

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU,

CO-OPERATING WITH THE

MARYLAND STATE WEATHER SERVICE

Established by an Act of the General Assembly of the State of Maryland, 1892, and Maintained in Connection with

The Johns Hopkins University and the Maryland Agricultural College. CENTRAL OFFICE, JOHNS HOPKINS UNIVERSITY, BALTIMORE, MD.

PROF. WM. B. CLARK,
JOHNS HOPKINS UNIVERSITY,
Director.

PROF. MILTON WHITNEY, MARYLAND AGRICULTURAL COLLEGE, Secretary and Treasurer. DR. C. P. CRONK, U. S. WEATHER BUREAU, Meteorologist in Charge.

Vol. IV, No. 5.

MONTHLY REPORT.

SEPTEMBER, 1894.

American Association of State Weather Services.

The following notification has been received from the Secretary of the American Association of State Weather Services:

"At the 3rd annual meeting of the American Association of State Weather Services, held at Brooklyn, N. Y., August 17th, 1894, the following named officers were elected for the ensuing year: Major H. H. C. Dunwoody, President; Captain T. F. Townsend (Pa.), 1st Vice-President; Mr. S. W. Glenn (S. Dak.), 2nd Vice-President; Mr. James Berry, Secretary and Treasurer; Mr. J. Warren Smith (New England), Mr. E. W. McGann (N. J.), and Dr. C. P. Cronk (Md.), Executive Committee.

Although the number of state weather services represented at the meeting was somewhat smaller than on previous occasions, the Convention was well attended and in every way a success.

It is hoped that it will be possible to secure the printing of a report of the proceedings in the Monthly Weather Review for August, as was done last year."

MISCELLANEOUS NOTES.

Mr. McClintock Young, of Frederick, gives the following valuable suggestions for preparing meteorological forms:

"I think if some instructions were given in the use of the copying tablet, clean and neater copies would be made. I find, by using a 6-H. Faber pencil sharpened to a tolerably fine point, and putting a piece of hard card-board under

the last sheet to be copied, good results can be obtained. Rubber may be used to erase, if necessary, and if it is used, the black sheets should first be removed."

Mr. Ben. F. Taylor, displayman at Bradshaw, Maryland, writes as follows concerning his suc-

cess with the logotype system:

"Since commencing the distribution of weather reports, I have enlisted both the telegraph operator and postmaster in the work, and find but little trouble. The cards are all printed and ready for mailing fifteen minutes after receipt of telegram, and there has not been a break in getting them promptly on their way."

Review of the Month-August.

WEATHER.

Temperature (degrees).—Monthly mean (for entire territory covered), 71.5, being 2.8 below the normal; highest monthly mean, 75.8, at Solomon's; lowest monthly mean, 63.8. at Oakland; highest temperature, 97, at Darlington, on the 3rd; lowest temperature, 39, at Sunnyside, on the 5th and 22nd; mean monthly range, 39.7; greatest local monthly range, 48, at Sunnyside; least local monthly range, 29, at Distributing Reservoir, D. C.; monthly mean maximum, 81.5; monthly mean minimum, 62.0.

It will be seen that the mean temperature of the month did not vary greatly from the normal; and that there were no periods of excessive heat is evidenced by the fact that 97° was the highest temperature recorded, and this maximum was

reported from one station only.

The map, page 33, shows the variation in mean temperature produced by difference of latitude. bodies of water, mountain ranges, valleys, etc. One of the coldest sections east of the Alleghanies is on the northern border of Maryland, between the eastern slope of the Blue Ridge and the line dividing the State from Delaware. Slightly colder is a small, circular section in Howard county, midway between the Catoctin mountains and the Chesapeake bay. Of course, the lowest means of all are to be found in Garrett county, at the western extreme of Maryland, and of these, Oakland furnishes the minimum, 63.8°.

A comparatively cool area, having a mean between 71° and 72°, extends from southern Delaware southwest to the lower border of Maryland. Directly west of the southern half of this area, but on the west side of the Bay, we find the warmest section, which includes portions of Calvert and St. Mary's counties. The city of Wilmington gives almost as high a temperature, however, as can be found in this last mentioned

Precipitation (in inches).—Average, 2.45, being 1.42 below the normal; greatest amount, 5.78, at Wilmington, Del.; least amount, 0.93, at

Annapolis.

