

IBIS-PH - Complete Health Indicator Report

 ibis.health.utah.gov/ibisph-view/indicator/complete_profile/MetTem.html

Complete Health Indicator Report of Climate Effects on Health: Temperature

Definition

Temperature measurements over time have been the primary method of assessing the occurrence of climate change, with higher temperatures indicating warmth and lower temperatures indicating coolness.

Numerator

Not Applicable.

Denominator

Not Applicable.

Data Interpretation Issues

Only uses temperature readings from May through September.

Why Is This Important?

Over the past century, global surface temperatures have increased, yet the warming is not consistent across the globe. Areas such as the southeast United States have actually seen cooler temperatures. Yet, when looking at the eight hottest years on record, seven of those years have occurred since 2001 (1). When looking at temperature change in the atmosphere, the troposphere (the level of atmosphere five to eight miles from the Earth's surface) has shown an increase in temperature since the 1970s. Yet the stratosphere (the level of atmosphere 9 to 14 miles from the Earth's surface) has cooled over this period of time (2). Climate experts have also studied whether temperature extremes are affected by climate change. The National Oceanic and Atmospheric Administration stated that differences between maximum temperatures and minimum temperatures, known as the diurnal temperature range, have been diminishing for most of the planet since the mid-20th century. Minimum temperatures have increased more quickly than maximum temperatures, resulting in fewer extreme cold days and nights and a higher occurrence of extreme warm days and nights (1).

Graphical Data Views

Year	County	Heat Index
2001	Beaver	86
2001	Cache	86
2001	Iron	84
2001	Salt Lake	86
2002	Beaver	87
2002	Cache	85
2002	Iron	85
2002	Salt Lake	87
2003	Beaver	87
2003	Cache	86
2003	Iron	85
2003	Salt Lake	87
2004	Beaver	85
2004	Cache	84
2004	Garfield	80
2004	Iron	83
2004	Salt Lake	85
2004	Tooele	85
2004	Weber	84
2005	Beaver	86
2005	Cache	85
2005	Davis	84
2005	Garfield	82
2005	Iron	83

Year	County	Heat Index
2005	Salt Lake	87
2005	Tooele	87
2005	Wayne	88
2005	Weber	85
2006	Beaver	86
2006	Cache	85
2006	Carbon	84
2006	Davis	85
2006	Garfield	81
2006	Grand	88
2006	Iron	84
2006	Salt Lake	87
2006	Tooele	86
2006	Uintah	84
2006	Utah	84
2006	Wasatch	87
2006	Wayne	89
2006	Weber	85
2007	Beaver	87
2007	Cache	86
2007	Carbon	85
2007	Davis	86
2007	Garfield	81
2007	Grand	89
2007	Iron	85

Year	County	Heat Index
2007	Salt Lake	87
2007	Tooele	88
2007	Uintah	85
2007	Utah	85
2007	Wasatch	86
2007	Wayne	91
2007	Weber	86
2008	Beaver	86
2008	Cache	85
2008	Carbon	84
2008	Davis	84
2008	Garfield	80
2008	Grand	88
2008	Iron	84
2008	Salt Lake	86
2008	Tooele	87
2008	Uintah	84
2008	Utah	84
2008	Wasatch	86
2008	Wayne	89
2008	Weber	85
2009	Beaver	85
2009	Cache	83
2009	Carbon	84
2009	Davis	84

Year	County	Heat Index
2009	Garfield	80
2009	Grand	86
2009	Iron	84
2009	Salt Lake	86
2009	Tooele	86
2009	Uintah	83
2009	Utah	83
2009	Wasatch	83
2009	Wayne	88
2009	Weber	84
2010	Beaver	86
2010	Cache	85
2010	Carbon	84
2010	Davis	85
2010	Garfield	80
2010	Grand	87
2010	Iron	84
2010	Salt Lake	86
2010	Tooele	87
2010	Uintah	83
2010	Utah	83
2010	Wasatch	82
2010	Wayne	89
2010	Weber	85
2011	Beaver	86

