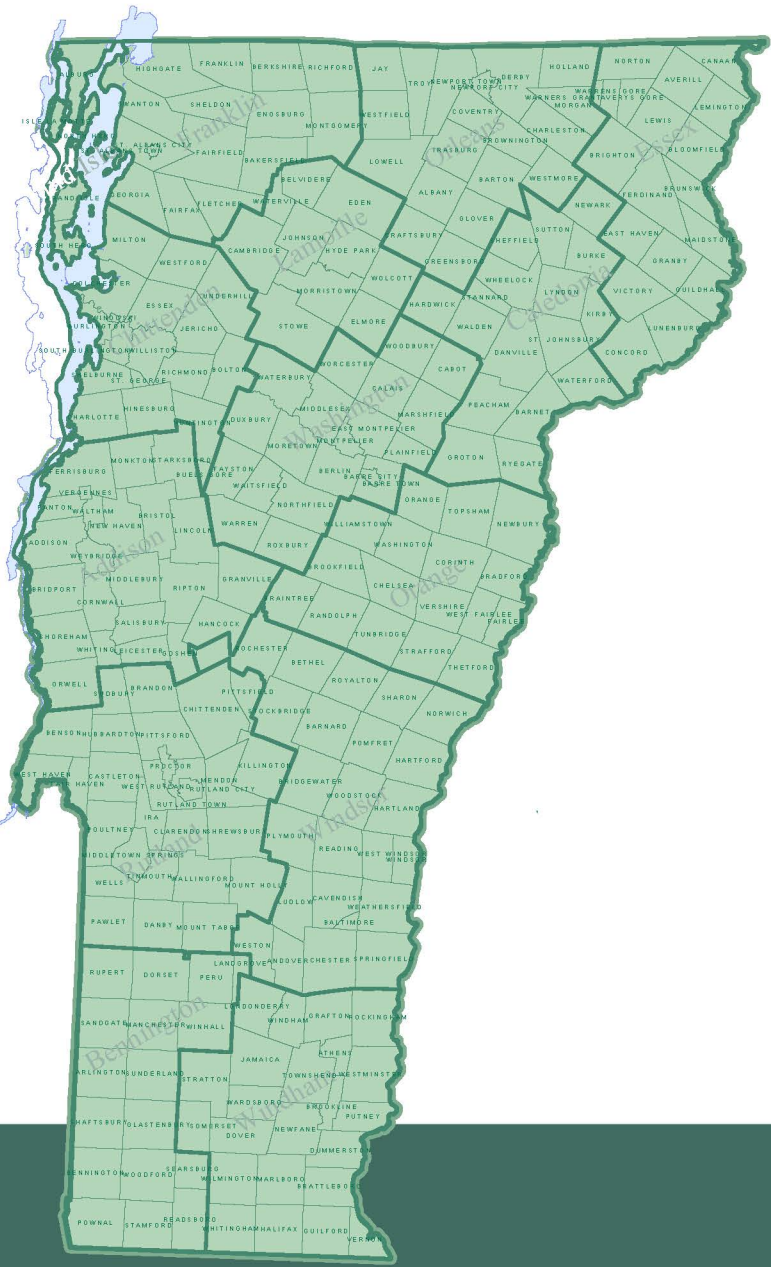


SEASONAL CLIMATE CHANGE IN VERMONT



County-Level Monthly Temperature and Precipitation Data
Compilation for the Forest Products Supply Chain





Seasonal Climate Change in Vermont:

*County-level Monthly Temperature and
Precipitation Data Compilation for the Forest
Products Supply Chain, 1970-2019*

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Compiled by

Steven Bick, PhD CF
Forestry Consultant
Northeast Forests, LLC

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Alison H. Berry
Natural Resources Research Consultant
Woodland Resources, LLC

All of the temperature and precipitation data presented here and all comparisons are derived from County Time Series data compiled by the National Oceanic and Atmospheric Administration and available here:

www.ncdc.noaa.gov/cag/county/time-series/

Fern Bick
Research Assistant
Northeast Forests, LLC

Al Steele
Physical Scientist & Forest Products Specialist
USFS Eastern Region State and Private Forestry



Abstract

Seasonal temperatures and precipitation levels have a direct impact on the forest products supply chain in Vermont. Timber harvest scheduling, road and trail construction and maintenance, logging methods and business models and the procurement practices of wood using facilities are heavily influenced by climate. The National Oceanic and Atmospheric Administration compiles county-level monthly time series records of temperature and precipitation levels. The records for each county in Vermont from 1970 through 2019 were examined to quantify trends and changes relevant to forest operations. All of the tables and comparisons shown in this publication were derived from this information. Tables and figures shown in this report are intended to provide factual information for decision making and understanding of variations and change in monthly temperature and precipitation. Emphasis has been added to information suspected to be influencing climate adaptation by producers.



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Table 1. County-level average monthly temperatures and standard deviations for the state of Vermont, 2010-2019*.

County	January		February		March		April		May		June		July		August		September		October		November		December	
	(°F)	(σ)	(°F)	(σ)	(°F)	(σ)	(°F)	(σ)	(°F)	(σ)	(°F)	(σ)	(°F)	(σ)	(°F)	(σ)	(°F)	(σ)	(°F)	(σ)	(°F)	(σ)	(°F)	(σ)
Addison	19.3	4.2	21.6	6.5	29.5	6.5	42.5	3.1	56.2	2.2	62.9	1.1	69.3	1.7	67.2	1.7	60.7	2.0	48.6	2.8	36.0	3.5	26.5	5.1
Bennington	20.0	3.9	21.9	6.3	29.6	5.9	41.6	3.0	54.8	2.4	61.3	0.8	67.2	1.5	64.7	2.1	59.2	2.0	48.0	2.3	35.1	2.9	26.5	5.0
Caledonia	15.5	3.9	18.4	6.3	26.3	6.5	39.6	3.2	54.1	2.1	60.1	1.0	66.3	1.6	64.5	1.8	57.9	2.2	46.3	2.9	33.0	3.6	22.8	5.3
Chittenden	19.0	4.0	21.2	6.3	29.5	6.3	42.7	2.9	57.6	2.1	63.6	1.1	70.0	1.6	68.1	1.9	61.5	2.1	49.1	3.2	36.3	3.7	26.0	5.2
Essex	15.1	3.8	18.0	6.3	25.5	6.8	38.8	3.2	53.6	2.0	59.7	1.0	65.9	1.6	64.1	1.7	57.6	2.2	46.1	3.1	32.5	3.3	22.2	5.3
Franklin	17.6	4.0	19.6	6.1	28.4	6.2	42.2	3.1	57.2	2.1	63.3	1.1	69.5	1.7	67.6	1.9	60.8	2.0	48.9	3.2	35.5	3.9	24.7	5.4
Grand Isle	18.9	3.9	20.8	6.1	30.0	6.1	43.9	3.2	58.9	2.0	65.5	1.0	71.6	1.8	69.6	1.8	62.5	2.1	50.5	3.3	36.9	3.6	25.9	5.6
Lamoille	16.1	3.9	18.5	6.1	26.5	6.4	39.8	3.0	54.8	2.3	60.6	1.2	66.9	1.6	65.1	2.0	58.8	2.1	46.7	3.0	33.7	4.0	23.1	5.5
Orange	17.9	3.7	20.5	6.3	28.4	6.2	41.1	2.9	55.3	2.1	61.2	0.9	67.4	1.6	65.3	1.9	59.0	2.1	47.2	2.8	34.5	3.4	24.6	5.0
Orleans	15.4	3.9	18.0	6.4	25.9	6.7	39.3	3.2	54.3	2.0	60.4	1.1	66.6	1.7	64.9	1.7	58.2	2.0	46.6	3.2	33.3	3.8	22.7	5.4
Rutland	19.3	4.1	21.7	6.5	29.4	6.3	41.9	3.0	55.3	2.2	61.9	1.1	68.0	1.6	65.9	1.8	59.9	1.9	48.1	2.4	35.5	3.1	26.3	4.9
Washington	16.8	4.0	19.4	6.4	27.2	6.6	40.2	3.1	54.7	2.2	60.5	1.0	66.8	1.6	64.7	1.9	58.5	2.1	46.6	2.9	33.8	3.7	23.7	5.3
Winham	20.5	3.7	22.8	6.1	30.7	5.7	42.7	2.9	55.7	2.3	62.3	0.7	68.6	1.5	66.1	2.1	60.4	1.8	48.8	2.3	35.9	2.9	27.1	4.7
Windsor	19.2	3.8	21.6	6.3	29.5	6.0	42.0	2.9	55.5	2.1	62.0	0.9	68.3	1.6	66.1	1.9	59.8	1.9	47.9	2.6	35.3	3.1	25.9	4.8

