24		Fair	N.	88						Fair	W.	94	
24	Snow	N.W.	80	30	Thaw	S.	52		Frost	S.	10		Fair	N.	88						Very	W. by S.	98	
25	Frost	N.N.W.	68		Bluff.	S.	42		Frost	N.W.	10		Fair	N.	88						Droughty	W. by S.	30	00
26	Sharp	N.E.	96		Rain	S. by W.	75	04	Frost	W.	10		The same	E.	93						Hot	S.W. by W.	29	93
27	Frost	N.E.	77		Cloudy	S.	84		Frost	N.W.	10		The same	E.	80						Rain	N. by E.	91	22
28	Cloudy	N.E.	65		Fair	S.	85		Frost	N.W.	10		Cloudy	E.	92						Cloudy	N.E.	93	
29	Snow	S.	47	08	Thaw	S.	85		Frost	N.W.	10		Cloudy	E.	92						Rain	N. by E.	92	
30	Frost	S.W.	41		Cloudy	S.	88		Frost	N.W.	10		Cloudy	E.	92						Cooler	N.	95	
31	Fair	W.	77	05	Fair	S.	88		Bluff.	E. by N.	07		Cloudy	E. by S.	85						Cloudy	N.	90	
		N.N.W.	86		Cloudy	S.W.	92	10	Cloudy	N.W.	10		Fair	E. by S.	85						Fair	W.	92	
		N. by W.	95	61	Milling	S. by W.	93		Cloudy	N.W.	10		Fair	E. by S.	85						Fair	W.	94	
					Fair	S.S.W.	98		Cloudy	N.W.	10		Fair	E. by S.	85						Very	W. by S.	98	
					Cloudy	S.W.	30	01	Cloudy	N.W.	10		Fair	E. by S.	85						Droughty	W. by S.	30	00
					Cloudy	S.W.	01	03	Cloudy	N.W.	10		Fair	E. by S.	85						Hot	S.W. by W.	29	93
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Rain	N. by E.	91	22
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Cloudy	N. by E.	92	
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Cooler	N.	95	
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Cloudy	N.	90	
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Fair	W.	94	
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Fair	W.	94	
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Very	W. by S.	98	
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Droughty	W. by S.	30	00
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Hot	S.W. by W.	29	93
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Rain	N. by E.	91	22
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Cloudy	N. by E.	92	
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Cooler	N.	95	
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Cloudy	N.	90	
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Fair	W.	94	
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Fair	W.	94	
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Very	W. by S.	98	
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Droughty	W. by S.	30	00
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Hot	S.W. by W.	29	93
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Rain	N. by E.	91	22
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Cloudy	N. by E.	92	
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Cooler	N.	95	
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Cloudy	N.	90	
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Fair	W.	94	
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Fair	W.	94	
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Very	W. by S.	98	
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Droughty	W. by S.	30	00
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Hot	S.W. by W.	29	93
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Rain	N. by E.	91	22
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Cloudy	N. by E.	92	
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Cooler	N.	95	
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Cloudy	N.	90	
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Fair	W.	94	
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.	85						Fair	W.	94	
					Cloudy	S.W.	01		Cloudy	N.W.	10		Fair	E. by S.										

A Register of the Weather, Winds, Height of the Mercury in the Barometer, and Quantity of Rain falling every Day at Upminster, in Essex, the last Six Months of the Year One Thousand Six Hundred Ninety Seven.

Day	July. 6. 12. 9.				August. 6. 12. 9.				September. 6. 12. 9.				October. 7. 12. 9.				November. 8. 12. 9.				December. 8. 12. 9.			
	Weather	Winds.	Barom.	Rain.	Weather	Winds.	Barom.	Rain.	Weather	Winds.	Barom.	Rain.	Weather	Winds.	Barom.	Rain.	Weather	Winds.	Barom.	Rain.	Weather	Winds.	Barom.	Rain.
