XXVIII. The climate of Penzance, Cornwall.—Meteorological results of the temperature, wind and weather deduced from diurnal observations made at Penzance for 21 years: (the thermometrical observations made at 8 a.m. and 2 p.m.) to which are added the maxima, minima, and media of the register thermometer for 7 years, with the inches of rain fallen during that period

Edward Collins Giddy

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tleman, the observed pendulum at Spitzbergen falls short of the calculated one $3\frac{1}{2}$ vibrations in a day ;—in my table the defect is only $2\frac{1}{2}$. The density of the matter near the surface of the earth, varying at the different stations of the pendulum, must in some degree influence the time of vibration : but the speculation is premature ; and there is good reason to think, at least in far the greater number of cases, that the effect in question will never be separated from the unavoidable errors of observation.

What has just been said will not, however, apply to the five anomalous experiments, all of which show an excess of gravity far surpassing the ordinary measure of experimental error. Besides, at two of the stations the pendulums have been verified by two independent experiments varying little in the results. It is remarkable that in all the five cases, and at Galapagos, there is an excess of gravity ; and, according to my table, there is a like excess, though much less in quantity, at Rawak, Sierra Leone, and Jamaica. On the other hand, there appears to be a defect of gravity at Maranham, Trinidad, and San Blas. Thus there are nine instances of excess, and only three of defect ; and we may suspect that there is some cause of error, different from local attraction, tending to make these tropical pendulums longer than they should be. At the Isle of France, the excess of gravity is no less than 10 vibrations a day ; yet this is a small island, surrounded on all sides by an extensive sea ; and we might infer, *à priori*, that a pendulum placed upon it very little above the level of the sea, instead of being accelerated, would be retarded by the great defect of density in the waters of the ocean. But the purpose of this paper is to deduce from the experiments the consequences that necessarily flow from them by a strict investigation ; and I shall refrain from entering into the region of conjecture and opinion.

Feb. 11, 1828.

J. IVORY.

XXVIII. *The Climate of Penzance, Cornwall.—Meteorological Results of the Temperature, Wind and Weather deduced from diurnal Observations made at Penzance for 21 Years : (the Thermometrical Observations made at 8 a.m. and 2 p.m.) to which are added the Maxima, Minima, and Media of the Register Thermometer for 7 Years, with the Inches of Rain fallen during that Period.* By EDWARD COLLINS GIDDY, Curator of the Cabinet of the Royal Geological Society of Cornwall.