*2019 values included if available on the date of this publication (June 201); all others are 2010-2019.

Average Monthly Temperatures, 2010-2019



Table 2. County-level average monthly precipitation and standard deviations for the state of Vermont, 2010-2019*.

County	January		February		March		April		May		June		July		August		September		October		November		December	
	(+)	(σ)	(+)	(σ)	(+)	(σ)	(+)	(σ)	(+)	(σ)	(+)	(σ)	(+)	(σ)	(+)	(σ)	(+)	(σ)	(+)	(σ)	(+)	(σ)	(+)	(σ)
Addison	2.6	1.0	2.3	1.0	2.7	1.0	3.6	1.4	4.3	1.9	5.3	2.1	4.4	1.4	4.1	2.2	3.5	1.2	4.5	2.2	2.7	1.6	3.5	0.8
Bennington	3.3	1.0	3.2	1.2	2.9	1.1	3.7	1.1	4.3	2.2	5.7	2.1	4.4	1.4	4.8	2.9	4.6	2.4	5.1	2.1	3.2	2.1	4.3	0.8
Caledonia	2.7	1.0	2.7	1.1	2.8	0.9	3.8	1.3	4.5	1.8	5.2	1.8	4.8	1.3	4.4	2.0	3.8	1.3	4.6	1.7	2.8	1.4	3.9	0.7
Chittenden	2.3	0.7	2.4	0.9	2.6	0.8	3.9	1.6	4.5	2.5	6.0	2.5	4.0	1.0	3.7	1.6	3.8	1.4	4.4	1.7	2.7	1.4	3.5	0.8
Essex	2.9	1.1	2.7	1.2	2.7	0.7	3.7	1.1	4.9	2.1	5.4	2.1	4.4	1.2	4.7	1.7	4.1	1.5	4.5	1.6	2.9	1.3	4.0	0.7
Franklin	2.5	0.8	2.6	0.8	2.9	0.9	4.2	1.4	4.3	2.1	5.3	1.9	4.2	1.1	4.4	1.8	4.5	1.8	4.4	1.1	3.0	1.6	3.9	0.8
Grand Isle	2.1	0.7	2.3	0.9	2.5	1.0	3.8	1.2	3.8	1.9	4.7	1.9	3.5	1.1	3.8	1.5	3.7	1.7	4.0	0.5	2.4	1.3	3.2	1.3
Lamoille	2.7	0.8	2.7	0.8	3.0	1.0	4.2	1.5	4.3	2.1	6.2	2.6	4.2	1.4	4.4	2.0	3.8	1.1	4.7	1.7	3.1	1.7	4.2	0.9
Orange	2.6	1.0	2.6	1.1	2.7	1.1	3.5	1.3	4.0	1.5	5.3	1.9	4.8	1.5	4.4	2.3	3.3	1.4	4.8	2.2	2.7	1.5	3.8	0.9
Orleans	2.9	1.0	2.8	1.0	2.9	0.9	4.3	1.3	4.6	2.1	5.8	2.0	4.8	1.2	4.9	2.0	4.5	1.7	4.7	1.7	3.1	1.8	4.3	0.8
Rutland	2.9	1.2	2.7	1.2	3.0	1.2	3.8	1.4	4.4	1.7	5.2	1.8	4.3	1.0	4.5	2.8	3.6	1.4	4.9	2.3	2.7	1.6	3.9	0.8
Washington	2.5	0.8	2.8	1.0	3.0	1.2	3.9	1.5	4.4	2.0	6.0	2.5	4.6	1.4	4.0	2.1	3.6	1.3	4.7	1.9	2.9	1.6	3.9	0.9
Winham	3.6	1.2	3.6	1.2	3.3	1.4	4.0	1.5	4.2	2.1	5.4	2.0	4.2	1.6	5.1	2.7	4.4	2.4	5.6	2.4	3.3	2.0	4.8	0.8
Windsor	2.9	1.1	2.9	1.1	2.9	1.3	3.9	1.4	4.1	1.7	5.1	1.5	4.5	1.5	4.6	3.0	3.6	1.7	5.0	2.4	2.8	1.7	4.2	0.9

*2019 values included if available on the date of this publication (June 201); all others are 2010-2019.

Average Monthly Temperatures, 2010-2019

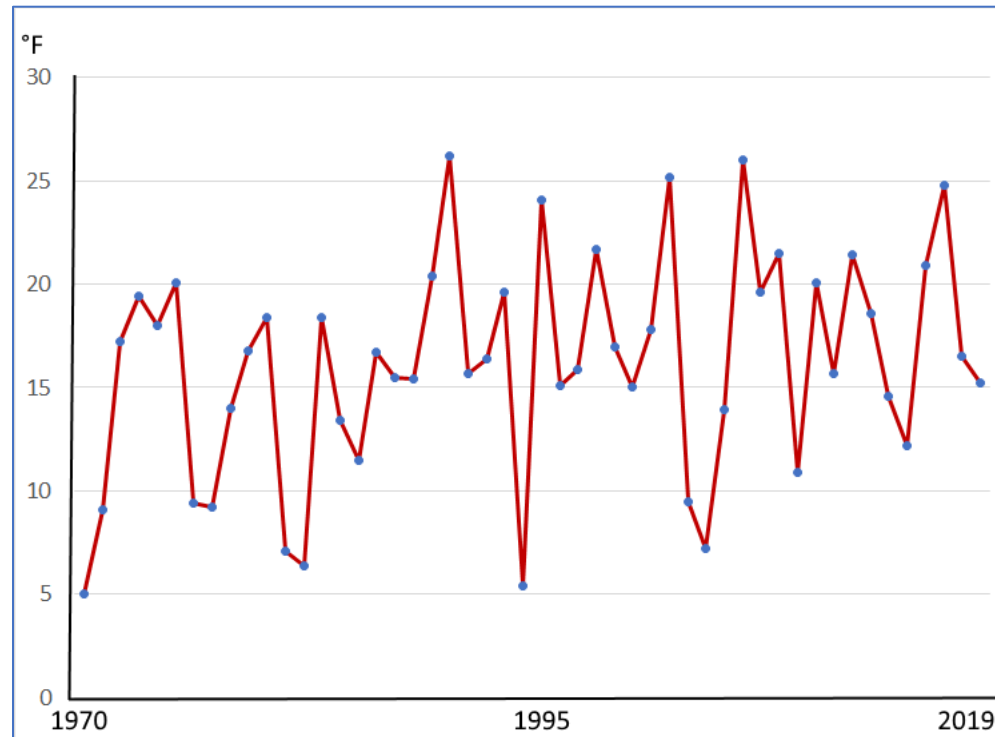


Figure 1. Average January temperature (degrees Fahrenheit) in the State of Vermont, 1970-2019.

