

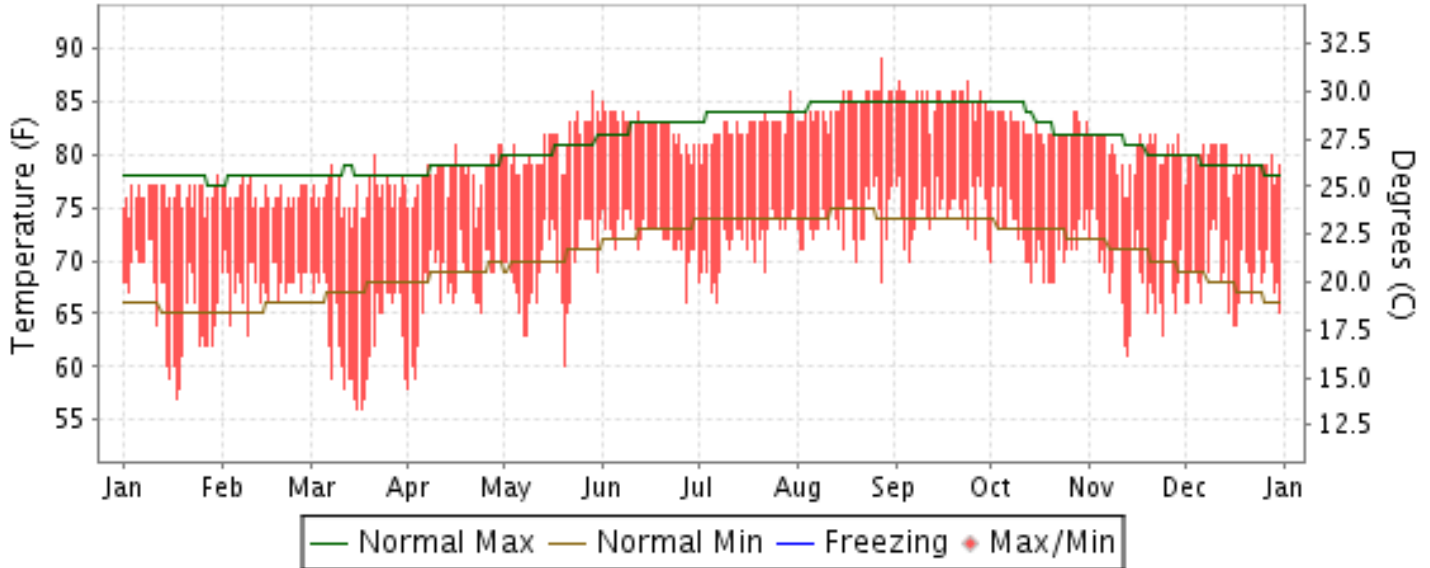


2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

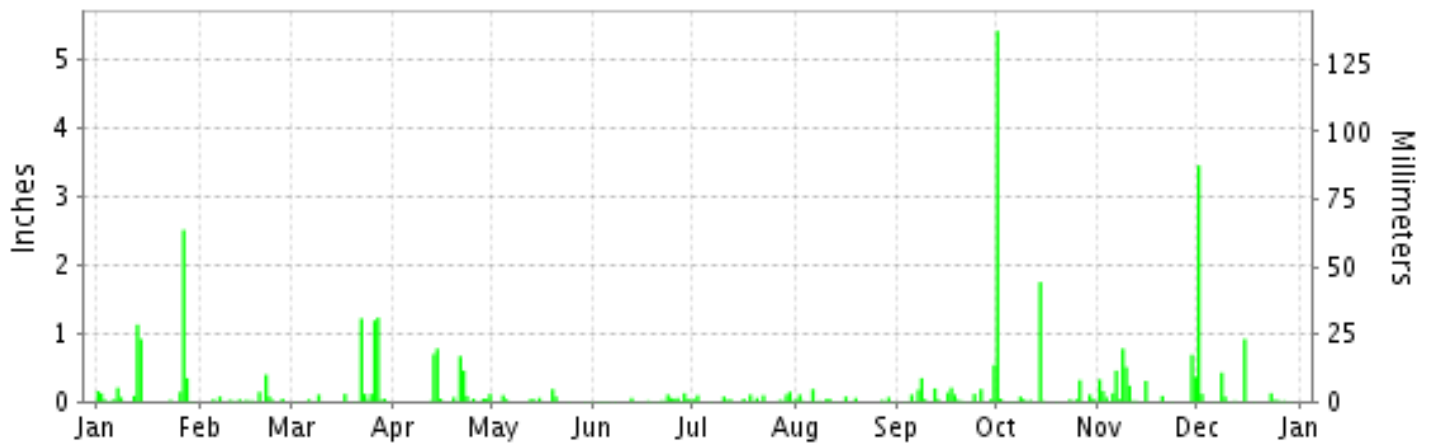
ISSN 0198-1749

LIHUE, HAWAII (PHLI)

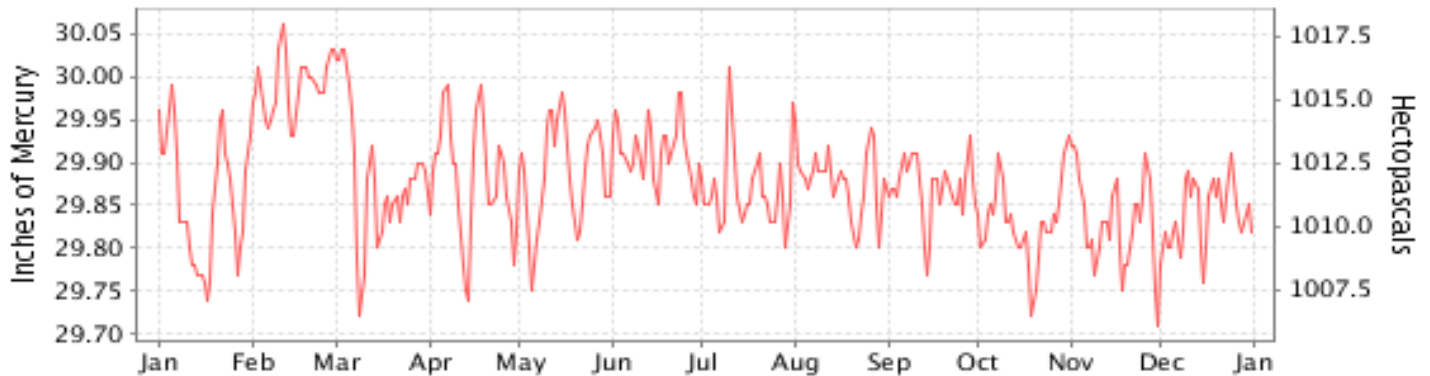
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
OCEANIC AND
ATMOSPHERIC ADMINISTRATION