JANUARY

JANUARY.														FEBRUARY.																	
Thermom.				Winds.						Weather.				Thermom.				Winds.						Weather.							
Years	Max	Min	Mean	N	NE	E	SE	S	SW	W	NW	P. Wind	N° of days	Wet	Dry	Years	Max	Min	Mean	N	NE	E	SE	S	SW	W	NW	P. Wind	N° of days	Wet	Dry
1807	52	37	47,0	1	6	2	5	2	0	4	11	NW	31	9	22	1807	56	34	46,5	2	4	0	1	1	8	2	10	NW	28	15	13
1808	50	26	41,5	1	4	0	1	2	6	11	6	W	31	18	13	1808	50	28	41,0	4	5	3	1	1	3	8	4	W	29	12	17
1809	52	33	45,0	1	3	4	8	1	6	4	4	SE	31	19	12	1809	54	34	47,0	0	3	0	2	0	16	0	7	SW	28	18	10
1810	53	19	41,0	3	6	4	5	5	7	0	1	SW	31	10	21	1810	56	26	45,0	0	5	3	2	5	7	5	1	SW	28	15	13
1811	50	22	37,5	1	4	7	2	4	5	0	8	NW	31	14	17	1811	54	41	45,5	0	0	0	7	3	9	4	5	SW	28	22	6
1812	52	30	42,0	4	5	2	1	3	4	2	10	NW	31	16	15	1812	54	37	47,0	4	0	0	3	4	7	5	6	SW	29	22	7
1813	51	30	41,5	3	3	7	3	3	2	2	8	NW	31	12	19	1813	52	34	46,0	0	1	1	4	4	7	6	5	SW	28	21	7
1814	51	28	37,5	9	5	3	5	3	2	1	3	N	31	18	13	1814	52	32	42,0	1	5	2	8	2	2	4	4	SE	28	12	16
1815	50	26	40,0	4	10	0	3	3	3	0	8	NE	31	18	13	1815	56	36	49,5	1	0	0	6	3	10	4	4	SW	28	18	10
1816	52	32	43,5	2	1	2	5	2	4	3	12	NW	31	18	13	1816	56	26	44,0	0	6	0	1	9	1	5	7	S	29	10	19
1817	54	32	47,0	7	0	1	2	4	2	12	3	W	31	19	12	1817	56	40	49,0	0	3	0	1	0	4	11	9	W	28	8	20
1818	55	34	46,5	3	0	2	4	3	11	6	4	W	31	23	8	1818	58	34	48,5	3	0	1	4	6	2	3	9	NW	28	15	13
1819	55	38	47,0	0	2	1	3	7	6	8	4	W	31	23	8	1819	55	38	47,5	3	1	0	1	4	4	7	8	NW	28	18	10
1820	56	22	40,0	1	7	5	4	4	2	2	6	NE	31	14	17	1820	56	30	44,0	4	8	2	1	6	5	0	3	NE	29	11	18
1821	55	26	45,5	0	8	4	5	7	0	7	0	NE	31	16	15	1821	52	36	43,5	2	1	3	6	2	0	3	1	E	28	3	25
1822	50	37	45,5	4	4	1	0	2	2	7	11	NW	31	16	15	1822	53	38	47,0	2	1	0	2	4	12	4	3	SW	28	11	17
1823	54	30	40,5	3	6	3	11	1	5	2	0	SE	31	17	14	1823	52	32	44,0	2	3	0	1	0	9	7	6	SW	28	22	6
1824	54	32	46,0	3	8	3	1	0	3	7	6	NE	31	14	17	1824	58	34	47,0	1	7	4	3	2	2	9	1	W	29	21	8
1825	54	34	46,0	0	7	3	0	3	3	8	7	W	31	14	17	1825	56	36	47,5	1	0	5	6	0	5	7	4	W	28	12	16
1826	55	27	43,0	4	2	8	10	0	2	1	4	SE	31	8	23	1826	56	40	49,0	0	1	0	1	2	13	10	1	SW	28	19	9
1827	54	25	44,5	2	4	4	3	0	3	8	7	W	31	19	12	1827	54	30	38,0	1	8	13	2	0	1	2	1	E	28	7	21
For 21 years.	Max.	Min.	Mean	N	NE	E	SE	S	SW	W	NW	P. Wind	N° of days	Wet	Dry	Max.	Min.	Mean	N	NE	E	SE	S	SW	W	NW	P. Wind	N° of days	Wet	Dry	
	56,19	43,0	56	95	66	79	60	70	100	125	NW		651	335	316	58,26	45,5	51	62	47	63	58	127	106	99	SW	593	312	281		

