U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JANUARY. 1897.

MARYLAND AND DELAWARE SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

IN COOPERATION WITH THE

MARYLAND STATE WEATHER SERVICE.

WILLIS L. MOORE, , CHIEF OF BUREAU.

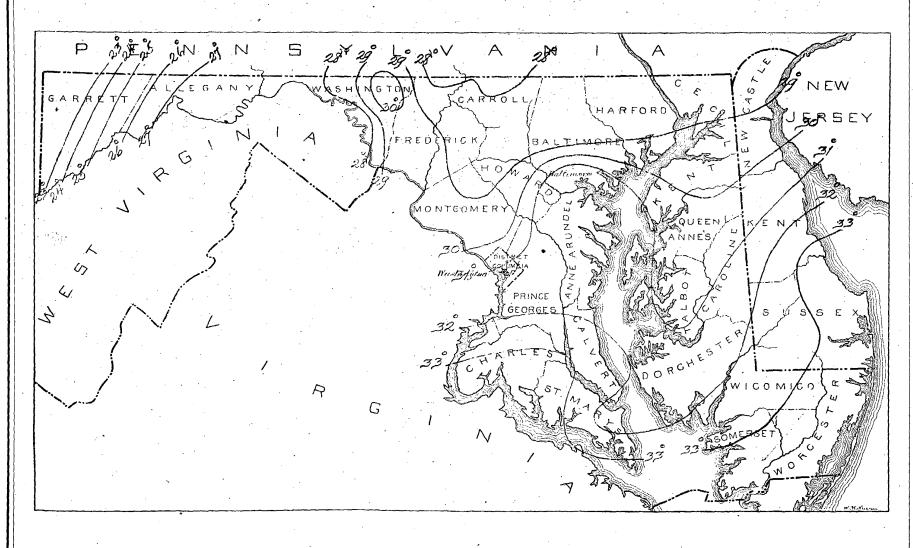
ву

GEORGE E. HUNT,

LOCAL FORECAST OFFICIAL AND SECTION DIRECTOR, JOHNS HOPKINS UNIVERSITY, BALTIMORE, MD.



MONTHLY MEAN ISOTHERMS, JANUARY, 1897.



U. S. DEPARTMENT OF AGRICULTURE,

AND

OF THE

WEATHER BUREAU.

Central Office, Washington, D. C. WILLIS L. MOORE, Chief.

IN COOPERATION WITH THE

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GEORGE E. HUNT, Section Director,

BALTIMORE, MD.

Vol. II.

BALTIMORE, MD.

No. 1.

IN THE OCEAN'S DEPTHS.

THE ENORMOUS PRESSURE EXERTED BY THE WATER IN THE DEEPEST PLACES.

The temperature at the bottom of the ocean is nearly down to freezing point, and sometimes actually below it. There is a total absence of light, as far as sunlight is concerned, and there is an enormous pressure, reckoned at about one ton to the square inch in every 1,000 fathoms, which is 160 times greater than that of the atmosphere we live in. At 2,500 fathoms the pressure is thirty times more powerful than the steam pressure of a locomotive when drawing a train. As late as 1880 a leading zoologist explained the existence of deep-sea animals at such depths by assuming that their bodies were composed of solids and liquids of great density, and contained no air. This, however, is not the case with deep-sea fish, which are provided with air-inflated swimming bladders. If one of these fish, in full chase after its prey, happens to ascend beyond a centain level, its bladder becomes distended with the decreased pressure, and carries it, in spite of all its efforts, still higher in its course. In fact, members of this unfortunate class are liable to become victims to the unusual accident of falling upward, and no doubt meet with a violent death soon after leaving their accustomed level, and long before their bodies reach the surface in a distorted and unnatural state. Even ground sharks, brought up from a depth of no more than 500 fathoms, expire before they gain the surface.