NATIONAL
ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2013

LIHUE (PHLI)

LATITUDE: 21° 59'N LONGITUDE: 159° 20'W ELEVATION (FT): GRND: 100 BARO: 104 TIME ZONE: HAWAII (UTC -10) WBAN: 22536

| ELEMENT | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR | |
|----------------------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------|---|
| TEMPERATURE °F | MEAN DAILY MAXIMUM | 76.3 | 76.2 | 76.4 | 78.1 | 81.0 | 82.7 | 82.5 | 84.8 | 85.3 | 82.7 | 80.4 | 79.4 | 80.5 | |
| | HIGHEST DAILY MAXIMUM | 78 | 78 | 80 | 81 | 86 | 85 | 86 | 89 | 87 | 84 | 82 | 81 | 89 | |
| | DATE OF OCCURRENCE | 31 | 10+ | 21 | 30+ | 29 | 01 | 30 | 28 | 24+ | 28+ | 29+ | 14+ | AUG 28 | |
| | MEAN DAILY MINIMUM | 65.6 | 67.9 | 63.1 | 67.7 | 69.2 | 72.3 | 71.6 | 73.7 | 74.8 | 71.8 | 68.4 | 68.5 | 69.6 | |
| | LOWEST DAILY MINIMUM | 57 | 63 | 56 | 58 | 60 | 66 | 66 | 68 | 70 | 68 | 61 | 64 | 56 | |
| | DATE OF OCCURRENCE | 18 | 09 | 17+ | 01 | 20 | 27 | 07 | 28 | 05 | 21+ | 13 | 17+ | MAR 17+ | |
| | AVERAGE DRY BULB | 70.9 | 72.1 | 69.7 | 72.9 | 75.1 | 77.5 | 77.0 | 79.2 | 80.1 | 77.3 | 74.4 | 74.0 | 75.0 | |
| | MEAN WET BULB | 65.7 | | 63.3 | 68.7 | 69.5 | 70.8 | 71.7 | 72.3 | 73.1 | 72.0 | 69.5 | 69.6 | | |
| | MEAN DEW POINT | 62.6 | | 59.4 | 66.4 | 66.7 | 67.9 | 69.3 | 69.3 | 70.1 | 69.6 | 66.9 | 67.3 | | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | MAXIMUM >= 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | MAXIMUM <= 32° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MINIMUM <= 32° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| MINIMUM <= 0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| H/C | HEATING DEGREE DAYS | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | |
| | COOLING DEGREE DAYS | 193 | 202 | 153 | 236 | 320 | 382 | 381 | 451 | 460 | 390 | 290 | 285 | 3743 | |
| RH | MEAN (PERCENT) | 76 | 73 | 74 | 81 | 77 | 75 | 79 | 74 | 73 | 77 | 79 | 81 | 77 | |
| | HOUR 02 LST | 80 | 75 | 80 | 87 | 83 | 81 | 87 | 80 | 78 | 83 | 84 | 85 | 82 | |
| | HOUR 08 LST | 78 | 73 | 72 | 80 | 73 | 73 | 77 | 71 | 70 | 74 | 78 | 81 | 75 | |
| | HOUR 14 LST | 71 | 68 | 65 | 75 | 69 | 66 | 68 | 64 | 66 | 70 | 70 | 72 | 69 | |
| | HOUR 20 LST | 78 | 74 | 76 | 83 | 80 | 80 | 84 | 77 | 76 | 80 | 83 | 83 | 80 | |
| W/O | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG(VISBY <= 1/4 MI) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | THUNDERSTORMS | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 2 | 8 | |
| PR | MEAN STATION PRESS. (IN.) | 29.86 | 29.99 | 29.89 | 29.88 | 29.89 | 29.91 | 29.87 | 29.88 | 29.87 | 29.83 | 29.83 | 29.84 | 29.88 | |
| | MEAN SEA-LEVEL PRESS. (IN.) | 30.02 | 30.15 | 30.04 | 30.04 | 30.04 | 30.07 | 30.03 | 30.03 | 30.02 | 29.99 | 29.99 | 30.00 | 30.04 | |
| WINDS | RESULTANT SPEED (MPH) | 7.7 | 16.6 | 5.4 | 3.7 | 7.3 | 14.2 | 10.8 | 11.9 | 11.3 | 5.7 | 5.3 | 5.3 | 8.7 | |
| | RES. DIR. (TENS OF DEGS.) | 05 | 05 | 03 | 08 | 05 | 06 | 06 | 05 | 05 | 06 | 04 | 05 | 06 | |
| | MEAN SPEED (MPH) | 12.0 | 17.1 | 11.0 | 8.9 | 10.6 | 14.6 | 12.3 | 12.8 | 12.5 | 9.4 | 10.6 | 8.9 | 11.7 | |
| | PREVAIL.DIR.(TENS OF DEGS.) | 07 | 06 | 06 | 07 | 07 | 06 | 06 | 06 | 06 | 07 | 04 | 04 | 06 | |
| | MAXIMUM 2-MINUTE WIND | | | | | | | | | | | | | | |
| | SPEED (MPH) | 31 | 35 | 29 | 24 | 24 | 28 | 28 | 28 | 28 | 24 | 35 | 26 | 35 | |
| | DIR. (TENS OF DEGS.) | 08 | 07 | 02 | 18 | 04 | 06 | 07 | 06 | 04 | 05 | 04 | 07 | 04 | |
| | DATE OF OCCURRENCE | 05 | 19 | 30 | 13 | 06 | 23 | 11 | 16 | 17 | 31 | 10 | 23 | NOV 10 | |
| | MAXIMUM 3-SECOND WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 40 | 43 | 37 | 37 | 30 | 32 | 33 | 36 | 33 | 30 | 43 | 33 | 43 | |
| DIR. (TENS OF DEGS.) | 08 | 07 | 24 | 07 | 08 | 06 | 05 | 05 | 04 | 06 | 04 | 16 | 04 | | |
| DATE OF OCCURRENCE | 05 | 19 | 09 | 06 | 17 | 23 | 31 | 16 | 17 | 31 | 10 | 01 | NOV 10 | | |
| PRECIPITATION | WATER EQUIVALENT: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 5.88 | 1.00 | 4.29 | 3.12 | 0.58 | 0.70 | 0.96 | 0.75 | 2.36 | 7.99 | 4.24 | 5.28 | 37.15 | |
| | GREATEST 24-HOUR (IN.) | 2.53 | 0.40 | 1.95 | 1.24 | 0.22 | 0.16 | 0.25 | 0.19 | 0.54 | 5.41 | 0.81 | 3.45 | 5.41 | |
| | DATE OF OCCURRENCE | 27-28 | 21 | 26-27 | 13-14 | 19-20 | 28-29 | 29-30 | 06 | 30 | 01 | 07-08 | 01 | OCT 01 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| PRECIPITATION 0.01 | 17 | 14 | 14 | 13 | 10 | 20 | 16 | 15 | 19 | 17 | 17 | 15 | 187 | | |
| PRECIPITATION 0.10 | 8 | 2 | 7 | 5 | 2 | 2 | 5 | 2 | 10 | 4 | 10 | 5 | 62 | | |
| PRECIPITATION 1.00 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 8 | | |
| SNOWFALL | SNOW,ICE PELLETS,HAIL | | | | | | | | | | | | | | |
| | TOTAL (IN.) | | | | | | | | | | | | | | |
| | GREATEST 24-HOUR (IN.) | | | | | | | | | | | | | | |
| | DATE OF OCCURRENCE | | | | | | | | | | | | | | |
| | MAXIMUM SNOW DEPTH (IN.) | | | | | | | | | | | | | | |
| DATE OF OCCURRENCE | | | | | | | | | | | | | | | |
| NUMBER OF DAYS WITH: | | | | | | | | | | | | | | | |
| SNOWFALL >= 1.0 | | | | | | | | | | | | | | | |