Year	County	Heat Index
2011	Cache	84
2011	Carbon	84
2011	Davis	84
2011	Garfield	80
2011	Grand	86
2011	Iron	84
2011	Salt Lake	85
2011	Tooele	86
2011	Uintah	84
2011	Utah	84
2011	Wasatch	86
2011	Wayne	89
2011	Weber	84
2012	Beaver	86
2012	Cache	85
2012	Carbon	84
2012	Davis	85
2012	Garfield	80
2012	Grand	87
2012	Iron	84
2012	Salt Lake	87
2012	Tooele	87
2012	Uintah	84
2012	Utah	84
2012	Wasatch	86

Year	County	Heat Index
2012	Wayne	90
2012	Weber	86
2013	Beaver	86
2013	Cache	86
2013	Davis	85
2013	Garfield	81
2013	Iron	84
2013	Salt Lake	88
2013	Tooele	87
2013	Uintah	84
2013	Utah	84
2013	Wasatch	87
2013	Weber	86
2014	Beaver	86
2014	Box Elder	85
2014	Cache	84
2014	Carbon	83
2014	Davis	84
2014	Garfield	81
2014	Grand	86
2014	Iron	83
2014	Millard	84
2014	Salt Lake	85
2014	San Juan	82
2014	Tooele	85

Year	County	Heat Index
2014	Uintah	83
2014	Utah	83
2014	Wasatch	85
2014	Wayne	87
2014	Weber	85
2015	Beaver	87
2015	Box Elder	86
2015	Cache	84
2015	Carbon	84
2015	Davis	84
2015	Garfield	81
2015	Grand	87
2015	Iron	84
2015	Millard	86
2015	Salt Lake	86
2015	San Juan	83
2015	Tooele	86
2015	Uintah	84
2015	Utah	84
2015	Wasatch	86
2015	Wayne	88
2015	Weber	85
2016	Beaver	87
2016	Box Elder	87
2016	Cache	85

Year	County	Heat Index
2016	Carbon	84
2016	Davis	85
2016	Garfield	80
2016	Grand	88
2016	Iron	85
2016	Millard	87
2016	Salt Lake	88
2016	San Juan	84
2016	Tooele	87
2016	Uintah	85
2016	Utah	85
2016	Wasatch	86
2016	Wayne	88
2016	Weber	86
2017	Beaver	88
2017	Box Elder	87
2017	Cache	86
2017	Carbon	84
2017	Davis	85
2017	Garfield	81
2017	Grand	89
2017	Iron	86
2017	Millard	88
2017	Salt Lake	89
2017	San Juan	85

Year	County	Heat Index
2017	Tooele	88
2017	Uintah	86
2017	Utah	86
2017	Wasatch	87
2017	Wayne	89
2017	Weber	86
2018	Beaver	87
2018	Box Elder	86
2018	Cache	85
2018	Carbon	84
2018	Davis	85
2018	Garfield	81
2018	Grand	87
2018	Iron	85
2018	Millard	88
2018	Salt Lake	86
2018	San Juan	84
2018	Tooele	87
2018	Uintah	85
2018	Utah	85
2018	Wasatch	86
2018	Wayne	89
2018	Weber	85
2019	Beaver	87
2019	Box Elder	86

Year	County	Heat Index
2019	Cache	85
2019	Carbon	84
2019	Davis	85
2019	Garfield	81
2019	Grand	88
2019	Iron	85
2019	Millard	87
2019	Salt Lake	87
2019	San Juan	85
2019	Tooele	87
2019	Uintah	85
2019	Utah	85
2019	Wasatch	86
2019	Wayne	85
2019	Weber	85

Data Notes

Heat index formula: https://www.wpc.ncep.noaa.gov/html/heatindex_equation.shtml. Data only includes temperature data during the months of May through September.

Data Source

National Oceanic and Atmospheric Administration (NOAA), National Centers for Environmental Information

Year County	Number of Days Above the Heat Index 95% Percentile	Note
2001 Beaver	6	93 (95% percentile Heat Index)

