

| Temperature (°F) | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-----------|-----------|------|-----------------------|-----------------------|-----------------------|---------------------|------|-----|-------|-------|-------|---------------------|-------|-------|------|---------------------|-----------|-----------|-----------|-----------|----------|
| Mean | | | | | | | Cooling Degree Days | | | | | | Heating Degree Days | | | | Mean Number of Days | | | | | |
| | | | | | | | Base (above) | | | | | | Base (above) | | | | | | | | | |
| Month | Daily Max | Daily Min | Mean | Long Term Max Std Dev | Long Term Min Std Dev | Long Term Avg Std Dev | 55 | 57 | 60 | 65 | 70 | 72 | 55 | 57 | 60 | 65 | Max >= 100 | Max >= 90 | Max >= 50 | Max <= 32 | Min <= 32 | Min <= 0 |
| 01 | 68.1 | 49.4 | 58.8 | 1.6 | 1.6 | 0.9 | 119 | 65 | 14 | -7777 | 0 | 0 | 3 | 11 | 53 | 194 | 0.0 | 0.0 | 31.0 | 0.0 | 0.0 | 0.0 |
| 02 | 68.0 | 49.1 | 58.6 | 2.3 | 1.5 | 1.2 | 104 | 58 | 14 | -7777 | 0 | 0 | 5 | 15 | 55 | 181 | 0.0 | 0.0 | 28.0 | 0.0 | 0.0 | 0.0 |
| 03 | 68.0 | 50.2 | 59.1 | 2.5 | 1.7 | 1.4 | 130 | 75 | 20 | -7777 | 0 | 0 | 3 | 10 | 48 | 183 | 0.0 | 0.0 | 31.0 | 0.0 | 0.0 | 0.0 |
| 04 | 68.0 | 51.4 | 59.7 | 1.6 | 1.1 | 1.1 | 142 | 87 | 25 | 1 | -7777 | 0 | 1 | 6 | 34 | 160 | 0.0 | 0.0 | 30.0 | 0.0 | 0.0 | 0.0 |
| 05 | 70.5 | 52.8 | 61.6 | 2.0 | 1.4 | 1.4 | 206 | 146 | 63 | 3 | -7777 | 0 | -7777 | 1 | 12 | 107 | 0.0 | 0.0 | 31.0 | 0.0 | 0.0 | 0.0 |
| 06 | 71.4 | 54.1 | 62.7 | 1.2 | 1.2 | 0.7 | 233 | 173 | 85 | 3 | 0 | 0 | -7777 | -7777 | 3 | 71 | 0.0 | 0.0 | 30.0 | 0.0 | 0.0 | 0.0 |
| 07 | 72.3 | 55.4 | 63.9 | 0.9 | 1.2 | 0.8 | 274 | 212 | 120 | 12 | -7777 | 0 | 0 | -7777 | 1 | 47 | 0.0 | 0.0 | 31.0 | 0.0 | 0.0 | 0.0 |
| 08 | 73.4 | 55.8 | 64.6 | 1.0 | 1.1 | 0.8 | 298 | 236 | 143 | 20 | -7777 | -7777 | 0 | 0 | -7777 | 33 | 0.0 | 0.0 | 31.0 | 0.0 | 0.0 | 0.0 |
| 09 | 73.1 | 55.3 | 64.2 | 1.3 | 1.3 | 1.0 | 276 | 216 | 126 | 14 | -7777 | -7777 | 0 | 0 | -7777 | 38 | 0.0 | 0.0 | 30.0 | 0.0 | 0.0 | 0.0 |
| 10 | 72.4 | 54.9 | 63.7 | 1.5 | 1.1 | 1.0 | 268 | 206 | 115 | 12 | -7777 | 0 | -7777 | -7777 | 2 | 54 | 0.0 | 0.0 | 31.0 | 0.0 | 0.0 | 0.0 |
| 11 | 70.2 | 53.9 | 62.0 | 1.7 | 1.4 | 0.9 | 212 | 153 | 71 | 4 | -7777 | 0 | -7777 | 1 | 9 | 93 | 0.0 | 0.0 | 30.0 | 0.0 | 0.0 | 0.0 |
| 12 | 68.3 | 51.3 | 59.8 | 2.0 | 1.1 | 1.0 | 150 | 93 | 29 | 1 | -7777 | 0 | 1 | 6 | 35 | 162 | 0.0 | 0.0 | 31.0 | 0.0 | 0.0 | 0.0 |
| Summary | 70.3 | 52.8 | 61.6 | 1.6 | 1.3 | 1.0 | 2412 | 1720 | 825 | 70 | 0 | 0 | 13 | 50 | 252 | 1323 | 0.0 | 0.0 | 365.0 | 0.0 | 0.0 | 0.0 |

-7777: a non-zero value that would round to zero

Empty or blank cells indicate data is missing or insufficient occurrences to compute value

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Current Location: Elev: 3971 ft. Lat: 19.4297° N Lon: -155.2562° W
Station: HAWAII VOL. NATIONAL PARK HQ. 54, HI US USC00511303