There was not much more than half the usual rainfall. Some sections, to be sure, received the usual quota, and some localities more, but considering the entire area covered by the observations, the month must be rated as very dry. The table of daily precipitation shows that the distribution of the rainfall throughout the month was tolerably even, but the showers were usually light.

The heaviest rains occurred on the 2nd, 12th, 13th, 20th, and 26th, but even on these dates some localities received no rain. The storms to which the above rainy days belonged were, excepting the last two, of that class which comes from the Northwest and follows the trend of the Great Lakes and the St. Lawrence river to the ocean. The cause of the rain on the 20th was the secondary depression which made its appearance in the lower Lake Region on the 18th, and passing thence southeast to the coast, apparently united with the primary storm to the Northeast.

The 26th was rainy because of a shallow low area which then was spread over nearly the whole of the southeast quarter of the United States. This area, also, may be considered as a secondary to one of the first mentioned class of storms.

The map shows the precipitation to have been distributed very unevenly over the area included by the State Weather Service, as stated above.

The greater portion of Delaware received an ample supply, and more, of rainfall, and the Eastern Shore of Maryland received nearly the usual amount; but drought reigned elsewhere except in certain favored localities. The fall was especially light in an elliptical area having for its foci, Baltimore and Annapolis. While Annapolis had the least rainfall, amounting to but 0.93 of an inch, Easton, scarcely thirty miles distant, reported 4.91 inches, the greatest amount for Maryland.

Wind.—Prevailing direction, southwest. Total movement in miles, Baltimore, 3880; Norfolk, Va., 4308; Washington, D. C., 3219.

Thunderstorms.—At Annapolis, on the 18th; at Bachman's Valley, on the 19th; at Boettcherville, on the 2nd, 9th, 13th; at Chestertown, on the 15th; at Cumberland, on the 2nd, 9th, 13th, 15th; at Dover, Del., on the 13th, 15th, 18th, 20th; at Easton, on the 26th; at Fallston, on the 15th, 26th; at Frederick, on the 3rd, 30th; at Pocomoke City, on the 10th; at Pope's Creek, on the 26th; at Princess Anne, on the 12th, 15th, 19th, 26th; at Seaford, Del., on the 15th; at Solomon's, on the 10th, 13th, 15th, 18th, 19th, 20th; at Sunnyside, on the 1st, 2nd, 9th, 13th, 15th, 19th, 27th, 30th; at Taneytown, on the 12th, 20th, 27th; at Wilmington, Del., on the 2nd, 15th, 18th, 26th; at Woodstock, on the 19th, 26th.

Hail.—At Charlotte Hall, on the 26th; at Fallston, on the 15th.

Halos, solar.—At Mardela Springs, on the 18th; at Frederick, on the 24th.

Coronæ, lunar.—At Mardela Springs, on the 7th, 11th, 16th.

Polar Bands.—At Cumberland, on the 16th. Fogs, dense.—At Baltimore, on the 30th; at Mardela Springs, on the 1st, 2nd, 14th, 29th, 30th.

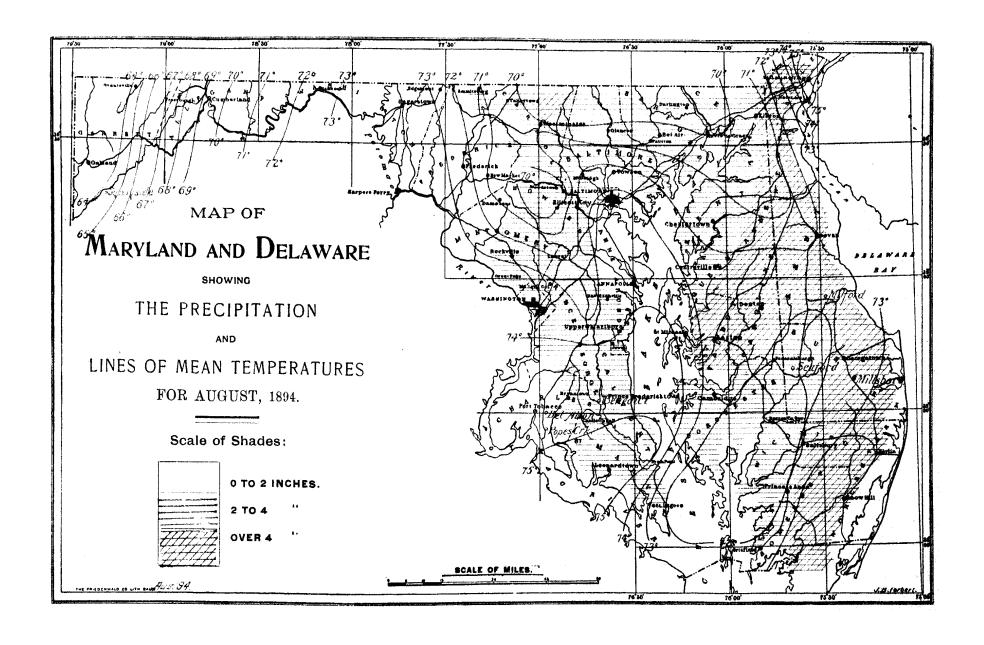
CROPS.