The fauna of the deep sea—with a few exceptions hitherto only known as fossils—are new and specially modified forms of families and genera habitating shallow waters in modern times, and have been driven down to the depths of the ocean by their more powerful rivals in the battle of life, much as the ancient Britons were compelled to withdraw to the barren and inaccessible fastnesses of Wales. Some of their organs have undergone considerable modification in correspondence to the changed conditions of their new habitats. Thus down to 900 fathoms their eyes have generally become enlarged, to there. After 1,000 fathoms these organs are either still furdisappear altogether and are replaced by enormously long found, by inspection of gas plants near London, that in foggy

feelers. The only light at great depths which would enable large eyes to be of any service is the phosphorescence of deep sea animals. We know that at the surface this light is often very powerful, and Sir Wyville Thomson has recorded one occasion on which the sea at night was a "perfect blaze of phosphorescence, so strong that lights and shadows were thrown on the sails and it was easy to read the smallest print." It is thought possible by several naturalists that certain portions of the sea bottom may be as brilliantly illumined by this sort of light as the streets of a European city after sunset. Some deep-sea fish have two parallel rows of small circular phosphorescent organs running along the whole length of their bodies, and as they glide through the dark waters of the profound abysses they must look like model mail ships with rows of shining portholes.—From Nineteenth Century.

WHAT FOGS ARE.

A convenient though not strictly scientific classification of fog types is, sea or coast fog, valley or hill fog, and town or dust fog. The last named has been given the euphonic designation nebula pulverea. It is an artificial rather than natural condition. The Rev. Clement Ley, who gave a large portion of his life to cloud study, says, in his book on "Cloudland," that in some parts of the the globe nebula pulverea is occasionally so thick as to obscure almost totally the sunlight, and in Abyssinia has led to the tradition that the plague of darkness in Egypt was in reality an unusual "dust fog." The amount of moisture varies so much in different fogs that the terms "dry" and "wet" are used. the scientific name of the latter being nebula stillans. In wet fog the particles are apt to be larger than in dry fog. A still further division, due, we believe, to Mr. Robert H. Scott, is anticyclonic fog, or fog in which no rain falls, while the temperature, generally low in the morning, continues to rise during the day; and cyclonic fog, in which rain does occur, while the temperature remains about stationary. Before leaving these town fogs we may notice the part played by them in affecting the health of the community. Mr. Scott has given figures showing the mortality from diseases of the respiratory system for some of the more memorable fogs of London. We have room for but one of the many periods he gives. From January 26 to February 6, 1880, London experienced eight days of fog. The average temperature at 8 o'clock in the morning was 26° Fahrenheit. The total death rate was 48.1 per thousand, a rate unequalled since the last cholera epidemic, and there were no less than 1,557 deaths from diseases of the respiratory organs. It is not always an easy matter to trace direct relationship even where the statistics are carefully gathered, but there can be little doubt that these town fogs are unwholesome. Indirectly they affect the make the best of the faint light which may possibly penetrate health of the community in a way few would imagine. A town fog is an excellent trap for noxious gases, holding them ther enlarged, or so greatly reduced that in some species they close to the ground. Dr. R. Barnes, studying this question.

weather the escaping gas was held in concentrated form in and near the works. There are other sources of contamination in foul emanations from the ground, sewers, etc. On clear, bright days, even if no wind is blowing, the law of diffusion of gases acts more effectively, and helps disperse the gases.—Harper's Magazine.

CLIMATOLOGY OF THE MONTH.

The State records of temperature and moisture were both short of the normal figures for January. The precipitation was pretty well distributed throughout the month, although the greater portion fell during the second decade.

The precipitation for November, 1896, was about normal, as will be remembered, but the light falls of December and the deficiency of the present month, have resulted in a shortage of the water supply in a few sections of the State.

No snowfall of consequence occurred prior to the 13th, but since that date the measured amounts have sufficed to give total monthly depths ranging from four inches and upwards in the eastern sections to twenty and twenty-eight inches in the mountain districts of Western Maryland.

Temperatures were for the most part above the normal until the 24th, when a cold wave period began and continued to the close of the month. The low temperatures of this period gave such marked departures as to overcome the excess of heat previously accumulated, and a monthly average temperature of less than normal was the result.

Winter grain was protected from damage by an ample covering of snow on the ground during the extreme cold weather.

ATMOSPHERIC PRESSURE—IN INCHES AND HUNDREDTHS.

Monthly mean at Washington, D. C., 30.20; at Baltimore, 30.17; average, 30.18; highest, 30.75 at Washington on the 31st; lowest, 29.66 at Baltimore, on the 22d.

TEMPERATURE-IN DEGREES FAHRENHEIT.

The monthly mean (entire territory), 29°.5, was 2°.5 below the normal.

The highest monthly mean was 37°.0, at Annapolis.

