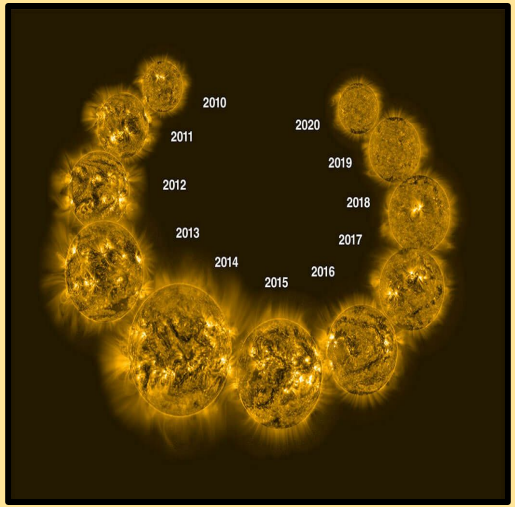
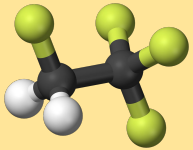
Eco Air Humidifier Thermostat

Bree Dorman

What is Climate Change?

Climate change refers to long-term shifts in temperatures and weather patterns. These shifts may be natural, such as through variations in the solar cycle.

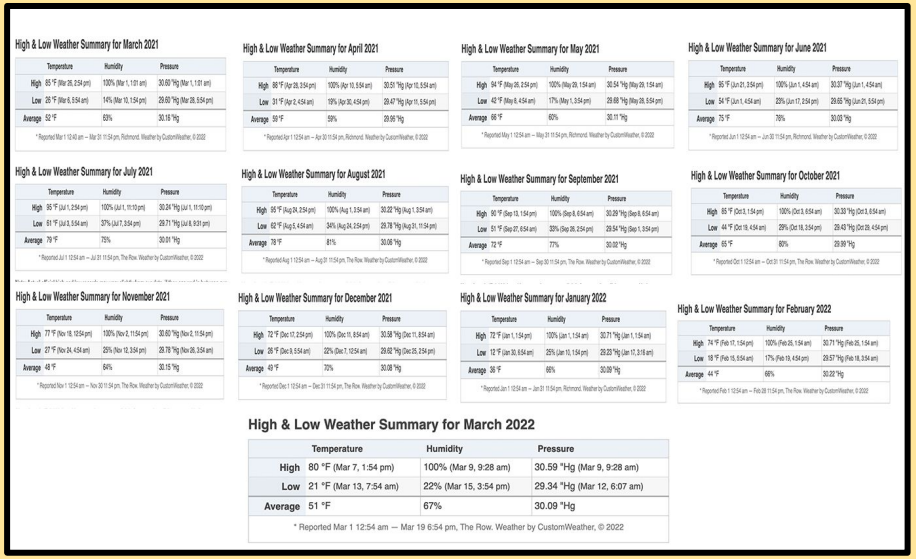




History

The climate of the Earth has altered over time. There have been seven cycles of glacial advance and retreat in the last 650,000 years, with the abrupt end of the last ice age approximately 11,700 years ago marking the beginning of the current climatic era – and of human civilization. The current altering climate is connected to growing levels of greenhouse gases in the atmosphere, such as carbon dioxide, methane, and hydrofluorocarbons, which insulate the earth and cause it to warm.

Context



High & Low Weather Summary for March 2021

	Temperature	Humidity	Pressure
High	85 °F (Mar 26, 2:54 pm)	100% (Mar 1, 1:01 am)	30.60 "Hg (Mar 1, 1:01 am)
Low	28 °F (Mar 6, 8:54 am)	14% (Mar 10, 1:54 pm)	29.60 "Hg (Mar 28, 3:54 pm)
Average	52 °F	63%	30.16 "Hg

* Reported Mar 1 12:40 am — Mar 31 11:54 pm, Richmond. Weather by CustomWeather, © 2022

High & Low Weather Summary for April 2021

	Temperature	Humidity	Pressure
High	88 °F (Apr 28, 3:54 pm)	100% (Apr 10, 6:54 am)	30.51 "Hg (Apr 10, 6:54 am)
Low	31 °F (Apr 2, 4:54 am)	19% (Apr 30, 4:54 pm)	29.47 "Hg (Apr 11, 6:54 pm)
Average	59 °F	59%	29.99 "Hg

* Reported Apr 1 12:54 am — Apr 30 11:54 pm, Richmond. Weather by CustomWeather, © 2022

High & Low Weather Summary for May 2021

	Temperature	Humidity	Pressure
High	94 °F (May 26, 2:54 pm)	100% (May 09, 1:54 am)	30.54 "Hg (May 29, 1:54 am)
Low	42 °F (May 8, 4:54 am)	17% (May 1, 3:54 pm)	29.68 "Hg (May 28, 8:54 pm)
Average	66 °F	60%	30.11 "Hg