Week ending August 6th, 1894.

All vegetation has greatly improved since the drought was broken, and crops now look well. Wheat threshing is in progress and hay making is about completed. Corn has been much benefited by the recent showers, the early planted excelling the late. Oats are ripe in many places and appear to be in good condition. Late potatoes are a failure in some localities. Pastures are very short. The tomato crop is not very promising; some canning has been done. There are no peaches, and apples are small. Fall plowing has commenced on the Eastern Shore.

Week ending August 13th, 1894.

Wheat is yielding from 18 to 30 bushels per acre in western Maryland. Threshing is still in operation in some of the eastern counties. Reports state that the corn crop will be greatly shortened by the drought; many fields will not make more than half a crop. The late planted, however, may give a fair yield if the weather



Meteorological and Weather Signal Display Stations of the Maryland State Weather Service.

Stations.	County.	Meteorological ObserverJ. E. Abbott	
Annapons	Cool	······································	W C Henderson
Pachman's Valley	Carroll	I M Myore	w. O. Menderson.
_		CCL BY TYPES	
		J. H. Donaldson.	
Baltimore		A. T. Brewer,	namē.
		Ans't Editor of Monthly Repo	Tt.
		Ass't Editor of Weekly Bullet	in.
Benedict	Charles	Thomas Berry.	
		- 	N. N. Nock.
Bel Alton	Charles	Walter Cox.	
	Allegany		
Bradshaw	Baltimore		B. F. Taylor.
Buckeystown	Frederick		A. W. Nicodemus.
Cambridge	Dorchester		Samuel Leman.
Charlotte Hall	St. Mary's	J. Francis Coad.	
	St. Mary's		
	Kent		
Chambanian d	Ailegany	(Howard Shriver.	
Darlington	Harford	A. F. Galbreath.	
Delaware City, Del	New Castle	***************************************	W. E. Reybold.
Denton	Caroline	F. C. Ramsdell.	
Dickerson	Montgomery		W. H. Dickerson.
Distributing Reservoir, D. C		Col. G. H. Elliot.	
Dover, Del	Kent	Jno. S. Jester	Philip Burnet.
		Henry Shreve	
	Washington		
	Harford		
Fenby	Carroll	Wm. Fenby.	
Frederick	Frederick	McClintock Young	W. T. Delaplaine.
Frederica Del	Kent		Miss E. V. Newnom.
ribacilea, Dei	TROME.	•••• •••• • • • • • • • • • • • • • • •	Miss L. T. Frazier.
		······································	
Grantsville	Garrett	J. S. Miller	T. H. Bittinger.
	Montgomery		
Hartly, Del	Kent		Miss C. A. Forde.
Havre de Grace	Harford	•••• · · · · · · · · · · · · · · · · ·	W. S. McCombs.
Centon, Del	Kent		W. S. Artburs.
Kirkwood, Del	New Castle	J. S. Carnagy.	
La Plata	Charles	J. S. Turner	J. S. Turner.
Laurel, Del	Sussex	· · · · · · · · · · · · · · · · · · ·	E. D. C. Hegeman.
Mardela Springs	Wicomico	A. E. Acworth	L. A. Wilson.
	Charles		
McDonogh	Baltimore	H. Pender.	
		**** *** ***********************	G. C. Rhoderick, Jr.
		J. Y. Foulk	
	Sussex		
		J. A. Mitchell, A. M	Ios. H. Martin.
	New Castle		
	Frederick		
bakland	Garrett	J. Lee McComas, M. D	J. L. McComes M. D.
	Worcester		. A. B. Watts.
		R. M. Stevenson	R. M. Stavenson
Pope's Creek	St. Mary's	George Dent.	zz. zz. occi chach.
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Salisbury	Sugger	II. L. W MIIMCE	· · · · · · · · · · · · · · · · · · ·
