



CLIMATOLOGICAL DATA

MARYLAND AND DELAWARE

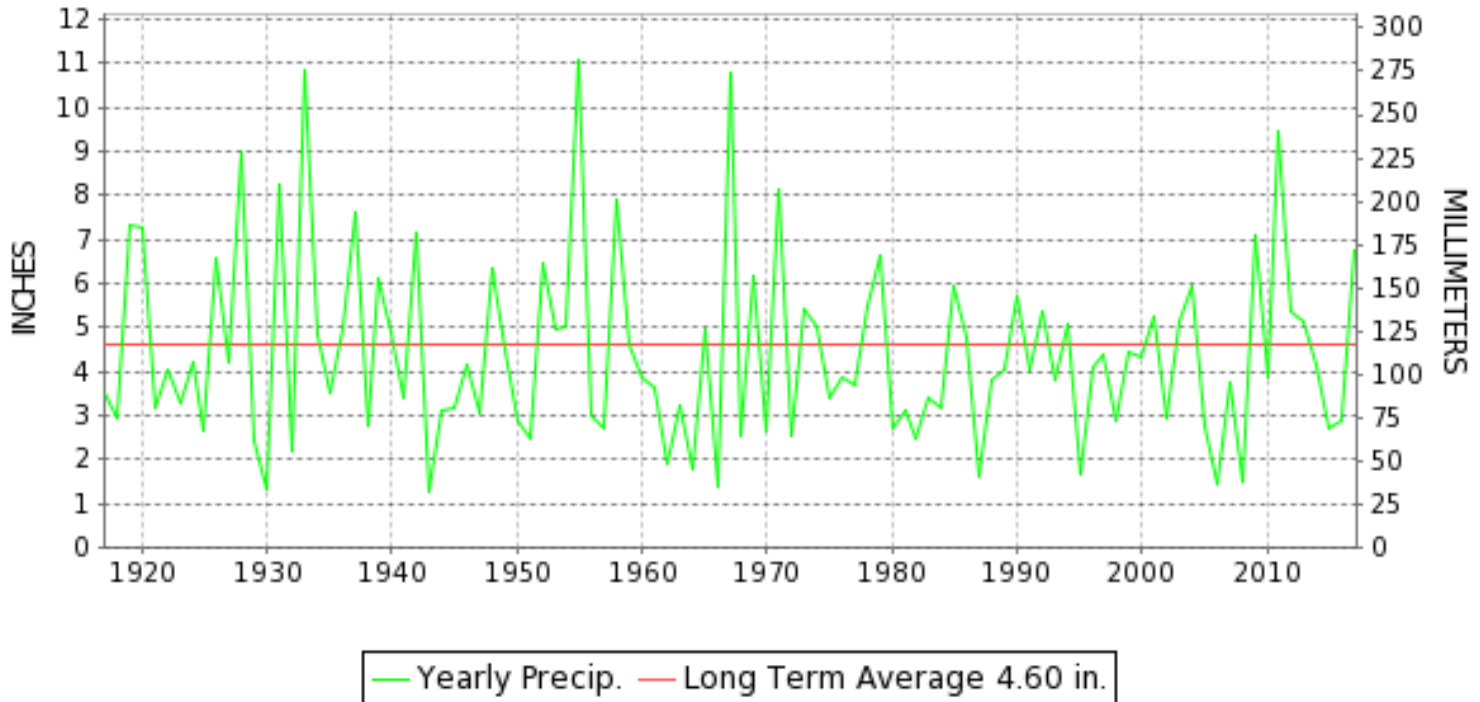
AUGUST 2017

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AUGUST PRECIPITATION BY YEAR



TEMPERATURE AND PRECIPITATION EXTREMES

MARYLAND

HIGHEST TEMPERATURE	96	AUGUST 03+	CUMBERLAND 2
LOWEST TEMPERATURE	38	AUGUST 27	OAKLAND 1 SE
GREATEST TOTAL PRECIPITATION	12.77		SALISBURY 2N
LEAST TOTAL PRECIPITATION	2.10		FROSTBURG 2
GREATEST 1 DAY PRECIPITATION	6.56	AUGUST 12	SALISBURY FAA AP