MARCH.														APRIL.																	
Thermom.			Winds.							Weather.			Thermom.			Winds.							Weather.								
Years	Max.	Min.	N	NE	E	SE	S	SW	W	NW	P.	N° of days	Wet	Dry	Max.	Min.	N	NE	E	SE	S	SW	W	NW	P.	N° of days	Wet	Dry			
1807	54	30	42,0	2	15	4	3	2	0	1	4	NE	31	4	27	1807	68	32	49,0	0	5	1	5	7	5	3	4	s	30	9	21
1808	54	30	42,0	0	6	10	12	2	0	0	1	SE	31	7	24	1808	60	34	46,0	5	1	1	4	3	3	2	11	NW	30	7	23
1809	60	32	46,5	0	4	12	1	2	7	0	5	E	31	7	24	1809	58	34	46,0	4	7	1	1	0	6	2	9	NW	30	14	16
1810	58	30	47,0	0	4	2	9	0	6	3	7	SE	31	12	19	1810	66	34	51,5	1	2	3	6	4	10	2	2	SW	30	8	22
1811	61	37	48,5	2	3	14	1	3	2	5	1	E	31	7	24	1811	62	32	51,0	1	3	3	5	7	6	2	3	s	30	10	20
1812	60	28	44,0	6	3	5	5	0	7	1	4	SW	31	17	14	1812	60	36	49,5	7	1	3	8	5	0	2	4	SE	30	10	20
1813	62	28	49,0	6	6	0	1	3	4	3	8	NW	31	11	20	1813	64	35	51,5	3	7	5	4	1	2	4	4	NE	30	10	20
1814	58	30	42,5	0	7	4	3	0	8	2	7	SW	31	12	19	1814	62	43	53,5	3	0	2	4	12	5	1	3	s	30	16	14
1815	62	38	51,5	0	0	0	2	12	3	4	10	s	31	21	10	1815	66	40	52,5	6	6	6	3	1	0	0	8	NW	30	8	22
1816	54	32	45,0	5	3	5	0	1	10	2	5	SW	31	16	15	1816	68	38	50,0	6	4	2	8	2	2	2	4	SE	30	12	18
1817	60	32	48,5	5	1	2	4	4	5	2	8	NW	31	18	13	1817	62	39	50,5	6	10	6	3	1	0	1	3	NE	30	1	29
1818	58	36	47,0	3	0	1	2	3	4	8	10	NW	31	23	8	1818	64	38	51,5	1	4	9	3	7	1	2	3	E	30	14	16
1819	60	38	48,5	1	10	3	0	3	2	3	9	NE	31	10	21	1819	66	44	54,5	3	1	9	4	5	2	5	1	E	30	14	16
1820	61	30	46,0	1	8	3	1	2	4	6	6	NE	31	9	22	1820	66	40	53,0	6	3	7	1	0	3	1	9	NW	30	7	23
1821	56	40	50,0	2	0	1	5	2	5	9	7	w	31	17	14	1821	64	45	53,5	0	4	0	6	1	5	3	11	NW	30	18	12
1822	56	44	50,0	2	1	1	4	5	10	6	2	SW	31	14	17	1822	64	40	50,5	9	2	2	3	4	5	2	3	N	30	10	20
1823	54	38	46,0	5	0	2	6	0	7	6	5	SW	31	13	18	1823	58	42	49,0	2	6	5	4	2	5	4	2	SE	30	12	18
1824	62	36	47,0	4	7	0	0	4	3	5	8	NW	31	18	13	1824	60	40	50,5	3	2	0	11	5	2	5	2	SE	30	17	13
1825	60	38	48,5	1	8	5	5	2	4	4	2	NE	31	17	14	1825	66	44	55,5	0	8	5	2	3	2	7	3	NE	30	11	19
1826	66	38	49,0	3	7	5	2	6	1	3	4	NE	31	8	23	1826	61	46	52,0	6	1	1	2	0	4	7	9	NW	30	10	20
1827	55	36	48,5	2	1	0	2	1	1	18	6	w	31	18	13	1827	60	41	51,5	2	1	3	6	1	2	8	7	w	30	10	20
For 21 years.	Max.	Min.	N	NE	E	SE	S	SW	W	NW	P.	N° of days	Wet	Dry	Max.	Min.	N	NE	E	SE	S	SW	W	NW	P.	N° of days	Wet	Dry			
	66	28	47,0	50	94	79	68	57	93	91	119	NW	651	279	372		68	32	51,5	74	78	71	67	66	107	NW	630	227	403		