* Reported May 1 12:54 am — May 31 11:54 pm, Richmond. Weather by CustomWeather, © 2022

High & Low Weather Summary for June 2021

	Temperature	Humidity	Pressure
High	95 °F (Jun 21, 3:54 pm)	100% (Jun 1, 4:54 am)	30.37 "Hg (Jun 1, 4:54 am)
Low	54 °F (Jun 1, 4:54 am)	23% (Jun 17, 2:54 pm)	29.65 "Hg (Jun 21, 6:54 pm)
Average	75 °F	76%	30.03 "Hg

* Reported Jun 1 12:54 am — Jun 30 11:54 pm, Richmond. Weather by CustomWeather, © 2022

High & Low Weather Summary for July 2021

	Temperature	Humidity	Pressure
High	95 °F (Jul 1, 2:54 pm)	100% (Jul 1, 11:10 pm)	30.24 "Hg (Jul 11, 11:10 pm)
Low	61 °F (Jul 3, 3:54 am)	37% (Jul 7, 3:54 pm)	29.71 "Hg (Jul 8, 9:31 pm)
Average	79 °F	75%	30.01 "Hg

* Reported Jul 1 12:54 am — Jul 31 11:54 pm, The Row. Weather by CustomWeather, © 2022

High & Low Weather Summary for August 2021

	Temperature	Humidity	Pressure
High	95 °F (Aug 24, 2:54 pm)	100% (Aug 1, 3:54 am)	30.22 "Hg (Aug 1, 3:54 am)
Low	62 °F (Aug 5, 4:54 am)	34% (Aug 24, 2:54 pm)	29.78 "Hg (Aug 31, 11:54 pm)
Average	78 °F	81%	30.06 "Hg

* Reported Aug 1 12:54 am — Aug 31 11:54 pm, The Row. Weather by CustomWeather, © 2022

High & Low Weather Summary for September 2021

	Temperature	Humidity	Pressure
High	90 °F (Sep 13, 1:54 pm)	100% (Sep 8, 6:54 am)	30.29 "Hg (Sep 8, 6:54 am)
Low	51 °F (Sep 27, 6:54 am)	33% (Sep 28, 2:54 pm)	29.54 "Hg (Sep 1, 3:54 pm)
Average	72 °F	77%	30.02 "Hg

* Reported Sep 1 12:54 am — Sep 30 11:54 pm, The Row. Weather by CustomWeather, © 2022

High & Low Weather Summary for October 2021

	Temperature	Humidity	Pressure
High	85 °F (Oct 3, 1:54 pm)	100% (Oct 3, 6:54 am)	30.33 "Hg (Oct 3, 6:54 am)
Low	44 °F (Oct 18, 4:54 am)	29% (Oct 18, 3:54 pm)	29.43 "Hg (Oct 28, 4:54 pm)
Average	65 °F	80%	29.99 "Hg

* Reported Oct 1 12:54 am — Oct 31 11:54 pm, The Row. Weather by CustomWeather, © 2022

High & Low Weather Summary for November 2021

	Temperature	Humidity	Pressure
High	77 °F (Nov 18, 12:54 pm)	100% (Nov 2, 11:54 pm)	30.60 "Hg (Nov 2, 11:54 pm)
Low	27 °F (Nov 24, 4:54 am)	25% (Nov 12, 3:54 pm)	29.78 "Hg (Nov 26, 3:54 am)
Average	48 °F	64%	30.15 "Hg

* Reported Nov 1 12:54 am — Nov 30 11:54 pm, The Row. Weather by CustomWeather, © 2022

High & Low Weather Summary for December 2021

	Temperature	Humidity	Pressure
High	72 °F (Dec 17, 2:54 pm)	100% (Dec 11, 8:54 am)	30.58 "Hg (Dec 11, 8:54 am)
Low	26 °F (Dec 9, 8:54 am)	22% (Dec 7, 12:54 am)	29.62 "Hg (Dec 25, 2:54 pm)
Average	49 °F	70%	30.08 "Hg

* Reported Dec 1 12:54 am — Dec 31 11:54 pm, The Row. Weather by CustomWeather, © 2022

High & Low Weather Summary for January 2022

	Temperature	Humidity	Pressure
High	72 °F (Jan 1, 1:54 pm)	100% (Jan 1, 1:54 am)	30.71 "Hg (Jan 1, 1:54 am)
Low	12 °F (Jan 30, 8:54 am)	25% (Jan 10, 1:54 pm)	29.23 "Hg (Jan 17, 3:18 am)
Average	38 °F	66%	30.09 "Hg