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DELAWARE

HIGHEST TEMPERATURE	91	AUGUST 18+	2 STATIONS
LOWEST TEMPERATURE	56	AUGUST 28	WILMINGTON NEW CASTLE CO AP
GREATEST TOTAL PRECIPITATION	10.00		DOVER
LEAST TOTAL PRECIPITATION	4.22		WILMINGTON NEW CASTLE CO AP
GREATEST 1 DAY PRECIPITATION	3.05	AUGUST 07	DOVER

MONTHLY STATION AND DIVISION SUMMARY

STATION	TEMPERATURE (°F)											PRECIPITATION (IN)												
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEG. DAYS	COOLING DEG. DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST 24 HOURS	DATE	ICE PELLETS, SNOW			NO. OF DAYS		
											MAX		MIN						TOTAL	MAX DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE
											>=90	<=32	<=32	<=0										
REISTERSTOWN 2 NW	80.6M	61.9MF	71.2MF		90	23+	54	25	5E	208E	2	0	0	0	M 5.02		1.30	16	M 0.0	0		15	12	1
SMITHSBURG 2NW	80.5	58.4	69.5	-3.6	89	23	51	10+	5	149	0	0	0	0	A 4.81	1.67	1.55	03	0.0	0		11	6	1
--DIVISIONAL DATA----->			70.7	-2.8B											4.56	0.72B								
APPALACHIAN MOUNTAIN 07																								
HAGERSTOWN 1 E	82.2	62.2	72.2		92	22	53	28	3	233	3	0	0	0	4.08		1.37	04	0.0	0		17	8	1
CUMBERLAND 2	83.6	60.5	72.1	-3.3	96	03+	52	10+	2	229	8	0	0	0	2.11	-1.06	0.70	05	0.0	0		10	5	0
FROSTBURG 2	75.5	56.2	65.8	-2.0	85	23+	48	09	44	79	0	0	0	0	2.10	-1.50	0.67	05	0.0	0		9	5	0
SHARPSBURG 5 S	81.6M	58.8M	70.2M	-2.6	92	23	51	10+	3E	171E	2	0	0	0	MA 3.16	-0.07	0.82	03	M 0.0	0		10	8	0
WILLIAMSPORT															M				M					
--DIVISIONAL DATA----->			70.1	-1.1B											2.76	-0.69B								
ALLEGHENY PLATEAU 08																								
OAKLAND 1 SE	77.2	55.8	66.5	-0.4	87	18+	38	27	38	90	0	0	0	0	5.76	1.98	2.20	05	0.0	0		13	9	2
SAVAGE RIVER DAM	75.9	55.9	65.9	-3.2	85	23	42	24	51	86	0	0	0	0	2.78	-0.55	0.70	08	0.0	0		9	7	0
SINES DEEP CREEK	M	M	M		83	21+	44	10	47E	35E	0	0	0	0	MA 2.48		0.60	23	M	0		6	5	0
--DIVISIONAL DATA----->			66.2	-0.9B											4.27	0.36B								
DELAWARE NORTHERN 01																								
WILMINGTON NEW CASTLE CO AP	82.5	64.8	73.6	-1.6	91	18	56	28	0	277	2	0	0	0	4.22	0.97	0.80	29	0.0	0		10	7	0
WILMINGTON PORTER RSCH	79.5M	64.3M	71.9M	-2.7	91	22	57	30	2E	225E	1	0	0	0	M 5.87	2.20	1.43	02	M 0.0	0		10	10	1
--DIVISIONAL DATA----->			72.8	-1.7B											4.22	0.50B								
SOUTHERN 02																								
DOVER	82.9	66.3	74.6	-1.5	90	22+	59	27	0	305	2	0	0	0	A 10.00	5.64	3.05	07	0.0	0		10	7	3
--DIVISIONAL DATA----->			74.6	-0.2B											10.00	5.11B								

MARYLAND AND DELAWARE
201708

DAILY PRECIPITATION (INCHES)