Year	County	Number of Days Above the Heat Index 95% Percentile	Note
2001	Cache	6	93 (95% percentile Heat Index)
2001	Iron	7	89 (95% percentile Heat Index)
2001	Salt Lake	4	94 (95% percentile Heat Index)
2002	Beaver	5	95 (95% percentile Heat Index)
2002	Cache	5	93 (95% percentile Heat Index)
2002	Iron	3	92 (95% percentile Heat Index)
2002	Salt Lake	3	96 (95% percentile Heat Index)
2003	Beaver	7	95 (95% percentile Heat Index)
2003	Cache	4	95 (95% percentile Heat Index)
2003	Iron	2	94 (95% percentile Heat Index)
2003	Salt Lake	3	96 (95% percentile Heat Index)
2004	Beaver	4	90 (95% percentile Heat Index)
2004	Cache	2	89 (95% percentile Heat Index)
2004	Garfield	2	81 (95% percentile Heat Index)
2004	Iron	5	87 (95% percentile Heat Index)
2004	Salt Lake	3	91 (95% percentile Heat Index)

Year	County	Number of Days Above the Heat Index 95% Percentile	Note
2004	Tooele	5	92 (95% percentile Heat Index)
2004	Weber	5	88 (95% percentile Heat Index)
2005	Beaver	3	95 (95% percentile Heat Index)
2005	Cache	2	92 (95% percentile Heat Index)
2005	Davis	2	92 (95% percentile Heat Index)
2005	Iron	5	91 (95% percentile Heat Index)
2005	Salt Lake	5	96 (95% percentile Heat Index)
2005	Tooele	4	95 (95% percentile Heat Index)
2005	Wayne	7	100 (95% percentile Heat Index)
2005	Weber	4	94 (95% percentile Heat Index)
2006	Beaver	5	94 (95% percentile Heat Index)
2006	Cache	5	93 (95% percentile Heat Index)
2006	Carbon	5	91 (95% percentile Heat Index)
2006	Davis	4	95 (95% percentile Heat Index)
2006	Garfield	2	85 (95% percentile Heat Index)
2006	Grand	4	97 (95% percentile Heat Index)

Year	County	Number of Days Above the Heat Index 95% Percentile	Note
2006	Iron	6	90 (95% percentile Heat Index)
2006	Salt Lake	4	96 (95% percentile Heat Index)
2006	Tooele	6	95 (95% percentile Heat Index)
2006	Uintah	5	91 (95% percentile Heat Index)
2006	Utah	5	91 (95% percentile Heat Index)
2006	Wasatch	4	96 (95% percentile Heat Index)
2006	Wayne	6	99 (95% percentile Heat Index)
2006	Weber	4	94 (95% percentile Heat Index)
2007	Beaver	2	94 (95% percentile Heat Index)
2007	Cache	6	92 (95% percentile Heat Index)
2007	Carbon	5	91 (95% percentile Heat Index)
2007	Davis	3	92 (95% percentile Heat Index)
2007	Garfield	1	84 (95% percentile Heat Index)
2007	Grand	5	96 (95% percentile Heat Index)
2007	Iron	2	92 (95% percentile Heat Index)
2007	Salt Lake	5	95 (95% percentile Heat Index)

Year	County	Number of Days Above the Heat Index 95% Percentile	Note
2007	Tooele	6	95 (95% percentile Heat Index)
2007	Uintah	2	91 (95% percentile Heat Index)
2007	Utah	2	91 (95% percentile Heat Index)
2007	Wasatch	3	95 (95% percentile Heat Index)
2007	Wayne	5	99 (95% percentile Heat Index)
2007	Weber	5	93 (95% percentile Heat Index)
2008	Beaver	6	92 (95% percentile Heat Index)
2008	Cache	3	91 (95% percentile Heat Index)
2008	Carbon	5	88 (95% percentile Heat Index)
2008	Davis	2	90 (95% percentile Heat Index)
2008	Garfield	1	83 (95% percentile Heat Index)
2008	Grand	6	95 (95% percentile Heat Index)
2008	Iron	6	89 (95% percentile Heat Index)
2008	Salt Lake	3	93 (95% percentile Heat Index)
2008	Tooele	2	94 (95% percentile Heat Index)
2008	Uintah	1	90 (95% percentile Heat Index)