* Reported Jan 1 12:54 am — Jan 31 11:54 pm, Richmond. Weather by CustomWeather, © 2022

High & Low Weather Summary for February 2022

	Temperature	Humidity	Pressure
High	74 °F (Feb 17, 1:54 pm)	100% (Feb 26, 1:54 am)	30.71 "Hg (Feb 25, 1:54 am)
Low	18 °F (Feb 15, 8:54 am)	17% (Feb 19, 4:54 pm)	29.57 "Hg (Feb 18, 3:54 am)
Average	44 °F	68%	30.22 "Hg

* Reported Feb 1 12:54 am — Feb 28 11:54 pm, The Row. Weather by CustomWeather, © 2022

High & Low Weather Summary for March 2022

	Temperature	Humidity	Pressure
High	80 °F (Mar 7, 1:54 pm)	100% (Mar 9, 9:28 am)	30.59 "Hg (Mar 9, 9:28 am)
Low	21 °F (Mar 13, 7:54 am)	22% (Mar 15, 3:54 pm)	29.34 "Hg (Mar 12, 6:07 am)
Average	51 °F	67%	30.09 "Hg

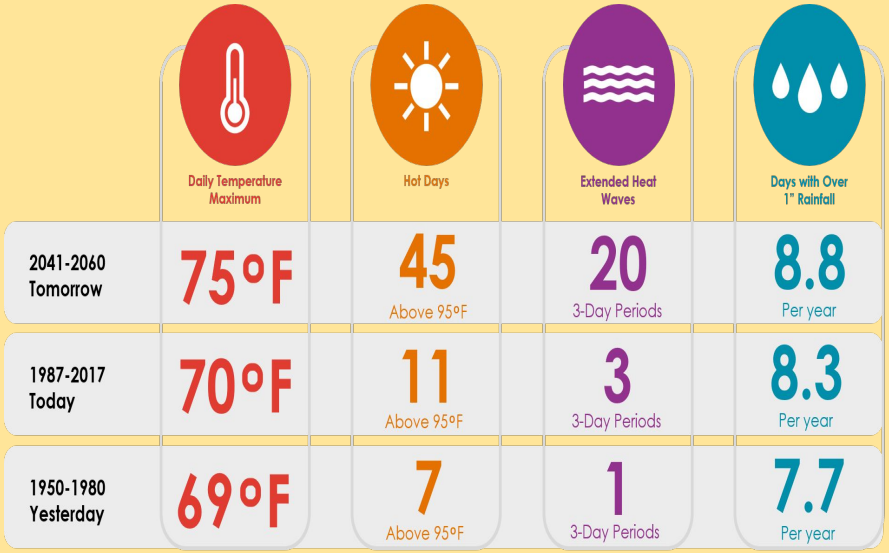
* Reported Mar 1 12:54 am — Mar 19 6:54 pm, The Row. Weather by CustomWeather, © 2022

Temperature, Humidity, and Pressure from March 2021 to March 2022 in Richmond, Virginia

Richmond will see greater temperatures, longer heat waves, and more severe rain events. The majority of these climatic shifts are due to minute fluctuations in Earth's orbit that alter the quantity of solar energy our planet gets. These changes in Richmond's environment might have serious consequences for citizens, the community, and the government. These consequences might include bodily harm and disease, property damage and loss, service delivery delays or disruptions, and a financial hardship.

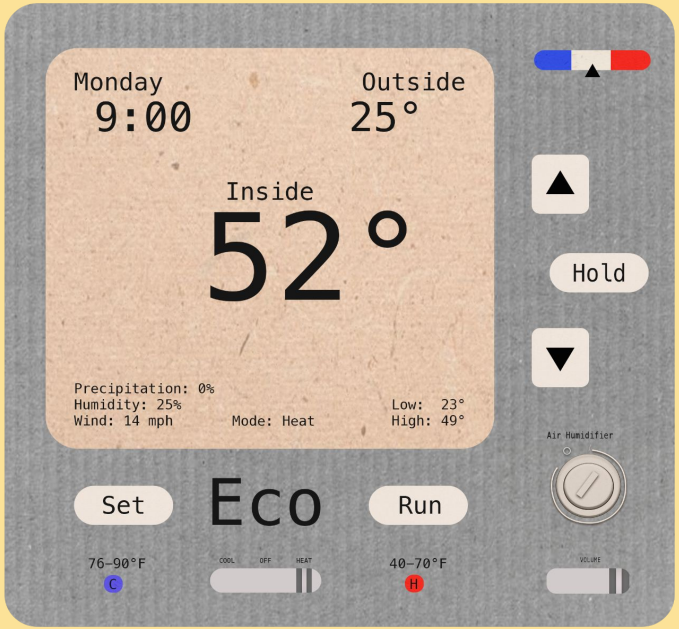
Statement

Climate change is produced by rising quantities of greenhouse gases in the atmosphere and can have an influence on how Richmonders live by generating unpredictable weather and repercussions such as bodily injury and sickness, property damage and loss, and so on... Temperatures are projected to rise as a result of climate change. Climate change is a critical issue that can be mitigated by conserving energy, reducing, reusing, repairing and recycling, and changing your home's energy source.