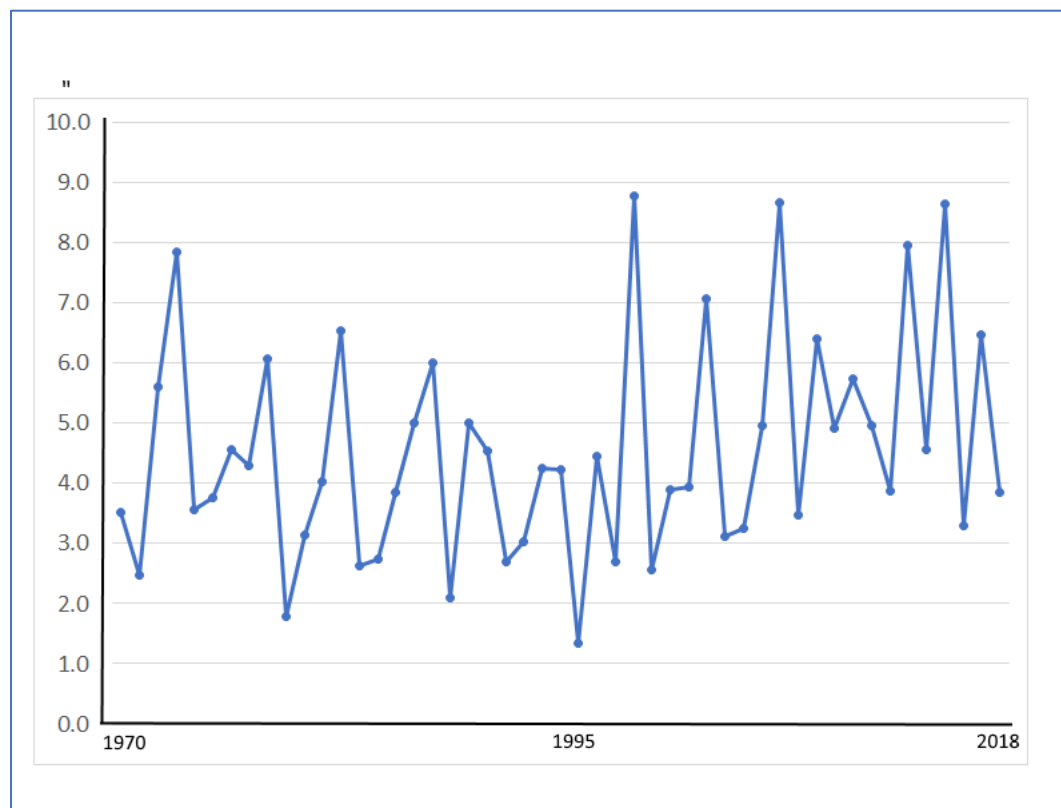


Figure 2. Average June precipitation (inches) in the State of Vermont, 1970-2018.



<u>January</u> Warmer Wetter	<u>February</u> Warmer Wetter	<u>March</u> Warmer Wetter
<u>April</u> Warmer Drier	<u>May</u> Warmer Drier	<u>June</u> Warmer Wetter
<u>July</u> Warmer Variable	<u>August</u> Warmer Wetter	<u>September</u> Warmer Wetter
<u>October</u> Warmer Wetter	<u>November</u> Warmer Drier	<u>December</u> Warmer Wetter

Figure 3. General monthly descriptions of temperature and precipitation changes since the 1980's.



Table 3. Changes in county-level average monthly temperatures between the 1970's and 2010's.

County	January (°F)	February (°F)	March (°F)	April (°F)	May (°F)	June (°F)	July (°F)	August (°F)	September (°F)	October (°F)	November (°F)	December (°F)
Addison	4.5	4.8	0.1	1.9	1.5	-0.2	1.5	1.6	4.0	3.0	0.7	4.7
Bennington	4.3	4.3	0.8	2.1	2.4	0.9	2.3	1.4	4.0	3.2	0.2	4.0
Caledonia	3.7	4.5	-0.4	2.0	1.7	-0.9	0.7	1.2	3.5	2.7	0.4	4.4
Chittenden	4.5	5.0	0.6	2.6	3.0	0.5	2.0	2.4	4.6	3.2	0.9	4.5
Essex	4.2	4.7	-0.3	2.3	2.2	-0.3	1.6	1.9	4.0	3.2	0.9	4.7
Franklin	4.5	4.6	0.3	2.6	2.6	0.1	1.7	2.3	4.3	3.1	1.0	4.5
Grand Isle	4.4	4.4	0.4	2.2	2.5	0.0	1.2	1.8	3.9	3.0	0.5	4.2
Lamoille	3.8	3.9	-0.2	2.3	2.5	-0.1	1.6	2.2	4.6	3.2	1.0	4.1
Orange	4.5	5.0	0.3	2.1	1.8	-0.6	1.1	1.2	3.7	2.7	0.8	4.5
Orleans	4.3	4.8	-0.2	2.0	2.0	-0.6	1.1	2.0	4.0	3.1	1.2	4.8
Rutland	4.3	4.6	0.3	2.0	1.6	0.0	1.8	1.6	4.1	3.1	0.8	4.4
Washington	3.8	4.4	-0.1	2.1	2.1	-0.4	1.2	1.3	3.7	2.5	0.4	4.1
Winham	3.7	4.0	0.6	1.8	1.9	0.2	2.0	1.5	4.2	3.0	-0.2	3.9
Windsor	4.1	4.2	0.3	2.2	1.9	0.2	2.0	1.8	4.3	3.0	0.5	4.3
All Vermont	4.5	4.6	0.5	2.1	2.2	-0.1	1.6	1.7	4.1	3.0	0.7	4.4

1970's Temperature Comparison



Table 4. Changes in county-level average monthly temperatures between the 1980's and 2010's.

