

DIRECTOR NATIONAL CLIMATIC DATA CENTER

ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

ATMOSPHERIC ADMINISTRATION

CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA

## METEOROLOGICAL DATA FOR 2012 KAHULUI (PHOG)

	LATITUDE: LONGITUDE: 20° 53'N 156° 25'W	ELEVATION (FT): TIME Z GRND: 51 BARO: 44 HAWAJ									IME ZONE: WBAN: 22516 AWAII (UTC -10)			VBAN: 22516
	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM HIGHEST DAILY MAXIMUM DATE OF OCCURRENCE MEAN DAILY MINIMUM LOWEST DAILY MINIMUM DATE OF OCCURRENCE AVERAGE DRY BULB MEAN WET BULB MEAN WET BULB MEAN DEW POINT NUMBER OF DAYS WITH: MAXIMUM >= 90° MAXIMUM <= 32° MINIMUM <= 32°	83.3 88 20 62.5 55 08 72.9 65.4 60.7 0 0 0	82.4 86 25+ 62.1 56 01 72.3 59.3 0 0 0	80.9 86 09 63.9 55 09 72.4 64.8 60.3 0 0	83.0 86 13+ 65.6 59 02 74.3 65.7 60.6 0 0 0	$\begin{array}{c} 83.7\\ 87\\ 25+\\ 67.0\\ 56\\ 13\\ 75.4\\ 66.6\\ 61.6\\ 0\\ 0\\ 0\\ 0\end{array}$	$\begin{array}{c} 85.0\\ 88\\ 14+\\ 69.1\\ 64\\ 15+\\ 77.1\\ 68.2\\ 63.6\\ 0\\ 0\\ 0\\ 0\end{array}$	$\begin{array}{c} 85.9\\ 88\\ 31+\\ 70.1\\ 62\\ 04\\ 78.0\\ 68.5\\ 63.5\\ 0\\ 0\\ 0\\ 0\\ \end{array}$	86.9 92 24 70.9 66 30 78.9 69.6 65.0 1 0 0	$\begin{array}{c} 86.5\\ 89\\ 30+\\ 70.4\\ 66\\ 09\\ 78.5\\ 70.3\\ 66.4\\ 0\\ 0\\ 0\\ 0\\ \end{array}$	87.1 91 23 68.2 64 22+ 77.7 71.7 69.1 3 0 0	83.4 86 21+ 66.1 57 28 74.8 68.7 65.7 0 0 0	82.0 86 06 65.1 56 23 73.6 67.1 63.4 0 0	84.2 92 AUG 24 66.8 55 MAR 09 75.5 63.3 4 0 0
H/C	MINIMUM <= 0° HEATING DEGREE DAYS COOLING DEGREE DAYS	0 0 251	0 0 222	0 0 237	0 0 288	0 0 327	0 0 372	0 0 411	0 0 439	0 0 410	0 0 400	0 0 301	0 0 274	0 0 3932
RH	MEAN (PERCENT) HOUR 02 LST HOUR 08 LST HOUR 14 LST HOUR 20 LST	231 67 77 66 53 72	65 75 63 50 68	69 79 67 57 74	65 75 60 52 70	65 75 59 51 71	66 76 63 54 70	64 73 60 52 68	66 75 61 54 72	70 82 66 57 76	77 88 68 64 83	76 86 71 62 81	72 81 70 59 76	69 79 65 55 73
0/M	NUMBER OF DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI) THUNDERSTORMS	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1 0
PR	MEAN STATION PRESS. (IN.) MEAN SEA-LEVEL PRESS. (IN.)	29.98 30.05	29.99 30.07	29.99 30.07	30.03 30.10	30.01 30.08	30.00 30.07	29.97 30.04	29.98 30.05	29.96 30.03	29.93 30.00	29.96 30.03	29.96 30.03	29.98 30.05
MINDS	RESULTANT SPEED (MPH) RES. DIR. (TENS OF DEGS.) MEAN SPEED (MPH) PREVAIL.DIR.(TENS OF DEGS.) MAXIMUM 2-MINUTE WIND SPEED (MPH) DIR. (TENS OF DEGS.) DATE OF OCCURRENCE MAXIMUM 3-SECOND WIND: SPEED (MPH) DIR. (TENS OF DEGS.) DATE OF OCCURRENCE	3.4 09 10.2 05 33 21 17 43 21 17	7.4 07 11.2 06 35 21 07 44 07 20	11.9 06 13.6 05 35 07 10 46 08 10	12.3 06 13.3 05 32 06 17 44 08 29	15.2 05 15.7 05 37 06 23 47 08 23	14.8 05 15.3 05 37 05 17 49 05 17	15.5 05 16.1 05 33 06 07 46 08 06	14.0 05 14.6 05 35 08 07 45 09 07	12.5 06 13.6 05 33 04 03 41 03 03	7.7 05 10.5 04 33 04 29 39 05 29	8.8 05 10.1 05 31 04 09 39 08 10	8.6 06 11.3 06 33 06 16 45 07 16	10.9 06 13.0 05 37 05 JUN 17 49 05 JUN 17
PRECIPITATION	WATER EQUIVALENT: TOTAL (IN.) GREATEST 24-HOUR (IN.) DATE OF OCCURRENCE NUMBER OF DAYS WITH: PRECIPITATION 0.01 PRECIPITATION 0.10 PRECIPITATION 1.00	T T 29+ 0 0 0	4 0 0	2.61 1.35 07-08 10 5 1	0.33 0.23 08 4 1 0	0.55 0.21 09-10 9 2 0	0.38 0.15 18-19 8 2 0	0.12 0.03 23-24 9 0 0	0.18 0.06 27-28 10 0	0.36 0.21 20 11 1 0	T T 31+ 0 0 0	0.23 0.06 14-15 9 0 0	0.21 0.06 16-17 10 0	
SNOWFALL	SNOW,ICE PELLETS,HAIL TOTAL (IN.) GREATEST 24-HOUR (IN.) DATE OF OCCURRENCE MAXIMUM SNOW DEPTH (IN.) DATE OF OCCURRENCE NUMBER OF DAYS WITH: SNOWFALL >= 1.0													