1	Rain	S.S.W	29. 75		Cloudy	S. by E. 1	29. 73		Fair	E. by N. 1	29. 98		Cloudy	N. W. 0	29. 75		Milling	S. 1	30. 19		Hard	W. b. N. 0	29. 86	
2	Fair	S.W. 1	72		Fair	S. by E. 2	72		Cool	N. E. 2	30. 00		Misty	S. 1	71		Fair	S.S.W. 0	11		Frost and	W. b. N. 2	87	
3	Same	S.W. 0	70. 0. 24		Cloudy	S. by E. 2	65		The same	NE. b. N. 1	29. 98		Warm	S. 0	71		Fair	W. by S. 0	11		Fair	N. 1	90	
4	Fair	S.W. 1	57		Cloudy	S. by E. 2	65		Hot Sun	E. by N. 0	88		Rain	S. by E. 0	71	10	Warm	S.S.W. 0	11		Same	N. 0	94	
5	Fair	W. b. N. 1	64		Fair	S. by E. 2	69		Cool Air	E. 1	89		Cloudy	S. by E. 0	71		Pleasant	W. 0	07		Fair	N. 0	99	
6	Cloudy	S. 0	85		Rain	S. by E. 2	69		Fair	E. 0	84		Rain	S. 1	4	72	Fair	W. by S. 0	04		Same	N. N. E. 0	30. 05	
7	Fair	S.W. 1	85		Fairer	S. by W. 2	65		Warmer	E. 2	84		Fair	S.W. b. W. 1	50		Colder	W. by S. 0	02		Cloudy	N. W. 1	29. 98	
8	Hot	W. 0	87		Rain	S. W. 2	50		Fair	E. 1	78		Cold	S. W. 2	5		Fog	W. by S. 0	29. 99		Cloudy	N. N. W. 1	89	
9	Dry	W. by S. 1	94		Fairer	S. W. 1	49. 0. 79		Hot	E. 0	80		Rain	S. 4	28. 95	12	Rain	S. W. 2	73	50	Cloudy	N. b. E. 2	30. 00	
10	Fair	W. 0	84		The same	S. by W. 0	4		Mist	E. 0	82		Rain	S. by W. 2	28. 95	57	Fair	W. b. S. 2	75		Fair	N. N. E. 1	06	
11	Hot	W. 0	29. 95		Cloudy	S. 1	4	22	Hot	S. by E. 0	85		Stormy	S. 1	16		Fair	W. by N. 1	87		Snow	NW. b. N. 3	29. 98	
12	Fair	W. by N. 0	86		Rain	S. by E. 0	51		The same	S. 0	85		Fairer	E. & W. S. 6	28. 97	36	Cold		30. 00		Snow	NW. b. N. 1	30. 00	
13	Rain	W. by S. 0	79. 0. 12		Fairer	E. N. E. 1	55	07	The same	E. 2	83		Rain	S. by E. 1	08		Cloudy	E. 0.	29. 93		Snow	N. W. 0	29. 93	
14	Milling	S. W. 1	68		Rain	N. 2	50		The same	E. 0	73		Fair	W. 1	13	52	Day	E. S. E. 0	91		Snow	S. 0	71	
15	Rain	S. W. 2	60		Rain	N. 1	41	0	Fair	E. 0	70		Cloudy	S. 2.	60.	10	Frost	E. by S. 0	96		6		84	
16	Cloudy	S. S. W. 1	44. 0. 32		both	N. 2	31	91	Cooler	E. by N. 1	68		Stormy	S. W. 4	64.	10	Fair	E. S. E. 0	99		8		87	
17	Rain	S. W. 1	42. 0. 75		Days	W. 2.	37	0	Fair	E. by N. 2	65		Cloudy	S. W. 8	39		Hard	E. 0	30. 10		Sleet	S. b. E. 1	04	
18	Cool	S. W. 1	43		Cloudy	W. by S. 1	48	20	Cloudy	E. by N. 2	65		Fairer	W. S. W. 4	51		Frost	E. 0	10		Thaw	S. b. E. 1	53	
19	Fairer	W. N. W. 0	47. 0. 77		Rain	W. 1.	6	39	Rain	E. 1.	43		Fair	2	66		Fair	E. 0	10		Thaw	E. N. E. 0	55	