County	January (°F)	February (°F)	March (°F)	April (°F)	May (°F)	June (°F)	July (°F)	August (°F)	September (°F)	October (°F)	November (°F)	December (°F)
Addison	3.8	1.4	0.4	-0.6	1.2	0.9	1.4	2.0	3.5	3.1	1.3	5.1
Bennington	3.8	1.2	0.8	0.0	1.9	1.7	2.0	1.8	3.6	3.7	0.7	4.8
Caledonia	3.4	0.9	-0.2	-1.1	1.4	0.5	0.8	1.3	2.8	2.8	0.7	4.7
Chittenden	3.8	1.3	0.8	-0.1	2.9	1.6	1.8	2.5	4.1	3.5	1.5	4.9
Essex	3.9	1.4	0.1	-0.8	1.8	1.1	1.7	2.0	3.6	3.5	1.5	5.4
Franklin	3.7	1.0	0.7	-0.3	2.7	1.4	1.8	2.6	4.0	3.6	1.6	4.8
Grand Isle	3.5	1.0	0.8	-0.4	2.7	1.5	1.7	2.5	3.6	3.6	1.2	4.2
Lamoille	3.4	0.8	0.2	-0.6	2.4	1.1	1.4	2.3	4.0	3.4	1.4	5.0
Orange	4.0	1.3	0.4	-0.3	1.9	1.1	1.4	1.7	3.3	3.1	1.0	5.0
Orleans	3.6	1.2	0.1	-1.0	1.9	1.0	1.3	2.2	3.5	3.4	1.5	5.2
Rutland	3.5	1.4	0.4	-0.3	1.4	1.3	1.7	2.0	3.8	3.3	1.1	5.1
Washington	3.5	1.1	0.2	-0.6	2.0	0.9	1.2	1.6	3.3	3.1	1.0	4.7
Winham	3.5	1.0	0.8	0.2	1.4	1.3	1.7	1.6	3.6	3.5	0.4	4.7
Windsor	3.8	1.2	0.5	0.1	1.8	1.4	1.7	2.0	3.8	3.5	0.9	5.1
All Vermont	4.0	1.4	0.7	-0.4	2.0	1.2	1.5	1.9	3.5	3.3	1.1	4.9

1980's Temperature Comparison



Table 5. Changes in county-level average monthly temperatures between the 1990's and 2010's.

County	January (°F)	February (°F)	March (°F)	April (°F)	May (°F)	June (°F)	July (°F)	August (°F)	September (°F)	October (°F)	November (°F)	December (°F)
Addison	0.3	1.4	0.3	0.4	2.4	-0.9	1.6	1.6	3.3	2.2	0.7	0.7
Bennington	-0.3	0.9	1.0	1.0	3.0	0.2	2.2	1.3	3.6	2.7	0.4	0.9
Caledonia	-0.1	1.4	-0.7	-0.1	2.5	-1.6	0.9	0.7	2.7	2.0	0.2	0.2
Chittenden	1.1	1.9	0.7	0.8	3.6	-0.6	2.0	2.0	3.9	2.7	0.9	0.6
Essex	0.7	2.4	-0.1	0.3	2.9	-1.1	1.5	1.3	3.3	2.6	0.7	0.7
Franklin	1.1	1.7	0.7	0.7	3.4	-0.5	1.9	2.0	3.6	2.6	0.7	0.5
Grand Isle	1.7	2.0	1.0	0.6	3.1	-0.5	1.9	2.0	3.5	2.7	0.5	0.3
Lamoille	0.5	1.4	0.0	0.5	3.2	-1.0	1.7	1.6	3.6	2.5	0.8	0.3
Orange	0.3	1.5	0.2	0.5	3.0	-1.0	1.5	1.0	3.1	2.0	0.3	0.5
Orleans	0.6	1.7	-0.3	0.0	2.7	-1.3	1.3	1.5	3.2	2.6	0.9	0.5
Rutland	0.2	1.4	0.5	0.5	2.5	-0.6	1.7	1.4	3.5	2.4	0.7	0.9
Washington	0.2	1.4	-0.2	0.3	2.9	-1.3	1.4	1.1	3.1	2.0	0.3	0.4
Winham	-0.7	0.6	0.7	1.0	2.6	-0.4	2.0	1.2	3.6	2.4	0.1	0.5
Windsor	0.0	1.3	0.5	0.7	2.8	-0.5	1.8	1.4	3.5	2.3	0.3	0.5
All Vermont	0.6	1.6	0.6	0.5	3.0	-0.8	1.7	1.4	3.3	2.4	0.5	0.6

1990's Temperature Comparison



Table 6. Changes in county-level average monthly temperatures between the 2000's and 2010's.

County	January (°F)	February (°F)	March (°F)	April (°F)	May (°F)	June (°F)	July (°F)	August (°F)	September (°F)	October (°F)	November (°F)	December (°F)
Addison	1.2	1.2	-0.2	-0.5	2.8	-0.7	1.9	0.4	1.4	2.0	-1.5	2.1
Bennington	1.2	1.1	0.3	-0.1	3.0	0.0	2.5	0.3	2.0	2.4	-1.4	2.5
Caledonia	1.0	0.8	-0.6	-0.8	2.8	-1.2	1.6	0.0	1.0	1.7	-1.7	1.6
Chittenden	1.6	1.4	0.2	-0.1	3.8	-0.1	2.3	1.0	1.7	2.2	-1.0	1.8
Essex	1.8	2.0	0.0	-0.5	3.2	-0.8	1.8	0.4	1.3	2.1	-1.3	2.1
Franklin	1.7	1.1	-0.2	-0.4	3.5	-0.2	2.0	0.8	1.3	2.2	-1.3	1.5
Grand Isle	1.9	1.4	0.1	-0.3	3.3	-0.3	1.8	0.7	1.1	2.2	-1.5	1.2
Lamoille	1.6	1.2	-0.2	-0.4	3.4	-0.8	1.8	0.5	1.3	2.1	-1.1	1.7
Orange	1.5	1.4	0.2	-0.3	3.3	-0.7	1.7	0.1	1.2	1.9	-1.4	2.1
Orleans	1.7	1.3	-0.3	-0.6	3.0	-0.8	1.7	0.6	1.1	2.1	-1.2	1.9
Rutland	1.1	1.2	-0.1	-0.5	2.6	-0.7	1.9	0.2	1.6	2.1	-1.4	2.4
Washington	1.2	1.2	-0.2	-0.6	3.2	-0.9	1.5	0.1	1.1	1.6	-1.5	1.8
Winham	0.9	0.7	0.3	-0.1	2.7	-0.3	2.2	-0.1	1.9	2.0	-1.5	2.2
Windsor	1.1	1.1	0.2	-0.1	2.8	-0.5	2.0	0.2	1.6	1.9	-1.3	2.2
All Vermont	1.7	1.3	0.3	-0.4	3.2	-0.6	1.9	0.3	1.4	2.0	-1.4	2.0

2000's Temperature Comparison



Table 7. Changes in county-level average monthly precipitation between the 1970's and 2010's.