# NORMALS, MEANS, AND EXTREMES KAHULUI (PHOG)

	LATITUDE: LONGITUDE: 20° 53'N 156° 25'W	ELEVATION (FT): GRND: 51 BARO: 44						TIME HAWA	ZONE:	UTC -10)		WBAN: 22516			
	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
	NORMAL DAILY MAXIMUM MEAN DAILY MAXIMUM HIGHEST DAILY MAXIMUM YEAR OF OCCURRENCE	30 58 48	80.6 80.2 90 2006	80.7 79.7 89 2001	81.4 81.0 90 1984	82.4 81.9 91 1981	84.4 84.0 92 1996	86.3 85.4 94 1996	87.2 86.3 95 2010	88.0 87.2 97 1994	88.0 87.1 96 1997	86.8 86.3 96 1973	84.1 83.5 93 1990	81.6 81.2 90 1995	84.3 83.7 97 AUG 1994
RE °F	MEAN OF EXTREME MAXS. NORMAL DAILY MINIMUM MEAN DAILY MINIMUM	58 30 58	85.0 63.4 63.6	85.1 63.0 63.0	86.2 64.4 64.5	86.9 65.7 65.7	88.8 67.1 67.1	89.7 69.6 68.9	90.7 71.1 70.5	91.5 71.4 71.1	91.6 70.4 70.0	91.1 69.5 69.3	88.7 68.0 67.6	86.3 65.1 65.3	88.5 67.4 67.2
TEMPERATURE	LOWEST DAILY MINIMUM YEAR OF OCCURRENCE MEAN OF EXTREME MINS. NORMAL DRY BULB	48 58 30	22 2004 55.8 72.0	50 2009 55.5 71.8	51 2005 57.3 72.9	54 1985 59.2 74.0	56 2012 60.7 75.8	58 1985 62.8 78.0	58 1965 63.7 79.1	61 2009 64.7 79.7	59 2009 64.0 79.2	58 1964 62.4 78.2	55 1985 61.4 76.0	52 1983 57.6 73.3	22 JAN 2004 60.4 75.8
TEM	MEAN DRY BULB MEAN WET BULB MEAN DEW POINT NORMAL NO. DAYS WITH:	58 29 29	71.9 66.0 64.1	71.4 65.7 63.5	72.8 66.1 64.1	73.9 66.9 64.3	75.6 67.9 65.8	77.3 69.1 67.0	78.6 70.2 68.2	79.3 70.7 68.8	78.6 70.7 68.4	77.8 70.4 68.2	75.6 69.3 67.3	73.3 67.1 65.2	75.5 68.3 66.2
	MAXIMUM >= 90 MAXIMUM <= 32 MINIMUM <= 32 MINIMUM <= 0	30 30 30 30	$0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0$	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.4 0.0 0.0 0.0	1.0 0.0 0.0 0.0	2.5 0.0 0.0 0.0	4.3 0.0 0.0 0.0	4.5 0.0 0.0 0.0	3.6 0.0 0.0 0.0	0.6 0.0 0.0 0.0	0.1 0.0 0.0 0.0	17.0 0.0 0.0 0.0
H/C	NORMAL HEATING DEG. DAYS NORMAL COOLING DEG. DAYS	30 30	0 217	0 192	0 245	0 272	0 333	0 388	0 439	0 456	0 426	0 408	0 331	0 259	0 3966
RH	NORMAL (PERCENT) HOUR 02 LST HOUR 08 LST HOUR 14 LST HOUR 20 LST	30 30 30 30 30 30	82 62 77	80 59 75	77 59 74	74 58 73	71 56 71	69 55 71	70 56 72	71 56 72	70 55 72	73 57 73	76 60 75	79 61 76	74 58 73
s	PERCENT POSSIBLE SUNSHINE	36	64	64	64	63	68	72	72	72	72	67	62	63	67
0/M	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI) THUNDERSTORMS	49 54	0.0 0.6	0.0 0.4	0.0 0.3	0.0 0.3	0.0 0.2	0.0 0.0	0.0 0.1	0.0 0.1	0.0 0.1	0.0 0.2	0.0 0.3	0.0 0.3	0.0 2.9
