

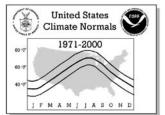
Monthly Station Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971 - 2000







NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER
ASHEVILLE, NC



Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

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United States Climate Normals 1971-2000 J F M A M J J A S O N D

CLIMATOGRAPHY OF THE UNITED STATES NO. 81

Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

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NOTES

Product Description:

This Climatography includes 1971-2000 normals of monthly and annual maximum, minimum, and mean temperature (degrees F), monthly and annual total precipitation (inches), and heating and cooling degree days (base 65 degrees F). Normals stations include both National Weather Service Cooperative Network and Principal Observation (First-Order) locations in the 50 states, Puerto Rico, the Virgin Islands, and Pacific Islands.

Abbreviations:

No. = Station Number in State Map

WBAN ID = Weather Bureau Army Navy ID, if assigned

Elements = Input Elements (X=Maximum Temperature,

N=Minimum Temperature, P=Precipitation)

Call = 3-Letter Station Call Sign, if assigned

MAX = Normal Maximum Temperature (degrees Fahrenheit)

MEAN = Average of MAX and MIN (degrees Fahrenheit)

MIN = Normal Minimum Temperature (degrees Fahrenheit)

HDD = Total Heating Degree Days (base 65 degrees Fahrenheit)

CDD = Total Cooling Degree Days (base 65 degrees Fahrenheit)

Latitude = Latitude in degrees, minutes, and hemisphere (N=North, S=South) COOP ID = Cooperative Network ID (1:2=State ID, 3:6=Station Index) Longitude = Longitude in degrees, minutes, and hemisphere (W=West, E=East)

Elev = Elevation in feet above mean sea level

Flag 1 = * if a published Local Climatological Data station

Flag 2 = + if WMO Fully Qualified (see *Note* below)

HIGHEST MEAN/YEAR = Maximum Mean Monthly Value/Year, 1971-2000

MEDIAN = Median Mean Monthly Value/Year, 1971-2000

LOWEST MEAN/YEAR = Minimum Mean Monthly Value/Year, 1971-2000 MAX OBS TIME ADJUSTMENT = Add to MAX to Get Midnight Obs. Schedule

MIN OBS TIME ADJUSTMENT = Add to MIN to Get Midnight Obs. Schedule

Note: In 1989, the World Meteorological Organization (WMO) prescribed standards of data completeness for the 1961-1990 WMO Standard Normals. For full qualification, no more than three consecutive year-month values can be missing for a given month or no more than five overall values can be missing for a given month (out of 30 values). Stations meeting these standards are indicated with a '+' sign in Flag 2. Otherwise, stations are included in the normals if they have at least 10 year-month values for each month and have been active since January 1999 or were a previous normals station.

Map Legend: Numbers correspond to 'No.' in Station Inventory; Shaded Circles indicate Temperature and Precipitation Stations, Triangles (Point Up) indicate Precipitation-Only Stations, Triangles (Point Down) indicate Temperature-Only Stations, and Hexagons indicate stations with Flag 1 = *.

Computational Procedures:

A climate normal is defined, by convention, as the arithmetic mean of a climatological element computed over three consecutive decades (WMO,1989). Ideally, the data record for such a 30-year period should be free of any inconsistencies in observational practices (e.g., changes in station location, instrumentation, time of observation, etc.) and be serially complete (i.e., no missing values). When present, inconsistencies can lead to a nonclimatic bias in one period of a station's record relative to another, yielding an "inhomogeneous" data record. Adjustments and estimations can make a climate record "homogeneous" and serially complete, and allow a climate normal to be calculated simply as the average of the 30 monthly values.

The methodology employed to generate the 1971-2000 normals is not the same as in previous normals, as it addresses inhomogeneity and missing data value problems using several steps. The technique developed by Karl et al. (1986) is used to adjust monthly maximum and minimum temperature observations of conterminous U.S. stations to a consistent midnight-to-midnight schedule. All monthly temperature averages and precipitation totals are cross-checked against archived daily observations to ensure internal consistency. Each monthly observation is evaluated using a modified quality control procedure (Peterson et al., 1998), where station observation departures are computed, compared with neighboring stations, and then flagged and estimated where large differences with neighboring values exist. Missing or discarded temperature and precipitation observations are replaced using a weighting function derived from the observed relationship between a candidate's monthly observations and those of up to 20 neighboring stations whose observations are most strongly correlated with the candidate site. For temperature estimates, neighboring stations were selected from the U.S. Historical Climatology Network (USHCN; Karl et al. 1990). For precipitation estimates, all available stations were potential neighbors, maximizing station density for estimating the more spatially variable precipitation values.

Peterson and Easterling (1994) and Easterling and Peterson (1995) outline the method for adjusting temperature inhomogeneities. This technique involves comparing the record of the candidate station with a reference series generated from neighboring data. The reference series is reconstructed using a weighted average of first difference observations (the difference from one year to the next) for neighboring stations with the highest correlation with the candidate. The underlying assumption behind this methodology is that temperatures over a region have similar tendencies in variation. If this assumption is violated, the potential discontinuity is evaluated for statistical significance. Where significant discontinuities are detected, the difference in average annual temperatures before and after the inhomogeneity is applied to adjust the mean of the earlier block with the mean of the latter block of data. Such an evaluation requires a minimum of five years between discontinuities. Consequently, if multiple changes occur within five years or if a change occurs very near the end of the normals period (e.g., after 1995), the discontinuity may not be detectable using this methodology.

The monthly normals for maximum and minimum temperature and precipitation are computed simply by averaging the appropriate 30 values from the 1971-2000 record. The monthly average temperature normals are computed by averaging the corresponding monthly maximum and minimum normals. The annual temperature normals are calculated by taking the average of the 12 monthly normals. The annual precipitation and degree day normals are the sum of the 12 monthly normals. Trace precipitation totals are shown as zero. Precipitation totals include rain and the liquid equivalent of frozen and freezing precipitation (e.g., snow, sleet, freezing rain, and hail). For many NWS locations, indicated with an '*' next to 'HDD' and 'CDD' in the degree day table, degree day normals are computed directly from daily values for the 1971-2000 period. For all other stations, estimated degree day totals are based on a modification of the rational conversion formula developed by Thom (1966), using daily spline-fit means and standard deviations of average temperature as inputs.

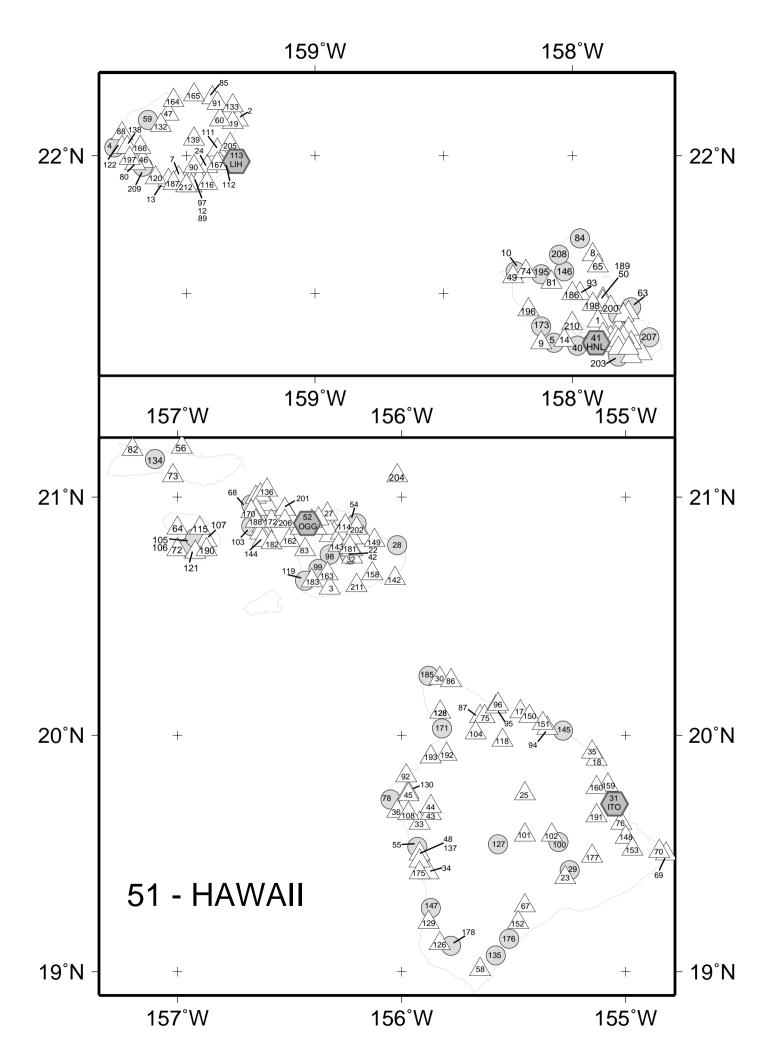
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Peterson, T.C., and D.R. Easterling, 1994: Creation of homogeneous composite climatological reference series. Intl. J. Clim., 14, 671-679.

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World Meteorological Organization, 1989: Calculation of Monthly and Annual 30-Year Standard Normals, WCDP-No. 10, WMO-TD/No. 341, Geneva: World Meteorological Organization.

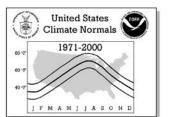
Release Date: Revised 02/2002* National Climatic Data Center/NESDIS/NOAA, Asheville, North Carolina





Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days
1971-2000

No.	COOP ID	WRANID	Flaments	STATION INVEN		Latituda	Longitude	Flov	Flag 1	Flag 2	
1	510123	WDANID	P	ATEA HEIGHTS 764 6	Call	21 24 N	157 55 W	780	i iag i	1 lag 2	
2	510125		P	AIEA HEIGHTS 764.6 ANAHOLA 1114 AUWAHI 252 BARKING SANDS BARBERS POINT NAS		22 08 N	157 33 W	180			
3	510175		P	AUWAHI 252		20 37 N	156 20 W	2060			
4	822501	22501	XNP	BARKING SANDS		22 02 N	159 47 W	13			
5 6	822514 510211	22514	XNP P P	BERETANIA PUMP STN 705		21 19 N	158 U4 W	59 20		+	
7	510240		P	BRYDESWOOD STA 985		21 56 N	159 32 W	720		·	
8	510242		P	B Y U LAIE 903.1		21 39 N	157 56 W	20			
9 10	510248 510305		P	CAMPBELL IND PK 702.5		21 19 N	158 07 W	10		+	
11	510350		P	COCONUT ISLAND 840.1		21 26 N	157 47 W	15			
12	510456		P	EAST LAWAI 934		21 55 N	159 30 W	440		+	
13 14	510470 510507		P	ELEELE 927		21 54 N	159 35 W	150		+	
15	510507		P	FIELD 46 474		20 59 N	156 38 W	1050			
16	510790		P	HAELAAU 477		20 57 N	156 36 W	2980			
17	510840		P	HAINA 214		20 06 N	155 28 W	461			
18 19	510905 510935		P D	HAKALAU 142 HATAIII.A 1110		19 54 N	155 U8 W	160 253			
20	510995		P	HALEAKALA EXP FARM 434		20 51 N	156 18 W	2100			
21	510999		P	BARKING SANDS BARBERS POINT NAS BERETANIA PUMP STN 705 BRYDESWOOD STA 985 B Y U LAIE 903.1 CAMPBELL IND PK 702.5 CAMP ERDMAN 841.16 COCONUT ISLAND 840.1 EAST LAWAI 934 ELEELE 927 EWA PLANTATION 741 FIELD 46 474 HAELAAU 477 HAINA 214 HAKALAU 142 HALAULA 1110 HALEAKALA EXP FARM 434 HALEAKALA RANCH 432 HALEAKALA RANCH 434 HALEAKALA RANCH 435 HALEAKALA RANCH 436 HALEA		20 50 N	156 19 W	1890			
22 23	511004 511033		XNP	HALEAKALA R S 338		20 46 N	156 15 W	6960		+	
24	511033		P	HALENANAHO 1006		21 58 N	159 26 W	490			
25	511065		P	HALEPOHAKU 111		19 46 N	155 28 W	9260		+	
26	511075		P	HALIIMAILE 423		20 52 N	156 21 W	1070		+	
27 28	511086 511125	22538	P XNP	HAMAKUAPOKO 485 HANA AP 355	нни	20 56 N 20 48 N	156 21 W	320 75		+	
29	511303		XNP	HAWAII VOLCNS NP HQ 54		19 26 N	155 16 W	3971		+	
30			P	HAWI 168		20 15 N	155 50 W	580		+	
31 32	511492 511552	21504	XNP	HILO INTL AP	ITO	19 43 N	155 03 W 156 13 W	30 6930	*	+	
33	511557		P	HOLUALOA 70		19 38 N	155 55 W	3220			
34	511665		P P P	HONAUNAU 27		19 25 N	155 53 W	940		+	
35 36	511701		P P	HAWI 168 HILO INTL AP HOLUA CABIN 259.5 HOLUALOA 70 HONAUNAU 27 HONOHINA 137 HONOKOHAU HARBOR 68.14 HONOKOHAU 480 HONOKOHAU 493 HONOLUA FIELD 49 494 HONOLULU INTL AP 703 HONOMANU GULCH 341 HONUAULA 71 HUALALAI 72 HUEHUE 92.1		19 56 N	155 09 W	300			
37	511880 511882		P P	HONOKOHAU 480		20 58 N	156 01 W	870			
38	511887		P	HONOKOHUA 493		21 00 N	156 40 W	220		+	
39	511914		P	HONOLUA FIELD 49 494		21 01 N	156 38 W	130			
40	511918 511919	22521	XNP XNP	HONOLULU OBSERV 702.2	HNT	21 19 N	158 00 W	5 7	*	+	
42	511935		P	HONOMANU GULCH 341		20 47 N	156 14 W	6280			
43	512047		P P	HONUAULA 71		19 40 N	155 53 W	6250			
44 45	512151 512156		P P	HUALALAI 72 HUEHUE 92.1		19 42 N	155 52 W 155 58 W	1960			
46	512161		P	HUKIPO 945			159 41 W	800		+	
47	512227		P	INTAKE WAINIHA 1086			159 34 W				
48 49	512327 512410		P P	KAAWALOA 29 KAENA POINT 841.3			155 55 W 158 14 W			+	
50	512410		P	KAHANA 883			156 14 W	800			
51	512552		P	KAHOMA INTAKE 374		20 54 N	156 38 W				
52 53	512572	22516	XNP P	KAHULUI AP 398 KAILIILI 436	OGG		156 26 W 156 16 W	51	*	+	
53	512630 512679	22523	XNP	KAILUA 446			156 16 W	700			
55	512751		XNP	KAINALIU 73.2		19 32 N	155 56 W	1500			
56	512896		P	KALAUPAPA 563			157 00 W	30		+	
57 58	512960 513054		P P	KALIHI RES SITE 777 KAMAOA PUUEO 5.1			157 49 W 155 40 W	910 1040		+	
59	513099		XNP	KANALOHULUHULU 1075			159 40 W			+	
60	513104		P	KANEHA RESERVOIR 1092			159 22 W	810			
61 62	513113 513117		XNP P	KANEOHE MAUKA 781 KANEOHE 838.1			157 49 W 157 48 W	190 60			
63	822519	22519	XNP	KANEOHE MCAS			157 46 W	39			
64	513130		P	KANEPUU 690			157 00 W				
65 66	513208 513268		P P	KAPAKA FARM 904.1 KAPALAMA 773			157 54 W 157 51 W	10 614			
67	513208		P P	KAPAPALA RANCH 36			157 51 W			+	
68	513317		XNP	KAPALUA-WEST MAUI AP 462		20 58 N	156 41 W	240			
69	513368		P P	KAPOHO BEACH 93.11			154 49 W	10 290			
70	513369		P	KAPOHO LANDING 93.5		12 3U N	154 52 W	∠90			



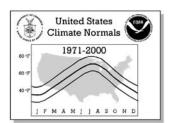
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1971-2000