The lowest monthly mean was 22°.6, at Boettcherville.

The highest temperature recorded during the month was 66°, at Jewell, on the 4th.

The lowest temperature recorded during the month was -12° at Deer Park, on the 13th.

The greatest local monthly range was 71°, at Sunnyside.

The least local monthly range was 44°, at Annapolis.

The greatest daily range was 64°, at Sunnyside, on the 18th.

The least daily range was 0°, at Cumberland, on the 12th and 19th, and at Sunnyside, on the 24th.

PRECIPITATION-IN INCHES AND HUNDREDTHS.

The monthly average (entire territory) 1.95, was 1.33 below the normal.

The greatest amount was 3.97, at Grantsville.

The least amount was 0.81, at Milford, Del.

The greatest amount in twenty-four hours was 1.40, at Jewell, on the 20th, and at Newark, Del., on the 20th-21st.

The average number of rainy days, 7.

WIND:

The prevailing direction was from the northwest.

The total movement was 4,559 miles, at Baltimore, and 6,816 miles, at Washington, D. C.

The maximum wind velocity was 40 miles per hour from the northwest, at Washington, D. C., on the 28th.

MISCELLANEOUS PHENOMENA.

Thunderstorms.—None reported during the month.

Hail.—At Bachman's Valley, on the 17th and 20th; at New Market, on the 17th; at Seaford, Del., on the 14th and 15th; at Solomon's, on the 15th; at Taneytown, on the 17th, fram 9 a. m. to 10 a. m.; at Woodstock College, on the 17th and 20th.

Sleet.—At Annapolis, on the 28th, 29th, 30th, and 31st; at Green Spring Furnace, on the 20th; at Mt. St. Mary's College, on the 17th and 20th; at Sharpsburg, on the 17th and 20th; at Sunnyside, on the 14th and 15th; at Woodstock College, on the 20th.

Frosts, light.—At Annapolis, on the 1st, 8th, and 9th; at Taneytown, on the 1st, 8th, and 9th; at Woodstock College, on the 1st, 6th, 7th, and 20th.

Frosts, killing.—At Cherryfields, on the 1st and 11th; at Mardela Springs, on the 1st, 8th, 9th, 10th, 11th, 13th, 20th, and 31st; at Mt. St. Mary's College, on the 7th, 8th, 9th, 10th, 11th, and 12th; at Princess Anne, on the 7th, 8th, 9th, 11th, and 31st; at Sharpsburg, on the 8th, 9th, 11th, and 31st; at Solomon's, on the 1st, 9th, and 10th; at Woodstock College, on the 8th, 9th, 10th, and 30th.

Fogs.—At Baltimore, on the 3d; at Bachman's Valley, on the 2d; at Jewell, on the 2d, 3d, 4th, 15th, and 16th; at Milford, Del., on the 15th; at Millsboro, Del., on the 2d and 15th; at New Market, on the 16th and 17th; at Princess Anne, on the 2d, 15th, and 16th.

Auroras.—At Baltlmore, on the 23d, at 7 p. m.; at Solomon's, on the 23d.

Halos, lunar.—At Cumberland, on the 16th; at Green Spring Furnace, on the 8th.

Coronas, lunar.—At Millsboro, Del., on the 7th, and 9th.

REMARKS BY OBSERVERS.

Charlotte Hall, Prof. J. F. Coad.—Blizzard on the 27th and 28th; snow drifted very much.

Cherryfields, Col. J. Edwin Coad.—St. Marys River, two miles wide, frozen over on the morning of the 31st.

Frederick, Mr. McClintock Young.—The high winds of the 28th evaperated nearly all the snowfall of the day before, 4.5 inches.

Climatological data for Maryland and Delaware, January, 1897.