MAY.														JUNE.																			
Years	Thermom.			Winds.							Weather.			Years	Thermom.			Winds.							Weather.								
	Max.	Min.	Mean	N	NE	E	SE	S	SW	W	NW	P. Wind	N° of days		Wet	Dry	Max.	Min.	Mean	N	NE	E	SE	S	SW	W	NW	P. Wind	N° of days	Wet	Dry		
1807	72	46	56.5	5	0	5	5	6	5	3	2	S	31	14	17	1807	70	52	61.0	4	2	0	2	4	4	1	13	NW	30	3	27		
1808	71	44	58.0	1	0	2	7	8	11	1	1	SW	31	13	18	1808	72	52	62.5	2	1	4	3	3	4	2	11	NW	30	5	25		
1809	72	44	59.5	1	0	2	5	10	5	3	5	S	31	8	23	1809	75	45	61.0	6	3	1	2	0	7	3	8	NW	30	9	21		
1810	66	44	55.5	8	0	5	10	1	5	1	1	SE	31	8	23	1810	72	54	63.0	0	3	0	9	2	11	1	10	NW	30	7	23		
1811	72	50	59.5	3	1	2	2	7	10	3	3	SW	31	20	11	1811	74	51	62.0	7	4	1	0	2	11	1	4	SW	30	14	16		
1812	70	50	58.5	1	6	5	1	11	1	0	6	S	31	14	17	1812	72	54	61.0	2	1	5	2	1	4	7	8	NW	30	9	21		
1813	68	46	58.5	2	1	0	5	9	3	7	4	S	31	15	16	1813	72	52	62.5	12	1	7	0	2	3	5	0	N	30	7	23		
1814	68	44	56.0	1	3	12	2	4	2	2	5	E	31	5	26	1814	74	50	61.5	8	2	3	2	6	3	3	4	N	30	4	26		
1815	71	52	60.5	9	0	1	2	8	3	6	2	N	31	16	15	1815	74	56	63.0	1	3	5	2	4	3	3	9	NW	30	11	19		
1816	68	42	56.5	1	3	6	1	2	3	4	11	NW	31	14	17	1816	76	52	61.5	6	1	1	1	6	1	5	9	NW	30	8	22		
1817	64	44	55.0	10	3	1	3	2	2	5	5	N	31	16	15	1817	76	52	62.5	5	2	4	2	9	2	5	1	S	30	11	19		
1818	70	48	59.0	2	5	11	0	3	4	3	3	E	31	7	24	1818	77	58	67.5	4	0	7	0	1	3	7	8	NW	30	8	22		
1819	74	50	59.5	4	6	2	4	3	3	4	5	NE	31	16	15	1819	72	56	61.0	6	2	1	1	3	4	7	6	W	30	17	13		
1820	62	46	59.0	1	2	3	4	12	5	0	4	S	31	17	14	1820	78	51	63.0	7	2	4	2	0	2	1	12	NW	30	8	22		
1821	62	46	55.5	1	3	3	5	4	0	9	6	W	31	15	16	1821	67	50	59.5	4	5	5	8	1	0	6	1	SE	30	9	21		
1822	69	43	58.5	4	1	8	7	7	2	2	0	E	31	9	22	1822	78	58	66.0	4	0	3	8	4	2	6	3	SE	30	10	20		
1823	70	52	58.0	1	2	4	3	5	9	4	3	SW	31	13	18	1823	66	51	59.5	6	0	5	6	0	0	10	3	W	30	13	17		
1824	72	44	57.0	4	7	6	1	3	1	3	6	NE	31	15	16	1824	70	55	62.5	3	7	3	3	5	4	2	3	NE	30	13	17		
1825	67	48	60.0	4	4	3	4	7	3	2	4	S	31	16	15	1825	75	52	65.5	3	6	2	2	5	3	5	4	NE	30	13	17		
1826	71	47	59.0	1	21	1	1	0	0	2	5	NE	31	5	26	1826	80	58	68.5	1	4	7	9	1	0	0	8	SE	30	4	26		
1827	63	46	55.0	0	2	2	4	4	6	7	6	W	31	17	14	1827	70	53	60.0	1	6	0	3	1	3	4	12	NW	30	14	16		
For 21 years.		Max.	Min.	Mean	N	NE	E	SE	S	SW	W	NW	P. Wind	N° of days	Wet	Dry		Max.	Min.	Mean	N	NE	E	SE	S	SW	W	NW	P. Wind	N° of days	Wet	Dry	
		74	42	58.5	64	70	84	76	116	83	71	87	S	651	273	378				80	45	62.5	92	55	67	60	68	84	137	NW	630	197	433

[illegible]