No.	COOP ID	WBAN ID	Elements	Station Name	Call	Latitude	Longitude	Elev	Flag 1 Flag 2
71	513433		P	KAUAULA INTAKE 375		20 53 N	156 38 W	1590	
72	513461		P	KAUMALAPAU HARBOR 658 KAUNAKAKAI 536 KAWAIHAPAI 841 KAWAINUI LOWER 193		20 47 N	157 00 W	30	
73	513541		P	KAUNAKAKAI 536		21 05 N	157 01 W	12	
74 75	513734		P	KAWAIHAPAI 841		21 35 N	158 11 W	1000	
76	513770 513872		P D	KEAAII 92		20 05 N	155 39 W	220	+
77	513910		P	KEAHUA 410		20 52 N	156 23 W	480	+
78	513911		XNP	KE-AHOLE POINT 68.13		19 44 N	156 04 W	20	
79	514091		P	KEANAE 346		20 50 N	156 10 W	980	
80 81	514272		P	KEKAHA 944		21 58 N	159 43 W	725	
82	514318 514394		D D	KEMOO CAMP 8 855 KEONET.ET.E DENG 551		21 32 N	158 U5 W	725 560	+
83	514489		P	KIHEI 311		20 47 N	156 26 W	160	+
84	514500		XNP	KII-KAHUKU 911		21 42 N	157 59 W	15	
85	514561		P	KILAUEA 1134		22 13 N	159 24 W	320	+
86	514680		P	KOHALA MISSION 175.1		20 14 N	155 48 W	540	+
87 88	514685 514735		P D	KOTAWE LOWER 196		20 05 N	155 38 W	720	+
89	514742		P	KOLOA 936		21 55 N	159 28 W	240	+
90	514750		P	KOLOA MAUKA 994		21 57 N	159 28 W	640	
91	514758		P	KOLOKO RESERVOIR 1137		22 11 N	159 23 W	490	
92	514765		P	KONA VILLAGE 93.8		19 50 N	155 59 W	20	+
93 94	514766 514815		D F	KIIKATAII 222		20 02 M	157 58 W	840	
95	E14020		P	KUKUIHAELE HIC 199		20 02 N	155 21 W	980	
96	514938		P	KAUNAKAKAI 536 KAWAIHAPAI 841 KAWAINUI LOWER 193 KEAAU 92 KEAHUA 410 KE-AHOLE POINT 68.13 KEANAE 346 KEKAHA 944 KEMOO CAMP 8 855 KEONELELE PENS 551 KIHEI 311 KII-KAHUKU 911 KILAUEA 1134 KOHALA MISSION 175.1 KOIAWE LOWER 196 KOLO 1033 KOLOA 936 KOLOA MAUKA 994 KOLOKO RESERVOIR 1137 KONA VILLAGE 93.8 KOOLAU DAM 833 KUKAIAU 222 KUKUIHAELE HIC 199 KUKUIHAELE HIC 199 KUKUIHAELE MILL 206 KUKUIULA 935 KULA BRANCH STN 324.5 KULA HOSPITAL 267 KULANI CAMP 79 KULANI MAUKA 76 KULANI CAMP 79 KULANI MAUKA 76 KULANI SCHOOL SITE 78 LAHAINA 361 LALAMILO FLD OF 191.1 LANAI AP 656 LANAI CITY 672 LANAIHALE 684 LANIHAU 68.2 LAUNIUPOKO INTAKE 376 LAUNIUPOKO VILLAGE 372 LIHUE VRTY STA 1062.1 LIHUE 1020 LIHUE AP 1020.1 LUPI UPPER 442 MAHANA 694 MAHAULEPU 941.1 MAHINAHINA 466 MAKAHALAU 103 MMKENA GOLE CRS 249 1		20 08 N	155 34 W	300	
97	514950		P	KUKUIULA 935		21 53 N	159 30 W	100	
98	515000		XNP	KULA BRANCH STN 324.5		20 46 N	156 19 W	3050	
99 100	515004 515011		XND	KULA HUSPITAL 267		20 42 N	156 22 W	3004 5170	+
101	515011		P	KULANI MAUKA 76		19 35 N	155 27 W	8300	'
102	515021		P	KULANI SCHOOL SITE 78		19 35 N	155 20 W	5736	
103	2727//		XNP	LAHAINA 361		20 53 N	156 41 W	40	+
104		22524	P	LALAMILO FLD OF 191.1		20 01 N	155 41 W	2615	
105 106	515275 515286	22524	XNP XNP	LANAI CITY 672		20 48 N	156 57 W	1620	
107	515301		P	LANAIHALE 684		20 49 N	156 53 W	3370	
108	515330		P	LANIHAU 68.2		19 40 N	155 58 W	1530	+
109	515404		P	LAUNIUPOKO INTAKE 376		20 51 N	156 37 W	1280	
110 111	515408 515560		P	LAUNIUPOKO VILLAGE 372		20 51 N	156 39 W	220	+
112	515575	22532	P	LINUE VRII SIA 1002.1		21 58 N	159 23 W	207	
113	515580		XNP	LIHUE AP 1020.1	LIH	21 59 N	159 20 W	103	* +
114	515665		P	LUPI UPPER 442		20 53 N	156 15 W	1240	
115	515704		P	MAHANA 694		20 52 N	156 55 W	1540	
116 117	515710 515715		Þ	MAHINAHINA 466		21 54 N	159 25 W 156 40 W	720	_
118	515761		P	MAKAHALAU 103		19 59 N	155 33 W	3821	+
119	515842		XNP	MAKENA GOLF CRS 249.1		20 39 N	156 27 W	100	
120	515864		P	MAKAWELI 965			159 38 W		
121	516012		P	MALAUEA 676			156 55 W 159 46 W		
122 123	516082 516122		P P	MANA 1026 MANOA 712.1			159 46 W 157 49 W		+
124	516128		XNP	MANOA LYON ARBORETUM			157 49 W		+
125	516130		P	MANOA TUN 2 716			157 47 W		+
126	516134		P	MANUKA 2			155 50 W		+
127 128	516198 516270		XNP P	MAUNA LOA SLOPE OBS MIDDLE PEN 147.1			155 35 W 155 50 W		
129	516270		P	MILOLII 2.34			155 50 W		
130	516330		P	MOANUIAHEA 69.24			155 58 W		
131	516395		P	TIOTENTED TO			157 53 W		+
132	516433		P	MOHIHI UPR CRSG 1083			159 36 W		
133 134	516529 516534	22534	P XNP	MOLOAA 1145 MOLOKAI KAUNAKAKAI AP524	MKK		159 20 W		+
135	516588	22331	XNP	NAALEHU 14	MAIN		155 35 W		+
136	516645		P	NAKALELE FIELD 60 497			156 36 W		
137	516697		P	NAPOOPOO 28			155 55 W		
138	516850		P	NIU RIDGE 1035			159 44 W		+
139 140	516888 516928		P P	N WAILUA DITCH 1051 NUUANU RES 4 783			159 28 W 157 48 W		+
	310720			1.00111.0 1.110 1 7.00				1010	·

CLIMATOGRAPHY OF THE UNITED STATES NO. 81

Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days
1971-2000

NI-	0000.10	M/DAN ID Flamanta	STATION IN Station Name	IVENTORY	1 -4:	41	1	- Flori	5 1 4	FI 0	
No.		WBAN ID Elements	Station Name NUUANU RES 5 775 OHE'O 258.6 OLINDA #1 332 OLOWALU 296.1 OOKALA 223 OPAEULA 870 OPIHIHALE 2 24.1 ORCHID LD ESTATE 91.5 PAAKEA 350 PAAUHAU 217 PAAUILO 221 PAHALA MAUKA 21.3 PAHOA 65 PAIKO DRIVE 723.4 PAIA 406 PALI GOLF COURSE 788.1 PALOLO VALLEY 718 PANILEIHULU 259.2 PAPAIKOU 144.1 PAPAIKOU MAUKA 140.1 PAUOA FLATS 784 POHAKEA BRIDGE 307.2 POLIPOLI SPRINGS 267.2 PH WAINIHA 1115 PRINCEVILLE RANCH 1117 PUEHU RIDGE 1040 PUHT 1013	Call	Lati	tude	Longitude	Elev	Flag 1	Flag 2	
141 142	516933 517000	P	NUUANU RES 5 775		21 2	20 N	157 50 W	410			
143		P P	OLINDA #1 332		20 4	18 N	156 17 W	4130			
144	517059	P P XNP	OLOWALU 296.1		20 4	19 N	156 37 W	30		+	
145	517131	XNP	OOKALA 223		20 (01 N	155 17 W	430			
146	517150	XNP XNP	OPAEULA 870		21 3	35 N	158 02 W	1000			
147 148	517166 517185	XNP	OPIHIHALE 2 24.1		19 1	L6 N	155 53 W	1360 1360		+	
149	517103	P	PAAKEA 350		20 4	19 N	156 07 W	1260			
150	517204	P P P	РААИНАИ 217		20 (05 N	155 26 W	415			
151	517312	P P	PAAUILO 221		20 (03 N	155 22 W	800		+	
152	517437	P	PAHALA MAUKA 21.3		19 1	13 N	155 29 W	1170			
153 154	517457 517540	P P	PAHUA 65 DATKO DRIVE 723 4		19 S	31 N 17 N	154 58 W	10			
155	F17F66	P	PAIA 406		20 5	55 N	156 23 W	170		+	
156	517656	P	PALI GOLF COURSE 788.1		21 2	22 N	157 47 W	480		+	
157	517664	P	PALOLO VALLEY 718		21 1	19 N	157 46 W	995		+	
158	517674	P	PANILEIHULU 259.2		20 4	41 N	156 08 W	3570			
159 160	517711 517721	D F.	PAPATKOU 144.1 PAPATKOU MAUKA 140 1		19 4	± / N 17 N	155 NA W	1285		+	
161	517721	P	PAUOA FLATS 784		21 2	21 N	157 48 W	1640		+	
162	518060	P	POHAKEA BRIDGE 307.2		20 4	49 N	156 31 W	170		+	
163	518070	P	POLIPOLI SPRINGS 267.2		20 4	41 N	156 20 W	6150			
164 165	518155	P P P P P P	PH WAINIHA 1115		22 1	12 N	159 33 W	101		+	
166	518165 518205	P P	PRINCEVILLE RANCH 1117 PUEHU RIDGE 1040 PUHI 1013 PUNCHBOWL CRATER 709 PUOHOKAMOA 2 343 PUUKOLII 457.1 PUUKOHOLA HEIAU 98.1 PUU KUKUI 380 PUU MANAWAHUA 725.6 PUUNENE 396 PUUHONUA-O-HONAUNAU 27.4 SEA MOUNTAIN 12.15 S GLEWNWOOD 91.8 SOUTH KONA 2 2.32 SPRECKELSVILLE 400 TANTALUS 2 780.5 UKULELE 333 UKUMEHAME 301 ULUPALAKUA RANCH 250 UNIV OF HAWAII 713 UPOLU POINT USCG 159.2		22 ()2 N	159 42 W	1600		+	
167	518217	P	PUHI 1013		21 5	58 N	159 24 W	329		·	
168	518316	P P P P	PUNCHBOWL CRATER 709		21 1	19 N	157 51 W	360		+	
169	518336	P	PUOHOKAMOA 2 343		20 5	50 N	156 13 W	2980			
170 171	518407 518422	P XNP	PUUKOLII 457.1		20 5	06 N	156 40 W	140			
172	518433	ANP P	PUUKOHOLA HETAU 98.1		20 0	54 N	156 35 W	5789			
173	518500	XNP	PUU MANAWAHUA 725.6		21 2	23 N	158 07 W	1673			
174	518543	Р	PUUNENE 396		20 5	52 N	156 27 W	60		+	
175	518552	P	PUUHONUA-O-HONAUNAU 27.4		19 2	25 N	155 55 W	15			
176 177	518600 518638	XNP P	SEA MOUNTAIN 12.15		19 (18 N	155 31 W	70 2285			
178	518652	XNP	SOUTH KONA 2 2.32		19 (06 N	155 47 W	2360			
179	518688	P P	SPRECKELSVILLE 400		20 5	54 N	156 25 W	90		+	
180	518738	P	TANTALUS 2 780.5		21 2	20 N	157 49 W	1330		+	
181 182	518744 518750	P P	UKULELE 333		20 4	18 N	156 15 W	5230		+	
183	518760	P D	III.IIPAI.AKIIA RANCH 250		20 3	39 N	156 24 W	1900		+	
184	518815	P P	UNIV OF HAWAII 713		21 1	18 N	157 49 W	79		+	
185	518830	XNP	UPOLU POINT USCG 159.2	1Z2	20 1	15 N	155 53 W	61			
186	518838	P	UPPER WAHIAWA 874.3		21 3	30 N	158 00 W	1045			
187 188	518941 518955	P P	WAHIAWA 930 WAHIKULI 364				159 33 W 156 40 W	215 580		+	
189	518964	P	WAIAHOLE 837				157 53 W	745		•	
190	519021	P	WAIAKEAKUA 685		20 4	17 N	156 52 W	2000			
191	519025	P	WAIAKEA SCD 88.2				155 08 W			+	
192 193	519142 519144	P P	WAIKOLOA 95.8 WAIKOLOA BEACH RT 95.9				155 48 W 155 53 W	880 80			
193	519144	P	WAIALAE KAHALA 715				155 53 W	10		+	
195	519195	XNP	WAIALUA 847				158 07 W	32			
196	519231	P	WAIANAE 798				158 11 W	50		+	
197 198	519253	P P	WAIAWA 943				159 44 W	10 800		+	
198	519261 519275	P P	WAIAWA 836 WAIEHU CAMP 484				157 56 W 156 31 W	320		+	
200	519281	P	WAIHEE 837.5				157 51 W	110		•	
201	519315	P	WAIHEE VALLEY 482				156 32 W	300		+	
202	519332	P	WAIKAMOI 449					1200			
203 204	519397 519404	XNP P	WAIKIKI 717.2 WAIKOLU 540				157 49 W 156 01 W	10 3550		+	
204	519404	P	WAILUA KAI 1065				150 01 W	50			
206	519484	P	WAILUKU 386				156 31 W	540		+	
207	519523	22503 XNP	WAIMANALO EXP F 795.1				157 43 W	60		+	
208 209	519603 519629	XNP XNP	WAIMEA ARBORETUM 892.2				158 03 W 159 40 W	40 20			
209	519629	XNP P	WAIMEA 947 WAIPAHU 750				159 40 W	20 59		+	
L	227730									•	



Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days
1971-2000

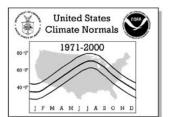
No. COOP ID WBAN ID Elements Station Name Call Latitude Longitude Elev Flag 1 Flag 2 211 519765 P WAIOPAT RANCH 256 20 38 N 156 12 W 220 + 212 519955 P WEST LAWAI 931 21 54 N 159 31 W 210 + 213 519980 P WILHELMINA RISE 721 21 18 N 157 47 W 1100 +	
212 519955 P WEST LAWAI 931 21 54 N 159 31 W 210 +	
213 519980 P WILHELMINA RISE 721 21 18 N 157 47 W 1100 +	

United States Climate Normals 1971-2000 60 7 40 77 J F M A M J J A S O N D

CLIMATOGRAPHY OF THE UNITED STATES NO. 81

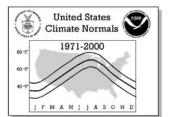
Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days
1971-2000