STATION	TOTAL	DAY OF MONTH																														
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
MARYLAND																																
SOUTHERN																																
EASTERN SHORE 01																																
PRINCESS ANNE	M 5.48					-	-		0.75			1.63	-		0.17					0.95	-						-	-				1.98
SALISBURY 2N	12.77							3.80	0.30			5.23	0.32		0.12	0.01	0.01		0.83					0.08	0.01					1.75	0.31	
SALISBURY FAA AP	12.23	0.83		T				2.05	0.27			6.56	0.01		0.10		T	0.57	T				0.01						1.82			
SNOW HILL 4 N	6.85		0.06						0.72			1.82			0.80		0.59	0.04	0.37								T			2.00	0.45	
CENTRAL																																
EASTERN SHORE 02																																
ROYAL OAK 2 SSW	7.82							2.32	0.07			1.80	0.88	0.01	0.11		0.02		0.68	T			0.03			T			1.78	0.12		
LOWER SOUTHERN 03																																
MECHANICSVILLE 5 NE	9.29								1.25			1.28	1.27		0.04	0.37	0.54	0.39	2.17	T		0.28					0.07			0.82	0.81	
SOLOMONS	MA 5.46					-	-		0.53	0.05		*	* 2.10 _a		0.02	0.19	0.02	0.03	*	*	1.63 _a	0.07				*	*	0.00 _a	*	0.82 _a		
UPPER SOUTHERN 04																																
BALTIMORE-WASHINGTON INTL AP	4.60	0.01	0.68	0.38				0.70	0.04		T	0.23	0.54		T	0.76		T	0.44	T		0.02		T	T	0.03			0.76	0.01		
BALTIMORE WASHINGTON INTL CLIM	4.60	0.01	0.68	0.38				0.70	0.04		T	0.23	0.54		T	0.76		T	0.44	T		0.02		T	T	0.03			0.76	0.01		
BELTSVILLE	5.27		0.26	0.22	0.46			0.18	0.73			0.33	0.88		T	0.36		0.17	0.69	0.01								0.07	0.22	0.69		
DALECARLIA RSVR	A 8.04		0.10		0.07			0.16	1.02			0.40	1.00	*	0.00 _a	2.46		0.39	1.40				0.14					0.10	0.20	0.60		
MARYLAND SCI CTR	6.02	0.75	0.54	0.07				0.56			0.34	1.57			0.84			0.60	0.01		0.07		0.05					0.62				
NATL ARBORETUM DC	M 4.67				0.58			0.30	1.05	0.03		0.40	0.86	-	0.02	0.18			0.27								0.05	0.07	0.86			
OXON HILL	4.68				T			0.12	1.50			1.23	0.53		0.01	0.12		T	0.03	0.06						0.06		0.28	0.74			
NORTHERN																																
EASTERN SHORE 05																																
STEVENSVILLE 2SW	6.24			0.22				0.07	1.34			0.29	0.32			0.13		0.65	2.46			0.01				0.04			0.13	0.58		
SUDLERSVILLE 1S	7.86			0.51	T			T	3.50		0.30	0.15			T	0.30	0.05		1.75			0.50			0.05			T	0.75			
NORTHERN CENTRAL 06																																
ABERDEEN PHILLIPS FLD	A 5.09			0.11	0.08			0.71	0.29			*	0.29 _a		0.02	0.41			1.26	0.06	0.05	0.33	0.59		0.13			0.05	0.71			
BRIGHTON DAM	M 3.42							0.25	0.40			0.62	0.20	-	0.10	1.10			-		0.06	0.05	0.33	0.05	-	-		-	0.25	0.45		
CONOWINGO DAM	7.20			0.11		1.10		0.16	0.24			0.18				2.03			2.10			0.73							0.55			
CYLBURN	M				0.02	0.89	0.01	*	0.91 _a			-	*	*	*	2.46 _a	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DAMASCUS 3 SSW	3.18				T	0.02	0.17				T	0.32	0.47		0.03	1.17		0.27	0.03				0.14			0.01			0.55			
EMMITSBURG 2 SE	3.83	0.01	0.03	0.67	0.03	0.81	0.01	0.01	0.34			0.02	0.14		0.23	0.02			0.20	0.08		0.03	0.50			0.42		0.01	0.27			
MILLERS 4 NE	3.27		0.23	0.06		0.98		0.31	0.02			T	T	T	0.21			0.40	T	0.04			0.42			0.13		0.47	T			
REISTERSTOWN 2 NW	M 5.02			0.72	0.24	0.85		0.12	0.26	0.05		0.15	0.05		0.17	1.30		-	0.25	0.05			0.21					0.10	0.50			
SMITHSBURG 2NW	A 4.81			1.55	0.05	0.80		0.05	0.55					*	0.45 _a	0.40				0.08	0.06			0.60		0.06			0.16			
APPALACHIAN																																
MOUNTAIN 07																																
HAGERSTOWN 1 E	4.08	T	0.02	0.44	1.37		T	0.29	0.05		0.11	0.76		0.48	0.01		0.01	0.07	0.06			0.20	0.04	0.01	0.01			0.15				
CUMBERLAND 2	2.11	0.11				0.70		0.13	0.64			0.05	0.02		0.08				0.01	0.01			0.36							0.06		
FROSTBURG 2	2.10				0.03	0.67		0.23	0.46			0.03	T		0.08	T						0.41								0.06		
SHARPSBURG 5 S	MA 3.16	-		0.82	0.17	0.53		T	0.33			0.03	0.56		0.21				T	0.11	0.01	*	*	*	*	*	0.07 _a		T	0.32		
WILLIAMSPORT	M	0.08		0.24	1.13	0.92		-	-	-		0.12	0.52		-	-	-	-	-	-	0.44					0.02			-	-		