SEPTEMBER.														OCTOBER.																	
Thermom.				Winds.							Weather.			Thermom.				Winds.							Weather.						
Years	Max.	Min.	Mean	N	NE	E	SE	S	SW	W	NW	P. Wind	N° of days	Wet	Dry	Max.	Min.	Mean	N	NE	E	SE	S	SW	W	NW	P. Wind	N° of days	Wet	Dry	
1807	68	44	57.0	6	3	0	0	3	7	0	11	NW	30	14	16	1807	68	42	56.5	3	5	0	0	9	6	4	4	s	31	11	20
1808	68	42	59.0	6	5	3	1	3	4	1	7	NW	30	15	15	1808	60	46	50.5	4	0	2	0	3	3	3	16	NW	31	17	14
1809	74	48	59.5	0	6	0	4	0	4	5	11	NW	30	14	16	1809	66	45	53.0	0	0	5	15	7	0	3	1	SE	31	3	28
1810	72	52	58.0	5	3	4	3	5	4	0	6	NW	30	5	25	1810	65	38	55.5	3	3	5	6	2	7	0	5	SW	31	13	18
1811	70	49	60.0	1	1	13	4	3	2	0	6	E	30	8	22	1811	64	40	58.5	0	1	0	1	10	15	1	3	SW	31	13	18
1812	72	54	61.5	8	1	6	1	3	6	4	3	E	30	9	21	1812	67	42	54.5	5	0	0	0	4	4	8	s	31	18	13	
1813	68	49	60.0	3	3	7	2	3	4	5	3	E	30	13	17	1813	68	37	53.5	3	0	6	5	5	7	0	5	SW	31	15	16
1814	68	50	61.0	0	1	15	2	4	3	1	4	E	30	12	18	1814	62	42	53.0	0	1	4	7	8	2	3	6	s	31	11	20
1815	74	52	63.0	0	6	5	2	4	8	4	1	SW	30	11	19	1815	65	44	55.0	0	4	2	4	6	6	2	7	NW	31	19	12
1816	68	49	60.0	2	3	3	1	3	4	7	7	W	30	12	18	1816	68	42	56.0	6	1	2	9	5	4	2	2	SE	31	17	14
1817	70	50	60.0	1	1	14	5	4	2	1	2	E	30	8	22	1817	58	40	50.0	7	5	9	2	5	0	0	6	E	31	10	21
1818	72	52	61.0	4	0	2	3	5	5	6	5	W	30	17	13	1818	65	49	59.0	1	1	8	4	9	5	2	1	s	31	18	13
1819	74	48	63.0	3	4	6	2	5	7	1	2	SW	30	14	16	1819	68	38	54.5	4	6	1	2	4	2	2	10	NW	31	15	16
1820	70	48	59.0	6	1	3	7	0	4	5	4	SE	30	13	17	1820	62	45	53.0	2	1	7	4	0	4	0	13	NW	31	17	14
1821	71	54	62.0	1	0	0	2	3	11	6	7	SE	30	16	14	1821	64	46	55.5	5	1	0	3	3	10	5	4	SW	31	18	13
1822	68	47	59.0	2	2	6	8	1	7	2	2	SE	30	9	21	1822	62	47	54.5	3	0	0	7	9	3	8	1	s	31	20	11
1823	67	50	59.0	1	0	5	3	2	11	6	W	30	13	17	1823	64	44	54.0	0	1	1	9	4	1	11	4	W	31	19	12	
1824	68	49	61.0	6	0	1	8	1	6	5	3	SE	30	18	12	1824	64	42	55.0	2	2	0	1	3	5	3	9	NW	31	26	5
1825	72	57	64.0	2	4	1	3	8	3	5	4	S	30	10	20	1825	65	46	58.0	5	2	1	1	5	1	9	7	W	31	12	19
1826	70	56	63.0	2	1	5	8	1	3	6	4	SE	30	7	23	1826	64	50	58.0	0	0	1	4	4	3	7	12	NW	31	7	24
1827	68	53	60.0	1	6	5	1	1	5	4	7	NW	30	13	17	1827	64	45	55.5	1	3	0	10	3	5	4	5	SE	31	22	9
For 21 years.	74	42	60.0	60	51	104	70	60	98	81	106	NW	630	251	379		Max.	Min.	Mean	N	NE	E	SE	S	SW	W	NW	P. Wind	N° of days	Wet	Dry
	 										