No Stabion Name Stabion Name S	-54						TEME	FRATII	RE NO	RMALS	Degree	s Fahrer	nheit)		
MSAN 11.8 72.0 72.9 73.8 75.0 76.8 76.1 78.8 78.9 77.8 75.4 73.3 75.4	No. Station Name	Element	JAN	FEB	MAR	APR							,	DEC	ANNUAL
MIN 64.5 64.7 65.1 65.6 67.0 68.9 67.0 68.9 67.0 68.9 67.0 68.9 67.0 68.0 68.0 6	004 BARKING SANDS	MAX	79.0	79.3	80.7	81.9	83.0	84.6	85.8	86.7	86.7	85.6	82.9	80.7	83.1
Dec Barbers Point Nas		MEAN	71.8	72.0	72.9	73.8	75.0		78.1	78.8	78.9	77.8	75.4	73.3	75.4
NRAM 73.0 73.1 74.2 75.6 76.9 79.1 80.3 80.6 80.6 87.3 77.1 77.2 77.0															
MIN 65.0 64.7 66.0 67.4 67.5 67.0 70.7 72.1 72.3 72.4 71.4 69.6 68.8 68.9 68.8	005 BARBERS POINT NAS					1									I I
Mean 71.7 71.5 72.5 73.4 75.2 77.4 78.1 78.9 79.3 78.0 75.4 73.6 75.4						1									1
MIN 64.8 64.6 65.7 66.2 67.7 69.7 70.6 71.3 71.6 70.7 68.6 67.3 66.2 62.6	010 CAMP ERDMAN 841.16	MAX	78.6	78.3	79.3	80.5	82.7	85.0	85.6	86.5	86.9	85.2	82.2	79.9	82.6
Dec Malemaria R S 318 Max S 0.0 S 9.1 S 9.7 S 1.0 S 1.2 S 1.2 S 1.5 S 1.															
Mean Silo Solo	022 HATEAKATA D C 228														
ABAN A AP 355 MAX 77.5 77.6 77.6 77.6 77.6 78.1 79.4 80.9 81.5 82.6 82.9 82.0 80.0 78.4 79.9	022 HADEARADA R 5 550														I I
MAX 0.9 71.0 71.6 72.5 73.6 75.1 76.0 76.8 76.7 76.0 74.6 72.4 73.9		MIN	42.0	41.3	42.2	42.6	44.0	46.5	47.7	47.8	46.8	46.4	45.9	43.5	
MAX 029 HAWAII VOLCKIS NP H0 54 MAX 66.7 6 67.6 67.0 67.8 68.2 70.4 71.0 70.4 70.0 69.1 66.4 68.0	028 HANA AP 355														
0.29 HAWAII VOLCINS NIP HQ 54 MAX 67.5 67.5 67.1 67.3 69.0 70.4 71.5 73.0 72.9 72.0 69.6 67.6 69.6 61.3															
MEAN 58.6 58.6 59.8 59.5 60.9 62.3 63.4 64.3 64.1 63.5 61.7 59.4 61.2 63.1	029 HAWAII VOLCNS NP HO 54														
MIN MAX 79.2 79.4 79.2 79.3 80.6 82.2 82.5 82.8 82.8 83.4 82.7 80.7 79.5 81.0	~					1									1
MEAN 71.4 71.5 72.0 72.5 73.7 75.1 75.9 76.3 76.2 75.6 74.0 72.2 73.9															
MIN G3.6 63.5 64.7 65.6 66.7 68.0 69.2 69.4 69.0 68.5 67.2 64.9 66.7	031 HILO INTL AP														
A40 HONOLULU OSSERV 702.2 MAX 80.6 81.6 83.0 84.5 86.6 87.8 88.6 88.5 86.9 84.3 81.7 84.5															
MIN 62.7 62.4 66.4 66.3 67.6 70.1 71.2 71.2 70.1 69.3 67.6 64.8 67.3 041 HONOLULU INTL AP 703 MAX 80.4 80.7 81.7 81.7 81.8 18.4.9 86.9 87.8 81.8 81.8 81.8 18.9 80.2 77.7 74.8 77.5 68.2 81.3 81.8 81.8 81.8 81.8 81.8 81.8 81.8	040 HONOLULU OBSERV 702.2														
MAX		MEAN				1									1
MEAN 73.0 73.0 74.3 75.6 77.2 79.5 80.8 81.8 81.5 80.2 77.7 74.8 77.5	0.41 1101101 111 11 11111 1 1 1 1 1 1 1 1														
MIN 65.7 65.4 66.9 68.2 69.6 72.1 73.8 74.7 74.2 73.2 71.1 67.8 70.2	041 HONOLULU INTL AP 703														
BO.3 BO.3 BO.4 BO.5															
MIN 63.3 63.1 64.6 66.0 67.0 69.3 70.8 71.0 70.0 69.4 67.9 65.1 67.3 67.8 67.1 75.9 75.5 75.7 77.0 78.7 79.3 80.5 81.1 79.9 77.4 76.3 77.8 7	052 KAHULUI AP 398														
054 KAILUA 446															1
MEAN 67.9 67.6 68.1 69.0 70.2 71.7 72.8 73.5 73.7 72.7 70.9 68.9 70.6	054 83 1113 446														
MIN 59.6 59.2 60.6 62.3 63.4 64.7 66.2 66.4 66.2 66.4 66.2 66.4 66.2 66.4 66.2 66.4 66.2 66.4 66.2 66.4 66.2 66.4 66.2 66.4 66.2 66.4 66.2 66.4 66.2 66.4 66.2 66.4 66.2 66.4 66.2 66.4 66.2 66.4 66.5 67.5 67.4 67.8 68.3 68.9 69.9 71.0 71.5 71.7 71.8 70.7 68.8 69.6 69.6 67.8 68.4 69.6 67.8 70.1 71.5 71.7 71.8 70.7 68.8 69.6 67.8 68.4 69.6 67.8 70.1 71.1 72.2 72.3 70.5 67.3 64.0 67.8 67.8 67.1 71.1 72.2 72.3 70.5 67.3 64.0 67.8 67.8 67.1 71.1 72.2 72.3 70.5 67.3 64.0 67.8 67.8 67.1 71.1 72.2 72.3 70.5 67.3 64.0 67.8 67.8 67.1 71.1 72.2 72.3 70.5 67.3 64.0 67.8 67.8 67.1 71.1 72.2 72.3 70.5 67.3 64.0 67.8 67.8 67.1 71.1 72.2 72.3 70.5 67.3 64.0 67.8 67.8 67.1 71.1 72.2 72.3 70.5 67.3 64.0 67.8 67.8 67.1 71.1 72.2 72.3 70.5 67.3 64.0 67.8 67.8 67.1 71.1 72.2 72.3 72.5 7	US4 KAILUA 440														
MEAN 67.5 67.4 67.8 68.3 68.9 69.9 71.0 71.5 71.7 71.8 70.7 68.8 69.6 69.9 69.9 71.0 71.5 71.7 71.8 70.7 68.8 69.6 69.9 69.9 71.0 71.5 71.7 71.8 70.7 68.8 69.6 69.9 69.9 71.0 71.5 71.7 71.8 70.7 68.8 69.6 69.8 69.9 71.0 71.5 71.7 71.8 70.7 68.8 69.6 69.8 69.9 71.0 71.5 71.7 71.8 70.5 70.5 70.5 70.1 71.1 72.2 72.3 70.5 67.3 64.0 67.8 67.8 70.5 70.5 70.5 70.1 71.1 72.2 72.3 70.5 67.3 64.0 67.8 70.5												-			
MIN 59.0 58.4 59.3 60.4 61.4 62.7 64.0 63.9 63.8 63.6 62.7 60.1 61.6	055 KAINALIU 73.2					1									1
059 KANALOHULUHULU 1075						1									1
MEAN 54.9 55.2 56.7 58.1 59.4 61.9 63.2 63.7 63.0 61.9 59.3 56.3 59.5	059 KANALOHILIHILLI 1075														
061 KANEOHE MAUKA 781 MAX 76.9 77.4 77.5 78.0 79.6 81.3 81.9 82.8 83.4 82.3 79.7 78.2 79.9 MEAN 71.5 71.8 72.3 73.2 74.6 76.3 77.0 77.9 77.0 77.9 77.0 77.9 77.0 77.9 77.0 77.0	039 KANALOHOLOHOLO 1073														
MEAN MIN 66.1 66.1 66.1 67.1 68.3 69.6 77.0 77.9 77.9 77.0 74.8 73.1 74.8 69.6 69.6 69.6 69.6 69.6 69.6 69.6 69		MIN	46.7	46.2	48.5	50.1	51.0	53.6	55.3	55.2	53.6	53.2	51.3	48.6	51.1
MIN 66.1 66.1 67.1 68.3 69.6 71.2 72.0 72.9 72.4 71.7 69.9 68.0 69.6	061 KANEOHE MAUKA 781					ı									1
063 KANEOHE MCAS						ı			1						1
MEAN MIN 68.8 68.9 69.7 70.6 71.8 73.4 74.3 75.2 75.6 74.7 72.8 70.3 72.2 72.8 73.7 75.0 76.8 MIN 68.8 68.9 69.7 70.6 71.8 73.4 74.3 75.2 75.6 74.7 72.8 70.3 72.2 72.8 73.7 75.0 75.8 73.4 74.3 75.2 75.6 74.7 72.8 70.3 72.2 72.8 73.7 75.3 76.7 77.8 78.4 78.6 77.7 75.7 73.3 75.4 MEAN MEAN 72.0 72.2 72.8 73.7 75.3 76.7 77.8 78.4 78.6 77.7 75.7 73.3 75.4 MIN 65.6 65.5 66.2 67.3 68.4 70.0 71.1 71.5 71.5 70.9 69.6 67.2 68.7 73.8 MEAN 73.5 73.7 74.6 75.8 77.3 78.2 79.3 79.9 79.7 78.9 77.2 74.8 78.9 MIN 66.2 66.2 67.2 68.7 70.3 71.5 72.7 73.2 73.0 72.2 74.8 76.9 MIN 66.2 66.2 67.2 68.7 70.3 71.5 72.7 73.2 73.0 72.2 70.4 67.9 70.0 70.0 70.0 70.0 70.0 70.0 70.0 7	063 KANEOHE MCAS														
068 KAPALUA-WEST MAUI AP 46 MAX MEAN 72.0 72.2 72.8 73.7 75.3 76.7 77.8 78.4 78.6 77.7 75.7 73.3 75.4 MEAN 72.0 72.2 72.8 73.7 75.3 76.7 77.8 78.4 78.6 77.7 75.7 73.3 75.4 MIN 65.6 65.5 66.2 67.3 68.4 70.0 71.1 71.5 71.5 71.5 70.9 69.6 67.2 68.7 70.8 KE-AHOLE POINT 68.13 MAX 80.7 81.1 82.0 82.9 84.2 84.8 85.9 86.6 86.4 85.5 83.9 81.7 83.8 MEAN 73.5 73.7 74.6 75.8 77.3 78.2 79.3 79.9 79.7 78.9 77.2 74.8 76.9 MIN 66.2 66.2 67.2 68.7 70.3 71.5 72.7 73.2 73.0 72.2 70.4 67.9 70.0 84 KII-KAHUKU 911 MAX 77.4 77.5 77.9 78.5 79.9 81.3 82.3 83.6 83.6 83.2 80.3 78.5 80.3 MEAN 71.8 71.6 72.6 73.7 74.6 76.6 76.4 74.7 8.5 78.6 78.1 75.2 72.9 70.9 68.1 70.0 88 KULA BRANCH STN 324.5 MAX 69.1 69.0 69.7 70.8 71.9 74.0 75.6 76.6 77.4 78.5 78.6 78.1 75.2 72.9 70.9 68.1 70.0 69.9 KULA HOSPITAL 267 MAX 67.9 68.1 68.6 69.8 71.4 73.1 74.4 75.1 74.6 73.6 71.7 69.3 71.5 44.1 MIN 52.9 52.7 52.8 53.7 54.8 56.3 57.5 58.1 58.3 57.5 56.0 54.1 55.4 81.9 MIN 42.9 43.2 44.6 46.2 47.1 48.7 50.4 50.6 50.3 49.8 48.0 44.8 47.2 103 LAHAINA 361 MAX 81.6 81.8 82.8 83.7 84.5 86.9 70.1 70.6 70.6 69.7 68.0 65.6 67.4 74.7 79.4 79.5 78.6 77.4 74.3 76.3 MIN 64.1 63.7 64.7 66.0 67.3 68.9 70.1 70.6 70.6 69.7 68.0 65.6 67.4		MEAN	73.8	73.8		75.1	76.4			79.8	80.3	79.3	77.1		76.8
MEAN 72.0 72.2 72.8 73.7 75.3 76.7 77.8 78.4 78.6 77.7 75.7 73.3 75.4															
MIN 65.6 65.5 66.2 67.3 68.4 70.0 71.1 71.5 71.5 70.9 69.6 67.2 68.7 078 KE-AHOLE POINT 68.13 MAX 80.7 81.1 82.0 82.9 84.2 84.8 85.9 86.6 86.4 85.5 83.9 81.7 83.8 MEAN 73.5 73.7 74.6 75.8 77.3 78.2 79.3 79.9 79.7 78.9 77.2 74.8 76.9 MIN 66.2 66.2 67.2 68.7 70.3 71.5 72.7 73.2 73.0 72.2 70.4 67.9 70.0 084 KII-KAHUKU 911 MAX 77.4 77.5 77.9 78.5 79.9 81.3 82.3 83.6 83.6 83.2 80.3 78.5 80.3 MEAN 71.8 71.6 72.6 73.7 74.6 76.6 77.4 78.5 78.6 78.1 75.6 73.3 75.2 MIN 66.1 65.7 67.2 68.8 69.3 71.8 72.5 73.4 73.5 72.9 70.9 68.1 70.0 084 KULA BRANCH STN 324.5 MAX 69.1 69.0 69.7 70.8 71.9 74.0 75.6 76.6 76.1 75.2 72.9 70.9 68.1 70.0 MEAN 61.0 60.9 61.3 62.3 63.4 65.2 66.6 67.4 67.2 66.4 64.5 62.4 64.1 MIN 52.9 52.7 52.8 53.7 54.8 56.3 57.5 58.1 58.3 57.5 56.0 54.1 55.4 MIN 51.9 51.2 51.9 53.0 54.3 55.6 56.7 57.4 73.6 75.6 75.4 53.9 62.7 63.6 MEAN 75.9 59.7 60.3 61.4 62.9 64.4 65.6 66.3 66.1 65.3 63.6 61.1 63.1 MIN 51.9 51.2 51.9 53.0 54.3 55.6 56.7 57.4 57.6 56.9 55.5 52.9 54.6 MEAN 75.9 52.8 52.8 53.8 54.8 56.3 57.8 58.2 58.2 57.8 56.0 53.8 55.4 MIN 42.9 43.2 44.6 46.2 47.1 48.7 50.4 50.4 50.6 50.3 49.8 48.0 44.8 47.2 103 LAHAINA 361 MAX 81.6 81.8 82.8 82.8 83.7 84.5 86.2 87.2 88.1 88.3 87.4 85.4 85.0 MEAN 72.9 72.8 73.8 73.9 74.9 75.9 77.6 77.6 77.9 77.4 77.9 77.0 77.0 77.6 70.6 60.7 63.0 67.4 77.0 77.0 77.0 77.0 77.0 77.0 77.0 7	068 KAPALUA-WEST MAUI AP 46														1
078 KE-AHOLE POINT 68.13 MAX MEAN 73.5 73.7 74.6 75.8 77.3 78.2 79.3 79.9 79.7 78.9 77.2 74.8 76.9 MIN 66.2 66.2 67.2 68.7 70.3 71.5 72.7 73.2 73.0 72.2 70.4 67.9 70.0 MAX 77.4 77.5 77.9 78.5 79.9 81.3 82.3 83.6 83.6 83.2 80.3 78.5 80.3 MEAN 71.8 71.6 72.6 73.7 74.6 76.6 77.4 78.5 78.6 78.1 75.6 73.3 75.2 MIN 66.1 65.7 67.2 68.8 69.3 71.8 72.5 73.4 73.5 72.9 70.9 68.1 70.0 098 KULA BRANCH STN 324.5 MAX 69.1 69.0 69.7 70.8 71.9 74.0 75.6 76.6 76.6 76.1 75.2 72.9 70.9 68.1 70.0 MEAN 61.0 60.9 61.3 62.3 63.4 65.2 66.6 67.4 67.2 66.4 64.5 62.4 64.1 MIN 52.9 52.7 52.8 53.7 54.8 56.3 57.5 58.1 58.3 57.5 56.0 54.1 55.4 MEAN 59.9 59.7 60.3 61.4 62.9 64.4 65.6 66.3 66.1 65.3 63.6 61.1 63.1 MIN 51.9 51.2 51.9 53.0 54.3 55.6 56.7 57.4 57.6 56.9 55.5 52.9 54.6 100 KULANI CAMP 79 MAX 62.9 62.3 60.9 61.3 62.4 63.9 65.1 65.8 66.0 65.7 63.9 62.7 63.6 MEAN 52.9 52.8 52.8 52.8 53.8 54.8 56.3 57.8 58.2 58.2 57.8 56.0 53.8 55.4 MIN 42.9 43.2 44.6 46.2 47.1 48.7 50.4 50.6 50.3 49.8 48.0 44.8 47.2 103 LAHAINA 361 MAX 81.6 81.8 82.8 83.7 84.5 86.2 87.2 88.1 88.3 87.4 85.4 83.0 85.0 MEAN 72.9 72.8 73.8 74.9 75.9 77.6 78.7 79.4 79.5 78.6 76.7 74.3 76.3 MEAN 72.9 72.8 73.8 74.9 75.9 77.6 78.7 79.4 79.5 78.6 76.7 74.3 76.3 MIN 64.1 63.7 64.7 66.0 67.3 68.9 70.1 70.6 70.6 69.7 68.0 65.6 67.4						ı			1						I I
MIN 66.2 66.2 67.2 68.7 70.3 71.5 72.7 73.2 73.0 72.2 70.4 67.9 70.0 084 KII-KAHUKU 911 MAX 77.4 77.5 77.9 78.5 79.9 81.3 82.3 83.6 83.6 83.2 80.3 78.5 80.3 MEAN 71.8 71.6 72.6 73.7 74.6 76.6 77.4 78.5 78.6 78.1 75.6 73.3 75.2 MIN 66.1 65.7 67.2 68.8 69.3 71.8 72.5 73.4 73.5 72.9 70.9 68.1 70.0 098 KULA BRANCH STN 324.5 MAX 69.1 69.0 69.7 70.8 71.9 74.0 75.6 76.6 76.1 75.2 72.9 70.6 72.6 MEAN 61.0 60.9 61.3 62.3 63.4 65.2 66.6 67.4 67.2 66.4 64.5 62.4 64.1 MIN 52.9 52.7 52.8 53.7 54.8 56.3 57.5 58.1 58.3 57.5 56.0 54.1 55.4 MEAN 59.9 59.7 60.3 61.4 62.9 64.4 65.6 66.3 66.1 65.3 63.6 61.1 63.1 MIN 51.9 51.2 51.9 53.0 54.3 55.6 56.7 57.4 57.6 56.9 55.5 52.9 54.6 100 KULANI CAMP 79 MAX 62.9 62.3 60.9 61.3 62.4 63.9 65.1 65.8 66.0 65.7 63.9 62.7 63.6 MEAN MIN 42.9 43.2 44.6 46.2 47.1 48.7 50.4 50.6 50.3 49.8 48.0 44.8 47.2 103 Lahaina 361 MAX 81.6 81.8 82.8 83.7 84.5 86.2 87.2 88.1 88.3 87.4 85.4 83.0 85.0 MEAN MIN 64.1 63.7 64.7 66.0 67.3 68.9 70.1 70.6 70.6 69.7 68.0 65.6 67.4	078 KE-AHOLE POINT 68.13														
084 KII-KAHUKU 911 MAX MEAN 71.8 71.6 72.6 73.7 74.6 76.6 77.4 78.5 78.6 78.1 75.6 73.3 75.2 MIN 66.1 65.7 67.2 68.8 69.3 71.8 72.5 73.4 73.5 72.9 70.9 68.1 70.0 098 KULA BRANCH STN 324.5 MAX MEAN 69.1 69.0 69.7 70.8 71.9 74.0 75.6 76.6 76.6 76.1 75.2 72.9 70.9 68.1 MIN 52.9 52.7 52.8 53.7 54.8 56.3 57.5 58.3 57.5 56.0 54.1 55.4 099 KULA HOSPITAL 267 MAX 67.9 68.1 68.6 69.8 71.4 73.1 74.4 75.1 74.6 73.6 71.7 69.3 71.5 MEAN 59.9 59.7 60.3 61.4 62.9 64.4 65.6 66.3 66.1 65.3 63.6 61.1 63.1 MIN 51.9 51.2 51.9 53.0 54.3 55.6 56.7 57.4 57.6 56.9 55.5 52.9 54.6 100 KULANI CAMP 79 MAX 62.9 62.3 60.9 61.3 62.4 63.9 65.1 65.8 66.0 65.7 63.9 62.7 63.6 MEAN 52.9 52.8 52.8 53.8 54.8 56.3 57.8 58.2 57.8 56.0 53.8 55.0 MIN 42.9 43.2 44.6 46.2 47.1 48.7 50.4 50.6 50.3 49.8 48.0 44.8 47.2 103 LAHAINA 361 MAX 81.6 81.8 82.8 83.7 84.5 86.2 87.2 88.1 88.3 87.4 85.4 85.0 MEAN 72.9 72.8 73.8 74.9 75.9 77.6 78.7 79.4 79.5 78.6 76.7 74.3 76.3 MEAN 72.9 72.8 73.8 74.9 75.9 77.6 78.7 79.4 79.5 78.6 76.7 74.3 76.3 MEAN 72.9 72.8 73.8 74.9 75.9 77.6 78.7 79.4 79.5 78.6 76.7 74.3 76.3 MIN 64.1 63.7 64.7 66.0 67.3 68.9 70.1 70.6 70.6 69.7 68.0 65.6 67.4		MEAN													
MEAN MIN 66.1 65.7 67.2 68.8 69.3 71.8 72.5 73.4 73.5 72.9 70.9 68.1 70.0 098 KULA BRANCH STN 324.5 MAX 69.1 69.0 69.7 70.8 71.9 74.0 75.6 76.6 76.1 75.2 72.9 70.9 68.1 70.0 69.7 MEAN 61.0 60.9 61.3 62.3 63.4 65.2 66.6 67.4 67.2 66.4 64.5 62.4 64.1 MIN 52.9 52.7 52.8 53.7 54.8 56.3 57.5 58.1 58.3 57.5 56.0 54.1 55.4 67.9 68.1 68.6 69.8 71.4 73.1 74.4 75.1 74.6 73.6 71.7 69.3 71.5 MEAN 59.9 59.7 60.3 61.4 62.9 64.4 65.6 66.3 66.1 65.3 63.6 61.1 63.1 MIN 51.9 51.2 51.9 53.0 54.3 55.6 56.7 57.4 57.6 56.9 55.5 52.9 54.6 10.0 KULANI CAMP 79 MAX 62.9 62.3 60.9 61.3 62.4 63.9 65.1 65.8 66.0 65.7 63.9 62.7 63.6 63.6 61.1 63.1 MIN 42.9 43.2 44.6 46.2 47.1 48.7 50.4 50.6 50.3 49.8 48.0 44.8 47.2 103 LAHAINA 361 MAX 81.6 81.8 82.8 83.7 84.5 86.2 87.2 88.1 88.3 87.4 85.4 83.0 85.0 MEAN 72.9 72.8 73.8 74.9 75.9 77.6 78.7 79.4 79.5 78.6 76.7 74.3 76.3 MIN 64.1 63.7 64.7 66.0 67.3 68.9 70.1 70.6 70.6 69.7 68.0 65.6 67.4	004 277 22377777 011														
MIN 66.1 65.7 67.2 68.8 69.3 71.8 72.5 73.4 73.5 72.9 70.9 68.1 70.0 098 KULA BRANCH STN 324.5 MAX 69.1 69.0 69.7 70.8 71.9 74.0 75.6 76.6 76.1 75.2 72.9 70.6 72.6 MEAN 61.0 60.9 61.3 62.3 63.4 65.2 66.6 67.4 67.2 66.4 64.5 62.4 64.1 MIN 52.9 52.7 52.8 53.7 54.8 56.3 57.5 58.1 58.3 57.5 56.0 54.1 55.4 099 KULA HOSPITAL 267 MAX 67.9 68.1 68.6 69.8 71.4 73.1 74.4 75.1 74.6 73.6 71.7 69.3 71.5 MEAN 59.9 59.7 60.3 61.4 62.9 64.4 65.6 66.3 66.1 65.3 63.6 61.1 63.1 MIN 51.9 51.2 51.9 53.0 54.3 55.6 56.7 57.4 57.6 56.9 55.5 52.9 54.6 100 KULANI CAMP 79 MAX 62.9 62.3 60.9 61.3 62.4 63.9 65.1 65.8 66.0 65.7 63.9 62.7 63.6 63.6 MEAN 52.9 52.8 52.8 53.8 54.8 56.3 57.8 58.2 58.2 57.8 56.0 53.8 55.4 103 LAHAINA 361 MAX 81.6 81.8 82.8 83.7 84.5 86.2 87.2 88.1 88.3 87.4 85.4 83.0 85.0 MEAN 72.9 72.8 73.8 74.9 75.9 77.6 78.7 79.4 79.5 78.6 76.7 74.3 76.3 MIN 64.1 63.7 64.7 66.0 67.3 68.9 70.1 70.6 70.6 69.7 68.0 65.6 67.4	084 KII-KAHUKU 9II					ı			1						I I
MEAN 61.0 60.9 61.3 62.3 63.4 65.2 66.6 67.4 67.2 66.4 64.5 62.4 64.1 MIN 52.9 52.7 52.8 53.7 54.8 56.3 57.5 58.1 58.3 57.5 56.0 54.1 55.4 67.9 68.1 68.6 69.8 71.4 73.1 74.4 75.1 74.6 73.6 71.7 69.3 71.5 69.3 MEAN 59.9 59.7 60.3 61.4 62.9 64.4 65.6 66.3 66.1 65.3 63.6 61.1 63.1 MIN 51.9 51.2 51.9 53.0 54.3 55.6 56.7 57.4 57.6 56.9 55.5 52.9 54.6 61.0 KULANI CAMP 79 MAX 62.9 62.3 60.9 61.3 62.4 63.9 65.1 65.8 66.0 65.7 63.9 62.7 63.6 MEAN 52.9 52.8 52.8 53.8 54.8 56.3 57.8 58.2 58.2 57.8 56.0 53.8 55.4 MIN 42.9 43.2 44.6 46.2 47.1 48.7 50.4 50.6 50.3 49.8 48.0 44.8 47.2 103 LAHAINA 361 MAX 81.6 81.8 82.8 83.7 84.5 86.2 87.2 88.1 88.3 87.4 85.4 83.0 85.0 MEAN 72.9 72.8 73.8 74.9 75.9 77.6 78.7 79.4 79.5 78.6 76.7 74.3 76.3 MIN 64.1 63.7 64.7 66.0 67.3 68.9 70.1 70.6 70.6 69.7 68.0 65.6 67.4						ı			1						I I
MIN 52.9 52.7 52.8 53.7 54.8 56.3 57.5 58.1 58.3 57.5 56.0 54.1 55.4 099 KULA HOSPITAL 267 MAX 67.9 68.1 68.6 69.8 71.4 73.1 74.4 75.1 74.6 73.6 71.7 69.3 71.5 MEAN 59.9 59.7 60.3 61.4 62.9 64.4 65.6 66.3 66.1 65.3 63.6 61.1 63.1 MIN 51.9 51.2 51.9 53.0 54.3 55.6 56.7 57.4 57.6 56.9 55.5 52.9 54.6 100 KULANI CAMP 79 MAX 62.9 62.3 60.9 61.3 62.4 63.9 65.1 65.8 66.0 65.7 63.9 62.7 63.6 MEAN 52.9 52.8 52.8 53.8 54.8 56.3 57.8 58.2 58.2 57.8 56.0 53.8 55.4 MIN 42.9 43.2 44.6 46.2 47.1 48.7 50.4 50.6 50.3 49.8 48.0 44.8 47.2 103 LAHAINA 361 MAX 81.6 81.8 82.8 83.7 84.5 86.2 87.2 88.1 88.3 87.4 85.4 83.0 85.0 MEAN 72.9 72.8 73.8 74.9 75.9 77.6 78.7 79.4 79.5 78.6 76.7 74.3 76.3 MIN 64.1 63.7 64.7 66.0 67.3 68.9 70.1 70.6 70.6 69.7 68.0 65.6 67.4	098 KULA BRANCH STN 324.5	MAX	69.1		69.7	70.8	71.9	74.0	75.6	76.6	76.1	75.2	72.9	70.6	72.6
099 KULA HOSPITAL 267 MAX MEAN 59.9 59.7 60.3 61.4 62.9 64.4 65.6 66.3 66.1 65.3 63.6 61.1 63.1 63.1 100 KULANI CAMP 79 MAX 62.9 62.3 60.9 61.3 62.4 63.6 63.6 65.1 65.3 66.0 65.7 65.0 57.4 57.6 56.9 55.5 52.9 54.6 65.1 65.8 66.0 65.7 63.9 62.7 63.6 63.6 MEAN 52.9 52.8 52.8 53.8 54.8 MIN 42.9 43.2 44.6 46.2 47.1 48.7 50.4 50.4 50.6 50.3 49.8 48.0 44.8 47.2 103 LAHAINA 361 MAX 81.6 81.8 82.8 83.7 84.5 86.2 87.2 88.1 88.3 87.4 87.9 77.6 78.7 79.4 79.5 78.6 76.7 74.3 76.3 MIN 64.1 63.7 64.7 66.0 67.3 68.9 70.1 70.6 70.6 69.7 68.0 65.3 63.6 61.1 63.1															
MEAN MIN 59.9 59.7 60.3 61.4 62.9 64.4 65.6 66.3 66.1 65.3 63.6 61.1 63.1 51.0 KULANI CAMP 79 MAX 62.9 62.3 60.9 61.3 62.4 63.9 65.1 65.8 66.0 65.7 63.9 62.7 63.6 MEAN 52.9 52.8 52.8 52.8 53.8 54.8 56.3 57.8 58.2 58.2 57.8 56.0 53.8 55.4 MIN 42.9 43.2 44.6 46.2 47.1 48.7 50.4 50.6 50.3 49.8 48.0 44.8 47.2 103 LAHAINA 361 MAX 81.6 81.8 82.8 83.7 84.5 86.2 87.2 88.1 88.3 87.4 85.4 83.0 85.0 MEAN 72.9 72.8 73.8 74.9 75.9 77.6 78.7 79.4 79.5 78.6 76.7 74.3 76.3 MIN 64.1 63.7 64.7 66.0 67.3 68.9 70.1 70.6 70.6 69.7 68.0 65.6 67.4	000 KIII A HOCDITAI 267														
MIN 51.9 51.2 51.9 53.0 54.3 55.6 56.7 57.4 57.6 56.9 55.5 52.9 54.6	000 ROLA HODELIAL 201					1			1						I I
MEAN MIN 42.9 43.2 44.6 46.2 47.1 48.7 50.4 50.6 50.3 49.8 48.0 44.8 47.2 103 LAHAINA 361 MAX 81.6 81.8 82.8 83.7 84.5 86.2 87.2 88.1 88.3 87.4 85.4 83.0 85.0 MEAN 72.9 72.8 73.8 74.9 75.9 77.6 78.7 79.4 79.5 78.6 76.7 74.3 76.3 MIN 64.1 63.7 64.7 66.0 67.3 68.9 70.1 70.6 70.6 69.7 68.0 65.6 67.4				51.2		1			1						I I
MIN 42.9 43.2 44.6 46.2 47.1 48.7 50.4 50.6 50.3 49.8 48.0 44.8 47.2 103 LAHAINA 361 MAX 81.6 81.8 82.8 83.7 84.5 86.2 87.2 88.1 88.3 87.4 85.4 83.0 85.0 MEAN 72.9 72.8 73.8 74.9 75.9 77.6 78.7 79.4 79.5 78.6 76.7 74.3 76.3 MIN 64.1 63.7 64.7 66.0 67.3 68.9 70.1 70.6 70.6 69.7 68.0 65.6 67.4	100 KULANI CAMP 79														
103 LAHAINA 361 MAX MEAN 72.9 72.8 73.8 74.9 75.9 77.6 78.7 79.4 79.5 78.6 76.7 74.3 76.3 MIN 64.1 63.7 64.7 66.0 67.3 68.9 70.1 70.6 70.6 69.7 68.0 65.6 67.4															
MEAN 72.9 72.8 73.8 74.9 75.9 77.6 78.7 79.4 79.5 78.6 76.7 74.3 76.3 MIN 64.1 63.7 64.7 66.0 67.3 68.9 70.1 70.6 70.6 69.7 68.0 65.6 67.4	103 LAHATNA 361														
MIN 64.1 63.7 64.7 66.0 67.3 68.9 70.1 70.6 70.6 69.7 68.0 65.6 67.4						1			1						I I
105 LANATAP 656 MAX 75.2 75.6 76.6 78.1 79.2 81.2 82.6 82.6 81.7 79.3 77.0 79.3		MIN	64.1	63.7	64.7	66.0	67.3	68.9	70.1	70.6	70.6	69.7	68.0	65.6	67.4
	105 LANAI AP 656	MAX	75.2	75.6	76.6	78.1	79.2	81.2	82.5	82.6	82.6	81.7	79.3	77.0	79.3
MEAN 67.4 67.4 68.5 69.8 70.9 72.8 74.1 74.6 74.5 73.6 71.6 69.0 71.2 MIN 59.5 59.1 60.3 61.5 62.5 64.4 65.7 66.5 66.3 65.4 63.8 60.9 63.0															
MILE 37.3 37.1 00.3 01.3 02.3 01.1 03.7 00.3 03.1 03.0 00.9 03.0		LITIN	37.3	37.1	00.5	01.5	02.3	01.1	03.7	00.3	00.3	03.4	03.0	00.9	03.0