DAILY PRECIPITATION (INCHES)

STATION	TOTAL	DAY OF MONTH																																
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ALLEGHENY PLATEAU 08																																		
OAKLAND 1 SE	5.76					2.20		0.18	0.56	0.01		0.34	0.02	0.02		0.27	0.03			0.21	0.23			1.51									0.18	
SAVAGE RIVER DAM	2.78	0.05		0.06	0.38		0.12	0.70				0.37			0.17					0.25			0.68								T			
SINES DEEP CREEK	MA 2.48			-	*	*	0.70 _a	0.45				0.03	*	*	0.05 _a	0.15	0.10		*	*	0.30 _a		0.60		0.10	*	*	0.00 _a	-					
DELAWARE																																		
NORTHERN 01																																		
WILMINGTON NEW CASTLE CO AP	4.22	0.59	T		0.78		0.72				0.09	0.01		T	0.65		T	0.19	T			0.06	0.33		T				0.80					
WILMINGTON PORTER RSCH	M 5.87	1.43			0.48		0.85				0.11	0.12			0.30	-						0.64	0.92						0.90		0.12			
SOUTHERN 02																																		
DOVER	A 10.00	2.67	0.88				3.05	0.05				*	0.45 _a	T	0.58		0.01		1.52			0.05							0.60	0.14				

MARYLAND AND DELAWARE
201708

DAILY SOIL TEMPERATURES

STATION	DEPTH	TIME	DAY OF MONTH																															AVERAGE	
			01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
MARYLAND UPPER SOUTHERN 04 BELTSVILLE (in)																																			

MARYLAND AND DELAWARE
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SOILS REFERENCE NOTES

STATION	SOIL TYPE	SOIL COVER	SLOPE	UNITS
BELTSVILLE	UNKNOWN	GRASS	0	F

SNOWFALL AND SNOW ON GROUND (INCHES)

STATION		DAY OF MONTH																														
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
MARYLAND SOUTHERN EASTERN SHORE 01 PRINCESS ANNE SALISBURY 2N SALISBURY FAA AP SNOW HILL 4 N	SNOWFALL																															
	SNOWFALL																															
	SNOWFALL																															
	SN ON GND																															
	SNOWFALL																															
DELAWARE NORTHERN 01 WILMINGTON NEW CASTLE CO AP WILMINGTON PORTER RSCH	SNOWFALL																															
	SN ON GND																															
	SNOWFALL																															
	SN ON GND																															

Snowfall: Includes snow and ice. Values for NWS stations (J index note) are Mid-Mid (LST).

Snow on ground: Includes snow, sleet, ice, and hail. Values for NWS stations (J index note) are observed at 12 UTC (GMT).