NORMALS, MEANS, AND EXTREMES LIHUE (PHLI)

LATITUDE: 21° 59'N **LONGITUDE:** 159° 20'W **ELEVATION (FT):** GRND: 100 BARO: 104 **TIME ZONE:** HAWAII (UTC -10) **WBAN: 22536**

| | ELEMENT | POR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR |
|--|---|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------|
| TEMPERATURE °F | NORMAL DAILY MAXIMUM | 30 | 78.0 | 77.8 | 78.4 | 79.2 | 81.2 | 83.3 | 84.2 | 84.7 | 84.8 | 83.4 | 80.8 | 78.8 | 81.2 |
| | MEAN DAILY MAXIMUM | 63 | 77.9 | 77.8 | 78.2 | 79.2 | 81.0 | 82.9 | 83.8 | 84.5 | 84.7 | 83.3 | 80.9 | 78.7 | 81.1 |
| | HIGHEST DAILY MAXIMUM | 63 | 86 | 86 | 88 | 88 | 88 | 89 | 89 | 90 | 90 | 91 | 89 | 87 | 91 |
| | YEAR OF OCCURRENCE | | 2006 | 1986 | 1986 | 1981 | 1981 | 1969 | 1981 | 1987 | 1995 | 2012 | 1995 | 2005 | OCT 2012 |
| | MEAN OF EXTREME MAXS. | 63 | 82.0 | 81.9 | 82.3 | 82.5 | 83.8 | 84.8 | 85.8 | 86.4 | 86.6 | 86.2 | 84.0 | 82.4 | 84.1 |
| | NORMAL DAILY MINIMUM | 30 | 65.5 | 65.5 | 67.0 | 68.8 | 70.4 | 73.0 | 74.1 | 74.6 | 74.1 | 72.9 | 70.8 | 67.6 | 70.4 |
| | MEAN DAILY MINIMUM | 63 | 65.2 | 65.3 | 66.5 | 68.2 | 69.9 | 72.2 | 73.2 | 74.0 | 73.5 | 72.1 | 70.2 | 67.5 | 69.8 |
| | LOWEST DAILY MINIMUM | 63 | 50 | 52 | 51 | 56 | 58 | 61 | 62 | 66 | 65 | 61 | 57 | 52 | 50 |
| | YEAR OF OCCURRENCE | | 1969 | 1962 | 1955 | 1958 | 1996 | 1987 | 1979 | 1979 | 1981 | 2006 | 1958 | 1953 | JAN 1969 |
| | MEAN OF EXTREME MINS. | 63 | 57.7 | 58.0 | 59.0 | 61.9 | 63.9 | 67.5 | 68.8 | 69.8 | 68.4 | 66.4 | 64.0 | 60.3 | 63.8 |
| | NORMAL DRY BULB | 30 | 71.7 | 71.6 | 72.7 | 74.0 | 75.8 | 78.1 | 79.1 | 79.7 | 79.4 | 78.1 | 75.8 | 73.2 | 75.8 |
| | MEAN DRY BULB | 63 | 71.6 | 71.5 | 72.4 | 73.7 | 75.6 | 77.7 | 78.7 | 79.4 | 79.2 | 77.7 | 75.6 | 73.1 | 75.5 |
| | MEAN WET BULB | 30 | 65.4 | 65.1 | 65.9 | 67.2 | 68.6 | 70.5 | 71.5 | 71.9 | 71.8 | 71.2 | 69.4 | 67.4 | 68.8 |
| | MEAN DEW POINT | 30 | 63.9 | 63.3 | 64.3 | 65.7 | 67.2 | 69.2 | 70.2 | 70.6 | 70.5 | 69.9 | 68.0 | 65.9 | 67.4 |
| | NORMAL NO. DAYS WITH: MAXIMUM >= 90 | 30 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| | MAXIMUM <= 32 | 30 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MINIMUM <= 32 | 30 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| MINIMUM <= 0 | 30 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| H/C | NORMAL HEATING DEG. DAYS | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | NORMAL COOLING DEG. DAYS | 30 | 209 | 186 | 239 | 270 | 335 | 394 | 439 | 454 | 433 | 408 | 324 | 254 | 3945 |
| RH | NORMAL (PERCENT) | 30 | 75 | 75 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 76 | 76 | 76 | 75 |
| | HOURLY 02 LST | 30 | 81 | 81 | 80 | 80 | 80 | 80 | 80 | 79 | 80 | 81 | 80 | 81 | 80 |
| | HOURLY 08 LST | 30 | 80 | 79 | 77 | 76 | 75 | 75 | 76 | 76 | 76 | 78 | 79 | 80 | 77 |
| | HOURLY 14 LST | 30 | 66 | 65 | 66 | 67 | 66 | 66 | 66 | 66 | 65 | 67 | 69 | 68 | 66 |
| | HOURLY 20 LST | 30 | 78 | 77 | 76 | 77 | 77 | 77 | 77 | 77 | 76 | 77 | 78 | 78 | 77 |
| S | PERCENT POSSIBLE SUNSHINE | 54 | 55 | 57 | 59 | 55 | 61 | 63 | 62 | 64 | 68 | 60 | 49 | 49 | 59 |
| W/O | MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI) | 50 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| | THUNDERSTORMS | 63 | 1.0 | 0.7 | 1.1 | 0.4 | 0.5 | 0.2 | 0.2 | 0.2 | 0.4 | 1.0 | 1.0 | 1.0 | 7.7 |
| CLOUDINESS | MEAN: SUNRISE-SUNSET (OKTAS) | 48 | 4.6 | 4.6 | 5.2 | 5.5 | 5.3 | 5.0 | 5.1 | 4.9 | 4.6 | 4.9 | 5.2 | 4.9 | 5.0 |