County	January (inches)	February (inches)	March (inches)	April (inches)	May (inches)	June (inches)	July (inches)	August (inches)	September (inches)	October (inches)	November (inches)	December (inches)
Addison	-0.6	0.0	-0.6	0.5	0.6	1.4	0.3	-0.4	-0.6	0.8	-0.9	0.1
Bennington	-0.8	0.3	-1.0	0.0	-0.6	1.0	0.0	-0.2	0.1	0.9	-0.8	-0.1
Caledonia	-0.7	0.2	-0.4	0.7	1.0	0.7	0.7	-0.1	0.0	1.0	-0.6	-0.1
Chittenden	-0.5	0.3	-0.5	0.6	0.9	1.6	-0.2	-0.8	-0.2	1.0	-0.7	0.1
Essex	-0.7	0.1	-0.7	0.8	1.0	0.6	0.2	0.1	0.0	0.8	-0.6	-0.1
Franklin	-0.8	0.0	-0.8	0.8	0.4	0.8	-0.2	-0.2	0.0	0.7	-0.8	-0.3
Grand Isle	-0.4	0.3	-0.4	0.9	0.4	1.2	-0.4	-0.2	-0.1	0.8	-0.7	-0.2
Lamoille	-1.0	0.1	-0.7	0.7	0.5	1.1	-0.2	-0.5	-0.7	0.9	-0.8	-0.3
Orange	-0.8	0.0	-0.5	0.2	0.4	1.4	0.9	0.3	-0.4	1.0	-0.8	0.0
Orleans	-0.8	0.0	-0.7	1.0	0.6	0.8	0.2	0.0	0.0	0.9	-0.7	-0.2
Rutland	-0.6	0.1	-0.4	0.5	0.3	1.0	0.2	-0.1	-0.6	0.9	-0.9	0.1
Washington	-1.0	0.2	-0.3	0.5	0.7	1.7	0.6	-0.6	-0.6	0.8	-0.8	-0.2
Winham	-0.9	0.4	-0.9	-0.1	-0.6	1.4	0.2	0.4	0.2	1.3	-0.8	0.0
Windsor	-0.9	0.0	-0.6	0.3	0.0	1.2	0.4	0.3	-0.3	1.0	-0.9	0.1
All Vermont	-1.0	0.1	-0.5	0.3	0.3	1.1	0.2	-0.1	-0.2	0.9	-0.8	-0.1

1970's Precipitation Comparison



Table 8. Changes in county-level average monthly precipitation between the 1980's and 2010's.

County	January (inches)	February (inches)	March (inches)	April (inches)	May (inches)	June (inches)	July (inches)	August (inches)	September (inches)	October (inches)	November (inches)	December (inches)
Addison	0.6	0.1	0.2	0.6	0.4	1.3	0.5	-0.5	-0.5	1.0	-1.3	1.0
Bennington	0.7	0.1	-0.6	-0.3	-0.1	1.0	0.0	0.4	0.8	1.3	-1.4	1.2
Caledonia	0.4	0.3	-0.1	0.9	0.5	1.0	1.0	-0.2	0.0	1.0	-1.4	1.0
Chittenden	0.4	0.3	0.2	0.8	0.7	2.1	0.0	-1.0	-0.2	0.9	-1.4	0.9
Essex	0.6	0.4	-0.2	0.7	0.7	1.2	0.2	-0.1	0.2	1.1	-1.4	1.1
Franklin	0.3	0.3	0.3	0.9	0.2	1.4	0.1	-0.7	0.5	0.7	-1.7	0.9
Grand Isle	0.5	0.5	0.5	0.9	0.5	1.6	-0.2	-0.5	0.2	1.1	-1.1	0.7
Lamoille	0.3	0.3	0.1	1.0	0.1	1.9	-0.1	-0.6	-0.3	0.8	-1.5	1.1
Orange	0.4	0.0	0.0	0.4	0.0	1.5	0.9	0.2	-0.4	1.2	-1.5	1.1
Orleans	0.4	0.3	0.0	1.3	0.5	1.6	0.4	0.1	0.5	1.0	-1.3	1.0
Rutland	0.6	0.1	0.1	0.4	0.1	1.2	0.3	0.0	-0.6	1.3	-1.5	1.1
Washington	0.1	0.3	0.2	0.7	0.4	1.8	0.8	-0.7	-0.3	1.0	-1.4	1.0
Winham	0.7	0.0	-0.7	-0.6	-0.3	1.0	-0.1	1.3	0.7	1.6	-1.4	1.5
Windsor	0.4	0.0	-0.3	0.2	-0.2	1.3	0.6	0.3	-0.3	1.3	-1.5	1.2
All Vermont	0.2	0.2	0.0	0.3	0.2	1.4	0.4	-0.1	0.0	1.1	-1.4	1.1

1980's Precipitation Comparison



Table 9. Changes in county-level average monthly precipitation between the 1970's and 2010's.

County	January (inches)	February (inches)	March (inches)	April (inches)	May (inches)	June (inches)	July (inches)	August (inches)	September (inches)	October (inches)	November (inches)	December (inches)
Addison	-0.8	0.4	-0.2	0.4	0.9	1.7	0.1	-0.4	-1.0	0.6	-0.7	0.8
Bennington	-1.0	0.8	-0.7	-0.1	0.2	1.8	0.3	0.2	0.3	1.0	-1.0	0.6
Caledonia	-1.1	0.5	-0.3	0.9	1.2	1.3	-0.1	-0.2	-0.3	0.5	-0.5	1.0
Chittenden	-1.0	0.5	-0.2	0.8	1.2	2.4	-0.7	-1.0	-0.7	0.4	-0.7	0.9
Essex	-1.1	0.3	-0.4	0.6	1.5	1.1	-0.5	0.1	-0.1	0.2	-0.5	0.8
Franklin	-1.1	0.4	-0.1	0.8	0.8	1.6	-0.8	-0.1	-0.1	0.2	-0.7	0.9
Grand Isle	-0.9	0.4	0.2	0.7	0.8	1.4	-0.9	0.0	-0.1	0.4	-0.8	0.9
Lamoille	-1.4	0.2	-0.3	0.9	0.7	2.1	-1.2	-0.6	-1.0	0.2	-0.8	1.0
Orange	-1.3	0.5	-0.6	0.4	0.7	1.6	0.6	-0.3	-0.8	0.9	-0.6	1.0
Orleans	-1.2	0.3	-0.3	0.9	0.9	1.7	-0.4	0.2	0.1	0.3	-0.5	1.0
Rutland	-1.0	0.7	-0.3	0.4	0.6	1.3	0.2	-0.1	-0.6	1.0	-1.0	0.8
Washington	-1.6	0.5	-0.4	0.6	0.9	2.1	0.0	-0.8	-0.9	0.5	-0.6	0.9
Winham	-1.1	0.9	-0.9	0.0	-0.1	1.7	0.4	0.7	0.0	1.1	-1.1	1.0
Windsor	-1.3	0.6	-0.8	0.4	0.4	1.4	0.7	0.2	-0.4	1.0	-0.9	1.1
All Vermont	-1.4	0.5	-0.4	0.3	0.7	1.6	0.0	-0.1	-0.4	0.7	-0.7	0.9

1990's Precipitation Comparison



Table 10. Changes in county-level average monthly precipitation between the 2000's and 2010's.