20	Fair and	W. by N. 0	50		Cloudy	N. W. 2	6	07	Cloudy	S. 2	39		and	SW. b. W. 0	82		Cloudy	N. E. 0	08		Snow	E. 0	57	62
21	Rain	N. W. b. W.	82		Fairer	W. 1	75	07	Rain	S. 2	40. 0. 10		Pleasant	W. by S. 0	30. 00	15	Fair		04				46	
22	Warmer	S. W. 1	85		Fair	W. 0.	77		Showers	S. by E. 0	35		Frost	S. W. 0	20		Rain	W. by S. 1	29. 73		Rain	E. S. E. 2	09	76
23	Same	S. W. b. W.	30. 00		Day	W. N. W. 1	82		Fair	W. S. W. 1	40	59	Misty	S. W. 0	18		Fairer	N. 2	72. 0. 78		Warm	S. b. W. 1	10	
24	Fair	W. by N. 0	91		Cloudy	W. by N. 0	82		Cloudy	S. 0	76	07	Frost	SW. b. W. 0	17		Rain	N. by W. 2	70. 0. 02		Thaw	S. by E. 2	14	
25	Hot	S. 0	29. 98		Fair	W. by N. 0	82		Rain	S. by W. 2	77		Fair				Frost	N. 1	68		Thaw	S. 2	04	
26	Fair	S. 0	80		Mist	N. 0.	64		Fair	S. 2.	49		Fair				Rain	N. 1	63		Rain	S. 2	11. 0. 42	
27	Cloudy	S. by W. 1	88		Cloudy	W. by S. 1	89		Rain	S. 3	38	54	Fair	W. 1	20		Cloudy	N. 1	62. 0. 09		Fair	S. W. 3	33	
28	Rain	S. W. 1	84		Rain	S. by W. 1	82. 0. 33		Fair	S. 4	67		and	W. by S. 0	18		Warm	N. 1	59		Warm	W. S. W. 3	50	
29	Cloudy	S. W. 1	84		Cloudy	S. W. 2	70		Rain	S. 2	50		Warm	W. N. W. 0	18		Snow	N. E. 2	40. 0. 82		Pleasant	S. W. 1	61	
30	Rain	N. b. W. 1	84		Fair	W. 2	88		Fair	S. 4	32		Cloudy	W. by S. 0	16		Sleet	N. 1	38		Cloudy	S. W. 1	68	
31	Cloudy	N. W. 0	85. 0. 48		Cloudy	S. W. 1	84		Rain	S. W. 1	45		Warm	W. N. W. 0	16		All Day	N. 1	48. 0. 50		Day	W. S. W. 1	67	
1	Cooler	W. 1	95		Cloudy	S. W. 2	70		Fair	S. W. 1	45		Cloudy	W. by S. 0	12		Frost	W. b. S. 0	64		Misty	S. W. 1	65	
2	Rain	N. W. b. W.	94		Fair	W. 2	83		Rain	S. 2	30		Warm	N. W. 0	12		Warm	E. 1	64		Warm	W. S. W. 1	67	
3	Thunder	W. by N. 0	92. 0. 42		Cloudy	W. 2	88		Rain	S. 4	32		and	W. N. W. 0	16		Day	E. 0	10		Day	W. S. W. 0	65	
4	Fair	N. N. W. 0	93		Cloudy	S. W. 1	84		Fair	S. 3	38		Warm	W. by S. 0	18		Thaw	E. 0	10		Frost	S. W. 1	61	
5	Fair	N. N. W. 0	93		Cloudy	S. W. 2	70		Rain	S. 2	67		Cloudy	W. N. W. 0	16		Thaw	E. 0	10		Thaw	S. W. 1	61	
6	Fair	N. W. 1	95		Cloudy	W. 2	88		Fair	S. 4	32		Warm	W. by S. 0	18		Rain	N. 1	63		Fair	S. W. 3	33	
7	Cloudy	N. 1	98		Cloudy	S. W. 1	84		Rain	S. 2	50		Fair	W. N. W. 0	16		Cloudy	N. 1	62. 0. 09		Warm	W. S. W. 3	50	