NOVEMBER.														DECEMBER.																	
Thermom.				Winds.							Weather.			Thermom.				Winds.							Weather.						
Years	Max.	Min.	Mean	N	NE	E	SE	S	SW	W	NW	P. Wind	N° of days	Wet	Dry	Years	Max.	Min.	Mean	N	NE	E	SE	S	SW	W	NW	P. Wind	N° of days	Wet	Dry
1807	57	30	42.0	1	5	2	2	0	5	5	10	NW	30	19	11	1807	50	29	43.5	3	0	0	8	3	3	5	9	NW	31	13	18
1808	56	40	49.0	0	1	6	7	2	3	6	5	SE	30	14	16	1808	54	27	42.5	2	6	4	7	1	1	5	5	SE	31	12	19
1809	54	28	46.0	1	7	6	4	0	1	1	10	NW	30	9	21	1809	54	34	45.0	2	0	0	0	0	8	5	16	NW	31	23	8
1810	57	36	46.0	0	6	0	1	1	10	3	9	SW	30	21	9	1810	53	32	45.0	1	2	4	1	1	8	3	11	NW	31	21	10
1811	58	38	49.0	7	3	2	0	0	7	0	11	NW	30	20	10	1811	54	29	44.0	4	5	0	2	0	13	0	7	SW	31	20	11
1812	58	32	49.0	0	6	3	5	7	4	0	5	S	30	14	16	1812	54	26	41.0	1	8	10	3	3	0	2	4	E	31	6	25
1813	62	40	48.5	0	1	5	4	6	2	4	8	NW	30	16	14	1813	54	30	46.5	3	9	4	5	2	1	5	2	NE	31	16	15
1814	56	36	47.0	1	5	1	2	8	2	2	9	NW	30	11	19	1814	58	34	48.0	2	1	2	2	5	6	7	6	W	31	20	11
1815	59	32	46.0	6	2	9	1	2	4	1	5	E	30	10	20	1815	52	22	44.0	2	3	1	0	0	11	4	10	SW	31	16	15
1816	55	36	46.0	6	6	2	3	1	3	1	8	NW	30	16	14	1816	54	30	44.0	1	2	2	2	5	3	11	5	W	31	23	8
1817	58	40	53.0	1	1	0	1	8	10	2	7	SW	30	11	19	1817	58	30	44.0	1	5	1	0	5	2	3	14	NW	31	24	7
1818	62	48	55.0	1	0	2	7	6	8	2	4	SW	30	20	10	1818	58	34	45.5	5	6	3	7	2	4	2	2	SE	31	10	21
1819	58	34	47.0	7	6	1	0	3	2	2	9	NW	30	21	9	1819	56	26	43.5	3	6	1	0	3	7	2	9	NW	31	20	11
1820	58	38	49.0	3	8	4	5	2	5	0	3	NE	30	18	12	1820	56	28	46.5	1	7	1	3	1	8	7	3	SW	31	11	20
1821	60	41	52.0	2	0	0	4	7	9	8	0	SW	30	21	9	1821	55	38	48.0	0	0	0	2	4	16	2	7	SW	31	29	2
1822	58	42	51.5	1	1	0	0	8	10	9	1	SW	30	22	8	1822	53	28	42.0	1	6	10	4	0	2	6	2	E	31	19	12
1823	58	42	50.5	1	1	12	0	7	5	2	2	E	30	10	20	1823	54	41	48.0	3	0	1	0	2	3	16	6	W	31	19	12
1824	58	44	52.0	0	0	0	4	1	8	6	11	NW	30	24	6	1824	57	39	50.5	3	0	1	3	0	7	12	5	W	31	28	3
1825	57	38	50.5	4	2	0	0	0	3	9	12	NW	30	25	5	1825	56	31	47.0	3	2	0	5	1	3	6	11	NW	31	16	15
1826	56	36	48.5	5	7	0	1	0	1	5	11	NW	30	13	17	1826	58	38	49.0	9	3	0	1	2	4	5	7	N	31	15	16
1827	56	40	52.0	0	4	0	3	4	0	12	7	W	30	21	9	1827	54	42	49.5	0	1	0	2	1	7	15	5	W	31	21	10
For 21 years.	Max.	Min.	Mean	N	NE	E	SE	S	SW	W	NW	P. Wind	N° of days	Wet	Dry	Max.	Min.	Mean	N	NE	E	SE	S	SW	W	NW	P. Wind	N° of days	Wet	Dry	
	62	28	49.0	47	72	55	54	73	102	80	147	NW	630	356	274			46.0	50	72	45	57	41	117	123	146	NW	651	383	268	