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS) MIDNIGHT-MIDNIGHT (OKTAS) MEAN NO. DAYS WITH:	37	3.8	3.9	4.3	4.7	4.3	3.9	3.7	3.7	3.7	4.0	4.0	3.8	4.0
CLOI	CLEAR PARTLY CLOUDY CLOUDY	37 37 37	12.9 9.9 8.2	11.5 9.4 7.4	10.6 11.3 9.1	7.8 11.8 10.5	9.5 13.6 7.9	10.7 13.5 5.8	10.7 14.9 5.3	11.9 13.6 5.5	11.5 12.6 5.8	10.6 12.5 7.9	10.9 10.8 8.3	11.9 11.3 7.8	130.5 145.2 89.5
PR	MEAN STATION PRESSURE(IN) MEAN SEA-LEVEL PRES. (IN)	29 29	29.93 30.00	29.94 30.02	29.82 30.06	29.98 30.06	29.97 30.04	29.96 30.03	29.94 30.02	29.93 30.00	29.91 29.98	29.91 29.98	29.93 29.99	29.94 30.01	29.93 30.02
	MEAN SPEED (MPH) PREVAIL.DIR(TENS OF DEGS) MAXIMUM 2-MINUTE: SPEED (MPH)	29 22 14	10.8 05 48	11.3 05 40	12.7 05 41	13.5 05 35	13.2 05 37	15.6 05 38	15.6 05 38	15.2 05 36	13.2 05 37	12.2 05 36	11.8 05 41	11.1 05 44	13.0 05 48
MINDS	DIR. (TENS OF DEGS) YEAR OF OCCURRENCE MAXIMUM 3-SECOND		20 2004	20 2004	04 2010	06 2003	06 2012	04 1999	06 1999	04 2008	04 2006	04 2011	22 2001	19 2007	20 JAN 2004
	SPEED (MPH) DIR. (TENS OF DEGS) YEAR OF OCCURRENCE	14	64 19 2004	47 20 2004	55 04 2010	44 08 2012	47 08 2012	49 05 2012	46 08 2012	45 09 2012	45 04 2006	43 07 2010	52 22 2001	58 02 2009	64 19 JAN 2004
ION	NORMAL (IN) MAXIMUM MONTHLY (IN) YEAR OF OCCURRENCE MINIMUM MONTHLY (IN)	30 58 58	2.87 14.46 1980 T	1.89 8.31 1972 0.06	2.45 10.90 1967 0.01	1.55 14.29 1989 0.01	0.74 4.36 1987 T	0.20 2.50 1967 0.00	0.50 1.65 1989 0.01	0.50 1.54 1982 0.02	0.38 1.43 1987 0.02	1.20 5.66 1985 T	2.20 9.27 1965 0.07	3.35 10.21 1996 0.01	17.83 14.46 JAN 1980 0.00
PRECIPITATION	YEAR OF OCCURRENCE MAXIMUM IN 24 HOURS (IN) YEAR OF OCCURRENCE NORMAL NO. DAYS WITH:	58	2012 7.01 1980	2000 4.98 1972	2008 5.42 1967	2003 4.83 1989	1972 2.41 1987	1957 2.36 1967	1999 1.04 1989	2002 1.21 1982	2002 1.16 1965	2012 4.85 1985	2011 5.48 1965	1975 5.82 1955	JUN 1957 7.01 JAN 1980
PRE	PRECIPITATION >= 0.01 PRECIPITATION >= 1.00	30 30	9.6 0.7	8.5 0.4	10.3 0.6	9.2 0.3	6.3 0.1	5.1	7.3	6.5 0.0	4.5 0.0	7.0 0.2	9.7 0.6	10.7 0.7	94.7 3.6
Ţ	NORMAL (IN) MAXIMUM MONTHLY (IN) YEAR OF OCCURRENCE MAXIMUM IN 24 HOURS (IN)	30 2 44	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
SNOWFALL	YEAR OF OCCURRENCE MAXIMUM SNOW DEPTH (IN) YEAR OF OCCURRENCE	39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN	NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