8	Milling	N. N. W. 1	30. 00. 62		Fair	W. 2	88		Fair	S. 2	67		and	W. N. W. 0	16		Frost	N. 1	59		Pleasant	S. W. 1	61	
9	Cloudy	W. N. W. 1	30. 00. 62		Cloudy	W. 2	88		Rain	S. 2	50		Warm	W. by S. 0	18		Snow	N. E. 2	40. 0. 82		Cloudy	S. W. 1	68	
10	Showy	W. by S. 1	29. 85		Cloudy	S. W. 1	84		Fair	S. 4	32		All Day	W. N. W. 0	16		Frost	N. 1	38		Day	W. S. W. 0	65	
11	Rain	W. by S. 1	29. 85		Rain	S. W. 2	75		Rain	S. 2	30		Cloudy	W. by S. 0	12		Thaw	N. 1	48. 0. 50		Misty	E. 1	64	
12	Fair	W. by N. 0	91		Cloudy	S. W. 1	84		Fair	S. 2	30		Warm	N. W. 0	12		Warm	W. b. S. 0	64		Warm	E. by N. 0	64	
13	and	N. N. W. 0	93		Cloudy	S. W. 2	70		Rain	S. 2	30		Milling	N. W. 0	10		Day				Day	E. by N. 0	65	
14	Fair	N. N. W. 0	93		Cloudy	S. W. 1	84		Fair	S. 2	30		Cloudy	W. by S. 0	12		Hard				Frost	E. by N. 1	58	
15	Fair	N. W. 1	95		Cloudy	S. W. 2	70		Cloudy	S. 2	30		Warm	N. W. 0	10		Frost	N. 2	72. 0. 78		Thaw	S. b. W. 1	24. 0. 90	
16	Cloudy	N. 1	98		Cloudy	S. W. 1	84		Cloudy	S. 2	30		Cloudy	W. by S. 0	12		Rain	N. by W. 2	70. 0. 02		Thaw	S. by E. 2	14	
17	Milling	N. N. W. 1	30. 00. 62		Cloudy	S. W. 2	70		Fair	S. 2	67		Fair	W. N. W. 0	16		Frost	N. 1	68		Rain	S. 2	04	
18	Cloudy	W. N. W. 1	30. 00. 62		Cloudy	S. W. 1	84		Cloudy	S. 2	30		and	W. N. W. 0	16		Rain	N. 1	63		Fair	S. 2	11. 0. 42	
19	Showy	W. by S. 1	29. 85		Cloudy	S. W. 2	70		Fair	S. 2	30		Warm	W. by S. 0	18		Cloudy	N. 1	62. 0. 09		Warm	S. W. 3	33	
20	Rain	W. by S. 1	29. 85		Cloudy	S. W. 1	84		Rain	S. 2	30		Cloudy	W. N. W. 0	16		Frost	N. 1	59		Cloudy	S. W. 1	61	
21	Fair	W. by N. 1	71		Cloudy	S. W. 2	70		Rain	S. 2	30		Warm	W. by S. 0	18		Snow	N. E. 2	40. 0. 82		Cloudy	S. W. 1	68	
22	Milling	W. 1	60		Cloudy	S. W. 1	84		Fair	S. 2	30		Sleet	W. N. W. 0	16		Snow	N. 1	38		Warm	W. S. W. 1	67	
23	Misty	S. W. b. W.	48		Cloudy	S. W. 2	70		Rain	S. 2	30		All Day	W. N. W. 0	16		Frost	N. 1	38		Day	W. S. W. 0	65	
24	Rain	S. W. b. S. 0	50. 0. 45		Cloudy	S. W. 1	84		Fair	S. 2	30		Cloudy	W. by S. 0	12		Thaw	N. 1	48. 0. 50		Thaw	W. S. W. 0	65	
25	Fair	S. by W. 0	50		Cloudy	S. W. 2	70		Rain	S. 2	30		Warm	W. by S. 0	18		Thaw	N. 1	48. 0. 50		Frost	S. W. 1	61	
26	Cool	S. 1	48		Cloudy	S. W. 1	84		Fair	S. 2	30		Cloudy	W. N. W. 0	16		Thaw	N. 1	38		Thaw	S. W. 1	61	