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		-	rd,	Temp	eratur	e, in d	egre	es Fa	hrer	heit.	Pr	ecipitat	ion, in	inche	s.		Sky.		doi	
Stations.	Counties.	Elevation, feet.	Length of record,	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.	Prevailing direction of wind.	Observers.
WESTERN MARYLAND. Boettcherville * 2	do	650 2,457 2,100 500 550 420 2,440	7 38 27 6 2 4 5 6 3 5 3	22.6 31.6 27.2 27.4 22.7 28.2 30.4 27.7 22.8 25.9 26.6	-5.5 -3.2 -1.5 +0.5	56 64 60 56 63 62 62 60 59	4 4 4 4 5 3 4 4 3 4	- 6 3 3. -12 - 6 - 9 4 4 3 -11 - 1	31 25 25 13 31 25 26 31 25 24	24 43 28 38 45 27 23 30 64 30	1.90 1.80 1.76 2.80 2.02 3.97 1.96 0.87 1.31 3.07 1.88	-0.95 -0.57 -0.26 -0.92	0.82 0.32 0.49 0.63	10.0 7.5 8.0 20.0 9.0 28.5 5.0 5.5 4.7 19.0 7.5	7 6 3 5 4 12 7 5 5 15 7	11 4 15 10 13 11	6 7 10 11 8 3	11 20 6 10 10	nw.	F. F. Brown. Shriver & Rizer. Webster Bruce. S. P. Specht. N. T. Downs. J. S. Miller. E. G. Kinsell. Prof. C. E. Carl. R. L. Hiberger. J. G. Knauer. Prof. O. H. Bruce.
NORTHERN-CENTRAL MD. Bachman's Valley	Montgoinery Baltimore Frederick do Howard Carroll Harford Carroll Baltimore	123 300 450 250 150 152 545 720 550 300	28	27.0 31.4 29.4 28.6 29.6 29.6 28.8 28.0 28.3 31.4 28.0 28.6 28.3 29.2	-2.9 +0.9 -1.7 -2.0 -0.5 -2.4 -1.6	60 60 65 60 64 63 61 61 60 62 59 63 63 60 61	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	16 56 56 54 348 47 24	31 299 26 25 26 26 26 26 26 26 25 25 25 31	26 21 29 30 40 28 24 23 30 24 28 39	2. 20 2. 05 1. 93 2. 19 1. 39 1. 21 1. 81 2. 26 1. 66 1. 93 1. 84 2. 08 2. 06 1. 78	1, 15 1, 75 1, 23 1, 86 2, c9 0, 99 1, 91 1, 49	1.15 0.79 1.00 1.00 0.72 0.84 0.72 1.03	6.0 4.7 6.0 5.5 6.8 7.1 5.0 7.0 7.0 7.2 5.5	6 13 5 8 6 2 5 6 7 5	18 10 11 7 6 15 9 13 12 15 18 15	38 38 18 17 5 9 11 2 3 5 10	17 6 8 11 13 7 17 13 8 6	nw. w. nw. nw. nw. nw. nw. nw. nw. nw.	J. M. Myers. U.S. Weather Bureau. Prof. A. F. Galbreath. G. G. Curtis, A. M. McClintock Young. Capt. D. D. Gaillard. W. L. Woods. S. H. Moore. J. A. Mitchell, Ph. D. H. H. Hopkins, M. D. H. M. Chapuis, S. S. Prof. H. Meier. H. A. Wroth. Prof. Roland Watts. T. J. A. Freeman, S. J.
SOUTHERN MARYLAND. Annapolis. Charlotte Hall School. Cherryfields *2. Distributing Reservoir *3. Jewell Laurel Md. Agricultural College. Receiving Reservoir *3 Solomon's Washington Average.	St. Mary'sdo Dist. of Columbia. Anne Arundel Prince George's do Dist. of Columbia. Calvert Dist. of Columbia.		24 4 4 7 10 3 6 7 6 27	37.0 33.2 31.8 30.3 31.2 27.5 30.0 33.2 31.0	-2.7 -4.0 -7.0 -2.2 -3.0 -5.1	54. 64 51 63 66 64 54 63 56 64	4 4 3 4 4 10 4 10 4	10 54 96 0 -2 8 10 8	26 29 25 25 26 30 25 26 26 26	32 30 26 23 30	1.75 1.92 1.11 2.19 2.05 1.76 1.16 1.68 1.98	-1.83 -1.03 -2.23 -2.26 -1.43 -1.38	0.60 0.87 1.40	5.0 6.5 8.8 4.0 5.0 5.0	4 6 3. 7 3 6 3. 8 10 6	17 13 73 18 12 15	1 1 10	9 13 13	nw. nw. nw. nw.	J. E. Abbott. J. F. Coad. Col. J. E. Coad. Captain Gaillard. J. Plummer. Dr. T. M. Baldwin. Prof. J. H. Patterson. Captain Gaillard. W. H. Marsh, M. D. U.S. Weather Bureau.
EASTERN MARYLAND. Chestertown Denton Easton Mardela Springs Pocomoke City Princess Anne Average DELAWARE.	Caroline Talbot Wicomico Worcester Somerset	80 42 35 25 37 20	13 8 8 10 4 23	30.0 30.9 32.0 32.2 31.3	-2.7 -2.1 -3.0 -5.9	63 65 65 64	4 4	8 8 6	26 31 31	32 36 29 34	2.40 2.04 2.48 1.65	-0.79 -1.14 -0.73 -0.89		7.5 5.5 9.8 9.0	9 11 8 8 8	16 19 11 	6		n. nw. nw. nw.	Hon. M. de K. Smith. F. C. Ramsdell. Henry Shreve. A. E. Acworth. R. M. Stevenson. J. R. Stewart.
Dover Kirkwood*t Milford Millsboro Newark (Delaware Coll.) Seaford	Newcastle Kent Sussex Newcastle Sussex		1 18 5 4 7	33.0 33.0 28.6 32.2	-3.2 +1.2 -0.4	63 64 . 56 63	4 5 4 3	9 3, 6 8	26 31 26 26 26	44 31 23 27	0.81 2.69 2.35 2.16	-2.41 -0.64 -1.44	0.43 0.99 1.40 1.20	7.8 13.0 8.0 12.5	2 9 7 6	24 16 8	0 8 15	10 7 8	nw. n. nw.	William Carnagy. J. Y. Foulk. Rev. L. W. Wells. Prof. W. H. Bishop. H. L. Wallace.
Average General average				31.7	-0.8 -2.5					===	2.00	—F. 50 —I. 33		10.3	6	15	8	-	nw.	