Water Equivalent: Given for NWS stations (J index note) only, when snow depth is 2 inches or more, and is measured at 18 UTC (GMT)

PAN EVAPORATION AND WIND

STATION		DAY OF MONTH																															TOTAL OR AVERAGE
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
MARYLAND UPPER SOUTHERN 04 BELTSVILLE	WIND	25	25	38	27	90	42	19	21	33	17	19	30	40	19	10	17	19	29	45	33	21	30	74	34	34	38	18	21	54	50	23	995
	EVAP	0.22	0.19	0.25	0.18	0.30	0.24	0.14	0.01	0.15	0.21	0.17	0.05	0.29	0.19	0.04	0.03	0.20	0.22	0.20	0.23	0.17	0.29	0.25	0.24	0.22	0.18	0.16	0.17	0.22	0.03	0.13	5.57
	MAX	91	91	89	90	89	81	83	70	80	88	84	80	88	87	75	79	91	90	94	92	90	90	93	86	86	85	85	83	80	86	83	85.7
	MIN	61	66	66	66	66	59	61	66	61	61	64	66	67	67	67	70	71	73	72	68	68	71	72	65	64	62	61	59	59	59	59	65.1
ALLEGHENY PLATEAU 08 SAVAGE RIVER DAM	WIND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	
	EVAP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	
	MAX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	

Evaporation: Is measured in hundreths of inches.

Wind: Is measured in miles.

Max and Min: The maximum and minimum temperatures (Fahrenheit) of the water in the evaporation pan.

STATION INDEX

STATION	INDEX NO.	DIVISION	COUNTY	LATITUDE	LONGITUDE	ELEVATION (IN FEET)	OBSERVATION TIME AND TABLES			
							LOCAL STD TIME			
							TEMP	PRECIP	EVAP	SPECIAL SEE (NOTES)
MARYLAND										
ABERDEEN PHILLIPS FLD	0015	06	HARFORD	39 28	76 10W	57	07	07		CH
BALTIMORE WASHINGTON INTL CLIM	0467	04	ANNE ARUNDEL	39 11	76 39W	101		24		H
BALTIMORE WASHINGTON INTL AP R	0465	04	ANNE ARUNDEL	39 10	76 41W	156	24	24		HJ
BELTSVILLE	0700	04	PRINCE GEORGE'S	39 2	76 56W	145	08	08	08	GCH
BRIGHTON DAM	1125	06	MONTGOMERY	39 11	77 0W	330	08	08		H
CONOWINGO DAM	2060	06	HARFORD	39 39	76 11W	40	07	07		H
CUMBERLAND 2	2282	07	ALLEGANY	39 39	78 45W	730	07	07		H
CYLBURN	2308	06	BALTIMORE	39 21	76 39W	235	08	08		H
DALECARLIA RSVR	2325	04	DISTRICT OF COLUMBIA	38 56	77 7W	150	08	08		H
DAMASCUS 3 SSW	2336	06	MONTGOMERY	39 16	77 14W	700	22	22		H
EMMITSBURG 2 SE	2906	06	FREDERICK	39 41	77 17W	403	07	07		H
FROSTBURG 2	3415	07	ALLEGANY	39 40	78 56W	2170	07	07		H
HAGERSTOWN 1 E	1790	07	WASHINGTON	39 38	77 42W	532	24	24		H
MARYLAND SCI CTR R	5718	04	BALTIMORE (CITY)	39 17	76 37W	20	24	24		H
MECHANICSVILLE 5 NE	5865	03	ST. MARY'S	38 28	76 42W	100	07	07		H
MILLERS 4 NE	5934	06	CARROLL	39 43	76 48W	860	18	18		CH
NATL ARBORETUM DC	6350	04	DISTRICT OF COLUMBIA	38 55	76 58W	50	08	08		H
OAKLAND 1 SE	6620	08	GARRETT	39 25	79 24W	2420	07	07		H
OXON HILL	6800	04	PRINCE GEORGE'S	38 48	76 60W	186	07	07		H
PRINCESS ANNE	7330	01	SOMERSET	38 13	75 41W	20	17	17		H
REISTERSTOWN 2 NW	7580	06	BALTIMORE	39 30	76 50W	737	08	08		H
ROYAL OAK 2 SSW //	7806	02	TALBOT	38 43	76 11W	10	17	17		H
SALISBURY 2N	8004	01	WICOMICO	38 24	75 36W	20	17	17		H
SALISBURY FAA AP //R	8005	01	WICOMICO	38 20	75 31W	47	24	24		H
SAVAGE RIVER DAM	8065	08	GARRETT	39 31	79 8W	1495	08	08	08	CH
SHARPSBURG 5 S	8207	07	WASHINGTON	39 24	77 43W	500	07	07		H
SINES DEEP CREEK	8315	08	GARRETT	39 31	79 25W	2040	07	07		H
SMITHSBURG 2NW	8371	06	WASHINGTON	39 40	77 35W	670	08	08		H
SNOW HILL 4 N	8380	01	WORCESTER	38 14	75 23W	30	17	17		H
SOLOMONS	8405	03	CALVERT	38 19	76 27W	12	08	08		H
STEVENSVILLE 2SW	8557	05	QUEEN ANNE'S	38 58	76 20W	10	07	07		H
SUDLERSVILLE 1S	8657	05	QUEEN ANNE'S	39 10	75 51W	100		20		H
WILLIAMSPORT	9570	07	WASHINGTON	39 37	77 51W	360		06		H
DELAWARE										
DOVER //	2730	02	KENT	39 9	75 30W	30	16	16		H
WILMINGTON NEW CASTLE CO AP R	9595	01	NEW CASTLE	39 40	75 36W	79	24	24		HJ
WILMINGTON PORTER RSCH	9605	01	NEW CASTLE	39 46	75 32W	270	24	24		H