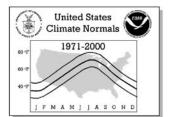
Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

						TEMF	PERATU	RE NOF	RMALS	(Degree	s Fahrer	nheit)		
No. Station Name	Elemen	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
106 LANAI CITY 672	MAX MEAN	72.0 65.9	72.8 66.0	72.9 66.6	73.7	74.7 68.4	76.2 70.2	76.8 71.1	78.1 72.1	78.5 72.2	77.4	75.8 69.7	73.6 67.5	75.2 69.0
	MIN	59.7	59.2	60.3	61.3	62.1	64.2	65.3	66.1	65.8	64.9	63.6	61.3	62.8
113 LIHUE AP 1020.1	MAX MEAN	77.9	77.9 71.7	78.1 72.7	78.8	80.6 75.4	82.7 77.7	83.9	84.9 79.7	85.0 79.5	83.5 78.2	81.0 75.9	79.0 73.3	81.1 75.7
	MIN	65.4	65.5	67.3	68.9	70.3	72.7	74.0	74.5	74.0	72.8	70.8	67.6	70.3
119 MAKENA GOLF CRS 249.1	MAX MEAN	81.0 72.3	81.4 72.4	82.6 73.1	84.1 74.3	85.5 75.5	86.9 77.1	88.0 78.3	88.6 78.7	88.2 78.6	87.0 77.7	84.7 75.8	82.3 73.6	85.0 75.6
	MIN	63.5	63.4	63.6	64.4	65.4	67.2	68.5	68.8	68.9	68.3	66.8	64.8	66.1
124 MANOA LYON ARBORETUM	MAX	76.8	77.4	77.0	76.8	78.1	78.6	79.5	81.1	81.8	80.9	78.6	77.5	78.7
	MEAN MIN	69.7 62.5	69.8 62.1	70.3 63.5	70.7	72.1 66.1	73.2 67.8	74.2	75.4 69.6	75.8 69.7	74.9 68.9	72.9 67.2	71.0 64.4	72.5 66.3
127 MAUNA LOA SLOPE OBS	MAX	50.0	50.2	51.0	52.2	54.2	57.5	56.5	56.6	55.4	54.8	52.6	51.1	53.5
	MEAN MIN	42.0	42.0 33.7	42.6 34.1	43.7 35.1	45.8 37.4	48.9 40.3	48.1	48.2	47.3 39.1	46.7 38.6	45.0 37.3	43.2 35.2	45.3 37.0
134 MOLOKAI KAUNAKAKAI AP52		77.9	78.0	79.0	80.0	81.8	83.4	84.6	85.8	86.1	84.8	82.1	79.4	81.9
	MEAN	70.7	70.4	71.4	72.7	74.3	76.2 69.0	77.5	78.4	78.4	77.4	75.0	72.2	74.6
135 NAALEHU 14	MIN MAX	63.4 77.1	62.7 77.9	63.8	65.4 77.6	66.7 78.2	79.3	70.4	70.9	70.7	69.9	67.9 78.9	65.0 77.4	67.2 79.0
	MEAN	69.8	70.2	70.5	70.8	71.6	72.8	74.0	74.4	74.6	74.2	72.6	70.8	72.2
145 OOKALA 223	MIN MAX	76.6	62.4 76.4	63.2 76.2	76.8	65.0 77.9	66.2 79.9	80.3	67.7 81.1	67.5 81.6	67.3 80.9	66.2 79.1	64.1 77.1	65.3 78.7
	MEAN	70.5	70.2	70.6	71.1	72.2	74.1	74.7	75.5	75.8	75.3	73.7	71.4	72.9
146 OPAEULA 870	MIN MAX	64.4 76.8	64.0 77.5	64.9 77.4	65.4 76.5	66.4 78.9	68.2 80.6	69.1	69.9	70.0	69.6	68.2 79.7	65.7 77.8	67.2 79.4
140 OFAEGLA 070	MEAN	69.0	68.7	69.2	69.0	70.7	72.4	73.2	73.9	74.4	73.7	72.2	70.3	71.4
147 007117177 0 04 1	MIN	61.1	59.9	60.9	61.4	62.5	64.2	65.5	65.5	66.1	65.1	64.6	62.8	63.3
147 OPIHIHALE 2 24.1	MAX MEAN	76.7 67.0	77.0 67.1	77.1 67.6	77.6	78.3 69.6	78.9 70.7	80.3	81.2 72.6	81.1 72.2	80.9 71.6	79.4 70.0	78.0 68.1	78.9 69.7
	MIN	57.2	57.1	58.1	59.2	60.9	62.4	63.5	63.9	63.2	62.2	60.6	58.1	60.5
171 PUUKOHOLA HEIAU 98.1	MAX MEAN	78.6	78.7 71.4	80.4 72.9	81.5	82.0 74.9	83.2 76.2	83.8	84.7 77.8	84.7 77.6	83.7 77.1	81.1 74.8	79.4 72.7	81.8 74.8
	MIN	64.0	64.1	65.4	66.9	67.8	69.2	70.3	70.9	70.5	70.4	68.4	66.0	67.8
173 PUU MANAWAHUA 725.6	MAX	74.9	75.1	75.5	76.7	78.2	80.5	81.8	83.1	83.1	81.4	78.6	75.7	78.7
	MEAN MIN	66.1 57.3	66.0 56.9	66.5 57.5	67.7 58.6	69.0 59.7	71.0 61.4	72.5	73.5 63.9	73.6 64.0	72.2 62.9	69.9 61.1	67.3 58.8	69.6 60.4
176 SEA MOUNTAIN 12.15	MAX	80.5	80.6	80.8	81.3	82.1	82.9	83.7	84.2	84.6	84.0	82.1	80.9	82.3
	MEAN MIN	72.5	72.5 64.3	72.9 64.9	73.5	74.4 66.6	75.3 67.6	76.1	76.6 68.9	76.7 68.8	76.5 68.9	74.8 67.5	73.2 65.5	74.6 66.8
178 SOUTH KONA 2 2.32	MAX	75.0	75.5	75.4	75.7	76.3	77.1	78.5	79.5	79.1	79.2	78.2	76.8	77.2
	MEAN MIN	65.0 55.0	65.3 55.0	65.5 55.5	66.1 56.4	66.9 57.5	67.8 58.5	69.2 59.8	69.9 60.2	69.5 59.9	69.5 59.7	68.6 58.9	66.5 56.1	67.5 57.7
185 UPOLU POINT USCG 159.2	MAX	79.6	79.4	79.9	80.8	82.8	84.8	85.5	86.6	86.7	85.8	82.9	80.6	83.0
	MEAN MIN	73.2	72.9 66.3	73.4	74.1	75.6 68.3	77.3 69.7	78.1	78.9 71.2	79.2 71.7	78.5 71.2	76.4 69.9	74.1 67.6	76.0 69.0
195 WAIALUA 847	MAX	78.7	79.1	79.6	80.2	82.7	84.3	85.5	86.7	86.7	85.2	82.8	80.1	82.6
	MEAN	ı	69.2		71.4		75.0	76.1		76.7	75.7	74.1	71.3	73.3
203 WAIKIKI 717.2	MIN MAX	60.2 80.9	59.3 81.1	60.7 82.1	62.6	63.3	65.7 86.3	66.6 87.1	67.3 88.2	66.6 88.1	66.2 86.9	65.4 84.2	62.4 82.0	63.9 84.6
	MEAN	l	72.9	74.2	75.4	76.7	78.7	79.7	80.5		79.1	76.9	74.2	76.8
207 WAIMANALO EXP F 795.1	MIN MAX	64.5 78.3	64.7 78.4	66.3 78.7	79.6	68.8 81.1	71.0 82.6	72.3	84.4	72.2	71.2	69.5 81.2	66.4 79.3	68.9 81.3
	MEAN	71.6	71.5	72.5	73.9	75.3	77.1	78.2	79.0	78.9	77.9	75.6	73.1	75.4
208 WAIMEA ARBORETUM 892.2	MIN MAX	64.8	64.5	66.2 81.2	68.2 82.1	69.4	71.6 85.5	72.8	73.5	73.0	72.1	69.9 82.6	66.8	69.4 83.4
200 WAITER ANDONE TOP 072.2	MEAN	70.3	70.4	71.9	72.9	74.2	76.1	76.9	77.8	77.6	76.6	74.0	71.4	74.2
200 MATMEA 047	MIN	61.2		62.5	63.7	64.6	66.6	68.0	68.6	67.8		65.4	62.5	64.9
209 WAIMEA 947	MAX MEAN	79.8 71.7	79.9 71.6	81.1 72.8	82.7 74.1	84.1 75.4	85.8 77.1	87.1 78.5	87.9 79.3		86.0 77.7	84.0 75.5	81.0 72.8	83.9 75.4
	MIN	63.5			65.4		68.4	69.9		70.2	69.3	66.9	64.6	66.9
		-			-						-			