seaford, Del	Sussex		
Beaford, DelBryrna, Del	Kent		A. D. Yocum.
deaford, Del	Kent		A. D. Yocum.
Beaford, Del Smyrna, Del Bnow Hill Bolomon's	Worcester	W. H. Marsh, M. D.	A. D. Yocum. Purnell & Vincent.
Beaford, Del Bmyrna, Del Bnow Hill Solomon's Sparrow's Point	Worcester		A. D. Yocum. Purnell & Vincent.
Beaford, Del Bmyrna, Del Bnow Hill Solomon's Sparrow's Point	Kent		A. D. YocumPurnell & VincentMd. Steel Co.
leaford, Del	Kent		A. D. YocumPurnell & VincentMd. Steel Co.
deaford, Del	Kent		A. D. Yocum,Purnell & VincentMd. Steel Co.
Beaford, Del	Kent		A. D. YocumPurnell & VincentMd. Steel CoJ. S. Hyatt.
Beaford, Del	Kent Worcester Calvert Garrett Carroll Prince George's Howard		A. D. YocumPurnell & VincentMd. Steel CoJ. S. HyattPostmaster.
Beaford, Del	KentWorcesterCalvertBiltimoreGarrettCarrollPrince George'sHowardSomerset	W. H. Marsh, M. DJohn G. KnauerJ. B. PerrieS. W. Beall.	A. D. YocumPurnell & VincentMd. Steel CoJ. S. HyattPostmasterE D. Long.
deaford, Del	Kent Worcester Calvert Baltimore Carroll Prince George's Howard Somerset New Castle		A. D. YocumPurnell & VincentMd. Steel CoJ. S. HyattPostmasterE D. LongWm. Lawton.
Beaford, Del	Kent Worcester Calvert Baltimore Carrotl Prince George's Howard Somerset New Castle		A. D. YocumPurnell & VincentMd. Steel CoJ. S. HyattPostmasterE D. LongWm. Lawton.
deaford, Del	Kent Worcester Calvert Baltimore Carrotl Prince George's Howard Somerset New Castle Frederick Howard		A. D. YocumPurnell & VincentMd. Steel CoJ. S. HyattPostmasterE D. LongWm. Lawton.
Beaford, Del	Kent Worcester Calvert Biltimore Garrett Carroll Prince George's Howard Somerset New Castle Frederick Howard Northampton		A. D. YocumPurnell & VincentMd. Steel CoJ. S. HyattPostmasterE D. LongWm. Lawton.
deaford, Del	Kent Worcester Calvert Baltimore Garrett Carroll Prince George's Howard Somerset New Castle Frederick Howard Northampton		A. D. YocumPurnell & VincentMd. Steel CoJ. S. HyattPostmasterE D. LongWm. Lawton.
deaford, Del	Kent Worcester Calvert Baltimore Carrotl Prince George's Howard Somerset New Castle Frederick Howard		A. D. YocumPurnell & VincentMd. Steel CoJ. S. HyattPostmasterE D. LongWm. Lawton.

continues seasonable. Oats are mostly cut and being stored away in barns. Some sweet corn and tomato canneries have started to work; more will begin the coming week. Buckwheat is promising. Pastures are very short. Potatoes are yielding fairly well. Some grapes are ripening. Very little plowing has been done.

Week ending August 20th, 1894.

Wheat is turning out well, and on account of low prices it is being used for feed instead of corn. The excellent rains of the past week came too late to benefit early planted corn, but they decidedly improved the crop planted later, which prospects indicate a fair yield. Oats are short in the straw, but generally well headed. The yield of barley is up to the average. The clover harvest is on. Tobacco is looking well; some was housed last week. The outlook for fall pastures is much better. Tomatoes have

improved, and canning operations will be general next week.

Week ending August 27th, 1894.