REFERENCE NOTES

STATION NAMES: Name of the city, town or locality. Figures and letters following the station names indicate the distance in miles and direction from the post office or town community center.

DIVISIONS: Areas within a state of similar climatological characteristics. Division averages are calculated using data from stations that record temperature and/or precipitation. Station Precipitation totals flagged with an 'F' or 'M' are excluded from the Divisional Average calculations of precipitation. Stations with monthly Temperature averages flagged with an 'F' or 'M' are included in the Divisional Average if there are no more than 9 flagged or missing daily values in the month, else they are excluded from the divisional average for temperature.

NORMALS: The average value of the meteorological element over a time period. Effective 1 January 2012, the averaging period for station departures is 1981 to 2010. The normals for National Weather Service localities have been adjusted so as to be representative for the current observation site.

The January 2011 through December 2015 publications incorrectly state the computation of divisional departures. Climate Division departures have been, and continue to be, computed from 1971-2000 Normals, not 1981-2010 as stated. Station departures are accurately described as departures from 1981-2010.

MONTHLY DEGREE DAY TOTALS: One heating (cooling) degree day is accumulated for each whole degree that the daily mean temperature is below (above) 65 degrees Fahrenheit.

PRECIPITATION: Values shown in hundredths of inches are water equivalent totals, i.e., total of liquid and melted frozen precipitation. In the "Monthly Summarized Data" table the total snow and sleet values shown in tenths of inches are unmelted amounts. The max depth on ground values of snow and sleet shown in whole inches are cumulative unmelted amounts. The number of days with .10, .50, 1.00 or more refers to water equivalents.

PRECIPITATION QUALITY CONTROL: The NCEI quality control process may flag precipitation data that are spatially inconsistent, exceed climatological limits, or are inconsistent with prevailing weather patterns.

TEMPERATURE: Original temperature values are given in the "Daily Temperature" table. Summary temperature information (averages, departures, extremes, monthly degree day totals) is based on the values labeled MAX/MIN.

WIND: (As shown in the "Evaporation and Wind" table) the total wind movement in miles over the evaporation pan as determined by an anemometer recorder located 6-8 inches above the pan.

SYMBOLS AND LETTERS USED IN THE STATION INDEX TABLE

C Station is equipped with recording rain gage (R) but values in this bulletin are from a non-recording rain gage unless indicated by an R.

G Observations appear in the "Soil Temperatures" table.

H Observations appear in the "Snowfall and Snow on the Ground" table.

J Station also published as a Local Climatological Data publication.

VAR Observation time varies.

SR / SS Observation time near sunrise / Observation time near sunset, respectively.

SYMBOLS AND LETTERS USED IN THE DATA TABLES

(DAILY DATA ARE FOR THE 24 HOURS IMMEDIATELY PRECEDING OBSERVATION TIME.)

BLANK Entries in the "Monthly Summarized Data" table indicate no record.

BLANK Entries in the "Daily Precipitation" and "Snowfall and Snow on the Ground" tables indicate zero.

BLANK Entries in the "Daily Temperature" table indicate a missing record

- No record. Data not recorded or not received in time for publication.

+ Precipitation or temperature extremes occurred on one or more previous dates during the month.

* Rain gage not read. Precipitation is included in the amount following the asterisks.