Year	County	Number of Days Above the Heat Index 95% Percentile	Note
2008	Utah	1	90 (95% percentile Heat Index)
2008	Wasatch	5	93 (95% percentile Heat Index)
2008	Wayne	7	98 (95% percentile Heat Index)
2008	Weber	5	91 (95% percentile Heat Index)
2009	Beaver	5	92 (95% percentile Heat Index)
2009	Cache	4	90 (95% percentile Heat Index)
2009	Carbon	3	89 (95% percentile Heat Index)
2009	Davis	3	89 (95% percentile Heat Index)
2009	Garfield	2	82 (95% percentile Heat Index)
2009	Grand	5	93 (95% percentile Heat Index)
2009	Iron	5	90 (95% percentile Heat Index)
2009	Salt Lake	2	94 (95% percentile Heat Index)
2009	Tooele	5	94 (95% percentile Heat Index)
2009	Uintah	3	89 (95% percentile Heat Index)
2009	Utah	3	89 (95% percentile Heat Index)
2009	Wasatch	1	89 (95% percentile Heat Index)

Year	County	Number of Days Above the Heat Index 95% Percentile	Note
2009	Wayne	6	97 (95% percentile Heat Index)
2009	Weber	4	91 (95% percentile Heat Index)
2010	Beaver	3	93 (95% percentile Heat Index)
2010	Cache	5	90 (95% percentile Heat Index)
2010	Carbon	4	90 (95% percentile Heat Index)
2010	Davis	3	90 (95% percentile Heat Index)
2010	Garfield	2	83 (95% percentile Heat Index)
2010	Grand	5	94 (95% percentile Heat Index)
2010	Iron	6	90 (95% percentile Heat Index)
2010	Salt Lake	1	93 (95% percentile Heat Index)
2010	Tooele	4	94 (95% percentile Heat Index)
2010	Uintah	3	89 (95% percentile Heat Index)
2010	Utah	3	89 (95% percentile Heat Index)
2010	Wasatch	4	86 (95% percentile Heat Index)
2010	Wayne	6	99 (95% percentile Heat Index)
2010	Weber	3	91 (95% percentile Heat Index)

Year	County	Number of Days Above the Heat Index 95% Percentile	Note
2011	Beaver	4	93 (95% percentile Heat Index)
2011	Cache	5	89 (95% percentile Heat Index)
2011	Carbon	5	88 (95% percentile Heat Index)
2011	Davis	3	90 (95% percentile Heat Index)
2011	Garfield	3	81 (95% percentile Heat Index)
2011	Grand	1	94 (95% percentile Heat Index)
2011	Iron	3	90 (95% percentile Heat Index)
2011	Salt Lake	5	92 (95% percentile Heat Index)
2011	Tooele	4	94 (95% percentile Heat Index)
2011	Uintah	2	89 (95% percentile Heat Index)
2011	Utah	2	89 (95% percentile Heat Index)
2011	Wasatch	4	91 (95% percentile Heat Index)
2011	Wayne	4	98 (95% percentile Heat Index)
2011	Weber	4	90 (95% percentile Heat Index)
2012	Beaver	4	93 (95% percentile Heat Index)
2012	Cache	4	91 (95% percentile Heat Index)

Year	County	Number of Days Above the Heat Index 95% Percentile	Note
2012	Carbon	3	90 (95% percentile Heat Index)
2012	Davis	4	91 (95% percentile Heat Index)
2012	Garfield	3	81 (95% percentile Heat Index)
2012	Grand	5	93 (95% percentile Heat Index)
2012	Iron	5	89 (95% percentile Heat Index)
2012	Salt Lake	5	94 (95% percentile Heat Index)
2012	Tooele	5	94 (95% percentile Heat Index)
2012	Uintah	2	89 (95% percentile Heat Index)
2012	Utah	2	89 (95% percentile Heat Index)
2012	Wasatch	6	92 (95% percentile Heat Index)
2012	Wayne	5	98 (95% percentile Heat Index)
2012	Weber	3	92 (95% percentile Heat Index)
2013	Beaver	5	94 (95% percentile Heat Index)
2013	Cache	5	92 (95% percentile Heat Index)
2013	Davis	5	91 (95% percentile Heat Index)
2013	Garfield	2	85 (95% percentile Heat Index)