Summary of Monthly Normals
1981-2010
Generated on 02/28/2018

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

| Precipitation (in.) | | | | | | | | |
|---------------------|--------|---------------------|---------|---------|---------|--|-------|--------|
| | Totals | Mean Number of Days | | | | Precipitation Probabilities Probability that precipitation will be equal to or less than the indicated amount | | |
| | Means | Daily Precipitation | | | | Monthly Precipitation vs. Probability Levels | | |
| Month | Mean | >= 0.01 | >= 0.10 | >= 0.50 | >= 1.00 | 0.25 | 0.50 | 0.75 |
| 01 | 9.31 | 21.8 | 11.4 | 4.6 | 2.5 | 2.18 | 6.03 | 14.16 |
| 02 | 8.78 | 18.8 | 8.8 | 3.9 | 2.2 | 1.73 | 7.15 | 13.24 |
| 03 | 11.26 | 24.0 | 15.0 | 5.4 | 2.9 | 4.88 | 7.10 | 14.28 |
| 04 | 9.48 | 26.4 | 17.6 | 5.9 | 2.3 | 6.16 | 8.14 | 10.74 |
| 05 | 6.41 | 25.5 | 14.9 | 3.2 | 0.9 | 3.85 | 5.28 | 8.00 |
| 06 | 5.11 | 24.3 | 13.6 | 2.4 | 0.6 | 2.94 | 4.61 | 6.42 |
| 07 | 7.42 | 25.8 | 14.3 | 3.8 | 1.3 | 4.02 | 6.23 | 7.85 |
| 08 | 6.72 | 25.3 | 12.6 | 3.2 | 1.4 | 4.75 | 6.24 | 8.57 |
| 09 | 6.22 | 23.9 | 12.4 | 3.3 | 1.3 | 3.69 | 5.83 | 7.72 |
| 10 | 7.30 | 24.9 | 14.3 | 4.4 | 1.4 | 5.00 | 6.46 | 9.05 |
| 11 | 12.60 | 25.4 | 15.1 | 6.4 | 3.3 | 6.59 | 9.22 | 15.24 |
| 12 | 12.05 | 24.0 | 14.0 | 5.8 | 3.3 | 5.26 | 9.56 | 17.11 |
| Summary | 102.66 | 290.1 | 164.0 | 52.3 | 23.4 | 51.05 | 81.85 | 132.38 |

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Summary of Monthly Normals
1981-2010
Generated on 02/28/2018

| Snow (in.) | | | | | | | | | | | | | |
|------------|------------------|------------------------|-----|-----|------|-------|--------------------------|-----|-----|-----|---|-----|-----|
| | Totals | Mean Number of Days | | | | | | | | | Snow Probabilities Probability that snow will be equal to or less than the indicated amount | | |
| | Means | Snowfall >= Thresholds | | | | | Snow Depth >= Thresholds | | | | Monthly Snow vs. Probability Levels Values derived from the incomplete gamma distribution. | | |
| Month | Snowfall Mean | 0.01 | 1.0 | 3.0 | 5.00 | 10.00 | 1 | 3 | 5 | 10 | .25 | .50 | .75 |
| 01 | 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 |
| 02 | 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 |
| 03 | 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 |
| 04 | 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 |
| 05 | 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 |
| 06 | 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 |
| 07 | 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 |
| 08 | 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 |
| 09 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| Summary | 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 |

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National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Current Location: Elev: 3971 ft. Lat: 19.4297° N Lon: -155.2562° W
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Summary of Monthly Normals
1981-2010
Generated on 02/28/2018

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

| Growing Degree Units (Monthly) | | | | | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Base | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| 40 | 581 | 519 | 592 | 591 | 671 | 682 | 740 | 763 | 726 | 733 | 661 | 614 |
| 45 | 426 | 379 | 437 | 441 | 516 | 532 | 584 | 608 | 576 | 578 | 511 | 459 |
| 50 | 271 | 239 | 282 | 291 | 361 | 382 | 429 | 453 | 426 | 423 | 361 | 304 |
| 55 | 119 | 104 | 130 | 142 | 206 | 233 | 274 | 298 | 276 | 268 | 212 | 150 |
| 60 | 14 | 14 | 20 | 25 | 63 | 85 | 120 | 143 | 126 | 115 | 71 | 29 |
| Growing Degree Units for Corn (Monthly) | | | | | | | | | | | | |
| 50/86 | 300 | 267 | 300 | 300 | 365 | 384 | 430 | 453 | 426 | 424 | 364 | 318 |

| Growing Degree Units (Accumulated Monthly) | | | | | | | | | | | | |
|---|-----|------|------|------|------|------|------|------|------|------|------|------|
| Base | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| 40 | 581 | 1100 | 1692 | 2283 | 2954 | 3636 | 4376 | 5139 | 5865 | 6598 | 7259 | 7873 |
| 45 | 426 | 805 | 1242 | 1683 | 2199 | 2731 | 3315 | 3923 | 4499 | 5077 | 5588 | 6047 |
| 50 | 271 | 510 | 792 | 1083 | 1444 | 1826 | 2255 | 2708 | 3134 | 3557 | 3918 | 4222 |
| 55 | 119 | 223 | 353 | 495 | 701 | 934 | 1208 | 1506 | 1782 | 2050 | 2262 | 2412 |
| 60 | 14 | 28 | 48 | 73 | 136 | 221 | 341 | 484 | 610 | 725 | 796 | 825 |
| Growing Degree Units for Corn (Monthly Accumulated) | | | | | | | | | | | | |
| 50/86 | 300 | 567 | 867 | 1167 | 1532 | 1916 | 2346 | 2799 | 3225 | 3649 | 4013 | 4331 |

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86.
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