Drought is again prevailing in western Maryland, and all crops and vegetables are reported suffering. On account of the hardness of the ground, no fall plowing has been done, and the acreage of wheat will be smaller than usual. Early corn is said to be short, but the fodder of excellent quality. Oats are about all cut and the crop is variable. Buckwheat is ripe. Tobacco is somewhat irregular; some crops are good, while others are reported seriously affected by dry weather and firing badly. Tomatoes are ripening slowly. Potatoes are generally poor. Pastures have improved. The yield of grapes will be fair. Apples are scarce and of inferior quality. Soaking rains are needed to properly prepare the ground for fall grains.

DAILY PRECIPITATION FOR AUGUST, 1894.

STATIONS.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	4 2	26	27	28	29	30	12	Tot
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Cumb. (b)		.32							12		.24	37	10		.20					.10	•••										1.15
Mt St. Mary's												2.00							1		.30										2.50
Frederick		+	.07							.01		.54]						.52						06	l				1.54
New Mark't		.28										1	.90						1 1	.41						1	1				1.59
Taneytown	١.١									$ \mathbf{T} $	\mathbf{T}	1.30	T							.30					. T	.12		'			1.72
Bach. V'y]]		1.15	T		١				• • • •		1.50						٠.	-90					T			• • •				4.29
Fenby		.50	.10						• • •	.10		.70							50			• • • •			12:2		1	• • •			2.70
Woodst. Col	• • •		•	T				• • • •	• • • •	I		.65					•••		.95			• • •		•• ••	. 1.1		1	• • •	T		2.80
Baltimore		• • • •		.24		• • •	••••	••••	773	T		.35			70	T		.01	.01		.18	• • • •		•• ••	2	T	1	• • • •	T	• • • 1	1.41 2.83
Darlington.			.09	.01					1	- 1		.32	.02		.71			T .20	$1.10 \\ 1.42$		• • • •				T	• • • • •			1	••••	2.76
Great Falls			.08	• • • • •		•••			• • • •	.20	••	.14		1	. 41			.20	1.42	.92	• • •					84					2.10
Annapolis.															.23			.05		. 00	.30				3						.93
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Rec. R., D.C										.13				05		1		1	1	.04	.02					1.34					1.58
Wash., D. C.		T	.01	.50					T	.23	T	.28	.06		.01				T	.05	Т				80				[]		2.00
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Solomon's		.04	.02	.30						.06		.52			T	1		.16		.10				T	.2	7 .01					1.86
Chestert'n	T		.18]				.15			1.85		1	.05	.06						1.2	5 T					3.54
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Dover, Del.		.00	+	.53								.21	67		.89			76		85							1				4.01
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NOTE.-"T" indicates a trace of rain or melted snow. † Dates on which rain fell, but not measured until next observation.

MONTHLY SUMMARY OF REPORTS FOR AUGUST, 1894.