Months	Thermom.			Winds.							Weather.												
	Maxima	Minima	Media	N	NE	E	SE	S	SW	W	NW	Prevailing wind	Partial showers	Showery days	Hail showers	Snow showers	Snowy days	Misty days	Partial rain	Rainy days	Number of days	Wet days	Dry days
Jan.	56.19	43.0		56	95	66	79	60	70	100	125	NW	61	23	23	20	7	32	93	76	631	335	316
Feb.	58.26	45.5		31	62	47	63	58	127	106	99	SW	52	22	25	11	0	33	104	65	593	312	281
Mar.	66.28	47.0		50	94	79	68	57	93	91	119	NW	67	14	25	8	0	16	98	51	651	279	372
April	68.32	51.5		74	78	74	93	71	67	66	107	NW	68	18	27	0	0	15	64	35	630	227	403
May	74.42	58.5		64	70	84	76	116	83	71	87	S	72	11	7	0	0	21	125	37	651	273	378
June	80.45	62.5		92	55	67	67	60	68	84	137	NW	70	6	5	0	0	14	86	16	630	197	433
July	84.53	65.5		79	45	48	62	59	110	123	135	NW	65	10	1	0	0	30	98	40	651	244	407
Aug.	79.50	64.5		84	50	47	50	69	117	116	118	NW	88	14	0	0	0	22	110	33	651	267	384
Sept.	74.42	60.0		60	51	104	70	60	98	81	106	NW	86	16	5	0	0	13	97	34	630	251	379
Oct.	68.37	55.5		54	37	54	96	115	93	73	129	NW	79	38	17	1	0	16	100	70	651	321	330
Nov.	62.28	49.0		47	72	55	54	73	102	80	147	NW	86	30	22	3	0	26	107	82	630	356	274
Dec.	58.22	46.0		50	72	45	57	41	117	123	146	NW	84	35	43	13	0	16	100	92	651	383	268
For 21 years.	Maximum	Minimum	Medium	41	81	70	835	839	1,145	1,104	1,455	NW	878	237	200	56	7	254	1,182	631	7,670	3,445	4,225

at Penzance, in Cornwall, for 21 Years.

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Years.	January.				February.				March.				April.				May.				June.			
	Max.	Min.	Med.	Rain in inches	Max.	Min.	Med.	Rain in inches	Max.	Min.	Med.	Rain in inches	Max.	Min.	Med.	Rain in inches	Max.	Min.	Med.	Rain in inches	Max.	Min.	Med.	
1821	55	26	45,0	2,900	52	32	41,5	0,520	56	34	46,5	4,205	64	37	50,0	2,300	62	40	50,5	3,385	67	43	56,5	1,560
1822	50	34	44,0	2,42,5	54	36	45,5	2,440	58	39	49,5	2,800	65	36	48,0	2,380	69	42	55,5	1,340	78	52	64,0	2,240
1823	54	27	39,0	8,625	52	29	43,0	6,965	55	35	46,0	3,205	58	38	47,0	1,980	70	44	55,0	2,770	66	44	55,5	1,940
1824	54	30	44,5	2,00,5	52	34	46,0	3,280	62	32	45,0	5,740	60	36	45,0	2,600	72	38	53,0	3,95,5	70	47	57,0	4,660
1825	55	32	45,0	3,37,5	51	35	45,5	2,700	61	35	46,0	3,610	67	36	48,0	1,005	67	48	55,0	4,085	75	47	58,0	1,800
1826	55	26	41,0	3,07,5	56	36	47,0	5,295	66	34	46,5	2,310	61	33	50,5	1,110	71	38	54,0	0,600	80	40	62,0	0,660
1827	54	24	42,0	4,420	54	27	38,0	1,600	56	32	47,0	5,265	61	36	48,0	1,360	63	40	52,0	5,315	71	47	58,0	2,160
	Max.	Min.	Med.	Inches	Max.	Min.	Med.	Inches	Max.	Min.	Med.	Inches	Max.	Min.	Med.	Inches	Max.	Min.	Med.	Inches	Max.	Min.	Med.	Inches
	55	24	43,0	26,825	58	27	44,5	22,800	66	32	46,5	27,135	67	33	48,5	12,735	72	38	53,0	21,450	80	40	59,0	15,020
	July.				August.				September.				October.				November.				December.			
	Max.	Min.	Med.	Inches	Max.	Min.	Med.	Inches	Max.	Min.	Med.	Inches	Max.	Min.	Med.	Inches	Max.	Min.	Med.	Inches	Max.	Min.	Med.	Inches
1821	71	51	60,5	1,660	73	55	63,0	4,470	72	49	60,5	4,520	64	41	54,0	5,770	60	40	51,0	5,170	56	36	47,5	9,500
1822	71	52	61,0	9,070	77	48	61,0	2,200	68	45	59,0	1,865	63	43	53,5	5,315	58	39	50,0	7,255	54	28	40,5	2,545
1823	70	49	59,0	3,030	68	48	59,5	7,085	67	46	57,5	3,645	64	37	51,5	8,210	58	38	48,5	3,705	55	40	46,5	6,295
1824	71	50	61,0	3,180	72	49	61,0	2,600	68	40	51,5	4,165	64	39	54,0	5,965	58	36	50,5	6,910	57	32	48,0	6,470
1825	84	49	63,0	0,310	73	52	62,0	3,140	72	46	58,5	2,730	65	38	54,0	5,090	57	35	47,5	5,820	56	29	45,5	5,285
1826	75	52	64,0	1,240	76	52	63,0	2,115	70	46	60,0	4,315	65	43	56,0	2,840	56	34	46,0	4,280	58	36	50,0	4,400
1827	73	52	61,5	2,250	70	50	59,0	2,865	68	48	58,0	2,820	63	42	54,5	6,105	56	33	50,5	3,165	55	40	49,0	7,580
	Max.	Min.	Med.	Inches	Max.	Min.	Med.	Inches	Max.	Min.	Med.	Inches	Max.	Min.	Med.	Inches	Max.	Min.	Med.	Inches	Max.	Min.	Med.	Inches
	84	49	61,0	20,740	77	48	61,5	24,475	72	40	58,0	24,060	65	37	54,5	39,295	60	33	49,0	36,305	58	28	46,5	42,075