County	January (inches)	February (inches)	March (inches)	April (inches)	May (inches)	June (inches)	July (inches)	August (inches)	September (inches)	October (inches)	November (inches)	December (inches)
Addison	0.1	-0.2	-0.3	0.2	0.3	0.5	-0.7	0.0	0.3	-0.1	-0.9	-0.4
Bennington	0.1	0.2	-1.0	-0.4	0.0	0.3	-0.8	0.0	0.3	-0.2	-0.9	-0.3
Caledonia	0.2	0.0	-0.1	0.4	0.5	0.5	-0.3	0.1	0.4	-0.5	-1.0	-0.3
Chittenden	0.0	0.0	-0.1	0.6	0.4	1.2	-1.0	-0.4	0.5	-0.2	-0.9	-0.3
Essex	0.3	0.0	0.0	0.3	0.6	0.0	-0.6	-0.1	0.6	-0.6	-1.1	-0.2
Franklin	0.0	0.2	0.1	0.8	0.0	0.2	-0.7	-0.1	0.9	-0.4	-0.8	-0.2
Grand Isle	0.0	0.4	0.2	0.8	-0.2	0.2	-0.6	0.1	0.6	0.0	-0.9	-0.3
Lamoille	-0.2	-0.3	-0.3	0.5	0.1	1.1	-1.3	-0.3	0.2	-0.5	-1.1	-0.3
Orange	0.2	-0.2	-0.4	-0.2	0.1	0.9	-0.2	0.3	-0.2	-0.1	-1.1	-0.5
Orleans	0.0	0.0	-0.1	0.8	0.2	0.5	-0.3	-0.3	1.0	-0.5	-0.9	-0.3
Rutland	0.1	-0.2	-0.4	0.0	0.3	0.1	-0.8	0.1	-0.1	-0.1	-1.1	-0.5
Washington	-0.1	-0.2	-0.1	0.2	0.3	1.2	-0.7	-0.2	0.3	-0.4	-1.0	-0.5
Winham	0.3	0.2	-0.8	-0.7	-0.2	0.2	-0.8	0.9	0.1	0.1	-0.8	0.0
Windsor	0.1	-0.2	-0.6	0.0	0.1	0.3	-0.5	0.6	-0.1	-0.2	-1.0	-0.2
All Vermont	-0.2	0.0	-0.3	0.0	0.2	0.5	-0.6	0.1	0.3	-0.2	-1.0	-0.3

2000's Precipitation Comparison

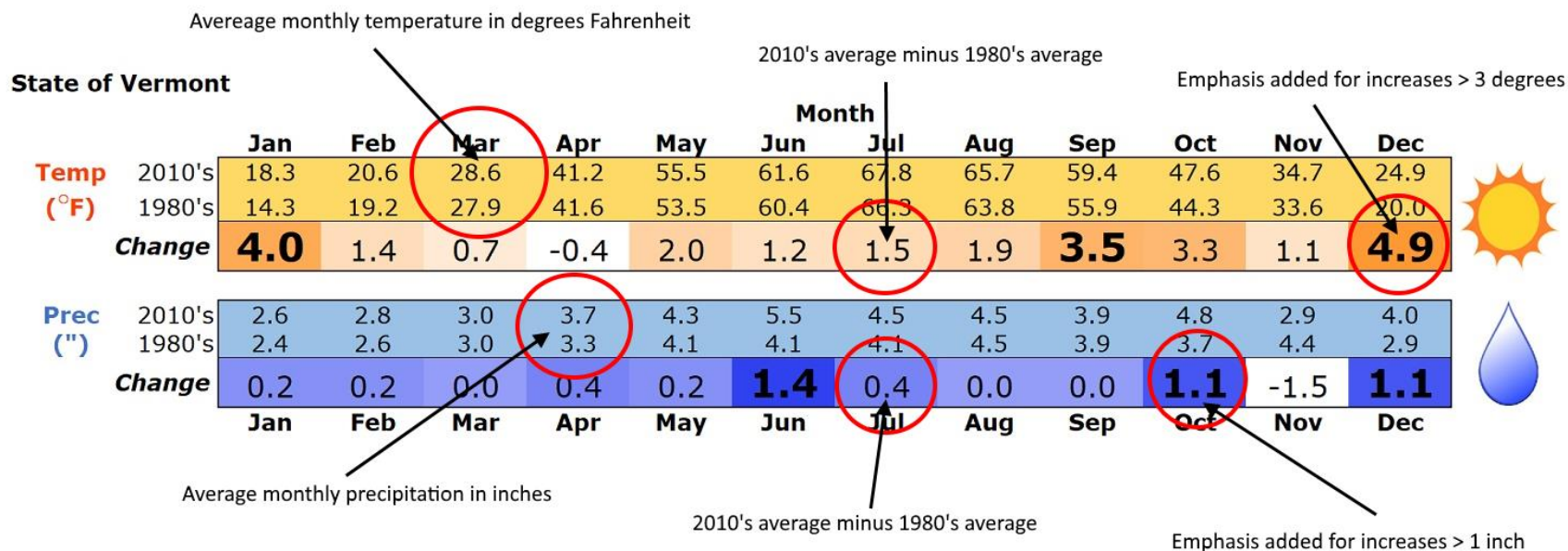


Figure 4. Explanation of monthly temperature and precipitation comparison tables.

KEY FOR COMPARISON TABLES



Table 11. Comparison of 1980's and 2010's statewide average monthly temperatures and precipitation levels for the State of Vermont.

State of Vermont

		Month											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temp (°F)	2010's	18.3	20.6	28.6	41.2	55.5	61.6	67.8	65.7	59.4	47.6	34.7	24.9
	1980's	14.3	19.2	27.9	41.6	53.5	60.4	66.3	63.8	55.9	44.3	33.6	20.0
	Change	4.0	1.4	0.7	-0.4	2.0	1.2	1.5	1.9	3.5	3.3	1.1	4.9
Prec (")	2010's	2.6	2.8	3.0	3.7	4.3	5.5	4.5	4.5	3.9	4.8	2.9	4.0
	1980's	2.4	2.6	3.0	3.3	4.1	4.1	4.1	4.5	3.9	3.7	4.4	2.9
	Change	0.2	0.2	0.0	0.4	0.2	1.4	0.4	0.0	0.0	1.1	-1.5	1.1
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

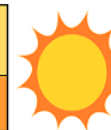


STATE OF VERMONT



Table 12. Comparison of 1980's and 2010's average monthly temperatures and precipitation levels for Addison County, Vermont.

Addison		Month											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temp (°F)	2010's	19.3	21.6	29.5	42.5	56.2	62.9	69.3	67.2	60.7	48.6	36.0	26.5
	1980's	15.5	20.3	29.2	43.1	55.1	62.0	67.9	65.2	57.3	45.5	34.8	21.4
	Change	3.8	1.4	0.4	-0.6	1.2	0.9	1.4	2.0	3.5	3.1	1.3	5.1
Prec (")	2010's	2.6	2.3	2.7	3.6	4.3	5.3	4.4	4.1	3.5	4.5	2.7	3.5
	1980's	2.0	2.3	2.5	3.0	3.9	3.9	3.9	4.6	4.0	3.4	4.0	2.6
	Change	0.6	0.1	0.2	0.6	0.4	1.3	0.5	-0.5	-0.5	1.0	-1.3	1.0
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec



ADDISON COUNTY



Table 13. Comparison of 1980's and 2010's average monthly temperatures and precipitation levels for Bennington County, Vermont.

Bennington		Month											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temp (°F)	2010's	20.0	21.9	29.6	41.6	54.8	61.3	67.2	64.7	59.2	48.0	35.1	26.5
	1980's	16.2	20.7	28.8	41.6	52.9	59.6	65.2	62.9	55.6	44.3	34.4	21.7
	Change	3.8	1.2	0.8	0.0	1.9	1.7	2.0	1.8	3.6	3.7	0.7	4.8
Prec (")	2010's	3.3	3.2	2.9	3.7	4.3	5.7	4.4	4.8	4.6	5.1	3.2	4.3
	1980's	2.5	3.2	3.6	3.9	4.4	4.7	4.4	4.4	3.8	3.8	4.6	3.1
	Change	0.7	0.1	-0.6	-0.3	-0.1	1.0	0.0	0.4	0.8	1.3	-1.4	1.2
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

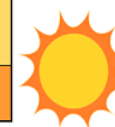


BENNINGTON COUNTY



Table 14. Comparison of 1980's and 2010's average monthly temperatures and precipitation levels for Caledonia County, Vermont.