| | MIDNIGHT-MIDNIGHT (OKTAS) | 33 | 4.5 | 4.5 | 5.1 | 5.4 | 5.2 | 5.0 | 5.2 | 4.9 | 4.6 | 4.9 | 5.2 | 4.8 | 4.9 |
| | MEAN NO. DAYS WITH: CLEAR | 47 | 8.0 | 7.0 | 4.8 | 2.9 | 3.0 | 3.4 | 2.5 | 3.5 | 5.3 | 5.1 | 3.9 | 5.9 | 55.3 |
| | PARTLY CLOUDY | 47 | 12.8 | 12.1 | 13.9 | 13.8 | 16.5 | 17.5 | 18.6 | 18.1 | 17.3 | 15.3 | 13.9 | 13.4 | 183.2 |
| | CLOUDY | 47 | 10.2 | 9.1 | 12.3 | 13.2 | 11.5 | 9.0 | 9.4 | 8.8 | 6.9 | 10.1 | 11.6 | 11.1 | 123.2 |
| PR | MEAN STATION PRESSURE(IN) | 30 | 29.86 | 29.89 | 29.91 | 29.93 | 29.91 | 29.92 | 29.90 | 29.88 | 29.85 | 29.85 | 29.86 | 29.87 | 29.89 |
| | MEAN SEA-LEVEL PRES. (IN) | 30 | 30.01 | 30.04 | 30.07 | 30.08 | 30.06 | 30.06 | 30.05 | 30.03 | 30.00 | 30.00 | 30.01 | 30.02 | 30.04 |
| WINDS | MEAN SPEED (MPH) | 30 | 12.1 | 12.6 | 13.7 | 14.5 | 13.3 | 14.5 | 14.8 | 14.1 | 12.8 | 12.5 | 13.2 | 12.7 | 13.4 |
| | PREVAIL.DIR(TENS OF DEGS) | 34 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 |
| | MAXIMUM 2-MINUTE: SPEED (MPH) | 16 | 46 | 38 | 40 | 36 | 31 | 35 | 32 | 33 | 33 | 36 | 38 | 48 | 48 |
| | DIR. (TENS OF DEGS) | | 22 | 04 | 30 | 05 | 08 | 09 | 07 | 07 | 07 | 05 | 03 | 25 | 25 |
| | YEAR OF OCCURRENCE | | 2004 | 2009 | 2012 | 2000 | 2011 | 2001 | 2011 | 2007 | 2007 | 2005 | 2009 | 2007 | DEC 2007 |
| | MAXIMUM 3-SECOND SPEED (MPH) | 16 | 59 | 48 | 51 | 46 | 41 | 38 | 39 | 38 | 40 | 41 | 49 | 55 | 59 |
| | DIR. (TENS OF DEGS) | | 21 | 20 | 32 | 05 | 04 | 05 | 07 | 06 | 04 | 07 | 07 | 25 | 21 |
| YEAR OF OCCURRENCE | | 2004 | 2004 | 2012 | 2000 | 2011 | 2012 | 2011 | 2006 | 2007 | 2009 | 2009 | 2007 | JAN 2004 | |
| PRECIPITATION | NORMAL (IN) | 30 | 3.75 | 3.16 | 4.61 | 2.25 | 2.07 | 1.61 | 1.87 | 2.13 | 2.12 | 3.82 | 4.46 | 5.20 | 37.05 |
| | MAXIMUM MONTHLY (IN) | 63 | 17.56 | 11.35 | 36.13 | 10.65 | 12.59 | 4.83 | 8.85 | 8.13 | 10.87 | 18.04 | 18.45 | 22.91 | 36.13 |
| | YEAR OF OCCURRENCE | | 1956 | 1989 | 2006 | 1972 | 1977 | 1991 | 1954 | 1959 | 1980 | 1982 | 1955 | 1968 | MAR 2006 |
| | MINIMUM MONTHLY (IN) | 63 | 0.30 | T | 0.19 | 0.32 | 0.10 | 0.32 | 0.75 | 0.44 | 0.44 | 0.35 | 0.58 | .08 | 0.08 |
| | YEAR OF OCCURRENCE | | 1986 | 1983 | 2008 | 1992 | 2000 | 2007 | 1956 | 2007 | 2007 | 2012 | 2012 | 2005 | DEC 2005 |
| | MAXIMUM IN 24 HOURS (IN) | 63 | 11.09 | 7.28 | 9.31 | 6.52 | 6.70 | 2.17 | 5.04 | 5.43 | 7.16 | 8.46 | 11.20 | 11.54 | 11.54 |
| | YEAR OF OCCURRENCE | | 1956 | 1954 | 2012 | 1972 | 1977 | 1971 | 1954 | 1959 | 1980 | 1978 | 1955 | 1968 | DEC 1968 |
| | NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01 | 30 | 13.1 | 12.1 | 15.3 | 16.6 | 14.2 | 17.2 | 19.4 | 18.3 | 16.3 | 17.2 | 17.6 | 17.5 | 194.8 |
| PRECIPITATION >= 1.00 | 30 | 0.8 | 0.8 | 1.2 | 0.3 | 0.3 | 0.2 | 0.1 | 0.3 | 0.2 | 0.8 | 1.1 | 1.1 | 7.2 | |
| SNOWFALL | NORMAL (IN) | 30 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | MAXIMUM MONTHLY (IN) | 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | YEAR OF OCCURRENCE | | | | | | | | | | | | | | |
| | MAXIMUM IN 24 HOURS (IN) | 48 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | YEAR OF OCCURRENCE | | | | | | | | | | | | | | |
| | MAXIMUM SNOW DEPTH (IN) | 46 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| YEAR OF OCCURRENCE | | | | | | | | | | | | | | | |
| NORMAL NO. DAYS WITH: SNOWFALL >= 1.0 | 30 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |

PRECIPITATION (inches) 2013 LIHUE (PHLI)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|----------------|------|-------|-------|------|------|------|------|------|------|------|-------|-------|--------|
| 1984 | 2.19 | 1.21 | 0.96 | 3.19 | 0.48 | 0.87 | 1.25 | 0.70 | 3.23 | 1.94 | 9.76 | 4.34 | 30.12 |
| 1985 | 2.75 | 7.40 | 2.11 | 1.65 | 1.42 | 0.75 | 0.88 | 1.71 | 3.15 | 3.20 | 3.38 | 0.51 | 28.91 |
| 1986 | 0.30 | 1.02 | 2.02 | 1.95 | 2.59 | 1.85 | 3.20 | 2.97 | 2.85 | 1.98 | 5.98 | 1.28 | 27.99 |
| 1987 | 1.35 | 2.79 | 2.13 | 3.57 | 1.85 | 1.43 | 2.23 | 1.58 | 4.41 | 4.31 | 2.81 | 14.49 | 42.95 |
| 1988 | 9.81 | 1.46 | 2.63 | 1.60 | 3.79 | 0.53 | 1.95 | 3.28 | 1.09 | 1.88 | 8.18 | 6.86 | 43.06 |
| 1989 | 7.09 | 11.35 | 8.62 | 2.12 | 1.28 | 2.14 | 6.90 | 2.56 | 1.42 | 5.24 | 5.08 | 2.97 | 56.77 |
| 1990 | 9.75 | 1.75 | 2.94 | 2.94 | 2.30 | 0.48 | 1.51 | 1.27 | 2.00 | 1.12 | 9.97 | 3.34 | 39.37 |
| 1991 | 0.68 | 1.68 | 9.78 | 3.36 | 0.73 | 4.83 | 1.81 | 2.44 | 1.24 | 4.67 | 3.37 | 7.04 | 41.63 |
| 1992 | 1.13 | 3.23 | 4.26 | 0.32 | 2.58 | 1.05 | 1.68 | 2.44 | 3.13 | 5.86 | 2.29 | 22.20 | 50.17 |
| 1993 | 0.75 | 0.46 | 0.32 | 2.00 | 2.62 | 0.60 | 1.73 | 1.75 | 1.77 | 4.81 | 2.69 | 2.77 | 22.27 |
| 1994 | 3.99 | 6.73 | 3.33 | 1.48 | 1.46 | 3.03 | 1.35 | 0.92 | 3.02 | 5.41 | 1.18 | 1.09 | 32.99 |
| 1995 | 0.89 | 6.39 | 1.28 | 3.73 | 0.87 | 1.15 | 1.64 | 2.20 | 2.09 | 3.39 | 16.15 | 6.79 | 46.57 |
| 1996 | 5.14 | 4.16 | 3.90 | 1.25 | 1.51 | 4.38 | 1.82 | .93 | 7.85 | 7.24 | 12.24 | 5.72 | 56.14 |
| 1997 | 5.62 | 2.02 | 8.78 | 3.52 | 9.95 | 1.20 | 2.54 | 3.05 | 2.79 | 3.61 | 2.60 | 2.34 | 48.02 |
| 1998 | 5.56 | 0.64 | 1.50 | 1.93 | 1.42 | 1.90 | 1.47 | 5.69 | 1.31 | 0.98 | 1.92 | 2.15 | 26.47 |
| 1999 | 4.41 | 1.12 | 1.25 | 3.12 | 4.38 | 1.44 | 2.70 | 1.78 | 1.91 | 4.82 | 2.35 | 3.91 | 33.19 |
| 2000 | 2.27 | 0.33 | 0.97 | 3.32 | 0.10 | 1.12 | 1.50 | 0.46 | 4.33 | 1.02 | 1.35 | 1.19 | 17.96 |
| 2001 | 0.83 | 3.92 | 2.85 | 2.07 | 0.90 | 4.03 | 1.08 | 1.86 | 1.19 | 2.37 | 6.65 | 1.50 | 29.25 |
| 2002 | 5.26 | 0.94 | 7.86 | 1.40 | 3.98 | 1.43 | 1.37 | 2.52 | 0.81 | 2.77 | 2.50 | 1.08 | 31.92 |
| 2003 | 2.10 | 4.42 | 7.07 | 1.76 | 2.35 | 1.40 | 1.71 | 0.86 | 2.53 | 3.83 | 4.74 | 3.01 | 35.78 |
| 2004 | 6.73 | 5.36 | 2.55 | 1.73 | 1.07 | 2.72 | 1.54 | 4.41 | 2.72 | 6.99 | 4.80 | 9.29 | 49.91 |
| 2005 | 9.54 | 5.83 | 1.11 | 1.41 | 1.73 | 1.36 | 0.75 | 0.63 | 2.56 | 1.18 | 1.43 | 0.08 | 27.61 |
| 2006 | 1.88 | 8.64 | 36.13 | 1.31 | 1.32 | 0.77 | 3.76 | 4.24 | 1.70 | 3.71 | 2.98 | 0.59 | 67.03 |
| 2007 | 1.69 | 1.50 | 5.82 | 0.72 | 0.60 | 0.32 | 0.95 | 0.44 | 0.44 | 0.39 | 6.14 | 5.36 | 24.37 |
| 2008 | 1.19 | 1.34 | 0.19 | 1.80 | 1.25 | 1.68 | 1.04 | 1.20 | 1.65 | 3.15 | 6.12 | 19.46 | 40.07 |
| 2009 | 2.24 | 1.23 | 2.08 | 2.56 | 0.29 | 0.58 | 4.40 | 3.24 | 0.90 | 2.81 | 5.55 | 0.75 | 26.63 |
| 2010 | 1.10 | 0.90 | 1.76 | 1.32 | 2.21 | 1.11 | 1.12 | 1.32 | 1.33 | 0.83 | 1.61 | 11.33 | 25.94 |
| 2011 | 4.11 | 6.56 | 6.73 | 2.11 | 9.79 | 1.98 | 1.47 | 1.15 | 0.79 | 1.08 | 4.99 | 1.91 | 42.67 |
| 2012 | 4.15 | 9.03 | 18.17 | 0.37 | 0.98 | 0.45 | 0.91 | 1.00 | 0.75 | 0.35 | 0.58 | 4.38 | 41.12 |
| 2013 | 5.88 | 1.00 | 4.29 | 3.12 | 0.58 | 0.70 | 0.96 | 0.75 | 2.36 | 7.99 | 4.24 | 5.28 | 37.15 |
| POR= 63 YRS | 5.01 | 3.61 | 4.87 | 2.75 | 2.60 | 1.59 | 1.99 | 1.96 | 2.23 | 4.08 | 5.04 | 5.26 | 40.99 |