	İ).ve	[le.	TEMPERATURE.													
	COUNTIES.	above ft.							Max.		Min.		ecip	y8.	gć	ays	mo.	80
STATIONS.		Altitude sea in	Latitude.	Longitude.	Mouthly Mean.	Mean of Max.	Mean of Min.	Degrees	Date.	Degrees	Date.	Monthly Range.	Total Precipitation.	Clear Days.	Fair Days.	Cloudy Days.	Rainy Days. (.01 in. or more)	Prevailing Wind.
Western Maryland.																		
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Mt. St. Mary's Col. Frederick New Market! Taneytown Bachman's Val!* Fenby!* McDonogh Woodstock Col Baltimore Fallston!* Darlington Great Falls**	Frederick. Frederick Frederick Carroll Carroll Baltimore Baltimore Harford Montgomery.	280 500 950 535	39 33 39 23 39 19 39 17 39 31	77 20 77 18 77 18 77 18 76 55 76 55 76 54 76 36 76 24 78 45 77 14	69.7 71.2 f72.4 69.4 73.2 70.3 70.6	83.7 f80.2	f64.6 58.6 65.0	94 90 94 90 88 *95 93 88	2 8 1,8 8	52 52 58 56 59 57 50 57 56 58	12 22 17, 22 17, 22 17, 22 22, 26 1 22 22 22 22 23	32 38 31 31 45 36 31 41	2.50 1.54 1.59 1.72 4.29 2.70 2.80 1.41 2.83 2.76 2.10	17 19 16 16 10 19 23	9	12 3 6 1 1 3 5	6	N.W. S. E. S. E. S. E.
Annapolis	Pr. George's Pr. George's Charles Charles Charles St. Mary's St. Mary's St. Mary's Calvert	20	38 58 38 52 38 52 38 52 38 58 38 47 38 31 38 32 38 26 38 28 38 28 38 21 38 19	77 0 77 0 76 56 76 45 77 8 76 40 77 0 77 1 76 38 77 1 76 24	73.6 74.4 73.6 72.2 73.0 74.9 74.9 174.4 74.2 72.0 75.8	82.6 83.7 83.4 84.0 86.9 186.3 84.7 85.2	64.7 60.7 62.7 65.6 62.9 f62.5 63.6 63.8	91 88 92 96 93 96 96 95 95	1, 9 9 9 9 23 8 10 3, 9 10 9 7, 8	56 62 58 54 50 51 55 55 55 52 51	11 22 22 22 22 22 22 21, 23 17, 19 22 21	29 30 38 46 42 41 41 40 43 45	0.93 1.71 1.58 2.17 1.73 1.15 1.41 2.79 1.80 3.20 1.86	25 11 22 19 15 	1 14 6 5 6 11	5 6 6 9	8 6 5 5	 w.
Chestertown. Denton. Beston Mardela Spr. Princess Anne Pocomoke City Wilmington, Del. Kirkwood, Del. Kirkwood, Del. Milford, Del. Seaford, Del. #Millsboro, Del.	Kent	42 35 25 37 115 40 20	38 47 38 42 38 30 38 10 38 5 39 44 39 40 39 35 39 10 38 45 38 40	76 4 75 41 76 6 75 39 75 35 38 38 38 38 75 37 75 41 75 30 775 25 775 25 775 15	71.8 73.0 72.6 71.4 72.1 73.2 75.0 71.0 71.3 72.6 71.7	80.8 83.4 81.5 79.5 78.5 81.8 85.2 80.4 78.7 81.9 80.6	62.9 62.5 63.6 62.3 65.7 64.9 61.6 63.9 63.9 62.2 62.6	91 90 89 89 93 93 89 87 90 92 91	2, 3, 8 1 9 9 1, 2 1, 8 	51 51 51 50 56 55 53 50 54 54 51 50	23 21 22 22 7, 22 22 22 22 22 22 22 22 22 22 22 22	39 38 39 44 38 40 39 33 36 41	3.54 2.63 4.91 3.54 2.79 4.57 5.78 4.99 4.01 4.21 2.24 2.26	10 20 8 6 12 11 7 	17 8 15 18 10 13 12 15 9	4 3 8 12 9 7 12 3 13	6 S 11 8 9 1 9 1 8 S	S. W. S. W. S. W. S. W. S. W. S. W. N. E.
‡VIRGIN Norfolk Warsaw		•••••			74.5 73.6	81.9 83.2	67.1 64.1	93 95	9	60 54	5 28		8.45 2.98	11 6	9 16	11 9	13	N. B. S.
‡Pennsylv	ì																	
Philadelphia				•••••	73.0	81.4	64.5	89	1	58	22		2.15	11	12	8	- 1	3. W.
AVERAGES Southe East. M	rn Maryland ern-Cent'l Md. ern Maryland fd. and Del territory		•••••		68.2 71.5 74.1 72.2 71.5	79:1 81:7 84:4 80:8 81:5	57.7 62.6 64.3 63.5 62.0	••••				39.8	4.06	11.81	12.4	7.9	5.3 6.3 8.0 S	. w.

^{*}Extremes of temperature from observed readings of dry thermometer. A numeral following the name of a station indicates the hours of observation from which the mean temperature was obtained, thus:

'Mean of 7 a. m. + 2 p. m. + 9 p. m. + 9 p. m. + 4. 'Mean of 8 a. m. + 8 p. m. + 2. 'Mean of 7 a. m. + 2 p. m. + 2.

The absence of a numeral indicates that the mean temperature has been obtained from daily readings of the maximum and minimum thermometers. Letters of the alphabet are used to denote the number of days that are missing from record; for instance, "a" denotes 1 day missing. An italic letter following the name of a station indicates that two or more observers, as the case may be, are reporting from the same station. † Omitted in computing averages.