## PRECIPITATION (inches) 2012 KAHULUI (PHOG)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL
1983 1984 1985 1986 1987	0.58 2.45 1.16 1.30 2.91	0.07 0.67 2.03 1.36 1.41	$ \begin{array}{r} 1.12\\ 1.42\\ 1.96\\ 3.93\\ 0.57 \end{array} $	0.24 1.07 0.25 3.95 3.77	$0.94 \\ 0.47 \\ 1.20 \\ 1.02 \\ 4.36$	$\begin{array}{c} 0.17\\ 0.02\\ 0.01\\ 0.77\\ 0.12\end{array}$	0.53 0.09 0.53 0.25 0.13	$\begin{array}{c} 0.67 \\ 0.46 \\ 0.52 \\ 0.45 \\ 0.62 \end{array}$	$\begin{array}{c} 0.50 \\ 0.11 \\ 0.10 \\ 0.05 \\ 1.43 \end{array}$	1.38 T 5.66 0.96 0.25	$\begin{array}{r} 0.98 \\ 1.16 \\ 4.61 \\ 1.49 \\ 3.02 \end{array}$	5.87 0.64 1.97 2.86 5.72	13.05 8.56 20.00 18.39 24.31
1988 1989 1990 1991 1992	7.72 1.59 6.32 2.94 2.40	0.93 5.38 7.94 4.94 1.02	0.89 3.96 2.98 2.89 0.34	$1.37 \\ 14.29 \\ 0.06 \\ 0.50 \\ 0.90$	$0.17 \\ 0.85 \\ 1.50 \\ 0.24 \\ 1.58$	$\begin{array}{c} 0.02 \\ 0.42 \\ 0.90 \\ 0.13 \\ 0.30 \end{array}$	$\begin{array}{c} 0.21 \\ 1.65 \\ 0.39 \\ 0.37 \\ 1.09 \end{array}$	$\begin{array}{c} 0.46 \\ 0.50 \\ 0.50 \\ 1.06 \\ 0.16 \end{array}$	$\begin{array}{c} 0.23 \\ 0.31 \\ 0.50 \\ 1.17 \\ 1.32 \end{array}$	$\begin{array}{c} 0.84 \\ 4.71 \\ 0.60 \\ 0.15 \\ 1.47 \end{array}$	3.76 2.25 6.44 0.23 3.55	10.19 4.72 7.07 1.47 2.85	26.79 40.63 35.20 16.09 16.98
1993 1994 1995 1996 1997	2.19 1.12 2.73 2.47 9.23	$\begin{array}{c} 0.21 \\ 1.64 \\ 0.91 \\ 3.02 \\ 1.11 \end{array}$	1.55 4.23 2.13 6.75 3.06	1.28 0.99 1.76 0.50 1.34	$\begin{array}{c} 0.52 \\ 0.05 \\ 0.61 \\ 0.46 \\ 0.83 \end{array}$	$\begin{array}{c} 0.09 \\ 0.72 \\ 0.26 \\ 0.18 \\ 0.71 \end{array}$	1.30 1.30 0.46 .52 1.22	$0.80 \\ 0.50 \\ 0.63 \\ .18 \\ 0.14$	$\begin{array}{c} 0.78 \\ 1.11 \\ 0.12 \\ .18 \\ 0.09 \end{array}$	1.19 0.10 0.80 T 0.50	1.99 1.26 0.92 6.53 3.10	$\begin{array}{c} 0.79 \\ 0.91 \\ 2.12 \\ 10.21 \\ 1.75 \end{array}$	12.69 13.93 13.45 31.00 23.08
1998 1999 2000 2001 2002	$\begin{array}{c} 0.36 \\ 2.01 \\ 1.00 \\ 0.02 \\ 3.75 \end{array}$	$\begin{array}{c} 0.49 \\ 1.70 \\ 0.06 \\ 0.90 \\ 0.99 \end{array}$	$\begin{array}{c} 0.18 \\ 1.48 \\ 0.34 \\ 0.42 \\ 1.80 \end{array}$	$1.27 \\ 0.34 \\ 1.26 \\ 0.20 \\ 0.64$	$\begin{array}{c} 0.44 \\ 0.51 \\ 0.04 \\ 0.08 \\ 1.83 \end{array}$	$\begin{array}{c} 0.04 \\ 0.09 \\ 0.09 \\ 0.18 \\ 0.01 \end{array}$	$\begin{array}{c} 0.18 \\ 0.01 \\ 0.78 \\ 0.19 \\ 0.66 \end{array}$	0.21 0.31 1.20 0.69 T	0.41 0.03 0.54 0.09 T	$\begin{array}{c} 0.08 \\ 0.41 \\ 0.79 \\ 1.24 \\ 4.42 \end{array}$	$1.93 \\ 0.22 \\ 3.44 \\ 3.41 \\ 0.42$	1.17 2.55 0.18 3.11 0.55	6.76 9.66 9.72 10.53 15.07
2003 2004 2005 2006 2007	2.40 7.89 4.91 0.74 0.48	5.33 3.08 1.99 0.69 0.93	1.70 8.54 4.24 5.34 2.13	$\begin{array}{c} 0.01 \\ 2.47 \\ 0.30 \\ 0.27 \\ 0.25 \end{array}$	T 2.24 0.21 0.75 0.05	0.02 0.04 0.05 T T	$\begin{array}{c} 0.07 \\ 0.05 \\ 1.23 \\ 0.14 \\ 0.11 \end{array}$	$\begin{array}{c} 0.21 \\ 0.36 \\ 0.62 \\ 0.04 \\ 0.13 \end{array}$	0.17 0.02 0.23 0.03	0.15 T 4.16 0.48	1.05 T 1.76 3.04 1.59	2.72 1.48 0.14 3.25 6.88	13.83 26.17 18.65 13.06
2008 2009 2010 2011 2012	1.42 4.43 0.99 4.31 T	$1.03 \\ 0.38 \\ 0.62 \\ 2.85$	$\begin{array}{c} 0.01 \\ 2.22 \\ 1.40 \\ 0.71 \\ 2.61 \end{array}$	0.66 1.42 0.77 0.06 0.33	$\begin{array}{c} 0.04 \\ 0.01 \\ 0.03 \\ 1.31 \\ 0.55 \end{array}$	$\begin{array}{c} 0.01 \\ 0.13 \\ 0.05 \\ 0.28 \\ 0.38 \end{array}$	$\begin{array}{c} 0.47 \\ 0.08 \\ 0.06 \\ 0.63 \\ 0.12 \end{array}$	$\begin{array}{c} 0.40 \\ 0.90 \\ 0.06 \\ 0.19 \\ 0.18 \end{array}$	$\begin{array}{c} 0.19 \\ 0.12 \\ 0.20 \\ 0.08 \\ 0.36 \end{array}$	0.13 0.30 0.40 0.10 T	0.65 1.55 1.25 0.07 0.23	4.54 2.55 3.61 0.21	9.55 14.09 9.44
POR= 58 YRS	3.54	2.43	2.57	1.35	0.66	0.22	0.46	0.45	0.33	0.99	2.18	2.98	18.16