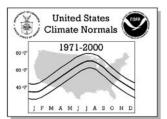
Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days
1971-2000

									(Total in	,			
No. Station Name	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
001 AIEA HEIGHTS 764.6	5.35	4.65	6.42	6.19	3.48	4.32	4.22	3.17	3.17	4.87	6.18	6.72	58.74
002 ANAHOLA 1114	5.38	3.83	4.14	3.85	3.64	1.92	2.34	2.19	2.48	4.00	6.12	5.65	45.54
003 AUWAHI 252	4.40	4.39	3.55	1.20	1.14	.40	.46	.49	1.28	1.97	2.93	3.98	26.19
004 BARKING SANDS	2.96	1.43	1.53	.75	.63	.33	.50	.62	.84	2.35	2.74	2.78	17.46
005 BARBERS POINT NAS	2.47	2.35	1.26	1.09	.89	.43	.39	.35	.55	2.03	2.27	2.50	16.58
006 BERETANIA PUMP STN 705	3.74	3.03	3.12	2.51	1.56	1.04	1.24	.82	1.41	2.65	3.43	3.86	28.41
007 BRYDESWOOD STA 985	6.14	4.46	5.35	5.46	3.58	3.60	4.24	3.21	3.11	5.41	6.44	6.29	57.29
008 B Y U LAIE 903.1	4.72	5.31	5.88	3.83	3.13	2.35	3.14	2.50	4.15	4.52	6.17	5.01	50.71
009 CAMPBELL IND PK 702.5	3.03	2.64	1.42	1.04	.98	.45	.53	.57	.63	2.25	2.57	2.75	18.86
010 CAMP ERDMAN 841.16	4.29	3.01	2.64	1.82	1.44	.62	1.44	.97	1.19	2.21	3.49	3.89	27.01
011 COCONUT ISLAND 840.1	5.23	4.23	4.26	3.58	2.48	1.98	2.00	1.84	2.53	3.45	5.21	4.82	41.61
012 EAST LAWAI 934 013 ELEELE 927	5.57	4.12	5.45	6.01	4.35 1.54	4.25 1.21	5.31	1.07	3.97 1.48	5.80	6.68	6.11	61.64 30.04
013 ELEELE 927	2.58	3.05	1.87	1.12	.86	.55	.58	.48	.74	2.00	2.06	2.86	18.75
015 FIELD 46 474	8.11	6.83	8.23	8.19	5.36	4.09	7.10	4.70	4.29	4.98	7.04	8.25	77.17
016 HAELAAU 477	9.64		12.39	13.61	8.44	6.30	8.44	9.30	6.30	6.45	6.99	8.98	103.53
017 HAINA 214	9.79		10.44	9.07	4.43	3.58	5.44	4.48	3.34	4.87	9.02	6.62	76.57
018 HAKALAU 142	11.26	10.46	16.22	13.77	9.50	7.97	10.08		9.27	10.65		10.74	136.17
019 HALAULA 1110	5.58	4.26	4.24	4.16	4.02	2.06	2.80	2.46	2.59	4.50	6.73	5.74	49.14
020 HALEAKALA EXP FARM 434	10.33	6.88	11.71	9.80	4.86	2.85	3.72	3.57	2.55	5.00	7.31	7.92	76.50
021 HALEAKALA RANCH 432	6.17	4.41	6.12	5.01	1.80	1.07	1.26	1.27	1.40	2.38	4.03	5.25	40.17
022 HALEAKALA R S 338	9.17	6.20	8.59	5.18	1.76	1.43	2.37	2.08	2.27	2.75	5.43	5.89	53.12
023 HALEMAUMAU 52	7.41	6.30	7.07	4.43	2.14	1.34	3.06	2.61	2.95	3.26	9.50	7.09	57.16
024 HALENANAHO 1006	6.78	5.28	6.18	7.22	5.16	4.79	6.13	5.05	5.25	7.18	8.71	6.93	74.66
025 HALEPOHAKU 111	5.06	2.77	4.66	2.43	.80	.49	2.11	1.94	1.83	1.62	3.76	3.26	30.73
026 HALIIMAILE 423	7.42	5.05	6.78	6.47	2.63	1.49	2.11	1.89	1.22	2.27	4.79	6.32	48.44
027 HAMAKUAPOKO 485 028 HANA AP 355	6.02	3.82 5.69	5.76 9.13	4.79 7.46	2.84 5.89	2.50	3.22	3.03 5.79	1.92	3.11 7.26	5.21	4.92 6.06	47.14 79.90
029 HAWAII VOLCNS NP HQ 54	8.52		14.10	10.38	6.29	4.10 5.23	5.91 7.21	6.31	6.12 6.01		7.97		107.34
030 HAWI 168	5.92	3.67	6.55	5.59	3.12	3.89	4.62	3.88	2.48	3.45	5.80	5.42	54.39
031 HILO INTL AP	9.74		14.35	12.54	8.07	7.36	10.71	9.78	9.14		15.58		126.27
032 HOLUA CABIN 259.5	6.51	4.63	6.37	5.71	2.46	.90	1.62	1.59	1.33	2.52	5.01	4.70	43.35
033 HOLUALOA 70	3.39	3.53	3.70	4.53	3.53	4.42	4.81	3.43	3.94	4.54	2.50	2.14	44.46
034 HONAUNAU 27	3.61	2.67	3.71	3.73	4.28	5.73	5.83	5.56	6.07	4.53	2.91	2.53	51.16
035 HONOHINA 137	1	10.74		14.73	9.14	7.54	10.93		8.57	10.20			134.59
036 HONOKOHAU HARBOR 68.14	2.12	.78	1.44	2.21	.77	1.10	1.02	1.12	1.50	1.47	.72	1.06	15.31
037 HONOKOHAU 480	8.10	8.29	8.80	8.22	8.67	4.91	6.38	8.07	4.54	6.49	9.07	7.08	88.62
038 HONOKOHUA 493 039 HONOLUA FIELD 49 494	5.48	3.99 4.54	4.82	4.51 4.39	2.82	2.38	3.08	2.54	2.38	2.89	3.87 4.38	4.59 5.00	43.35 46.35
040 HONOLULU OBSERV 702.2	2.84	2.59	1.64	1.07	.79	.44	.51	.41	.69	2.11	2.33	2.69	18.11
041 HONOLULU INTL AP 703	2.73	2.35	1.89	1.11	.78	.43	.50	.46	.74	2.18	2.27	2.85	18.29
042 HONOMANU GULCH 341	9.73	7.22	10.31	10.18	4.93	2.65	5.92	4.66	4.60	5.07	6.45	6.48	78.20
043 HONUAULA 71	2.84	3.65	3.12	2.81	2.05	1.71	2.12	1.64	1.75	1.53	1.81	1.78	26.81
044 HUALALAI 72	1.98	2.65	1.76	2.94	1.12	1.26	1.30	1.36	1.23	1.20	1.72	1.72	20.24
045 HUEHUE 92.1	4.37	2.65	2.47	2.82	2.75	2.09	1.62	1.58	2.83	2.36	2.29	2.20	30.03
046 HUKIPO 945	4.08	2.77	2.34	1.68	1.75	.38	.68	.83	1.20	2.70	2.81	3.92	25.14
047 INTAKE WAINIHA 1086	1		16.73										142.00
048 KAAWALOA 29 049 KAENA POINT 841.3			2.85		3.74				5.84			2.43	
050 KAHANA 883													227.99
051 KAHOMA INTAKE 374			9.74		6.39		6.18	4.62	3.57			7.35	81.94
052 KAHULUI AP 398			2.35	1.75	.66	.23	.49	.53	.39			3.08	
053 KAILIILI 436	15.86	11.40	16.19	16.86	8.57	6.36	10.13	7.48	5.28	8.26	12.67	10.22	129.28
054 KAILUA 446	11.35	8.94	14.98	13.11	8.94	7.54	10.49	9.07	7.93		12.00		122.90
055 KAINALIU 73.2			3.73		4.51	6.33	6.64	5.80	6.73			2.63	
056 KALAUPAPA 563			5.10	4.74		1.47	2.20	2.11	1.54		4.60	5.89	43.38
057 KALIHI RES SITE 777			11.64		9.04	7.65	9.60	8.48	8.01			3.86	117.06
058 KAMAOA PUUEO 5.1 059 KANALOHULUHULU 1075	1		3.06 6.95	1.82 4.31		1.23	2.47	2.05			4.46	9.43	31.66 62.11
060 KANEHA RESERVOIR 1092		7.70	8.76	8.89	3.00 7.63	1.95 5.54	2.12 6.95	2.23 6.25	5.70		7.58 12.11	9.43	96.08
061 KANEOHE MAUKA 781			6.45		4.97		5.08	4.48	4.88		9.46	7.29	
062 KANEOHE 838.1		4.61		4.14	3.23	2.51	2.70	2.86	3.51	4.42		5.44	50.93
063 KANEOHE MCAS			2.91			2.21	1.74	1.65	1.98			3.97	37.14
064 KANEPUU 690	4.41			1.64		1.26	.69	.87	1.06	1.87		3.24	24.37
065 KAPAKA FARM 904.1	5.67			4.22	3.51	2.61	3.31	2.34		4.12	6.96	5.33	1
066 KAPALAMA 773	5.88			5.36	3.47	3.16	3.65	2.66	3.06	4.50	5.59	6.44	54.22
067 KAPAPALA RANCH 36	6.92				2.66	2.18	3.90	3.54			8.89	6.97	63.24
068 KAPALUA-WEST MAUI AP 46 069 KAPOHO BEACH 93.11	7.29		3.35 7.64	2.27	1.55 4.20	1.17 3.92	1.41 6.45	1.15 4.95	.80 6.85		2.73	4.17 6.67	26.17 79.13
000 KAFOHO BEACH 93.11	1.49	0.20	7.04	7.03	1.40	3.34	0.43	4.93	0.03	0.99	10.00	0.07	19.13



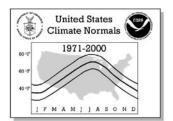
Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

No. Station Name	JAN	FEB	MAR	APR	PREC MAY	CIPITATI JUN	JUL	RMALS AUG	(Total in SEP	Inches) OCT	NOV	DEC	ANNUAL
070 KAPOHO LANDING 93.5	8.74	7.71	10.45	9.85	6.99	5.76	8.20	7.28	7.97	8.95	12.70	8.96	103.56
071 KAUAULA INTAKE 375	6.92	4.32	6.09	4.71	2.07	1.89	2.22	1.67	1.86	2.30	3.31	4.20	41.56
072 KAUMALAPAU HARBOR 658	2.22	2.36	1.55	1.47	1.43	1.17	1.06	.89	1.04	1.56	2.02	2.67	19.44
073 KAUNAKAKAI 536	2.43	2.35	1.21	.84	.55	.16	.10	.11	.45	.62	1.61	2.47	12.90
074 KAWAIHAPAI 841	5.89	3.71	3.28	2.12	1.71	.91	1.23	.74	1.17	2.76	3.84	3.52	30.88
075 KAWAINUI LOWER 193	12.75	9.00	17.54	12.83	11.18	7.69	1	10.34	8.25	8.21	13.02	11.14	133.46
076 KEAAU 92	10.56	10.98	15.19	13.61	8.81	7.88	10.93	10.49	9.79	11.50	17.46	10.89	138.09
077 KEAHUA 410	4.63	2.84	3.30	2.62	1.08	.43	.72	.69	.61	1.21	2.72	3.70	24.55
078 KE-AHOLE POINT 68.13	1.73	.90	1.13	.59	.62	.46	.69	.82	.75	.59	.99	1.86	11.13
079 KEANAE 346	13.70	10.49	18.66	17.69	10.73	9.30	12.43	11.52	10.80	11.97	14.81	9.21	151.31
080 KEKAHA 944	3.36	2.13	1.82	.98	.91	.38	.58	.49	.84	2.33	2.76	3.67	20.25
081 KEMOO CAMP 8 855	6.64	4.69	3.96	3.23	1.87	1.52	1.62	.99	2.10	3.34	3.80	4.23	37.99
082 KEONELELE PENS 551	2.68	2.61	1.60	1.56	1.39	.39	.45	.24	.39	1.10	2.00	3.02	17.43
083 KIHEI 311	3.21	1.89	1.57	.72	.26	.05	.08	.09	.13	.62	1.59	2.42	12.63
084 KII-KAHUKU 911	3.95	3.46	4.50	2.24	2.05	1.96	2.61	1.47	2.54	3.50	5.15	4.45	37.88
085 KILAUEA 1134	6.47	6.09	6.02	5.95	5.03	3.64	5.08	4.32	4.07	5.74	8.84	7.60	68.85
086 KOHALA MISSION 175.1	7.19	4.90	8.44	6.86	3.88	4.64	5.25	4.65	3.35	4.16	7.34	5.89	66.55
087 KOIAWE LOWER 196	9.94		12.72	9.73	8.38	4.83	8.03	7.50	4.62		10.02	8.84	96.71
088 KOLO 1033	3.43	2.26	1.95	.98	1.13	.48	.54	.64	.89	2.20	2.79	3.66	20.95
089 KOLOA 936	5.68	4.17	5.44	6.09	4.57 5.66	4.29 5.23	5.18	4.07 5.76	3.73 5.55	5.58 7.30	6.79	5.86	61.45
090 KOLOA MAUKA 994 091 KOLOKO RESERVOIR 1137	7.41	5.85	7.20 6.43	8.31	5.66	5.23 4.24	6.93	4.88	4.42		9.00	7.62 8.64	80.88 76.10
091 KOLOKO RESERVOIR 1137	2.35	1.49	1.13	.58	.52	.52	.44	4.88	.46	.54	.93	1.51	10.94
093 KOOLAU DAM 833	10.00		11.81	11.58		10.08	11.78	7.38	7.69	ı	10.24		116.63
094 KUKAIAU 222	13.22		16.12	15.58	7.28	5.61	8.42	7.36	4.78		12.93	9.67	115.96
095 KUKUIHAELE HIC 199	10.53		12.38	9.68	5.62	5.03	7.34	5.60	3.86	5.55	9.52	7.25	88.56
096 KUKUIHAELE MILL 206	8.59	4.56	8.34	7.56	4.46	3.45	4.79	3.91	3.36	4.55	7.34	5.72	66.63
097 KUKUIULA 935	4.72	3.17	3.71	3.72	2.62	2.39	2.68	2.23	2.38	4.00	5.06	5.05	41.73
098 KULA BRANCH STN 324.5	3.54	3.00	2.54	1.57	1.07	.77	.75	.80	1.08	1.45	2.30	3.27	22.14
099 KULA HOSPITAL 267	4.56	2.94	2.37	2.01	1.44	1.75	1.67	1.22	1.90	2.36	3.06	3.39	28.67
100 KULANI CAMP 79	9.94	7.32	15.08	10.49	5.98	4.73	8.46	7.60	7.04	6.34	13.77	11.18	107.93
101 KULANI MAUKA 76	4.03	2.87	4.52	2.95	1.27	1.12	2.50	2.08	2.24	2.46	4.27	3.45	33.76
102 KULANI SCHOOL SITE 78	6.82	6.39	9.37	8.46	6.35	4.27	4.14	6.56	4.56	6.58	8.90	7.15	79.55
103 LAHAINA 361	3.00	2.22	1.51	.82	.42	.09	.09	.15	.32	.99	1.44	2.52	13.57
104 LALAMILO FLD OF 191.1	2.76	2.42	2.47	1.50	1.22	.64	.75	.54	.77	.78	1.39	2.68	17.92
105 LANAI AP 656	2.97	2.40	1.23	.87	.68	.66	.45	.43	.72	1.16	1.95	2.92	16.44
106 LANAI CITY 672	5.05	4.06	2.88	2.60	2.17	1.61	1.66	1.40	2.09	2.51	3.14	4.39	33.56
107 LANAIHALE 684	6.13	4.86	4.12	2.54	2.70	1.68	1.62	1.98	2.21	2.90	3.80	2.97	37.51
108 LANIHAU 68.2	4.20	3.03	4.33	5.07	5.75	6.78	6.22	5.21	6.25	4.94	2.80	2.95	57.53
109 LAUNIUPOKO INTAKE 376	7.64	3.94	6.52	5.08	3.24	2.59	2.98	2.55	2.01	3.17	4.26	3.79	47.77
110 LAUNIUPOKO VILLAGE 372	3.34	2.25	1.72	.73	.39	.09	.13	.13	.39	.86	1.63	2.21	13.87
111 LIHUE VRTY STA 1062.1	6.53	5.22	5.43	6.58	4.97	4.30	5.74	4.87	4.85	6.86	8.45	7.04	70.84
112 LIHUE 1020 113 LIHUE AP 1020.1	5.38	4.12	4.50	4.41	3.37	2.61	3.11	2.73	3.30	4.80	6.21	5.41	49.95
113 LIHUE AP 1020.1	4.59	3.26	3.58 16.73	3.00 15.08	2.87 9.67	1.82 8.91	2.12	1.91	2.69 8.44	4.25	4.70	4.78	39.57 143.16
114 LOPI OPPER 442	4.54	3.27	2.80	1.30	1.20	.81	.46	.43	.84	1.76	2.51	3.09	23.01
115 MAHAULEPU 941.1			4.56		2.68				2.65		4.67		44.11
110 MAHAULEPO 941.1		4.21		4.61	2.46		2.63	2.10		ı	3.89		41.90
118 MAKAHALAU 103			3.18	2.76	1.55	.92	1.23		1.04			2.66	24.99
119 MAKENA GOLF CRS 249.1		1.60		.68	.52	.35	.50	.34	.71		1.67		13.60
120 MAKAWELI 965			2.06	1.37	1.13	.47	.70	.58	.80			4.15	22.76
121 MALAUEA 676	3.08		1.66	1.00	.52	.46	.27	.18	.84		1.74		15.91
122 MANA 1026	3.44	2.36		1.03		.51	.81	.65	1.09		2.81	3.69	22.14
123 MANOA 712.1	6.76	5.12	7.30	6.86	4.52	4.50	4.98	3.92	3.85	5.32	7.23	6.93	67.29
124 MANOA LYON ARBORETUM	11.68	9.58	13.96	16.33			15.19			11.62	14.31	12.27	152.14
125 MANOA TUN 2 716	11.81	10.03	13.61	15.99	11.11	10.81	13.27	10.66	9.43	11.52	14.61	12.39	145.24
126 MANUKA 2	3.48	2.67	3.54	2.88	2.51	1.94	2.50	1.99	3.09	2.29	2.36	2.34	31.59
127 MAUNA LOA SLOPE OBS	2.97	1.68	2.29	1.23	.74	.53		1.33	1.25	1.16	2.38	1.89	18.77
128 MIDDLE PEN 147.1	2.45	1.63	1.34	.92	.90	.77	.51	.73	1.04	.89	1.11	1.94	14.23
129 MILOLII 2.34		1.61		1.78	1.43		2.40	1.83	2.74	2.22	2.17	1.89	24.39
130 MOANUIAHEA 69.24		2.45		2.66	3.38	1.62			2.10		1.89	1.71	27.56
131 MOANALUA 770		3.29	3.36	3.00		1.74		1.28	1.74	3.04	3.68	4.30	33.07
132 MOHIHI UPR CRSG 1083		6.22		6.67		3.05	2.97	3.10	2.73	5.13		10.28	74.02
133 MOLOAA 1145		3.68	3.81	3.61	3.49	1.92	2.77	2.36	2.62	4.11	5.73		44.50
134 MOLOKAI KAUNAKAKAI AP52		3.65		2.10	1.41	.66	.59	.61	.76	1.78	2.83		24.64
135 NAALEHU 14	5.98	3.77		3.23	1.94		3.27	3.08	3.60	3.98	6.70	5.82	48.38
136 NAKALELE FIELD 60 497 137 NAPOOPOO 28		4.13 2.04	4.98		2.96 2.74	2.30	3.00	2.66	2.80 4.37		4.09	4.92	45.08 34.30
137 NAPOOPOO 28 138 NIU RIDGE 1035			2.21		1.85	.80			1.92			2.08 4.28	28.38
TOO MID KINGE INSO	3.09	J.1/	4.43	1.05	1.00	.00	1.07	1.05	1.74	3.10	2.11	1.20	20.30



Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

No.	Station Name	JAN	FEB	MAR	APR	PREC MAY	JUN	ION NO JUL	RMALS AUG	(Total in SEP	Inches) OCT	NOV	DEC	ANNUAL
139	N WAILUA DITCH 1051	13.60	10.87	14.31	15.26	12.38	9.71	14.70	12.44	11.11	13.91	17.84	12.39	158.52
	NUUANU RES 4 783	9.73		10.74	l	8.58	7.72	8.75	7.90	7.53		10.79		109.94
141	NUUANU RES 5 775 OHE'O 258.6 OLINDA #1 332 OLOWALU 296.1 OOKALA 223 OPAEULA 870 OPIHIHALE 2 24.1 ORCHID LD ESTATE 91.5 PAAKEA 350	7.18		8.25	8.19 7.01	5.66	5.60	6.36	4.98 6.83	5.10	6.29 7.84	7.67 8.75	7.92	79.15
143	OLINDA #1 332	9.42		11.05	9.11	3.87	2.66	4.04	3.62	2.83	4.26	6.95	7.11	72.10
144	OLOWALU 296.1	3.16		1.40	.54	.35	.03	.05	.08	.15	.81	1.43	2.40	12.26
145	OOKALA 223	12.30	9.03	15.68	15.60	7.64	5.94	9.44	8.70	6.10	7.22	13.64	10.29	121.58
146	OPAEULA 870	6.98	4.98	5.36	5.67	3.43	2.67	3.26	2.10	2.21	3.46	4.95	4.69	49.76
147	OPIHIHALE 2 24.1	3.04		3.43	2.82	3.04	3.08	3.52	3.77	4.15	3.56	2.94		38.41
148	DAAKEA 350	20 00		14.02 23.44		9.46	7.93	10.75	9.82 15.05	9.82			12.71 13.56	136.53
150		9.72		10.26	9.35	4.17	3.20	5.26	4.41	3.23		8.60	6.61	74.94
151	PAAUILO 221	11.99		14.06	13.02	6.72	4.20	6.74	5.87	4.20		11.16	8.25	98.17
152	PAHALA MAUKA 21.3	5.74	4.46	5.50	3.71	1.80	1.37	3.87	3.48	4.95		7.95	4.86	52.46
153	PAHOA 65	1		15.67	12.98	9.13	7.94	12.13		10.43	11.47			141.91
154	PAIKO DRIVE /23.4	4.08	2.63	2.96 3.68	2.39	1.83 1.64	.93	1.26	.95 1.29	1.48	2.43	3.47 3.27	3.72	28.13
	PALI GOLF COURSE 788.1	10.05	6.20	6.22	3.03	5.31	1.02	1.41	3.77	.82 4.57	1.68	7.96	3.68 7.50	29.47 72.24
		1		12.34			9.04	10.85	9.50		10.20			128.74
	PANILEIHULU 259.2	12.11	8.21	10.94	7.93	4.44	2.58	3.21	3.33	4.52			10.65	82.24
	PANILEIHULU 259.2 PAPAIKOU 144.1	10.39	10.82	16.10	14.44	9.10	8.28	11.92	11.17	10.28	10.97	17.64	11.03	142.14
160	PAPAIKOU MAUKA 140.1	15.81	12.27	23.73				1	16.01					201.54
	PAUOA FLATS 784 POHAKEA BRIDGE 307.2	12.13	2.20	15.31 2.17	16.93	12.60	13.11	15.12	12.56	10.56	12.73	15.39		160.32 17.32
163	POLIPOLI SPRINGS 267.2	7 35	4.82		3.26	2.61	1.98	1.74	1.69	2.72	2.82	3.04	4.47	40.64
		10.89		13.22	14.13	8.11	6.63	8.96	7.52	6.17		11.34	9.50	113.05
165	PRINCEVILLE RANCH 1117	6.92	6.09	6.78	7.82	5.67	4.51	6.51	5.76	5.27		9.39	7.32	78.06
166	PUEHU RIDGE 1040	4.96	3.46	2.67	1.75	1.84	.87	1.31	1.44	1.99	3.07	3.53	4.64	31.53
167	PUEHU RIDGE 1040 PUHI 1013 PUNCHBOWL CRATER 709	5.93	4.43		5.79	3.66	3.46	4.12	3.66	3.84	5.66	7.37		58.68
168	PUNCHBOWL CRATER 709 PUOHOKAMOA 2 343	4.11	3.49	3.93	3.35	2.05	1.83	1.94	1.56	1.73	3.17	4.26	4.29	35.71 224.52
	PUUKOLII 457.1	4.07	2.84		2.47	.98	.59	.78	.61	.63	1.07	2.51	2.61	21.85
	PUUKOHOLA HEIAU 98.1		1.16	.95	1.43	.37	.39	.36	.48	.69	.66	.99	1.94	11.17
	PUU KUKUI 380	1	11.25			17.71		1		13.64	13.24			197.31
	PUU MANAWAHUA 725.6	4.08	2.90	2.38	2.18	1.65	1.34	1.28	1.13	1.34	3.37	3.38	4.25	29.28
174	PUUNENE 396	3.93	2.28	2.58	1.64	.62	.14	.27	.34	. 29	1.14	2.16	3.26	18.65
175	PUUHONUA-O-HONAUNAU 27. SEA MOUNTAIN 12.15	2.52	3.27	1.85	1.68	2.30	2.37	2.83	2.55	2.69 3.55	2.46	1.53 5.82	1.58 4.30	26.00 37.08
177	S GLEWNWOOD 91.8					12.99		1	14.12		14.29			195.82
	SOUTH KONA 2 2.32	3.86	1.41	2.10	1.90	1.02	1.00	1.30	1.48	2.05	.93	1.94	1.73	20.72
179	SOUTH KONA 2 2.32 SPRECKELSVILLE 400 TANTALUS 2 780.5 UKULELE 333 UKUMEHAME 301 ULUPALAKUA RANCH 250	4.32	2.66	3.13	2.30	1.03	.41	.68	.75	.54	1.25	2.57	3.36	23.00
	TANTALUS 2 780.5	7.81		10.10	10.75	7.47	8.57	8.89	6.65	6.67	7.81	9.82	8.76	100.00
	UKULELE 333	8.68	5.94	8.09	8.51	3.69	2.56	4.02	3.27	3.79	4.01	6.49	6.88	65.93
	UKUMEHAME 301 ULUPALAKUA RANCH 250	3.50	1.86 3.77	1.47	2.27	.43 1.43	.04 1.64	1.40	.09 1.31	.18 2.57	.87 2.32	1.53	2.40	12.99
	UNIV OF HAWAII 713	4.55	3.59	3.89	3.25	2.15	1.62		1.31	1.70	3.09	4.14		
	UPOLU POINT USCG 159.2			4.49		1.46		1		1.42				
	UPPER WAHIAWA 874.3	7.17	5.46	7.11	7.04	4.63				4.03		6.98		69.63
	WAHIAWA 930	4.33	2.95	3.21 2.30	2.84	1.88				1.62			4.50	
	WAHIKULI 364 WAIAHOLE 837	3.88	2.79	2.30	1.36	.63	. 24			.60			2.71	18.40 124.64
190	WATAKEAKIIA 685			2.30		1.30	.62	.50		1.13			3.49	22.31
191	WAIAKEAKUA 685 WAIAKEA SCD 88.2 WAIKOLOA 95.8													197.22
192	WAIKOLOA 95.8	1		1.06	1.13	.68	.47	.34	.33	.98			1.99	12.10
	WAIKOLOA BEACH RT 95.9			1.08	.13			1				1.09		
	WAIALAE KAHALA 715			2.59		1.33		1					3.85	24.98
	WAIALUA 847 WAIANAE 798			3.38 1.59	2.20	1.46		1.16		1.33		3.46	3.40	29.77
197	WAIANAE 798 WAIAWA 943			1.59		1.03				.94 .71			3.19	19.97
198	WAIAWA 943 WAIAWA 836	1		12.46										141.97
199	WAIEHU CAMP 484			4.26		2.06	.71		1.26				4.19	35.74
	WAIHEE 837.5	6.83	6.23	7.28		4.64			4.40				6.96	70.91
	WAIHEE VALLEY 482			5.22		2.76			1.89				4.77	44.83
	WAIKAMOI 449	1		20.91				1	12.93				10.74	171.73
204	WAIKIKI 717.2 WAIKOLU 540			2.28 9.68		1.20	.72 4.61	.89	.59 3.91	.97		2.87		22.23 89.89
205	WAILUA KAI 1065			4.04		3.65		1	2.91				5.37	49.07
206	WAILUA KAI 1065 WAILUKU 386			4.14		2.20	.64			.96			4.00	34.02
								1						



Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days
1971-2000

					PREC	IPITATI	ON NO	RMALS	(Total in	Inches)			
No. Station Name	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
207 WAIMANALO EXP F 795.1										3.73			
208 WAIMEA ARBORETUM 892.2 209 WAIMEA 947				4.97 1.03						4.21 2.40			
210 WAIPAHU 750	3.55	2.93	2.24	1.56	1.17	.82	.77	.54	1.24	2.57	2.90	2.89	23.18
211 WAIOPAI RANCH 256 212 WEST LAWAI 931				2.12						1.83 4.38			24.18 43.29
212 WEST LAWAT 931 213 WILHELMINA RISE 721				4.49						3.92			



Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days
1971-2000

N								DEGE	REE DAY	/S (Tota	1)				
No. Station Na	me	Element	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
004 BARKING	SANDS	HDD CDD	0 211	0 196	0 245	0 262	0 310	0 352	0 406	0 427	0 415	0 396	0 312	0 256	0 3788
005 BARBERS	POINT NAS	HDD CDD	0 247	1 225	0 283	0 316	0 368	0 421	0 475	0 482	0 467	0 442	0 363	0 299	1 4388
010 CAMP ERD	MAN 841.16	HDD CDD	0 209	0	0 233	0 251	0 316	0 371	0 406	0 431	0 427	0 403	0 312	0 267	3806
022 HALEAKAL	A R S 338	HDD CDD	434	420	419	409	369 0	275	261	250	276	298	314	393	4118
028 HANA AP	355	HDD CDD	3 185	1 168	0 202	0 226	0 267	0 303	0 339	0 365	0 349	0 340	0 286	0 228	3258
029 HAWAII V	OLCNS NP HQ 54	HDD	199	182	179	165	138	90	68	49	52	66	104	175	1467
031 HILO INT	L AP	CDD HDD	0	0	0	0	0	8	16	26 0	24	18	0	0	107
040 HONOLULU	OBSERV 702.2	CDD HDD	198	180	215	223	268	303	336	350	336	328	268	223	3228
041 HONOLULU	INTL AP 703	CDD HDD	203	181	248	290	343	401	448	462 0	430	406	329	256	3997
052 KAHULUI	AP 398	CDD HDD	249 0	225 0	288	319 0	379 0	436 0	490 0	521 0	497 0	472 0	382 0	303	4561 0
054 KAILUA 4	46	CDD HDD	210 6	195 7	250 5	277 2	330 1	379 0	429 0	448 0	422 0	407 0	329 0	260 2	3936 23
055 KAINALIU	73.2	CDD HDD	93 9	78 6	99 5	123 4	162 5	201 1	240 0	261 0	259 0	240 0	177 0	122	2055 33
059 KANALOHU	LUHULU 1075	CDD HDD	86 316	74 279	95 259	103 207	125 180	149 98	186 63	202 53	200 71	209 100	171 174	118 271	1718 2071
061 KANEOHE	MAUKA 781	CDD HDD	0	0	0	0	2	3	7 0	12 0	9	2	3	0	38 0
063 KANEOHE	MCAS	CDD HDD	203	190 0	226 0	244 0	297 0	338 0	371 0	398 0	387 0	372 0	295 0	251 0	3572 0
	WEST MAUI AP 46	CDD	272	247	291	302	351 0	388	429	458 0	457 0	443	364 0	310	4312
	POINT 68.13	CDD HDD	217	201	241	259 0	319 0	351 0	397 0	414	406 0	393	320	258 0	3776 0
		CDD	262 1	242	297 0	324 0	380	394 0	442 0	461 0	441 0	430	363 0	304	4340
084 KII-KAHU		HDD CDD	210	184	235	260	297	346	385	418	407	404	319	258	3723
	NCH STN 324.5	HDD CDD	127	118	109	86	64 13	26 31	7 55	3 75	72	8 50	39 22	91	685 337
099 KULA HOS		HDD CDD	161 2	149 0	149 0	110 1	80 13	40 21	23 41	15 54	17 50	27 36	60 18	125 4	956 240
100 KULANI C	AMP 79	HDD CDD	375 0	343 0	363 0	337 0	318 0	261 0	226 0	211 0	205 0	225 0	272 0	349 0	3485 0
103 LAHAINA	361	HDD CDD	0 244	0 217	0 271	0 296	0 339	0 377	0 423	0 445	0 433	0 420	0 351	0 289	0 4105
105 LANAI AP	656	HDD CDD	6 79	5 71	3 109	0 143	0 181	0 234	0 282	0 296	0 283	0 264	0 196	2 123	16 2261
106 LANAI CI	TY 672	HDD CDD	27 53	27 55	15 64	7 81	3 109	0 156	0 187	0 219	0 214	0 190	1 141	9 83	89 1552
113 LIHUE AP	1020.1	HDD CDD	0 207	0 188	0 239	0 266	0 323	0 382	0 433	0 455	0 435	0 408	0 327	0 257	0 3920
119 MAKENA G	OLF CRS 249.1	HDD CDD	0 225	0 207	0 252	0 277	0 323	0 361	0 410	0 425	0 407	0 392	0 324	0 265	0 3868
124 MANOA LY	ON ARBORETUM	HDD CDD	1 147	4 137	0	0 170	0 220	0 246	0 285	0 321	0 322	0 306	0 237	0	5 2739
127 MAUNA LO	A SLOPE OBS	HDD CDD	715	645	679	641	595	483 0	526	523	534	568	602	678	7189
134 MOLOKAI	KAUNAKAKAI AP52	HDD	0 2	0 2	0	0 0	0	0	0	0	0	0	0	0	0 4 2490
135 NAALEHU	14	CDD HDD	177	152	198	231	288	335	388	413	402	383	300	223	3490
145 OOKALA 2	23	CDD HDD	148	145	172	174	204	231	277	291	288	284	226	179	2619
146 OPAEULA	870	CDD HDD	171 8	147	172	183	221	272 0	299	324	324	317	259	199	2888 34
147 OPIHIHAL	E 2 24.1	CDD HDD	131 13	110 15	136 8	127 5	181 5	221 1	254 0	276 0	280 0	268 0	214 2	168 9	2366 58
171 PUUKOHOL	A HEIAU 98.1	CDD HDD	73 1	72 0	90	106 0	147 0	171 0	214 0	233	215 0	203 0	151 0	102	1777 1
		CDD	196	180	245	275	306	335	374	397	377	374	294	239	3592



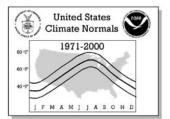
Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days
1971-2000