^{*} Extremes of temperature from observed readings of dry thermometer. I Mean of 7 a.m. + 2 p.m. + 9 p.m. + 9 p.m. + 4. 2 Mean of 8 a.m. + 8 p.m. + 2. 3 Mean of 7 a.m. + 2 p.m. + 2.

STRIGUES -			I	[axi	mu	m a	nd:	min	imu	m te	emp	ratu	res	for	Мa	ryla	ınd	and	De	law	are,	Jan	uar	y, 18	397.	•										
Stations.		1,	2	. 3	3.	4.	5.	6.	7.	8.	9.	10.	11	. 12	. 1	13. 1	14.	15.	16.	17.	18.	19.	20.	21.	-22	. 23.	24.	25.	26	. 27.	28.	. 29.	30.	31.	Mo	nthly ean.
Roset Commerciant (1) 1	Stations.	Max.	Max.	Min. Max.	Min.	Min.	Max.	Max.	Max.	Max.	Max	Max.	Max.	Min.	Min.	Min.	Min.	Max.	Max. Min.	Max.	Max. Min.	Max.	Max.	Max.	Max.	Min.	Max.	Max.	Max.	Min. Max.	Max.	Max.	Max.	Max.	-	
Schrimm's Valley	WESTERN MARYLAND.	_ - -				1-1-	-		- -	- -					- -			- -		- -	1-		17	- -	1-1	_ - -	1-1-	11	-			- - -	- - -		-	
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Schrimm's Valley	Cumberland (1)	45 40	0 54	30 62	38 6	4 47	47 29	31 2	2 39 2	33 2	9 52,3	I 59 30	43	31 36	17 31	1 15 36	30	41 34	47 37	48 38	47 29	33 2	2 38,2	2 39 3	7 45	29 28 1	6 29	9 12	3 19	6 22 13	13	5 23 1	1 27 1	1 52 9	38.	
Schrimm's Valley	Deer Park	45 5	0	28	30 .	. 36	6	34 2	5 1	31 1	19 4/	9 . 1	3 40	20 30	14	1 1	18	34 25	42 34	43 33	37 34	12312	3 40 1	8 2	2	24	7 20 1 6 1	4 10	1	1		5 22 -	5 20 1	3 31	34.	
Schrimm's Valley	Flintstone	53 ž	3 55	25 56	30 5	9 47	60 28	33 1	5 33 1	36 3	2 44	6 46 2	5 38	18 34	20 2.	4 4 39	20	37 23	42 28	43 27	44 28	34 2	0 29 1	1 40 2	8 44	28 43 1	5 34 1	6 5-	1 17	1 21	20	4 27	7 26 I	2 32 -6	37.	
Schrimm's Valley	Grantsville	52 2	7 53	33 56	36 5	O 39	53 16	16	7 36 1	2 40 1	2 35	0 40 2	5 27	22 22	14 2	1 -7 28	8 18	37 25	47 36	47 30	27 20	22 1	2 30	3 34 2	5 44	24 17	6 20	5 1 -	9 12	-8 21 -	5-	6 22 -	2 22	7 37 -8	31.	4 14.0
Schrimm's Valley	Hagerstown	. 52 3	4 51	29 55	35	2 50	47 33 60 37	30 I	7 34 2	/ 34 / 2 35 1	9 44	2 46 2	2 40	20 32	24 26	6 15 20	0 24	35 27	40 24	39 30	45 3	3 32 2	3 40 2	5 44 2 0.43 3	5 45	20 40 1	9 30 1	9 14	4 20	4 24 1	20	0 25 1	9 29 °	5 31 4	36.	
Schrimm's Valley	Sharpsburg	43 3	0.47	33 53	33	2 32	39 37	30 1	8 33 1	9 35	18 43	0 49 3	2 41	23 31	21 2.	4 14 2	8 22	33 26	39 25	36 28	35 26	5 29 2	3 32 2	0 44 3	0 44	30 29 2	0 31 2	0 14	5 19	4 22 I	15	8 26	8 29 1	2 30	34.	
Schrimm's Valley	Sunnyside	50 2	8 51	27 60	41 5	66 46	31 20	14	5 33	7 39	14 41	4 41 2	7 29	25 22	14 5	5 -9 2	5 18	32 25	41 27	47 3°	27 18	3 25 1	2 39	7 35 2	5 37	27 27	4 15 1	5 0	§ 10	§ 20 -	o¦-	-8 11 -	4 21	5 38 -4	₽ 3ī.	4 14.2