182 *Meteorological Results made at Penzance, in Cornwall, for 21 Years.*

Annual Results for 7 Years.

Months	Register Thermometer			Rain in inches	Years	Register Thermometer			Inches of rain fallen in each year	Wet days	Dry days
	Max.	Min.	Med.			Max.	Min.	Med.			
Jan.	55	24	43,0	26,825	1821	73	26	52,5	46,020	186	179
Feb.	58	27	44,5	22,800	1822	78	28	53,0	41,875	172	193
Mar.	66	32	46,5	27,135	1823	70	27	51,0	57,455	196	169
Apr.	67	33	48,5	12,735	1824	72	30	51,5	51,470	225	141
May	72	38	54,0	21,450	1825	84	29	52,0	38,950	161	204
June	80	40	59,0	15,020	1826	80	26	53,5	32,240	114	251
July	84	49	61,0	20,740	1827	73	24	51,5	44,905	188	177
Aug.	77	48	61,5	24,475	..	..	..	..	..	..	..
Sept.	72	40	58,0	24,060	..	..	..	..	..	..	..
Oct.	65	37	54,5	39,295	..	..	..	..	..	..	..
Nov.	60	33	49,0	36,305	..	..	..	..	..	..	..
Dec.	58	28	46,5	42,075	..	..	..	..	..	..	..
	Max. of 7 years	Min. of 7 years	Med. of 7 years	Inches of rain fallen in 7 years		Med. of the Max.	Med. of the Min.	Med. of 7 years	Average quantity of rain for 7 years	Average wet days for 7 years	Average dry days for 7 years
	84	24	52,0	312,915		75,5	27,1	52,0	44,702	177,3	187,5

The thermometers I use are two double registers,—one made by Newman, and the other by Cary,—which are placed in a north-eastern aspect, in such a manner as not to be acted upon by reflected heat.

My rain-gauge is placed in my garden at the level of the ground, entirely free from the influence of buildings or trees. The gauge is exactly six inches diameter at the edge of the brass rim at the top. The basin is made of pewter $2\frac{1}{2}$ inches deep. The tube attached to the basin is three inches long, tapered to about $\frac{1}{8}$ th of an inch at the point. The measure is a glass cylinder graduated to a quarter of an inch of water, or $1784\frac{5}{16}$ grains, nearly 1784·796 grains.

Penzance, Jan. 18th, 1828.

EDWARD C. GIDDY.

* Dry days are those on which no fall whatever takes place,—not the slightest shower.

XXIX. *Description*