] F M A M]] A S O N D							2505		(O /T)	1)				
No. Station Name	Element	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
173 PUU MANAWAHUA 725.6	HDD CDD	23 57	20 48	19 66	10 89	7 129	2 180	0 233	0 263	0 255	0 220	3 147	18 90	102 1777
176 SEA MOUNTAIN 12.15	HDD	0	0	0	0	0	0 307	0 343	0	0	0	0 293	0	0
178 SOUTH KONA 2 2.32	CDD HDD	231 39	208	243	253 17	291 17	7	1	359	351	355	4	254 14	3488 152
185 UPOLU POINT USCG 159.2		39	35	38	48	77	91	130	150	134	138	110	58	1048
195 WAIALUA 847	CDD HDD	252 4	221 3	259 1	271 0	328 0	368 0	406 0	430 0	425 0	418 0	342 0	282 0	4002 8
203 WAIKIKI 717.2	CDD HDD	143 0	120 0	161 0	193 0	248 0	301	343 0	372 0	350 0	331 0	272 0	194	3028 0
207 WAIMANALO EXP F 795.1	CDD HDD	240	221	285	312	363	409	455 0	479	455	435	356	285	4295
208 WAIMEA ARBORETUM 892.2		202	180	231	267	318	364	407	432	417	400	317	249	3784
209 WAIMEA 947	CDD HDD	164 0	150 0	213	236 0	285 0	332 0	368 0	397 0	378 0	361 0	269 0	199 0	3352 0
	CDD	205	183	241	271	321	362	418	441	414	392	312	241	3801
								_						



Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

No	Station Name Element	JAN	FEB	MAR	APR	MAY	NOR!	MALS S	TATISTI AUG	CS SEP	ОСТ	NOV	DEC	ANNUAL
	BARKING SANDS HIGHEST MEAN	75.2	75.4	75.6	76.1	76.9	79.4	80.7	80.8	80.9	79.9	78.1	75.9	80.9
	MEDIAN LOWEST MEAN	71.7	71.7	72.7 70.8	74.0	75.0 72.5	76.5 74.1	78.1 75.8	78.9 75.2	78.9 75.8	77.8 74.7	75.4 73.2	73.3	75.6 69.6
	HIGHEST MEAN YEAR	1974	1971	1995	1996	1993	1993	1993	1994	1993	1994	1991	1992	1993
	LOWEST MEAN YEAR	1976	1990	1990	1983	1972	1975	1972	1975	1975	1975	1975	1975	1976
	MIN OBS TIME ADJUSTMENT MAX OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
005	BARBERS POINT HIGHEST MEAN	76.3	77.1	77.0	78.3	79.1	81.3	83.2	82.6	82.7	82.1	82.1	77.2	83.2
	MEDIAN LOWEST MEAN	73.0	72.9 69.9	74.0 71.6	75.3	76.5 75.1	79.1 76.6	80.3 77.6	80.5 78.2	80.6 78.2	79.2 76.7	77.0 73.7	74.9 72.4	77.0 69.9
	HIGHEST MEAN YEAR	1984	1992	1986	1984	1991	1991	1991	1991	1991	1979	1991	1979	1991
	LOWEST MEAN YEAR	1993	1993	1996	1975	1981	1976	1976	1978	1978	1978	1976	1997	1993
	MIN OBS TIME ADJUSTMENT MAX OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
010	CAMP ERDMAN 8 HIGHEST MEAN	74.9	73.2	74.7	76.2	77.4	79.1	80.5	80.8	80.8	79.3	77.9	75.9	80.8
	MEDIAN LOWEST MEAN	71.4	71.4	72.9	73.4	75.0 72.3	77.2 75.7	78.1	78.7 77.6	79.0 77.5	78.1 76.1	75.4 73.8	73.5	75.4 69.8
	HIGHEST MEAN YEAR	1990	1982	1984	1996	1984	1981	1986	1985	1986	1979	1986	1995	1985
	LOWEST MEAN YEAR	1972	1993	1993	1987	1987	1998	1975	1999	1998	1971	1993	1972	1993
	MIN OBS TIME ADJUSTMENT MAX OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
022	HALEAKALA R S HIGHEST MEAN	56.0	53.4	53.2	55.1	57.5	59.2	60.3	60.2	57.7	58.8	57.9	56.0	60.3
	MEDIAN LOWEST MEAN	51.2 46.9	50.4 47.4	50.9 48.1	51.3 48.5	53.0 50.1	55.7 53.7	56.4 54.7	57.0 54.1	55.9 53.3	55.4 53.1	54.7 51.0	52.2 48.8	53.6 46.9
	HIGHEST MEAN YEAR	1995	1977	1986	1996	2000	1988	1994	1986	1992	1996	1991	1995	1994
	LOWEST MEAN YEAR	1971	1973	1985	1998	1985	1976	1984	1980	1999	1982	1974	1978	1971
	MIN OBS TIME ADJUSTMENT MAX OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
028	HANA AP 355 HIGHEST MEAN	73.3	73.5	74.8	75.0	76.1	77.2	77.9	78.7	78.6	78.7	76.6	75.4	78.7
	MEDIAN	71.0	71.1	71.3	72.5	73.6	75.2	76.0 73.2	76.9	76.7	76.0	74.6 72.5	72.3	74.0
	LOWEST MEAN HIGHEST MEAN YEAR	67.7 1984	68.6 1981	69.4 1984	70.4 1996	71.7 1980	72.8 1996	1980	74.0 1980	73.5 1979	73.4 1984	1995	69.8	67.7 1980
	LOWEST MEAN YEAR	1971	1972	1979	1999	1987	1999	1999	1999	1999	1971	1999	1971	1971
	MIN OBS TIME ADJUSTMENT MAX OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
029	HAWAII VOLCNS HIGHEST MEAN	61.1	61.5	62.9	62.2	63.7	64.4	65.8	66.6	66.4	66.0	63.6	61.5	66.6
	MEDIAN	58.5	58.8	58.6	59.7	60.9	62.4	63.5	64.5	64.1	63.5 61.2	61.8	59.4 56.7	61.3
	LOWEST MEAN HIGHEST MEAN YEAR	56.6 1974	55.4 1980	56.4 1986	56.9 1996	58.0 1996	59.5 1996	60.9 1994	61.9 1986	61.5 1992	1992	59.8 1991	1980	55.4 1986
	LOWEST MEAN YEAR	1972	1990	1975	1976	1975	1976	1975	1975	1975	1975	1974	1971	1990
	MIN OBS TIME ADJUSTMENT MAX OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
031	HILO INTL AP HIGHEST MEAN	73.6	73.6	74.8	74.5	77.3	77.6	78.1	78.6	78.2	77.9	76.3	74.9	78.6
	MEDIAN	71.5	71.4	71.7	72.6	73.8	74.9	75.7	76.0	76.1	75.7	73.8	72.3	73.8
	LOWEST MEAN HIGHEST MEAN YEAR	69.1 1974	69.0 1986	69.4 1995	69.8 1980	71.4 1980	72.8 1980	73.7	74.3 1994	74.0 1995	73.6 1988	72.2 1988	69.9 1988	69.0 1994
	LOWEST MEAN YEAR	2000	1999	1985	1985	1985	1976	1976	1999	1999	1975	1972	1998	1999
	MIN OBS TIME ADJUSTMENT MAX OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
040	HONOLULU OBSE HIGHEST MEAN	73.9	73.6	75.4	77.3	78.0	80.2	81.2	82.2	81.2	79.8	78.6	76.6	82.2
	MEDIAN	71.5	71.6	73.1	74.4	76.2	78.3	79.4	79.8 77.6	79.4 77.6	78.2 76.5	75.8	73.2 70.2	76.0
	LOWEST MEAN HIGHEST MEAN YEAR	69.1 1984	69.5 1988	70.8 1986	73.2 1984	74.1 1988	75.9 1981	77.4 1986	1982	1987	1995	73.9 1988	1995	69.1 1982
	LOWEST MEAN YEAR	1972	1972	1979	1985	1997	1998	1998	1983	1975	1975	1978	1972	1972
	MIN OBS TIME ADJUSTMENT MAX OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
041	HONOLULU INTL HIGHEST MEAN	76.2	75.3	76.7	79.9	79.3	81.4	83.3	84.3	84.0	82.7	80.8	79.1	84.3
	MEDIAN	73.2	73.4	74.3 72.2	75.5	77.4	79.3	80.9	81.7	81.5	80.3	77.4	74.7	77.4
	LOWEST MEAN HIGHEST MEAN YEAR	1996	70.4 1977	1986	73.8 1996	74.9 1994	76.8 1992	78.8 1995	79.7 1994	79.3 1994	78.0 1995	74.9 1994	71.8 1995	69.9 1994
	LOWEST MEAN YEAR	1979	1972	1972	1985	1983	1971	1971	1971	1971	1978	1978	1972	1979
	MIN OBS TIME ADJUSTMENT MAX OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
052	KAHULUI AP 39 HIGHEST MEAN	75.1	74.1	75.9	77.0	78.5	80.6	81.4	81.2	81.3	80.5	79.0	75.9	81.4
	MEDIAN	71.5	71.9	73.0	74.1	75.8	77.7	78.8	79.6	79.3	78.2	75.9	73.4	75.8
	LOWEST MEAN HIGHEST MEAN YEAR	69.4 1996	69.2 1981	70.7 1984	70.8 1996	72.4 1980	74.3 1996	75.7 1996	76.6 1994	75.6 1997	75.3 1984	73.0 1984	71.2 1995	69.2 1996
	LOWEST MEAN YEAR	1973	1973	1985	1985	1987	1975	1975	1975	1975	1975	1985	1985	1973
	MIN OBS TIME ADJUSTMENT MAX OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	MAY ODS TIME ADORSHMENT	1 0.0	0.0	0.0	1 0.0	0.0	0.0	1 0.0	0.0	0.0	0.0	0.0	0.0	



Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days
1971-2000

										- 4 - 10 - 1					
No	Station Name	Element	JAN	FEB	MAR	APR	MAY	NORN JUN	JUL	TATISTI AUG	CS SEP	OCT	NOV	DEC	ANNUAL
054	KAILUA 446	HIGHEST MEAN	70.0	69.7	70.9	70.7	72.8	73.8	74.5	75.1	75.6	74.8	72.3	70.8	75.6
		MEDIAN LOWEST MEAN	67.9	67.6 65.8	68.0 66.2	69.2	70.3	71.7 69.6	72.7	73.5 70.9	73.6 71.2	73.0	71.0 69.2	68.9 66.6	70.7 65.8
	HIGHES	ST MEAN YEAR	1974	1977	1984	1996	1978	1982	1981	1986	1986	1979	1988	1979	1986
		ST MEAN YEAR	1972	1973	1985	2000	1985	1975	1999	1999	2000	1999	1993	1998	1973
	MIN OBS TIM	E ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		E ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
055	KAINALIU 73.2	HIGHEST MEAN	69.7	69.9	70.2	70.6	71.3	72.0	72.8	74.0	74.4	73.2	72.8	70.5	74.4
		MEDIAN LOWEST MEAN	67.1	67.5 65.2	67.6 65.2	68.3 65.7	69.0 66.6	70.2 67.5	71.2	71.7 69.1	71.7 69.5	72.0	70.5 68.5	68.7 67.3	69.7 65.2
	HIGHES	ST MEAN YEAR	1986	1980	1986	1996	1980	1996	1996	1986	1987	1986	1988	1992	1987
		ST MEAN YEAR	1977	1983	1983	1976	1976	1976	1976	1984	1984	1971	1976	1972	1983
	MIN OBS TIM	E ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	MAX OBS TIM	E ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
059	KANALOHULUHUL I	HIGHEST MEAN	58.1	58.0	59.8	60.5	61.8	63.6	64.7	65.7	64.8	63.2	61.8	59.7	65.7
		MEDIAN	54.5	55.4	56.8	58.3	59.5	61.9	63.3	63.8	63.1	61.9	59.3	56.4	59.5
	III CIIE	LOWEST MEAN ST MEAN YEAR	50.7 1984	52.4 1984	51.6 1990	55.7 1971	53.3 1980	59.4 1977	1994	62.1 1972	61.3 1978	1974	56.3 1984	52.3 1981	50.7 1972
		ST MEAN YEAR	1987	1992	1990	1998	1980	1977	1994	1972	1976	1999	1985	1987	1972
		E ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1007
	MAX OBS TIM	E ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
061	KANEOHE MAUKA	HIGHEST MEAN	73.7	74.0	75.7	75.9	77.4	78.3	78.7	80.5	79.9	79.0	76.7	75.5	80.5
		MEDIAN	71.4	71.7	72.2	72.9	74.5	76.1	76.9	77.6	77.7	76.9	74.7	72.9	74.6
		LOWEST MEAN	69.4	69.7	70.1	71.5	71.6	74.8	75.3	76.3	76.6	75.4	72.8	71.3	69.4
		ST MEAN YEAR ST MEAN YEAR	1974 1971	1981 1987	1984 1990	1981 1976	1980 1987	1981 1998	1982 1999	1981 1999	1981 1999	1996 1988	1991 1985	1995 1972	1981 1971
		E ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19/1
		E ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
063		HIGHEST MEAN	77.5	78.1	78.3	77.3	79.1	81.0	81.0	82.5	83.0	82.2	80.4	77.1	83.0
		MEDIAN	73.8	73.7	74.2	74.9	76.4	78.0	79.2	79.9	80.0	79.3	76.9	74.9	77.0
		LOWEST MEAN	70.5	70.5	70.4	72.3	73.5	75.2	75.9	77.5	78.3	77.0	74.3	72.0	70.4
		ST MEAN YEAR	1984	1978	1984	1980	1980	1981	1987	1987	1979	1979	1980	1980	1979
		ST MEAN YEAR E ADJUSTMENT	1998	1996	1996 0.0	1995	1997	1973	1972	1971	1976	1971	1976 0.0	1996	1996
		E ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
068		HIGHEST MEAN	73.8	73.9	74.9	75.2	77.1	78.6	79.1	80.1	80.0	79.1	78.1	75.4	80.1
		MEDIAN	71.9	72.3	72.9	73.9	75.3	76.8	77.8	78.3	78.5	77.6	75.6	73.4	75.5
		LOWEST MEAN	70.3	70.4	71.0	71.4	72.5	74.7	76.1	76.6	77.0	76.2	74.2	71.7	70.3
		ST MEAN YEAR	1984	1977	1984	1996	1978	1996	1982	1986	1987	1996	1991	1995	1986
		ST MEAN YEAR	1994	1993	1996	1989	1998	1998	1975	1975	1975	1983	1976	1972	1994
		E ADJUSTMENT E ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
078		HIGHEST MEAN	75.8	75.5	78.2	77.8	79.6	80.3	81.4	82.3	81.7	80.8	79.3	76.9	82.3
0,0		MEDIAN	73.5	73.6	74.6	75.8	77.4	78.1	79.3	79.9	79.8	79.2	77.3	74.6	77.0
		LOWEST MEAN	70.5	71.4	72.9	73.9	75.0	76.1	77.4	78.3	77.5	76.6	75.4	73.4	70.5
		ST MEAN YEAR	1996	1988	1986	1996	1996	1996	1986	1982	1987	1986	1995	1995	1982
		ST MEAN YEAR	1972	1972	1976	1976	1998	1976	1975	1999	1971	1971	1971	1972	1972
		E ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
084		E ADJUSTMENT HIGHEST MEAN	74.4	0.0 74.2	0.0 75.8	75.5	0.0 77.2	0.0 79.4	79.2	0.0	0.0	79.9	0.0 78.1	0.0 75.1	80.5
554	KII KAHUKU 91 I	MEDIAN	71.8	74.2	72.7	73.5	74.8	76.5	77.6	78.4	78.5	78.3	75.8	73.5	75.1
		LOWEST MEAN	68.2	68.9	70.2	71.8	70.4	74.6	75.3	77.0	76.5	76.3	73.2	71.1	68.2
	HIGHES	ST MEAN YEAR	1989	1984	1984	1984	1984	1989	1994	1994	1994	1979	1984	1974	1994
		ST MEAN YEAR	1994	1994	1996	1987	1987	1998	1987	1990	1995	1998	1993	1989	1994
		E ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
000		E ADJUSTMENT HIGHEST MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.3
098	KULA BRANCH S I	HIGHEST MEAN MEDIAN	60.8	60.8	61.3	62.2	63.5	65.1	66.8	67.6	67.1	66.4	64.1	62.1	64.1
		LOWEST MEAN	58.6	58.9	59.4	60.9	61.3	63.5	64.9	65.7	65.5	65.1	63.0	60.7	58.6
	HIGHES	ST MEAN YEAR	1981	1981	1986	1986	1992	1981	1982	1986	1986	1979	1986	1980	1986
		ST MEAN YEAR	1993	1993	1996	1976	1987	1976	1975	1983	1975	1999	1976	1997	1993
		E ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
000		E ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.0
1099	KULA HOSPITAL	HIGHEST MEAN	63.1	61.7	63.4	63.7	64.8	66.6	67.2	67.7	68.2 66.1	67.1	65.6	64.0	68.2
		MEDIAN LOWEST MEAN	59.7 58.1	59.7 57.2	60.2 58.5	61.3 59.9	63.1 60.2	64.4 62.3	65.6 63.6	66.6 64.4	64.4	65.3	63.5 61.9	60.9 58.9	63.1 57.2
	HIGHE:	ST MEAN YEAR	1996	1994	1986	1986	1992	1997	1996	1994	1987	1996	1996	1995	1987
		ST MEAN YEAR	1972	1993	1983	1976	1983	1998	1975	1983	1984	1983	1981	1972	1993
		E ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	MAX OBS TIM	E ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
						-									



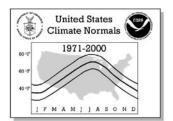
Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