Schrimm's Valley	westernport	45 3.	3'48	32 58	34 5	59 30	42 15	25 1	5 34 1	7 35	21 40	2 40 2	3 37	21 31	612	4 14 2	9 22	35 27	14 30	47 31	30 22	2 29 1	1 40 2	0 39 3	1 49	15 29 1	5 29 -	1 9-	1 15	1 25 :	10	I 22	-11	100 4	1	7 17.1
Amapolis	NORTHERN-CENTRAL MARYLAND.	200				50 16			. ا . ا ه	100										١ ا																
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Amapolis	Darlington Academy	43 2	8 44	32 60	31	55 48	55 39	31 2	0 34 2	0 36	20 40	9 48 3	0 44	24 31	21 2	6 13 2	8 22	33 28	38 28	42 28	41 28	3 29 2	3 36 1	5 46	6 45	31 38 2	3 27 1	2 17	6 24	5 20 1	16.1	3 27 1	0 30 1	2 34 12	36.	4 22.3
Amapolis	Fallston School*1	45 2	9,43	34 48	30	50 48	44 36	30 2	3 31 1	8 35	21 38	4 48 2	941	28 31	21 2	4 14 29	9 25	32 28	41 28	41 32	41 30	25 1	9 34 1	7 43	37 42	31 27 2	3 31 1	7 16	6 23	6 20 1	16	[0]25]1	0 28 1	4 31 19		.]
Amapolis	Frederick	44 3	3 49	34 53	3 38 9	34 47	45 39	30 1	9 35 1	9 38	20 46	9 59 2	9 41	24 31	23 2	6 15 3	1 24	35 28	44 22	36 22	40 30	5 30 2	6 28 1	8 44 2	6 47	33 30 2	0 33 2	5 17	7 22	5 25 1	16	8 28 1	1 31 1	6 34 9	36.	5 22.7
Amapolis	Johns Hopkins Hospital	. 44 2	9 44	31 40	333	51 38	44 41	30 2	0 34 1	9 35	21 42	2 51 2	3 44	27 35	25 2	7 17 3	1 18	33 25	34 22	48 20	40 30	9 35 2 2 26 1	0 44 1	7 50 1	0 40	34 32 2	4 33 2 2 33 T	5 17	7 24	5 21	161	11 27 1	0 32	2 26 1	35.	4 23.7
Amapolis	McDonogh School			51	44	51 47	45 35	30 2	3 31 1	9 34	22 41	23	. 42	29 35	23 3	5 14		35 22	37 26	41 28	45 3	ř[[.	([])	. 45	7 44	33	. 32 1	8 21	6 21	4 17 1	22	9 24	9 28 1	3 30 1	35.	
Amapolis	Mt. St. Mary's College	37 3	3 42	33 53	3 32 6	50 51	56 33	35 1	1 31 1	2 35	20 41	9 47 3	T 41	27 34	21 3	5 13 2	7 21	30 26	35 23	36 29	45,29	30 1	7 30 1	5 43 2	9 43	28 40 1	8 28 1	4 18	4 20	3 20 [16	0 25	9 30 1	2 32 12	35.	3 20.8
Amapolis	New Market	41 3	4 40	32 55	38	02 48	40 37	28 I	8 31 1	7 35	17 42	9 47 3	1 41	26 30	24 2	5 13 29	9 23	33 27	38 22	37 30	39 3	4 28 2	4 31	7 43 3	8 45	32 28 2	0 30 2	4 14	5 20	4 22 1	[5]	7 24	9 29 1	2 32 10	34.	
Amapolis	Taneytown (Milton Academy)	39 3	0 40	30 57	136	3 47	40 30 45 36	37 2	8 31 1	8 37	17 45	8 46 2	3 40 I 40	19 32	21 2	4 12 3	0 16	32 24	36 26	40 29	42 3	1 20 2	7 35 1	7 42 2	3 45	30 30 2	0 31 2	1 15	4 23	4 21	17	0 27 1	0 31 1	5 30 1	37	
Amapolis	Van Bibber	41 3	0 44	33 49	39	53 40	45 25	33 2	0 32 2	0 36	20 36	20 48 2	6 42	25 23	13 2	5 15 3	0 26	34 29	40 26	45 34	43.2	5 40 1	6 44 2	0 45 2	4 44	25 29 2	4 32	8 16	7 24	7 21 1	17	1 27 1	3 20 I	4 33 1	1 35.	
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^{*} Extremes of temperature from observed readings of dry thermometer.