Caledonia		Month											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temp (°F)	2010's	15.5	18.4	26.3	39.6	54.1	60.1	66.3	64.5	57.9	46.3	33.0	22.8
	1980's	12.2	17.5	26.6	40.6	52.7	59.6	65.5	63.1	55.1	43.5	32.2	18.1
	Change	3.4	0.9	-0.2	-1.1	1.4	0.5	0.8	1.3	2.8	2.8	0.7	4.7
Prec (")	2010's	2.7	2.7	2.8	3.8	4.5	5.2	4.8	4.4	3.8	4.6	2.8	3.9
	1980's	2.3	2.4	2.8	2.9	4.0	4.2	3.8	4.7	3.8	3.6	4.3	2.9
	Change	0.4	0.3	-0.1	0.9	0.5	1.0	1.0	-0.2	0.0	1.0	-1.4	1.0
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec



CALEDONIA COUNTY



Table 15. Comparison of 1980's and 2010's average monthly temperatures and precipitation levels for Chittenden County, Vermont.

Chittenden		Month											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temp (°F)	2010's	19.0	21.2	29.5	42.7	57.6	63.6	70.0	68.1	61.5	49.1	36.3	26.0
	1980's	15.2	19.9	28.7	42.9	54.7	62.0	68.2	65.5	57.4	45.7	34.9	21.0
	Change	3.8	1.3	0.8	-0.1	2.9	1.6	1.8	2.5	4.1	3.5	1.5	4.9
Prec (")	2010's	2.3	2.4	2.6	3.9	4.5	6.0	4.0	3.7	3.8	4.4	2.7	3.5
	1980's	1.9	2.1	2.5	3.1	3.8	3.9	4.0	4.8	4.0	3.5	4.1	2.5
	Change	0.4	0.3	0.2	0.8	0.7	2.1	0.0	-1.0	-0.2	0.9	-1.4	0.9
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec



CHITTENDEN COUNTY



Table 16. Comparison of 1980's and 2010's average monthly temperatures and precipitation levels for Essex County, Vermont.

Essex		Month											
Temp (°F)		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2010's	15.1	18.0	25.5	38.8	53.6	59.7	65.9	64.1	57.6	46.1	32.5	22.2
	1980's	11.1	16.6	25.5	39.6	51.7	58.6	64.3	62.1	54.0	42.5	31.0	16.8
Change		3.9	1.4	0.1	-0.8	1.8	1.1	1.7	2.0	3.6	3.5	1.5	5.4
Prec (")		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2010's	2.9	2.7	2.7	3.7	4.9	5.4	4.4	4.7	4.1	4.5	2.9	4.0
	1980's	2.4	2.3	2.9	3.0	4.2	4.2	4.2	4.8	4.0	3.4	4.4	2.9
Change		0.6	0.4	-0.2	0.7	0.7	1.2	0.2	-0.1	0.2	1.1	-1.4	1.1



ESSEX COUNTY



Table 17. Comparison of 1980's and 2010's average monthly temperatures and precipitation levels for Franklin County, Vermont.

Franklin		Month											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temp (°F)	2010's	17.6	19.6	28.4	42.2	57.2	63.3	69.5	67.6	60.8	48.9	35.5	24.7
	1980's	14.0	18.6	27.8	42.4	54.5	61.8	67.7	65.0	56.9	45.2	33.9	19.9
	Change	3.7	1.0	0.7	-0.3	2.7	1.4	1.8	2.6	4.0	3.6	1.6	4.8
Prec (")	2010's	2.5	2.6	2.9	4.2	4.3	5.3	4.2	4.4	4.5	4.4	3.0	3.9
	1980's	2.2	2.3	2.6	3.2	4.0	3.9	4.1	5.1	4.0	3.7	4.7	3.0
	Change	0.3	0.3	0.3	0.9	0.2	1.4	0.1	-0.7	0.5	0.7	-1.7	0.9
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec



FRANKLIN COUNTY



Table 18. Comparison of 1980's and 2010's average monthly temperatures and precipitation levels for Grand Isle County, Vermont.

Grand Isle		Month											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temp (°F)	2010's	18.9	20.8	30.0	43.9	58.9	65.5	71.6	69.6	62.5	50.5	36.9	25.9
	1980's	15.4	19.9	29.2	44.3	56.2	64.0	69.9	67.2	59.0	46.9	35.8	21.8
	Change	3.5	1.0	0.8	-0.4	2.7	1.5	1.7	2.5	3.6	3.6	1.2	4.2
Prec (")	2010's	2.1	2.3	2.5	3.8	3.8	4.7	3.5	3.8	3.7	4.0	2.4	3.2
	1980's	1.7	1.8	2.0	2.8	3.2	3.1	3.6	4.3	3.5	3.0	3.5	2.4
	Change	0.5	0.5	0.5	0.9	0.5	1.6	-0.2	-0.5	0.2	1.1	-1.1	0.7
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

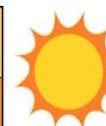


GRAND ISLE COUNTY



Table 19. Comparison of 1980's and 2010's average monthly temperatures and precipitation levels for Lamoille County, Vermont.

Lamoille		Month											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temp (°F)	2010's	16.1	18.5	26.5	39.8	54.8	60.6	66.9	65.1	58.8	46.7	33.7	23.1
	1980's	12.7	17.7	26.3	40.4	52.4	59.5	65.5	62.8	54.8	43.3	32.3	18.1
	Change	3.4	0.8	0.2	-0.6	2.4	1.1	1.4	2.3	4.0	3.4	1.4	5.0
Prec (")	2010's	2.7	2.7	3.0	4.2	4.3	6.2	4.2	4.4	3.8	4.7	3.1	4.2
	1980's	2.4	2.4	2.9	3.3	4.2	4.3	4.2	5.0	4.0	3.9	4.6	3.1
	Change	0.3	0.3	0.1	1.0	0.1	1.9	-0.1	-0.6	-0.3	0.8	-1.5	1.1
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec



LAMOILLE COUNTY



Table 20. Comparison of 1980's and 2010's average monthly temperatures and precipitation levels for Orange County, Vermont.

Orange		Month											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temp (°F)	2010's	17.9	20.5	28.4	41.1	55.3	61.2	67.4	65.3	59.0	47.2	34.5	24.6
	1980's	13.9	19.2	28.0	41.4	53.4	60.1	66.0	63.7	55.7	44.1	33.5	19.6
	Change	4.0	1.3	0.4	-0.3	1.9	1.1	1.4	1.7	3.3	3.1	1.0	5.0
Prec (")	2010's	2.6	2.6	2.7	3.5	4.0	5.3	4.8	4.4	3.3	4.8	2.7	3.8
	1980's	2.3	2.6	2.7	3.0	4.0	3.9	3.9	4.2	3.8	3.6	4.2	2.7
	Change	0.4	0.0	0.0	0.4	0.0	1.5	0.9	0.2	-0.4	1.2	-1.5	1.1
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec



ORANGE COUNTY



Table 21. Comparison of 1980's and 2010's average monthly temperatures and precipitation levels for Orleans County, Vermont.