WBAN : 22536

AVERAGE TEMPERATURE (°F) 2013 LIHUE (PHLI)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1984 | 73.8 | 73.7 | 75.2 | 76.4 | 78.2 | 79.3 | 80.1 | 80.5 | 80.0 | 79.0 | 77.5 | 73.7 | 77.3 |
| 1985 | 70.7 | 72.8 | 73.5 | 72.9 | 74.8 | 77.7 | 79.9 | 79.9 | 78.9 | 77.4 | 73.5 | 72.0 | 75.3 |
| 1986 | 71.1 | 71.3 | 73.3 | 75.4 | 76.3 | 77.8 | 79.5 | 80.2 | 80.1 | 78.7 | 76.2 | 73.0 | 76.1 |
| 1987 | 71.6 | 69.4 | 71.3 | 72.5 | 72.0 | 76.8 | 78.9 | 80.6 | 79.3 | 78.3 | 76.4 | 74.5 | 75.1 |
| 1988 | 71.7 | 73.8 | 73.6 | 75.4 | 76.4 | 78.9 | 78.7 | 79.2 | 79.9 | 77.1 | 77.2 | 74.2 | 76.3 |
| 1989 | 73.1 | 71.7 | 73.2 | 72.2 | 75.1 | 77.8 | 78.2 | 78.4 | 79.0 | 76.7 | 74.5 | 71.0 | 75.1 |
| 1990 | 72.5 | 69.8 | 71.4 | 73.5 | 74.4 | 77.6 | 78.5 | 80.0 | 80.0 | 79.2 | 74.9 | 72.1 | 75.3 |
| 1991 | 71.1 | 72.3 | 71.3 | 73.7 | 75.6 | 76.2 | 78.3 | 79.0 | 78.5 | 78.0 | 76.7 | 73.9 | 75.4 |
| 1992 | 70.4 | 70.1 | 72.5 | 72.5 | 74.7 | 78.6 | 79.3 | 80.0 | 79.7 | 77.5 | 74.9 | 74.5 | 75.4 |
| 1993 | 69.4 | 70.5 | 72.5 | 75.6 | 75.5 | 78.5 | 78.9 | 79.9 | 79.8 | 77.7 | 75.2 | 73.9 | 75.6 |
| 1994 | 70.2 | 72.5 | 71.6 | 74.0 | 76.2 | 77.2 | 79.5 | 81.2 | 80.8 | 79.1 | 78.0 | 74.0 | 76.2 |
| 1995 | 72.8 | 71.6 | 73.3 | 73.6 | 75.4 | 78.4 | 80.0 | 79.6 | 79.3 | 79.3 | 76.8 | 75.4 | 76.3 |
| 1996 | 72.5 | 70.1 | 70.6 | 75.2 | 75.9 | 78.6 | 80.1 | 80.5 | 79.8 | 78.8 | 76.0 | 71.9 | 75.8 |
| 1997 | 70.2 | 73.8 | 73.5 | 72.4 | 73.3 | 79.0 | 79.2 | 79.9 | 80.2 | 78.8 | 74.4 | 71.3 | 75.5 |
| 1998 | 69.1 | 69.9 | 71.8 | 73.0 | 74.0 | 76.1 | 76.8 | 77.3 | 78.1 | 77.1 | 75.7 | 72.3 | 74.3 |
| 1999 | 71.2 | 71.1 | 72.6 | 73.5 | 75.5 | 76.9 | 77.4 | 78.2 | 78.5 | 77.2 | 75.2 | 73.1 | 75.0 |
| 2000 | 71.1 | 72.2 | 73.9 | 72.7 | 76.7 | 78.4 | 79.5 | 79.7 | 79.2 | 79.1 | 77.4 | 74.4 | 76.2 |
| 2001 | 75.2 | 72.1 | 73.8 | 75.6 | 76.6 | 77.6 | 79.5 | 79.4 | 80.2 | 77.9 | 75.7 | 74.2 | 76.5 |
| 2002 | 72.3 | 71.5 | 71.7 | 74.4 | 76.7 | 79.3 | 79.4 | 79.7 | 79.5 | 78.5 | 74.9 | 73.5 | 76.0 |
| 2003 | 69.9 | 71.4 | 73.5 | 75.4 | 77.4 | 78.9 | 79.2 | 80.0 | 78.7 | 77.9 | 76.2 | 73.2 | 76.0 |
| 2004 | 71.8 | 73.4 | 72.2 | 73.8 | 76.6 | 78.4 | 80.1 | 79.8 | 80.3 | 78.5 | 75.3 | 73.1 | 76.1 |
| 2005 | 71.5 | 72.5 | 71.1 | 75.4 | 78.0 | 79.4 | 80.1 | 80.0 | 80.7 | 78.6 | 76.0 | 74.1 | 76.5 |
| 2006 | 76.1 | 72.2 | 72.9 | 73.9 | 75.2 | 78.3 | 79.1 | 78.6 | 78.8 | 77.3 | 76.4 | 74.1 | 76.1 |
| 2007 | 74.4 | 72.0 | 73.7 | 74.6 | 77.1 | 79.1 | 79.6 | 80.9 | 80.3 | 79.0 | 76.2 | 74.8 | 76.8 |
| 2008 | 71.4 | 73.0 | 75.3 | 74.3 | 76.4 | 77.6 | 79.3 | 80.8 | 78.5 | 77.7 | 74.2 | 72.5 | 75.9 |
| 2009 | 70.3 | 69.7 | 69.6 | 70.1 | 74.3 | 78.5 | 79.1 | 78.7 | 79.0 | 78.6 | 75.6 | 71.3 | 74.6 |
| 2010 | 71.6 | 69.9 | 72.2 | 73.6 | 76.8 | 77.8 | 78.5 | 78.8 | 78.7 | 79.3 | 74.8 | 73.5 | 75.5 |
| 2011 | 71.8 | 71.7 | 75.3 | 76.2 | 76.1 | 77.0 | 79.7 | 80.2 | 79.8 | 78.4 | 74.9 | 74.2 | 76.3 |
| 2012 | 73.5 | 72.7 | 72.8 | 74.9 | 76.2 | 77.7 | 77.7 | 79.1 | 78.7 | 78.5 | 76.6 | 74.4 | 76.1 |
| 2013 | 70.9 | 72.1 | 69.7 | 72.9 | 75.1 | 77.5 | 77.0 | 79.2 | 80.1 | 77.3 | 74.4 | 74.0 | 75.0 |
| POR= 63 YRS | 71.6 | 71.5 | 72.4 | 73.7 | 75.6 | 77.7 | 78.7 | 79.4 | 79.2 | 77.7 | 75.6 | 73.1 | 75.5 |