Year	County	Number of Days Above the Heat Index 95% Percentile	Note
2013	Iron	5	92 (95% percentile Heat Index)
2013	Salt Lake	6	96 (95% percentile Heat Index)
2013	Tooele	5	95 (95% percentile Heat Index)
2013	Uintah	3	90 (95% percentile Heat Index)
2013	Utah	3	90 (95% percentile Heat Index)
2013	Wasatch	5	94 (95% percentile Heat Index)
2013	Weber	5	93 (95% percentile Heat Index)
2014	Beaver	6	92 (95% percentile Heat Index)
2014	Box Elder	1	90 (95% percentile Heat Index)
2014	Cache	4	91 (95% percentile Heat Index)
2014	Carbon	5	89 (95% percentile Heat Index)
2014	Davis	2	91 (95% percentile Heat Index)
2014	Garfield	2	83 (95% percentile Heat Index)
2014	Grand	7	93 (95% percentile Heat Index)
2014	Iron	4	89 (95% percentile Heat Index)
2014	Millard	1	88 (95% percentile Heat Index)

Year	County	Number of Days Above the Heat Index 95% Percentile	Note
2014	Salt Lake	6	92 (95% percentile Heat Index)
2014	San Juan	3	86 (95% percentile Heat Index)
2014	Tooele	5	94 (95% percentile Heat Index)
2014	Uintah	4	89 (95% percentile Heat Index)
2014	Wasatch	4	93 (95% percentile Heat Index)
2014	Wayne	2	93 (95% percentile Heat Index)
2014	Weber	4	91 (95% percentile Heat Index)
2015	Beaver	6	94 (95% percentile Heat Index)
2015	Box Elder	6	94 (95% percentile Heat Index)
2015	Cache	4	92 (95% percentile Heat Index)
2015	Carbon	5	91 (95% percentile Heat Index)
2015	Davis	4	91 (95% percentile Heat Index)
2015	Garfield	3	84 (95% percentile Heat Index)
2015	Grand	4	95 (95% percentile Heat Index)
2015	Iron	4	89 (95% percentile Heat Index)
2015	Millard	6	93 (95% percentile Heat Index)

Year	County	Number of Days Above the Heat Index 95% Percentile	Note
2015	Salt Lake	5	94 (95% percentile Heat Index)
2015	San Juan	4	88 (95% percentile Heat Index)
2015	Tooele	3	95 (95% percentile Heat Index)
2015	Uintah	5	89 (95% percentile Heat Index)
2015	Utah	5	89 (95% percentile Heat Index)
2015	Wasatch	6	93 (95% percentile Heat Index)
2015	Wayne	6	96 (95% percentile Heat Index)
2015	Weber	3	93 (95% percentile Heat Index)
2016	Beaver	4	94 (95% percentile Heat Index)
2016	Box Elder	3	94 (95% percentile Heat Index)
2016	Cache	5	91 (95% percentile Heat Index)
2016	Carbon	4	90 (95% percentile Heat Index)
2016	Davis	3	91 (95% percentile Heat Index)
2016	Garfield	3	84 (95% percentile Heat Index)
2016	Grand	1	97 (95% percentile Heat Index)
2016	Iron	4	92 (95% percentile Heat Index)

Year	County	Number of Days Above the Heat Index 95% Percentile	Note
2016	Millard	6	93 (95% percentile Heat Index)
2016	Salt Lake	5	95 (95% percentile Heat Index)
2016	San Juan	5	90 (95% percentile Heat Index)
2016	Tooele	2	94 (95% percentile Heat Index)
2016	Uintah	3	91 (95% percentile Heat Index)
2016	Utah	3	91 (95% percentile Heat Index)
2016	Wasatch	6	94 (95% percentile Heat Index)
2016	Wayne	2	97 (95% percentile Heat Index)
2016	Weber	3	92 (95% percentile Heat Index)
2017	Beaver	4	94 (95% percentile Heat Index)
2017	Box Elder	6	94 (95% percentile Heat Index)
2017	Cache	4	93 (95% percentile Heat Index)
2017	Carbon	2	90 (95% percentile Heat Index)
2017	Davis	4	91 (95% percentile Heat Index)
2017	Garfield	3	84 (95% percentile Heat Index)
2017	Grand	3	96 (95% percentile Heat Index)