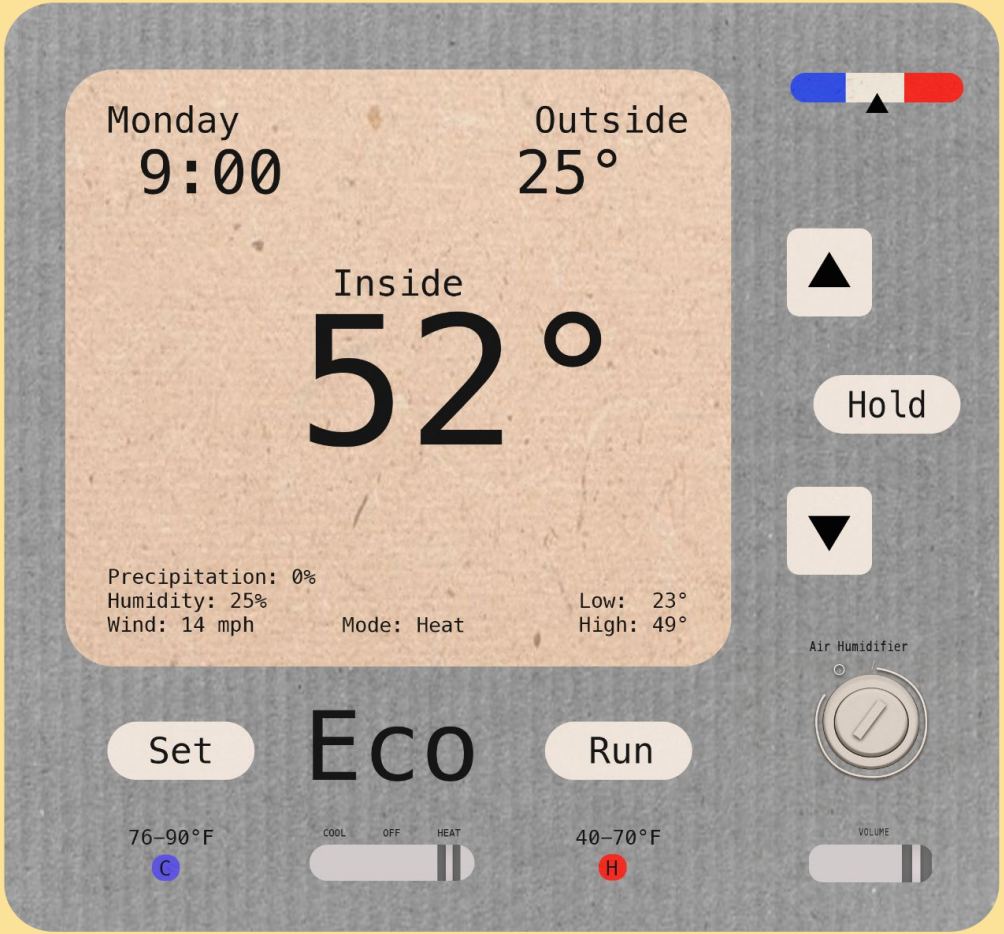
The difference in temperature from past and future predictions of what the weather will be like in Richmond, Virginia.

What is the Eco Air Humidifier Thermostat?



Materials: The main material will be constructed out of recycled materials and other eco-friendly materials.

The Eco Thermostat is a thermostat that will help reduce climate change. The thermostat will alert you when you go over the recommended setting of heating and cooling with an alert noise and blinking lights for 10 seconds. The red lights are when it's under and over the recommended settings. The temperature, precipitation, humidity, and wind will also display the current temperature outside. The thermostat also include a humidifier which can help during the dry seasons and breathing.


Monday
9:00
Outside
25°
Inside
52°
Hold
Precipitation: 0%
Humidity: 25%
Wind: 14 mph
Mode: Heat
Low: 23°
High: 49°
Air Humidifier
Set
Eco
Run
76–90°F
C
COOL
OFF
HEAT
40–70°F
H
VOLUME

Works Cited

https://www.rva.gov/sustainability/climate-change

https://www.timeanddate.com/

https://climate.nasa.gov/evidence/

https://www.un.org/en/actnow/ten-actions#unplug