### AVERAGE TEMPERATURE (°F) 2012 KAHULUI (PHOG)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	
1983	71.4	71.5	72.5	74.1	74.9	77.6	78.1	79.1	78.0	77.3	75.8	73.5	75.3	
1984	73.4	73.4	75.9	77.0	78.5	80.5	80.0	79.5	79.4	80.5	79.0	74.2	77.6	
1985	72.0	73.0	70.7	70.8	73.1	75.1	77.6	77.8	77.1	76.7	73.0	71.2	74.0	
1986	70.4	71.4	73.7	74.3	75.9	77.1	79.4	80.6	79.4	77.5	77.1	72.9	75.8	
1987	72.0	69.3	72.0	72.8	72.4	76.5	78.6	78.9	79.5	78.3	75.6	73.8	75.0	
1988	71.5	72.3	73.4	74.2	76.5	77.8	78.9	79.2	78.9	77.5	76.8	73.1	75.8	
1989	72.3	72.6	73.2	72.0	75.5	77.3	79.0	78.0	78.6	77.6	74.8	71.7	75.2	
1990	72.7	70.8	72.0	74.6	75.5	77.9	78.4	79.6	80.3	78.4	76.5	73.0	75.8	
1991	71.7	72.6	72.1	74.4	75.8	76.6	78.3	79.6	79.0	78.3	77.3	74.8	75.9	
1992	71.4	71.8	72.9	74.1	76.3	78.6	79.2	80.5	80.4	78.5	76.9	75.4	76.3	
1993	71.2	69.6	71.9	75.3	76.0	78.7	79.5	80.3	80.0	78.2	75.9	73.8	75.9	
1994	71.1	74.0	73.0	73.6	76.2	78.2	80.0	81.2	80.7	79.0	76.5	73.5	76.4	
1995	71.6	72.7	74.4	74.7	76.0	79.0	80.3	80.6	79.9	79.8	77.9	75.9	76.9	
1996	75.1	72.5	72.2	77.0	78.0	80.6	81.4	80.9	80.4	80.2	77.6	73.3	77.4	
1997	72.4	73.4	74.6	74.8	75.6	79.5	80.0	80.2	81.3	79.6	75.6	73.2	76.7	
1998	71.7	71.9	73.3	73.8	74.4	76.3	78.0	79.1	77.9	77.2	75.9	72.0	75.1	
1999	71.3	71.0	72.9	73.7	75.7	77.0	77.5	78.3	78.6	76.5	75.2	72.9	75.1	
2000	70.3	71.6	73.4	73.8	75.9	77.6	78.9	79.1	77.8	78.2	75.4	72.1	75.3	
2001	72.5	72.0	72.9	74.3	75.4	77.3	78.8	79.5	79.2	77.0	75.7	73.7	75.7	
2002	71.9	70.8	72.2	74.2	75.7	78.0	78.4	79.7	77.9	77.5	75.0	73.1	75.4	
2003	71.9	71.7	73.9	74.9	76.2	78.6	80.2	80.6	79.6	79.0	76.5	73.2	76.4	
2004	71.9	73.4	72.6	73.7	76.3	78.8	79.5	81.3	80.0	79.4	76.3	73.2	76.4	
2005	73.0	72.2	71.3	74.2	77.0	78.3	79.2	78.6	79.9	77.5	75.5	73.5	75.9	
2006	75.0	72.6	74.8	73.8	74.3	77.9	79.1	80.1	79.5	78.4	76.1	73.6	76.3	
2007	73.3	72.0	73.7	74.2	76.5	78.1	79.9	79.5	79.4	77.6	74.9	73.4	76.0	
2008	68.9	68.6	71.7	74.1	76.2	77.5	78.5	79.2	78.0	77.9	74.9	73.7	74.9	
2009	70.9	70.7	70.7	71.4	74.9	77.5	78.7	79.2	78.8	78.7	75.7	71.9	74.9	
2010	72.2	71.0	72.9	74.6	76.8	78.4	79.0	80.3	78.6	77.3	74.9	73.7	75.8	
2011	71.5	73.1	74.4	74.7	76.5	77.4	77.9	79.0	76.8	76.7	75.7	73.6	75.6	
2012	72.9	72.3	72.4	74.3	75.4	77.1	78.0	78.9	78.5	77.7	74.8	73.6	75.5	
POR= 58 YRS	71.9	71.4	72.8	73.9	75.6	77.3	78.6	79.3	78.6	77.8	75.6	73.3	75.5	