Year	County	Number of Days Above the Heat Index 95% Percentile	Note
2017	Iron	2	92 (95% percentile Heat Index)
2017	Millard	6	94 (95% percentile Heat Index)
2017	Salt Lake	6	96 (95% percentile Heat Index)
2017	San Juan	6	90 (95% percentile Heat Index)
2017	Tooele	6	94 (95% percentile Heat Index)
2017	Uintah	1	92 (95% percentile Heat Index)
2017	Utah	1	92 (95% percentile Heat Index)
2017	Wasatch	4	94 (95% percentile Heat Index)
2017	Wayne	4	97 (95% percentile Heat Index)
2017	Weber	3	93 (95% percentile Heat Index)
2018	Beaver	5	94 (95% percentile Heat Index)
2018	Box Elder	5	94 (95% percentile Heat Index)
2018	Cache	3	92 (95% percentile Heat Index)
2018	Carbon	5	90 (95% percentile Heat Index)
2018	Davis	4	91 (95% percentile Heat Index)
2018	Garfield	4	83 (95% percentile Heat Index)

Year	County	Number of Days Above the Heat Index 95% Percentile	Note
2018	Grand	4	95 (95% percentile Heat Index)
2018	Iron	6	91 (95% percentile Heat Index)
2018	Millard	7	95 (95% percentile Heat Index)
2018	Salt Lake	4	94 (95% percentile Heat Index)
2018	San Juan	5	90 (95% percentile Heat Index)
2018	Tooele	2	95 (95% percentile Heat Index)
2018	Uintah	7	92 (95% percentile Heat Index)
2018	Utah	7	92 (95% percentile Heat Index)
2018	Wasatch	4	93 (95% percentile Heat Index)
2018	Wayne	8	95 (95% percentile Heat Index)
2018	Weber	4	92 (95% percentile Heat Index)
2019	Beaver	5	93 (95% percentile Heat Index)
2019	Box Elder	2	92 (95% percentile Heat Index)
2019	Cache	1	91 (95% percentile Heat Index)
2019	Carbon	2	89 (95% percentile Heat Index)
2019	Davis	4	90 (95% percentile Heat Index)

Year	County	Number of Days Above the Heat Index 95% Percentile	Note
2019	Garfield	3	82 (95% percentile Heat Index)
2019	Grand	4	94 (95% percentile Heat Index)
2019	Iron	1	90 (95% percentile Heat Index)
2019	Millard	1	93 (95% percentile Heat Index)
2019	Salt Lake	5	95 (95% percentile Heat Index)
2019	San Juan	4	89 (95% percentile Heat Index)
2019	Tooele	2	94 (95% percentile Heat Index)
2019	Uintah	2	90 (95% percentile Heat Index)
2019	Utah	2	90 (95% percentile Heat Index)
2019	Wasatch	3	93 (95% percentile Heat Index)
2019	Wayne	1	94 (95% percentile Heat Index)
2019	Weber	5	90 (95% percentile Heat Index)

Data Notes

Heat index formula: https://www.wpc.ncep.noaa.gov/html/heatindex_equation.shtml. Data only includes temperature data during the months of May through September.

Data Source

National Oceanic and Atmospheric Administration (NOAA), National Centers for Environmental Information

References and Community Resources

Citations: 1. National Oceanic and Atmospheric Administration (2008). National climatic data center: Frequently asked questions. Retrieved March 13, 2012 from the National Oceanic and Atmospheric Administration National Climatic Data Center: www.ncdc.noaa.gov/oa/climate/globalwarming.html. 2. Environmental Protection Agency (2011). Climate change - Health and environmental effects. Retrieved March 7, 2012 from the United States Environmental Protection Agency: www.epa.gov/climatechange/effects/extreme.html.
---- NEW INFO
Heat Index calculator: <https://www.wpc.ncep.noaa.gov/html/heatindex.shtml>
Heat Index table and the four warning categories: <https://www.weather.gov/bgm/heat>

More Resources and Links

Evidence-based community health improvement ideas and interventions may be found at the following sites:

- [The Guide to Community Preventive Services](#)
- [Healthy People Website](#)

Additional indicator data by state and county may be found on these Websites:

- [CDC Prevention Status Reports for all 50 states](#)
- [County Health Rankings](#)
- Kaiser Family Foundation's [StateHealthFacts.org](#)
- CDC WONDER [DATA2010](#), the Healthy People 2010 Database.

Medical literature can be queried at the [PubMed](#) website.

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