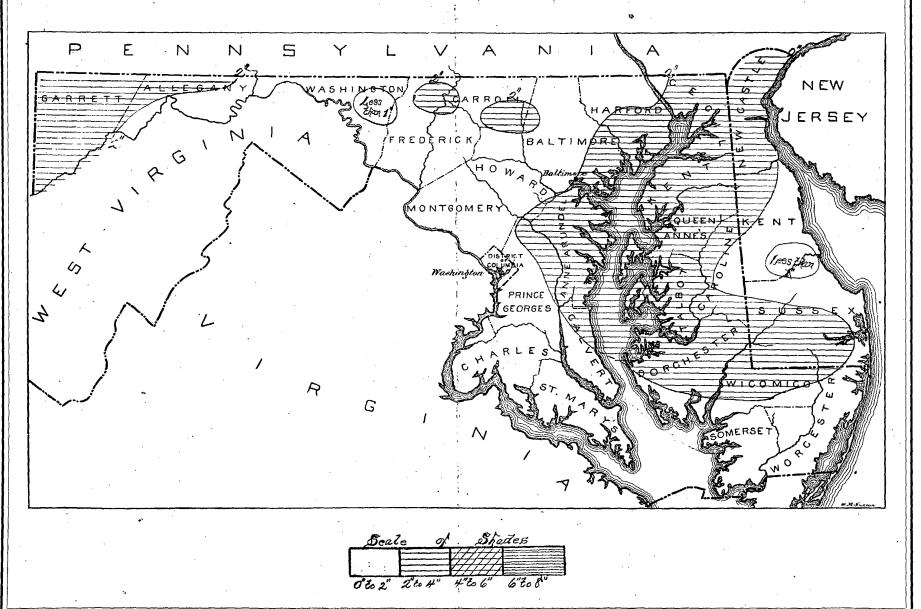
¹ Observations taken at 7 a.m., 2 p.m., and 9 p.m.

² Observations taken at 8 a. m. and 8 p. m. 3 Observations taken at 7 a. m. and 2 p. m.

^{† 12} degrees below zero. ‡ 10 degrees below zero.

^{§ 11} degrees below zero.

TOTAL PRECIPITATION, JANUARY, 1897.



Daily precipitation for Maryland and Delaware, January, 1897.

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[†]Trace, when precipitation is less than o.or inch.