published by: NCDC Asheville, NC

## HEATING DEGREE DAYS (base 65°F) 2012 KAHULUI (PHOG)

YEAR	JUL	AUG	SEP	ОСТ	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1983-84	0	0	0	0	0	0	0	0	0	0	0	0	0
1984-85	0	0	0	0	0	0	0	0	0	0	2	0	2
1985-86	0	0	0	0	0	0	0	0	0	0	0	0	0
1986-87	0	0	0	0	0	0	0	1	0	0	0	0	1
1987-88	0	0	0	0	0	0	0	0	0	0	0	0	0
1988-89	0	0	0	0	0	0	0	0	0	0	0	0	0
1989-90	0	0	0	0	0	0	0	1	0	0	0	0	1
1990-91	0	0	0	0	0	0	0	0	0	0	0	0	0
1991-92	0	0	0	0	0	0	0	0	0	0	0	0	0
1992-93	0	0	0	0	0	0	0	0	0	0	0	0	0
1993-94	0	0	0	0	0	0	0	0	0	0	0	0	0
1994-95	0	0	0	0	0	0	0	0	0	0	0	0	0
1995-96	0	0	0	0	0	0	0	0	0	0	0	0	0
1996-97	0	0	0	0	0	0	0	0	0	0	0	0	0
1997-98	0	0	0	0	0	0	0	0	0	0	0	0	0
1998-99	0	0	0	0	0	0	0	0	0	0	0	0	0
1999-00	0	0	0	0	0	0	0	0	0	0	0	0	0
2000-01	0	0	0	0	0	0	0	0	0	0	0	0	0
2001-02	0	0	0	0	0	0	0	0	0	0	0	0	0
2002-03	0	0	0	0	0	0	0	0	0	0	0	0	0
2003-04	0	0	0	0	0	0	0	0	0	0	0	0	0
2004-05	0	0	0	0	0	0	0	0	0	0	0	0	0
2005-06	0	0	0	0	0	0	0	0	0	0	0	0	0
2006-07	0	0	0	0	0	0	0	0	0	0	0	0	0
2007-08	0	0	0	0	0	0	0	0	0	0	0	0	0
2008-09	0	0	0	0	0	0	0	2	0	0	0	0	2
2009-10	0	0	0	0	0	0	0	0	0	0	0	0	0
2010-11	0	0	0	0	0	0	0	0	0	0	0	0	0
2011-12	0	0	0	0	0	0	0	0	0	0	0	0	0
2012-	0	0	0	0	0	0							