		-10						NORI	ΛΔΙ S S	TATISTI	CS				
No.	Station Name	Element	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
100	KULANI CAMP 7	HIGHEST MEAN	56.5	58.5	57.0	56.6	58.2	59.7	60.5	62.4	61.4	60.6	58.6	57.5	62.4
100	RODINI CINI /	MEDIAN	52.6	52.7	52.4	53.8	54.5	56.4	57.7	58.2	58.1	57.8	56.1	53.7	55.2
		LOWEST MEAN	50.6	49.4	50.6	51.6	51.5	53.9	55.0	56.1	55.2	55.8	52.7	50.2	49.4
		EST MEAN YEAR	1986	1986	1986	1986	1980	1981	1982	1986	1986	1984	1981	1980	1986
		EST MEAN YEAR	1998	1973	1987	1994	1998	1998	1998	1983	1975	1971	1971	1997	1973
		ME ADJUSTMENT ME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
103	LAHAINA 361	HIGHEST MEAN	75.1	74.9	76.0	77.0	78.6	79.3	81.1	81.1	81.1	80.1	78.6	76.6	81.1
		MEDIAN	73.0	72.9	73.8	74.9	76.0	77.8	78.8	79.6	79.4	78.5	76.5	74.2	76.4
		LOWEST MEAN	71.3	70.4	71.5	72.7	73.8	75.3	76.5	77.4	77.5	76.6	74.5	72.6	70.4
		EST MEAN YEAR	1974	1977	1986	1996	1986	1997	1996	1986	1986	1996	1986	1995	1996
		EST MEAN YEAR ME ADJUSTMENT	1971	1993	1982 0.0	1973	1973	1976 0.0	1975	1975 0.0	1975 0.0	1978	1972 0.0	1978	1993
		ME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
105	LANAI AP 656	HIGHEST MEAN	69.2	68.9	70.8	71.8	72.9	74.3	76.1	76.9	76.3	75.7	73.3	70.5	76.9
		MEDIAN	67.3	67.5	68.2	69.7	70.8	72.9	74.2	74.6	74.5	73.4	71.6	69.0	71.3
		LOWEST MEAN	65.7	65.5	67.0	68.2	68.3	71.0	72.1	72.7	73.1	72.1	70.0	66.2	65.5
		EST MEAN YEAR EST MEAN YEAR	1990	1999 1972	1984 1976	1996 1985	1996 1975	1997 1975	1993 1975	1986 1976	1987 1975	1996 1983	1991 1985	1992 1989	1986 1972
		ME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19/2
		ME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
106	LANAI CITY 67	HIGHEST MEAN	67.8	67.9	69.5	69.6	70.5	71.9	72.5	73.6	74.4	72.7	71.8	69.6	74.4
		MEDIAN	65.9	66.5	66.5	67.6	68.5	70.3	71.2	71.9	72.2	71.2	69.7	67.2	69.1
		LOWEST MEAN	63.7	62.3	65.2	65.4	66.6	68.3	69.1	70.4	70.9	69.9	67.7	65.1	62.3
		EST MEAN YEAR EST MEAN YEAR	1981 1979	1986 1973	1986 1979	1996 1972	1978 1972	1996 1998	1996 1976	1986 1980	1987 1973	1984 1999	1988 1974	1995 1972	1987 1973
		ME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1973
		ME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
113	LIHUE AP 1020	HIGHEST MEAN	74.3	74.2	74.9	75.8	77.7	79.5	80.6	81.3	80.8	79.4	78.0	75.9	81.3
		MEDIAN	71.5	71.7	72.6	73.7	75.4	77.9	79.0	79.9	79.6	78.1	76.0	73.4	75.6
	итси	LOWEST MEAN EST MEAN YEAR	69.1	69.5 1974	70.6 1973	72.0	72.2 1984	76.1 1981	76.8	77.3 1981	77.9 1994	76.8 1977	73.6 1994	70.6 1974	69.1 1981
		EST MEAN YEAR	1998	1987	1996	1979	1987	1998	1998	1998	1975	1980	1985	1974	1998
		ME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1330
	MAX OBS TI	ME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
119	MAKENA GOLF C	HIGHEST MEAN	74.3	74.3	75.2	75.8	77.3	78.6	79.9	80.7	80.9	78.8	77.9	76.2	80.9
		MEDIAN LOWEST MEAN	72.1	72.3 70.2	73.3 71.4	74.4	75.4 73.0	77.3 75.1	78.2 76.5	78.6 76.9	78.8 76.3	77.8	75.6 74.3	73.5 71.3	75.8 70.2
	нтсн	EST MEAN YEAR	1981	1991	1986	1986	1988	1996	1986	1986	1986	1996	1986	1995	1986
		EST MEAN YEAR	1972	1993	1996	1976	1998	1998	1998	1983	1983	1999	1999	1997	1972
	MIN OBS TI	ME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		ME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
124	MANOA LYON AR	HIGHEST MEAN	71.9	72.6	72.9	73.0	74.3	75.1	75.6	76.7	77.3	77.0	74.9	73.0	77.3
		MEDIAN LOWEST MEAN	69.7	69.6 67.2	70.3 68.4	70.6	72.1 69.0	73.2 70.5	74.4	75.6 72.4	75.9 73.7	75.0 72.6	72.8 71.4	70.8	72.7 67.2
	HIGH	EST MEAN YEAR	1974	1988	1988	1996	1986	1996	1988	1996	1987	1984	1991	1995	1987
		EST MEAN YEAR	1993	1993	1976	1976	1998	1976	1976	1983	1976	1975	1975	1972	1993
		ME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
105		ME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	F0 0
14/	MAUNA LOA SLO	HIGHEST MEAN MEDIAN	47.8	47.0 42.0	47.4 42.7	47.8	49.9 45.8	52.0 48.8	50.9	50.7 48.2	49.3 47.4	48.7	48.2 45.3	47.2 43.4	52.0 45.6
		LOWEST MEAN	36.3	37.1	36.7	39.5	42.3	45.0	44.8	45.2	44.4	44.4	40.6	39.1	36.3
	HIGH	EST MEAN YEAR	1986	1998	1983	1993	1996	1995	1991	1986	1988	1987	1982	1986	1995
		EST MEAN YEAR	1975	1976	1976	1989	1976	1974	1975	1971	1976	1974	1978	1971	1975
		ME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13/	MAX OBS TII MOLOKAI KAUNA	ME ADJUSTMENT HIGHEST MEAN	73.2	0.0 72.9	0.0 73.7	75.5	0.0 76.6	0.0 78.1	79.0	0.0	0.0	79.5	0.0 77.0	0.0 74.0	80.8
134	HOLIOIAT KAUNA	MEDIAN	70.6	70.3	71.5	72.5	74.3	76.5	77.7	78.2	78.3	77.5	74.9	71.9	74.5
		LOWEST MEAN	68.9	66.6	68.9	70.0	71.2	73.5	75.9	76.3	75.2	74.8	72.5	70.1	66.6
		EST MEAN YEAR	1989	1977	1977	1974	1978	1996	1994	1986	1990	1984	1977	1992	1986
		EST MEAN YEAR	1998	1987	1987	1989	1987	1976	1975	2000	2000	1999	1985	1985	1987
		ME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
135	MAX OBS TII NAALEHU 14	ME ADJUSTMENT HIGHEST MEAN	72.0	0.0 73.1	0.0 74.9	72.9	0.0 74.3	0.0 75.5	75.6	0.0 77.0	0.0 76.3	76.6	0.0 74.7	0.0 73.2	77.0
		MEDIAN	69.9	70.2	70.2	70.7	71.6	72.6	73.0	74.3	74.6	74.2	72.1	70.6	72.1
		LOWEST MEAN	67.4	66.7	67.7	68.5	69.7	70.8	71.8	72.9	73.0	72.1	71.0	68.6	66.7
		EST MEAN YEAR	1974	1991	1986	1996	1992	1992	1992	1990	1990	1990	1980	1995	1990
		EST MEAN YEAR	1979	1979	1985	1985	1979	1979	1979	1988	1984	1985	1984	1978	1979
		ME ADJUSTMENT ME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	LII COO III	THE ADOUGHNENT	<u>ı</u>	0.0	0.0	<u>ı</u>		0.0	1 0.0	0.0	0.0	<u>ı</u>	0.0	0.0	İ



Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days
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No.	Station Name Element	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
145	OOKALA 223 HIGHEST MEAN	72.9	71.9	73.2	73.3	73.8	75.6	76.1	77.5	77.9	76.6	76.0	73.3	77.9
	MEDIAN	70.6	70.2	70.2	71.2	72.0	74.1	74.8	75.6	75.9	75.3	73.6	71.3	72.9
	LOWEST MEAN	68.0	67.9	68.7	69.3	70.1	72.1	72.8	72.7	73.7	72.8	71.8	69.7	67.9
	HIGHEST MEAN YEAR	1974	1974	1984	1996	1978	1996	1982	1987	1986	1974	1991	1980	1986
	LOWEST MEAN YEAR	1972	1972	1981	1985	1979	1976	1983	1976	1976	1976	1976	1997	1972
	MIN OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	MAX OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
146	OPAEULA 870 HIGHEST MEAN	72.7	71.2 68.8	72.4	71.9	74.3	74.4	75.0	75.6	77.1	76.2	74.9	72.7	77.1
	MEDIAN LOWEST MEAN	69.2	65.8	69.1 66.5	69.2	70.9 67.0	72.4 69.2	73.7	$74.1 \\ 71.4$	74.3 72.1	73.8	72.3 69.6	70.6 66.7	71.8
	HIGHEST MEAN YEAR	1974	1974	1984	1996	1996	1996	1996	1994	1990	1997	1980	1995	1990
	LOWEST MEAN YEAR	1971	1972	1973	1972	1987	1972	1972	1972	1998	1971	1972	1972	1972
	MIN OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-,,_
	MAX OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
147	OPIHIHALE 2 2 HIGHEST MEAN	69.9	69.7	70.6	71.0	73.0	72.8	74.0	74.8	74.8	73.3	72.1	70.9	74.8
	MEDIAN	66.6	66.9	67.3	68.5	69.7	70.9	71.9	72.5	72.2	71.5	70.1	68.0	69.9
	LOWEST MEAN	64.5	64.0	66.1	66.1	67.0	68.0	69.4	70.9	69.7	69.0	68.0	65.2	64.0
	HIGHEST MEAN YEAR	1996	1980	1986	1996	1996	1996	1995	1986	1987	1995	1995	1995	1986
	LOWEST MEAN YEAR	1972	1973	1999	1976	1976	1976	1976	1975	1971	1971	1971	1971	1973
	MIN OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
171	MAX OBS TIME ADJUSTMENT PUUKOHOLA HEI HIGHEST MEAN	75.6	0.0 74.7	0.0 75.6	77.1	0.0 77.4	0.0 78.7	79.5	0.0	0.0	79.7	0.0 78.5	0.0 75.2	81.0
1 / 1	MEDIAN	71.1	74.7	72.7	74.0	74.8	76.1	77.2	77.8	77.4	77.2	78.5	72.6	74.9
1	LOWEST MEAN	69.4	69.5	72.7	72.7	73.2	73.7	74.9	75.7	75.3	74.2	72.3	71.2	69.4
	HIGHEST MEAN YEAR	1990	1988	1986	1990	1988	1986	1982	1986	1987	1986	1987	1987	1987
	LOWEST MEAN YEAR	1997	1995	1982	2000	1999	1998	1976	1999	1999	1999	2000	2000	1997
	MIN OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	MAX OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
173	PUU MANAWAHUA HIGHEST MEAN	69.0	68.0	69.0	70.0	71.1	74.3	74.8	75.9	75.5	74.5	73.5	69.9	75.9
	MEDIAN	65.9	66.2	66.7	67.7	68.9	70.8	72.3	73.7	73.6	72.3	69.5	67.3	69.7
	LOWEST MEAN	64.5	63.8	63.9	65.2	66.3	68.2	69.6	70.9	70.8	69.7	67.5	63.9	63.8
	HIGHEST MEAN YEAR LOWEST MEAN YEAR	1974	1977 1990	1986 1991	1996 1999	1996 1998	1992 1999	1994 1998	1994 1998	1994 1998	1979	1991 1997	1992 1997	1994 1990
	MIN OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1990
	MAX OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
176	SEA MOUNTAIN HIGHEST MEAN	74.9	74.0	75.3	74.8	76.7	77.4	77.5	78.9	78.4	77.7	76.9	74.9	78.9
	MEDIAN	72.6	72.2	72.7	73.4	74.5	75.3	76.2	76.7	76.6	76.7	74.7	73.3	74.7
	LOWEST MEAN	70.2	70.8	71.3	72.2	72.9	73.5	74.4	74.7	75.2	74.5	72.9	71.3	70.2
	HIGHEST MEAN YEAR	1974	1981	1986	1996	1996	1996	1995	1986	1990	1979	1987	1980	1986
	LOWEST MEAN YEAR	1972	1993	1975	1976	1975	1986	1976	1971	1975	1999	1985	1972	1972
	MIN OBS TIME ADJUSTMENT MAX OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
178	SOUTH KONA 2 HIGHEST MEAN	66.9	67.2	67.7	68.5	70.6	70.4	71.0	71.8	71.6	71.2	70.5	68.5	71.8
1 7 0	MEDIAN	65.0	65.2	65.4	66.1	67.0	67.8	69.3	70.0	69.5	69.4	68.4	66.5	67.5
	LOWEST MEAN	62.7	62.9	64.2	64.3	64.7	65.5	67.3	68.1	67.2	67.8	65.8	64.8	62.7
	HIGHEST MEAN YEAR	1997	1977	1984	1996	1996	1996	1996	1986	1986	1992	1996	1980	1986
	LOWEST MEAN YEAR	1995	1993	1990	1976	1998	1976	1999	1975	1999	1999	1999	1994	1995
	MIN OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
105	MAX OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	01.4
182	UPOLU POINT U HIGHEST MEAN	76.9	75.7	75.8 73.2	77.2	78.4 75.4	79.8	80.1 78.0	81.0 78.9	81.4 79.2	81.2	78.3 76.2	76.7	81.4
	MEDIAN LOWEST MEAN	72.9	72.6 70.5	73.2	74.0	73.6	77.5 74.3	75.0	78.9 76.7	76.9	76.3	76.2	73.9 72.2	75.9 70.5
1	HIGHEST MEAN YEAR	1981	1981	1981	1981	1981	1981	1981	1987	1986	1984	1988	1980	1986
1	LOWEST MEAN YEAR	1979	1990	1990	2000	1998	1975	1975	1975	1975	1975	1976	1997	1990
	MIN OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	MAX OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
195	WAIALUA 847 HIGHEST MEAN	71.5	71.1	72.5	74.3	75.6	76.6	78.9	80.1	79.3	77.6	76.1	73.7	80.1
	MEDIAN	69.5	69.2	70.0	71.1	72.8	74.9	76.0	76.9	76.8	75.8	74.1	71.3	73.3
	LOWEST MEAN	66.5	67.1	68.5	69.1	70.9	73.4	74.5	75.1	74.7	74.2	70.6	69.3	66.5
	HIGHEST MEAN YEAR LOWEST MEAN YEAR	1974 1972	1997 1973	1988 1985	1996 1985	1986 1985	1981 1976	1986 1977	1986 1983	1987 1983	1986 1999	1986 1976	1995 1972	1986 1972
	MIN OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1914
	MAX OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
203	WAIKIKI 717.2 HIGHEST MEAN	74.8	75.2	76.4	77.9	78.4	80.8	81.5	82.0	81.8	80.7	79.2	76.8	82.0
	MEDIAN	72.8	72.7	74.3	75.2	76.8	78.8	80.0	80.6	80.3	78.9	76.9	74.4	76.7
	LOWEST MEAN	70.5	70.7	72.3	73.0	73.5	75.7	77.2	78.4	78.3	77.9	74.6	71.3	70.5
	HIGHEST MEAN YEAR	1984	1997	1984	1996	1996	1996	1996	1996	1990	1996	1986	1995	1996
	LOWEST MEAN YEAR	1994	1993	1975	1975	1975	1975	1976	1976	1983	1983	1985	1972	1994
	MIN OBS TIME ADJUSTMENT MAX OBS TIME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	TIM ODD TIME ADOUDTHENT	1 0.0	0.0	0.0	1 5.5	0.0		1 0.0	0.0	0.0	1 0.0	0.0	0.0	1



Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days
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No	Station Name	Element	JAN	FEB	MAR	APR	MAY	NORI JUN	MALS S	TATISTI AUG	CS SEP	ОСТ	NOV	DEC	ANNUAL
	WAIMANALO EXP	HIGHEST MEAN	74.0	73.8	74.8	75.4	77.0	78.4	79.7	80.1		79.0	78.2	74.9	80.5
		MEDIAN LOWEST MEAN	71.5	71.5 69.2	72.5 70.3	74.0 72.3	75.4 72.6	77.1 75.7	78.2 76.4	79.0 77.4	78.8 77.7	77.8 76.2	75.6 72.9	72.9 71.2	75.3 68.8
		HEST MEAN YEAR	1984	1988	1984	1986	1984	1992	1984	1986	1979	1996	1991	1974	1979
		VEST MEAN YEAR	1998	1993	1996 0.0	2000	1987 0.0	1976 0.0	1976	1975 0.0	1975	1976 0.0	1976 0.0	1989	1998
200	MAX OBS T	IME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	00.0
208	WAIMEA ARBORE	HIGHEST MEAN MEDIAN	73.1	72.5 70.2	73.6 71.9	74.8	76.2 74.3	78.7 75.7	79.2	80.0 78.0	79.3 77.8	78.8 76.6	76.3 73.9	73.0 71.3	80.0 74.1
	нтс	LOWEST MEAN HEST MEAN YEAR	68.8	67.5 1997	69.8 1997	70.8	71.6 1996	74.3 1996	75.2 1994	76.3 1996	75.6 1994	74.0 1984	72.1 1984	69.2 1995	67.5 1996
		VEST MEAN YEAR	1993	1987	1996	1985	1987	1975	1975	1983	1975	1988	1976	1972	1987
		IME ADJUSTMENT IME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
209	WAIMEA 947	HIGHEST MEAN	74.0	74.0	74.8	77.1	78.0	78.8	79.9	81.1	80.8	79.3	77.4	75.0	81.1
		MEDIAN LOWEST MEAN	71.5	71.9 68.4	72.7 70.0	73.7	75.3 73.2	76.8 75.7	78.5	79.2 77.7	78.7 77.1	77.7 76.1	75.5 72.8	72.8	75.3 68.4
		HEST MEAN YEAR	1974	1984	1984	1986	1984	1984	1984	1997	1997	1996	1991	1995	1997
		VEST MEAN YEAR IME ADJUSTMENT	1979	1979	1979 0.0	1979	1987 0.0	1975 0.0	1998	1975 0.0	1998	1978	1978	1972	1979
	MAX OBS T	IME ADJUSTMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	