Time distribution may not be known. A * preceding the monthly total indicates precipitation amount is being carried forward to next month's total, and may include amounts from the previous month(s).

a As a subscript, indicates accumulated total.

A Amount of precipitation is the total of observer's entries for the current month. It may include precipitation that occurred during the previous month. Refer to earlier bulletin to determine date of last

reading. (Hawaii stations)

B Divisional Departure from normals are computed using 1971-2000 normals.

E Normalized HDD/CDD Calculation. E is appended to the HDD/CDD Calculation when 1-9 individual daily TMAX and/or TMIN values are missing and a Normalized HDD/CDD Calculation is provided. M appears alone if 10 or more daily values are missing.

F Monthly calculation flagged value. F is appended to average and/or total values computed which exclude one or more daily data values that have been flagged by the GHCN-Daily Dataset

M Insufficient or partial data. M is appended to average and/or total values computed with 1-9 daily values missing. M appears alone if 10 or more daily values are missing, (8 or more for wind and evaporation).

N Indicates snow fall or Snowdepth totals are computed with one or more missing days.

R Amounts from recording rain gage.

T Trace. An amount too small to measure.

SEASONAL TABLES: Monthly and seasonal snowfall and heating degree days for the 12 months ending with the June data are published in the July issue of this bulletin. Cooling degree days for the calendar year are published in the "Climatological Data Annual Summary."

Information concerning the history of changes in locations, exposure, etc. of substations is kept on file at the National Centers for Environmental Information. Historical information of regular National Weather Service Offices may be obtained from the "Local Climatological Data" annual publication. The contents of this publication may be reprinted or otherwise used freely, with proper credit to the National Centers For Environmental Information. The data are also available digitally.

Effective with the January 2011 Data-Month, COOP Observer Names are no longer included in the Monthly and Annual Climatological Data Publications. This information is not published to ensure the privacy of personal information pursuant to Section 208 of the E-Government Act of 2002 (44 USC 3601).

As of the 2011 Data-Year, Station and Climate Division Maps are no longer being included in the CD Publications. NCEI's Products Branch provides updated Station Maps for various data networks via the Historical Observing Metadata Repository: <http://www.ncdc.noaa.gov/homr>.

The GHCN-Daily Quality Control Flags shown below are displayed as superscripts with the data. For more information on Global Historical Climatology Network - Daily and flags, see: <http://www.ncdc.noaa.gov/oa/climate/ghcn-daily/> and Comprehensive Automated Quality Assurance of Daily Surface Observations. Durre, Imke, Matthew J. Menne, Byron E. Gleason, Tamara G. Houston, Russell S. Vose, 2010: J. Appl. Meteor. Climatol., 49, 16151633. doi: 10.1175/2010JAMC2375.1

Blank = Passed All checks

D = failed duplicate check

G = failed gap check

I = failed internal consistency check

K = failed streak/frequent-value check

L = failed check on length of multiday period

M = failed megaconsistency check

N = failed naught check

O = failed climatological outlier check

R = failed lagged range check

S = failed spatial consistency check

T = failed temporal consistency check

W = temperature too warm for snow

X = failed bounds check

Z = flagged as a result of an official Datzilla investigation

Beginning with the January 2013 CD Publication, monthly mean temperature calculations have changed to the National Data Stewardship Team standard. Monthly maximum and minimum temperatures are not rounded until after the monthly mean temperature is calculated. This is the most accurate outcome, but may be slightly different from the mean derived from rounded monthly maximum and minimum.

The climate division temperature and precipitation values in this publication are based on simple averages from the current set of NWS-Designated Open and Published COOP and First Order Sites within each division. These values differ from those found in NCEI's nClimDiv product. Beginning in February 2014, the nClimDiv product is used by NCEI's Monitoring Branch and in its monthly climate reports. For more details on nClimDiv, please go to <http://www.ncdc.noaa.gov/monitoring-references/maps/us-climate-divisions.php>.

Effective January 2016, Alaska's Climate Divisions are updated to reflect the 13 climate divisional boundaries established by University of Alaska-Fairbanks, NWS, NCEI, Oregon State University, and University of Nebraska-Lincoln. For more details regarding the updated Alaska Climate Divisions, see: <http://journals.ametsoc.org/doi/pdf/10.1175/JAMC-D-11-0168.1> (Bienek et al., 2012).

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