#### WBAN : 22516

### COOLING DEGREE DAYS (base 65°F) 2012 KAHULUI (PHOG)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	TOTAL
1983	205	188	240	278	315	384	414	445	398	389	333	272	3861
1984	264	250	346	367	425	472	470	456	437	486	425	295	4693
1985	223	229	182	178	260	312	397	403	371	370	250	200	3375
1986	174	187	276	287	345	373	454	490	442	392	370	249	4039
1987	226	127	224	242	237	353	430	440	440	418	326	282	3745
1988	210	218	267	285	364	390	438	444	426	395	358	261	4056
1989	234	193	260	218	331	375	440	412	414	400	301	215	3793
1990	246	169	223	294	332	394	422	458	467	425	352	252	4034
1991	211	219	228	290	341	353	421	458	427	417	375	312	4052
1992	207	205	254	282	358	413	448	489	468	427	362	331	4244
1993	199	135	222	316	347	419	454	482	456	417	334	278	4059
1994	196	259	255	267	355	400	471	507	478	439	351	269	4247
1995	213	219	296	298	347	426	482	492	453	466	393	348	4433
1996	320	226	230	368	410	473	518	499	471	479	383	264	4641
1997	239	244	306	300	336	439	468	478	496	460	324	261	4351
1998	214	200	266	269	302	347	412	442	392	385	334	223	3786
1999	199	174	252	268	341	366	398	420	412	361	310	252	3753
2000	172	197	268	273	345	388	438	444	394	412	318	227	3876
2001	239	204	252	281	327	376	434	459	430	381	327	276	3986
2002	220	168	233	286	337	397	422	465	394	393	306	258	3879
2003	219	198	283	305	353	414	477	492	446	441	353	261	4242
2004	221	250	243	267	357	419	460	509	456	453	346	263	4244
2005	253	207	203	283	378	407	448	426	453	392	325	270	4045
2006	293	217	313	271	296	391	430	474	442	423	341	274	4165
2007	262	203	277	283	362	401	472	456	437	400	302	269	4124
2008	128	111	218	280	357	380	427	447	397	408	308	278	3739
2009	191	164	185	199	313	381	430	446	421	434	326	217	3707
2010	231	172	253	294	371	409	439	480	415	388	305	275	4032
2011	207	234	302	300	361	382	409	442	363	370	329	275	3974
2012	251	222	237	288	327	372	411	439	410	400	301	274	3932

#### SNOWFALL (inches) 2012 KAHULUI (PHOG)

SHOWFALL (menes) 2012 KANOLOI (THOG)																					
YEAR	JUL	AUG	SEP	ОСТ	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL								
1976-77 1977-78 1978-79 1979-80 1980-81	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$								
1981-82 1982-83 1983-84 1984-85 1985-86	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$								
1986-87 1987-88 1988-89 1989-90 1990-91	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\end{array}$								
1991-92 1992-93 1993-94 1994-95 1995-96	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$	$\begin{array}{c} 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \end{array}$								
1996-97 1997-98 1998-99 1999-00 2000-01	$\begin{array}{c} 0.0\\ 0.0\end{array}$	0.0 0.0	$\begin{array}{c} 0.0\\ 0.0\end{array}$	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0								
2001-02 2002-03 2003-04 2004-05 2005-																					
POR= 44 YRS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
17110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
										WBAN : 22516											

#### **REFERENCE NOTES :**

PAGE 1:

THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL

MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).

PAGE 2 AND 3:

H/C INDICATES HEATING AND COOLING DEGREE DAYS.

RH INDICATES RELATIVE HUMIDITY

W/O INDICATES WEATHER AND OBSTRUCTIONS

S INDICATES SUNSHINE.

PR INDICATES PRESSURE

CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS). GENERAL:

T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.

ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING.

WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED.

- 0.\* OR \* INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05.
- CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET

CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. GENERAL CONTINUED:

WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH.

RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION.

AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL.

A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65 F.

DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR.

DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY.

WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.

ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.

STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED SATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS:

http://www.ncdc.noaa.gov/homr/ SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.

#### NOTE:

The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.

The 2012 Annual Publications were reproduced on 6/05/13 to correct two problems that occurred when the Publications were first produced on 02/28/13.

- 1) A small number of stations did not correctly show number of days with thunderstorms and heavy fog.
- 2) Climate Normals in the Annual Publications were based on a first edition of the 1981-2010 Normals release. With the release of Service Pack 1 (SP1) new normals for 83 stations are available and now included. Additional information on SP1 is available at:

http://www1.ncdc.noaa.gov/pub/data/normals/1981-2010/status.txt.