HEATING DEGREE DAYS (base 65°F) 2013 LIHUE (PHLI)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1984-85 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 4 |
| 1985-86 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1986-87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1987-88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988-89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989-90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990-91 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991-92 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992-93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993-94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994-95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995-96 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 1996-97 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1997-98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 1998-99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999-00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001-02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002-03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003-04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004-05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2005-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007-08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008-09 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| 2009-10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010-11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011-12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2012-13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 0 | 25 |
| 2013- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

WBAN : 22536

COOLING DEGREE DAYS (base 65°F) 2013 LIHUE (PHLI)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1984 | 281 | 260 | 325 | 347 | 412 | 434 | 476 | 487 | 459 | 444 | 380 | 277 | 4582 |
| 1985 | 186 | 224 | 272 | 243 | 309 | 387 | 469 | 472 | 425 | 392 | 260 | 225 | 3864 |
| 1986 | 198 | 183 | 264 | 321 | 358 | 390 | 458 | 477 | 459 | 430 | 344 | 254 | 4136 |
| 1987 | 213 | 130 | 203 | 234 | 226 | 360 | 438 | 490 | 435 | 420 | 349 | 301 | 3799 |
| 1988 | 217 | 263 | 275 | 317 | 363 | 422 | 431 | 450 | 452 | 384 | 375 | 294 | 4243 |
| 1989 | 256 | 193 | 261 | 222 | 321 | 389 | 415 | 426 | 425 | 368 | 293 | 189 | 3758 |
| 1990 | 240 | 142 | 203 | 262 | 298 | 386 | 425 | 473 | 453 | 446 | 305 | 225 | 3858 |
| 1991 | 194 | 210 | 205 | 268 | 334 | 343 | 421 | 445 | 412 | 411 | 356 | 281 | 3880 |
| 1992 | 173 | 153 | 240 | 230 | 306 | 417 | 449 | 471 | 447 | 396 | 304 | 302 | 3888 |
| 1993 | 144 | 160 | 243 | 323 | 330 | 409 | 439 | 469 | 452 | 401 | 314 | 281 | 3965 |
| 1994 | 169 | 216 | 211 | 277 | 353 | 376 | 458 | 509 | 482 | 445 | 397 | 288 | 4181 |
| 1995 | 247 | 192 | 261 | 264 | 327 | 410 | 472 | 459 | 438 | 450 | 360 | 332 | 4212 |
| 1996 | 240 | 157 | 180 | 314 | 346 | 413 | 475 | 487 | 449 | 435 | 337 | 221 | 4054 |
| 1997 | 171 | 254 | 267 | 228 | 265 | 424 | 448 | 470 | 463 | 435 | 289 | 201 | 3915 |
| 1998 | 133 | 145 | 220 | 244 | 286 | 338 | 374 | 388 | 398 | 385 | 328 | 235 | 3474 |
| 1999 | 197 | 178 | 246 | 261 | 333 | 364 | 391 | 417 | 413 | 385 | 313 | 258 | 3756 |
| 2000 | 195 | 214 | 282 | 240 | 372 | 409 | 456 | 461 | 434 | 446 | 377 | 297 | 4183 |
| 2001 | 321 | 204 | 280 | 324 | 366 | 383 | 459 | 455 | 463 | 411 | 329 | 290 | 4285 |
| 2002 | 235 | 187 | 216 | 290 | 367 | 436 | 456 | 463 | 440 | 423 | 304 | 271 | 4088 |
| 2003 | 159 | 185 | 267 | 318 | 393 | 422 | 449 | 472 | 420 | 409 | 340 | 262 | 4096 |
| 2004 | 215 | 249 | 228 | 267 | 370 | 409 | 478 | 463 | 464 | 425 | 316 | 257 | 4141 |
| 2005 | 207 | 215 | 198 | 319 | 411 | 440 | 475 | 473 | 478 | 431 | 338 | 291 | 4276 |
| 2006 | 354 | 206 | 251 | 275 | 323 | 407 | 443 | 429 | 423 | 389 | 350 | 289 | 4139 |
| 2007 | 296 | 201 | 277 | 294 | 383 | 430 | 460 | 501 | 467 | 441 | 343 | 313 | 4406 |
| 2008 | 206 | 241 | 329 | 283 | 360 | 383 | 450 | 495 | 414 | 401 | 279 | 244 | 4085 |
| 2009 | 170 | 139 | 150 | 159 | 296 | 408 | 445 | 433 | 428 | 428 | 324 | 201 | 3581 |
| 2010 | 211 | 143 | 230 | 266 | 372 | 391 | 424 | 432 | 418 | 452 | 302 | 270 | 3911 |
| 2011 | 218 | 193 | 328 | 343 | 354 | 366 | 462 | 479 | 453 | 422 | 304 | 291 | 4213 |
| 2012 | 270 | 230 | 249 | 305 | 352 | 390 | 402 | 445 | 420 | 424 | 354 | 297 | 4138 |
| 2013 | 193 | 202 | 153 | 236 | 320 | 382 | 381 | 451 | 460 | 390 | 290 | 285 | 3743 |