Orleans		Month											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temp (°F)	2010's	15.4	18.0	25.9	39.3	54.3	60.4	66.6	64.9	58.2	46.6	33.3	22.7
	1980's	11.8	16.8	25.8	40.3	52.4	59.4	65.2	62.7	54.7	43.2	31.8	17.5
	Change	3.6	1.2	0.1	-1.0	1.9	1.0	1.3	2.2	3.5	3.4	1.5	5.2
Prec (")	2010's	2.9	2.8	2.9	4.3	4.6	5.8	4.8	4.9	4.5	4.7	3.1	4.3
	1980's	2.5	2.5	2.9	3.0	4.1	4.2	4.4	4.8	4.0	3.7	4.4	3.3
	Change	0.4	0.3	0.0	1.3	0.5	1.6	0.4	0.1	0.5	1.0	-1.3	1.0
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec



ORLEANS COUNTY



Table 22. Comparison of 1980's and 2010's average monthly temperatures and precipitation levels for Rutland County, Vermont.

Rutland		Month											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temp (°F)	2010's	19.3	21.7	29.4	41.9	55.3	61.9	68.0	65.9	59.9	48.1	35.5	26.3
	1980's	15.8	20.3	28.9	42.2	53.9	60.6	66.3	63.9	56.1	44.8	34.4	21.2
	Change	3.5	1.4	0.4	-0.3	1.4	1.3	1.7	2.0	3.8	3.3	1.1	5.1
Prec (")	2010's	2.9	2.7	3.0	3.8	4.4	5.2	4.3	4.5	3.6	4.9	2.7	3.9
	1980's	2.3	2.6	2.9	3.3	4.2	4.0	4.0	4.5	4.1	3.6	4.2	2.8
	Change	0.6	0.1	0.1	0.4	0.1	1.2	0.3	0.0	-0.6	1.3	-1.5	1.1
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

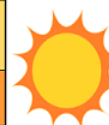


RUTLAND COUNTY



Table 23. Comparison of 1980's and 2010's average monthly temperatures and precipitation levels for Washington County, Vermont.

Washington		Month											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temp (°F)	2010's	16.8	19.4	27.2	40.2	54.7	60.5	66.8	64.7	58.5	46.6	33.8	23.7
	1980's	13.3	18.3	27.0	40.7	52.7	59.6	65.6	63.1	55.1	43.5	32.8	18.9
	Change	3.5	1.1	0.2	-0.6	2.0	0.9	1.2	1.6	3.3	3.1	1.0	4.7
Prec (")	2010's	2.5	2.8	3.0	3.9	4.4	6.0	4.6	4.0	3.6	4.7	2.9	3.9
	1980's	2.4	2.5	2.8	3.1	4.0	4.2	3.9	4.7	3.9	3.7	4.3	2.8
	Change	0.1	0.3	0.2	0.7	0.4	1.8	0.8	-0.7	-0.3	1.0	-1.4	1.0
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec



WASHINGTON COUNTY



Table 24. Comparison of 1980's and 2010's average monthly temperatures and precipitation levels for Windham County, Vermont.

Windham

		Month											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temp (°F)	2010's	20.5	22.8	30.7	42.7	55.7	62.3	68.6	66.1	60.4	48.8	35.9	27.1
	1980's	17.1	21.9	30.0	42.5	54.3	61.0	66.9	64.5	56.8	45.3	35.5	22.5
	Change	3.5	1.0	0.8	0.2	1.4	1.3	1.7	1.6	3.6	3.5	0.4	4.7
Prec (")	2010's	3.6	3.6	3.3	4.0	4.2	5.4	4.2	5.1	4.4	5.6	3.3	4.8
	1980's	2.8	3.6	4.0	4.5	4.5	4.5	4.4	3.8	3.7	3.9	4.7	3.3
	Change	0.7	0.0	-0.7	-0.6	-0.3	1.0	-0.1	1.3	0.7	1.6	-1.4	1.5
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

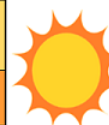


WINDHAM COUNTY



Table 25. Comparison of 1980's and 2010's average monthly temperatures and precipitation levels for Windsor County, Vermont.

















Windsor		Month											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temp (°F)	2010's	19.2	21.6	29.5	42.0	55.5	62.0	68.3	66.1	59.8	47.9	35.3	25.9
	1980's	15.4	20.4	29.0	42.0	53.8	60.6	66.5	64.1	56.1	44.5	34.4	20.8
	Change	3.8	1.2	0.5	0.1	1.8	1.4	1.7	2.0	3.8	3.5	0.9	5.1
Prec (")	2010's	2.9	2.9	2.9	3.9	4.1	5.1	4.5	4.6	3.6	5.0	2.8	4.2
	1980's	2.6	3.0	3.1	3.7	4.3	3.8	3.9	4.2	3.9	3.7	4.4	3.0
	Change	0.4	0.0	-0.3	0.2	-0.2	1.3	0.6	0.3	-0.3	1.3	-1.5	1.2
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec



WINDSOR COUNTY



Table 26. Monthly average temperature (degrees Fahrenheit) and precipitation (inches) differences between the 1980's and the 2010's for eight northeastern states.

		Month													
State		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
CT		3.4	0.7	1.0	1.0	2.0	1.5	2.3	1.8	3.5	3.7	0.8	4.6	°F	
		0.0	0.0	-0.3	-1.5	-0.8	0.1	-0.6	1.0	1.0	0.4	-1.7	1.1	"	
MA		3.5	0.9	0.9	1.3	2.3	1.6	2.3	1.9	3.6	3.4	0.9	4.6	°F	
		0.5	0.2	0.1	-1.1	-0.4	0.2	-0.6	1.0	1.1	1.3	-1.3	1.2	"	
ME		4.4	0.5	1.0	-0.3	1.3	0.7	1.7	2.1	3.7	3.0	1.2	4.5	°F	
		0.4	0.5	0.2	-0.1	0.1	1.2	-0.2	0.0	0.1	1.9	-1.1	1.6	"	
NH		3.8	1.0	0.8	0.4	1.9	1.2	1.7	1.9	3.7	3.4	1.1	2.8	°F	
		0.3	0.1	0.1	-0.5	-0.2	0.7	0.2	0.6	0.4	1.6	-1.3	1.5	"	
NY		2.9	0.9	0.7	0.0	2.6	1.5	1.5	1.3	3.0	3.1	0.8	4.4	°F	
		0.5	0.4	0.0	0.2	0.3	0.7	0.3	0.6	0.0	1.4	-1.0	0.8	"	
PA		1.9	0.6	1.0	1.4	2.6	1.9	1.4	0.8	2.6	2.6	0.0	4.1	°F	
		0.9	0.2	0.0	0.1	0.1	0.1	0.6	0.8	1.6	1.5	-1.0	1.1	"	
RI		3.3	0.8	1.2	1.6	2.3	1.5	2.4	1.9	3.2	3.6	1.1	4.8	°F	
		0.6	0.4	0.3	-1.0	-0.2	-0.2	-0.8	0.3	1.1	1.1	-1.5	1.1	"	
VT		4.0	1.4	0.7	-0.4	2.0	1.2	1.5	1.9	3.5	3.3	1.1	4.9	°F	
		0.2	0.2	0.0	0.4	0.2	1.4	0.4	0.0	0.0	1.1	-1.5	1.1	"	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		

darker shading = most significant increases