# 2012 KAHULUI HAWAII (PHOG)

Kahului Airport is located in the relatively broad central valley of Maui near the northern coast of the island. Five miles to the west, the mountains of west Maui rise abruptly, reaching an elevation of 5,788 feet above sea level at the crest of Puu Kukui 10 miles west of the station. To the southeast the terrain rises gradually to the summit of Haleakala at 10,023 feet, located 17 miles from the airport.

The outstanding features of the climate are the equable temperature regime, the marked seasonal variation in rainfall, the persistent surface winds from the northeast quadrant, and the rarity of severe storms.

The extremely equable temperatures at Kahului are associated with the tempering effect of the Pacific Ocean and the small seasonal variation in the amount of energy received from the sun. The range in normal temperature between the warmest month, August, and the coldest month, February, is 7.2 degrees.

Rainfall is relatively light. The contrast between the dry season, which extends from May through October, and the wet season, November through April, is quite pronounced. Major widespread rainstorms, which account for the bulk of the precipitation in the area, usually occur several times during each wet season, but are infrequent in the dry season. Approximately 50 percent of the normal annual rainfall occurs in the three months of December through February, and over 80 percent in the six months of the wet season. June is the driest month, receiving about l percent of the annual total. Occasionally, an entire dry season month will go by with no measurable precipitation whatever. At the other extreme, a single wet season storm sometimes contributes more than one-half the total rainfall in an individual year.

Showers constitute the greatest number of rainfall occurrences and although most of these are light and short-lived, very heavy showers do occur at times. Thunderstorms, which are reported rather infrequently, are usually associated with major storms in the wet season. Violent, damaging, windstorms are rare, but sometimes occur in connection with major storms moving through the region.

Hurricanes, with winds of 75 mph, or more, rarely affect the Kahului area. However, tropical storms, which are similar to hurricanes, except that the wind speed is less than 75 mph, may pass close enough to produce heavy rain and strong wind at Kahului once every several years.

The large Pacific semipermanent high pressure cell, which is usually centered north of the Hawaiian Islands, is one of the important climatic controls affecting the circulation of air in the region. Over the central North Pacific, this cell produces a rather persistent flow of air from the northeast known as the Northeast Trades. Thus, surface wind at Kahului is predominantly from the northeast quadrant. The trade-wind flow is most prevalent during the dry season. Wind is more variable during the wet season although, on the average, the trades still blow more than 50 percent of the time during this period.

The normal trade winds, accentuated by the funneling effect between Haleakala and the west Maui mountains, as well as by the daytime thermally induced low pressure in the valley, often attain a speed of 40 to 45 mph at the airport, but serve to make living conditions in the nearby Kahului-Wailuku community pleasant and comfortable. Air conditioning is used in only a few business establishments and residences.

Humidity at Kahului is usually moderate to high, with wet season humidities averaging slightly higher than those in the dry season. However, due to the system of natural ventilation provided by the prevailing winds, the weather is seldom oppressive even during the warmer months of the year.

# Station History

KAHULUI, HI

						,	
NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
KAHULUI NAS KAHULUI AP KAHULUI AP KAHULUI AP KAHULUI AP KAHULUI AP	1944-02-01 1998-03-01 1954-04-01 1964-04-01 1969-01-01 1998-03-24 1952-07-01	1947-05-31 1998-03-24 1964-04-01 1969-01-01 1998-03-01 Present 1954-04-01	20° 54' 20° 54' 20° 54' 20° 54' 20° 54' 20° 53' 20° 53'	-156° 25' -156° 25' -156° 25' -156° 25' -156° 25' -156° 25' -156° 25'	48 40 48 48 51 40		MILITARY AIRWAYS, ASOS, COOP AIRWAYS, COOP AIRWAYS, COOP COOP, WXSVC AIRWAYS, ASOS, COOP AIRWAYS

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	1962-10-01	1998-03-24	DAILY	2400			
PRECIP	1954-04-01	1962-10-01	DAILY	2400	TB	RCRD	
PRECIP	1998-03-24	Present	HOURLY	2400	TB	RCRD	
TEMP	1998-03-24	Present	DAILY	2400	HYGR		
PRECIP	1998-03-24	Present	DAILY	2400	TB	RCRD	
PRECIP	1962-10-01	1998-03-24	DAILY	2400	TB	RCRD	
TEMP	1954-04-01	1962-10-01	DAILY	2400	I	1	
PRECIP	1962-10-01	1998-03-24	HOURLY	2400	ТВ	RCRD	

\* For explanation of codes and abbrevitions see Station Metadata link below.

Other Station Information can be found at:

ASOS Implementation by NWS: http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm Station Metadata website: http://www.ncdc.noaa.gov/homr

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2 Fax Number : (828) 271-4876 TDD : (828) 271-4010 Email : ncdc.orders@noaa.gov NOAA/National Climatic Data Center Attn: User Engagement & Services Branch 151 Patton Avenue Asheville, NC 28801-5001

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