SNOWFALL (inches) 2013 LIHUE (PHLI)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1976-77 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1977-78 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1978-79 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1979-80 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1980-81 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1981-82 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1982-83 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1983-84 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1984-85 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1985-86 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1986-87 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1987-88 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1988-89 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1989-90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1990-91 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1991-92 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1992-93 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1993-94 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1994-95 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1995-96 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1996-97 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1997-98 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | |
| 1998-99 | | | | | | | | | | | | | |
| 1999-00 | | | | | | | | | | | | | |
| 2000-01 | | | | | | | | | | | | | |
| 2001-02 | | | | | | | | | | | | | |
| 2002-03 | | | | | | | | | | | | | |
| 2003-04 | | | | | | | | | | | | | |
| 2004-05 | | | | | | | | | | | | | |
| 2005- | | | | | | | | | | | | | |
| POR= 55 YRS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

WBAN : 22536

REFERENCE NOTES :

| | |
|---|---|
| <p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.</p> <p>GENERAL CONTINUED: WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN</p> | <p>PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65 F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY. ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED STATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS: http://www.ncdc.noaa.gov/homr/ SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p>NOTE: The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p> |
|---|---|

2013 LIHUE HAWAII (PHLI)

Lihue Airport, a little more than 100 feet above sea level, is located near the eastern shore of the island of Kauai. The island is 33 miles long and 25 miles wide and has an area of 555 square miles. The eastern one third of Kauai consists of broadly eroded valley lands, the western two thirds is mostly mountainous. Kawaikini, the highest elevation on the island, 5,170 feet above sea level, lies near the center of Kauai and is 20 miles northwest of the airport.

The outstanding features of the climate are the equable temperatures from day to day and season to season, the persistent northeasterly trade winds and the marked variation in rainfall from the wet to the dry season and place to place.

The equable temperatures are associated with the mid-ocean location of the island and to the small seasonal variation in the amount of energy received from the sun. The range in normal temperature from the coolest month, February, to the warmest month, August, less than 8 degrees. The daily range in temperature is also small, less than 15 degrees.

The trade winds blow across the island during most of each year and the dominance of these winds has a marked influence on the climate of the area. Completely cloudless skies are quite rare. On the average, six tenths to seven tenths of the sky is covered by clouds during the daylight hours.

Trade-wind showers are relatively common. Although heavy at times, most of the showers are light and of short duration. The frequency and intensity of the showers increase toward the mountains to the west. Mt. Waialeale receives 486 inches annually, the highest recorded annual average in the world. Mt. Waialeale has recorded annual rainfalls over 620 inches.

Normal annual rainfall is over 40 inches. Three-fourths of this total, on the average, falls during the seven-month wet season which extends from October through April. Widespread rainstorms, which account for much of the precipitation, occur most frequently during this period. Normal precipitation in January, the wettest month, is over 6 inches.

The dry season includes the months of May through September. June, the driest month, receives only about 1 1/2 inches of rain, on the average.

Hurricanes and other severe windstorms are quite rare. Strong winds do occur at times in connection with storm systems moving through the area, but seldom cause extensive damage.

Relative humidity, moderate to high in all seasons, is slightly higher in the wet season than in the dry. However, even during periods when the temperature and humidity are both high, the weather is seldom oppressive. This is due to the trade winds which provide a system of natural ventilation during most of each year.

Station History

LIHUE, HI

| NAME | Begin Date | End Date | Latitude | Longitude | Elevation Feet | Relocation | Platform |
|---------------------|------------|------------|----------|-----------|----------------|------------|---------------|
| LIHUE WSO AP 1020.1 | 1997-12-01 | 1999-01-20 | 21° 58' | -159° 20' | 103 | | ASOS, COOP |
| LIHUE WSO AP 1020.1 | 1981-12-31 | 1997-12-01 | 21° 58' | -159° 21' | 103 | | COOP |
| LIHUE WSO AP 1020.1 | 1974-12-01 | 1981-12-31 | 21° 58' | -159° 21' | 103 | | COOP, WXSVC |
| LIHUE WSO AP 1020.1 | 1999-01-20 | Present | 21° 59' | -159° 20' | 100 | | ASOS, COOP |
| LIHUE WB AP 1020.1 | 1950-01-01 | 1973-01-01 | 21° 58' | -159° 21' | 103 | | AIRWAYS, COOP |
| LIHUE WB AP 1020.1 | 1973-01-01 | 1974-12-01 | 21° 58' | -159° 21' | 103 | | COOP, WXSVC |

Element History

| Element | Begin Date | End Date | Frequency | Time Of Observation | Equipment * | Equipment * Modifications | Equipment Exposure |
|---------|------------|------------|-----------|---------------------|-------------|---------------------------|--------------------|
| EVAP | 1982-01-01 | 1999-01-20 | DAILY | 0700 | | | |
| PRECIP | 1999-01-20 | Present | HOURLY | 2400 | TB | RCRD | |
| TEMP | 1999-01-20 | Present | DAILY | 2400 | HYGR | | |
| EVAP | 1950-01-01 | 1982-01-01 | DAILY | 0700 | | | |
| PRECIP | 1982-01-01 | 1999-01-20 | HOURLY | 2400 | UNIV | RCRD | |
| PRECIP | 1999-01-20 | Present | DAILY | 2400 | TB | RCRD | |
| PRECIP | 1950-01-01 | 1982-01-01 | DAILY | 2400 | UNIV | RCRD | |
| TEMP | 1950-01-01 | 1982-01-01 | DAILY | 2400 | | | |
| PRECIP | 1982-01-01 | 1999-01-20 | DAILY | 2400 | UNIV | RCRD | |
| TEMP | 1982-01-01 | 1999-01-20 | DAILY | 2400 | | | |
| EVAP | 1999-01-20 | Present | DAILY | 2400 | GALVAN(F) | | |

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

Other Station Information can be found at:

ASOS Implementation by NWS: <http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm>

Station Metadata website: <http://www.ncdc.noaa.gov/homr>

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2

Fax Number : (828) 271-4876

TDD : (828) 271-4010

Email : ncdc.orders@noaa.gov

NOAA/National Climatic Data Center

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

Visit our Web Site for other weather data: www.ncdc.noaa.gov