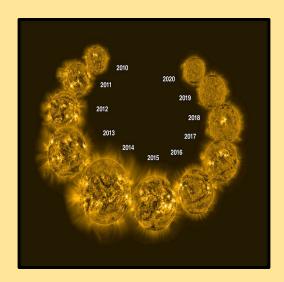
Eco Air Humidifier Thermostat

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

ligh & Low Weather Summ	ilialy for march 20		High & Low Weather Su	mmary for April 202	1	High & Low Weather Sum	mary for May 2021		High & Low Weather Su	nmary for June 20	21
Temperature	Humidity	Pressure	Temperature	Humidity	Pressure	Temperature	Hunidity	Pressure	Temperature	Hunidity	Pressure
High 85 °F (Nor25, 254 pm)	100% (Mar 1, 191 am)	30.60 "Hg (Mar 1, 1.01 am)	High 881F (Apr 28, 354 pm	100% (Apr 10, 554 am)	30.51 "Hg (Apr 10, 554 an)	High 94°F (May 26, 254 pm)	100% (May 29, 154 am)	30.54 "Hg (May 29, 1.54 am)	High 95°F (Jun 21, 354 pm	100% (Jun 1, 454 am)	30.37 "Hg (Jun 1, 454 an)
Low 26 °F (War 6, 854 am)	14% (Mar 10, 1.54 pm)	29.60 "Hg (Mar 28, 5:54 pn)	Low 31 °F (Apr 2, 454 am)	19% (Apr 30, 454 pm)	29.47 "Hg (Apr 11, 5:54 pn)	Low 42°F (May 8, 454 an)	17% (May 1, 354 pm)	29.68 "Hg (May 28, 554 pm)	Low 54°F (Jun 1, 454 am)	23% (Jun 17, 254 pm)	29.65 "Hig (Jun 21, 554 pm)
Average 52 °F	63%	30.15 "Hg	Average 59°F	59%	29.96 "Hg	Average 66 °F	60%	30.11 "Hg	Average 75 °F	78%	30.03 "Hig
*Regarded Mar 1 12-kD am — Mar 31 11 S4 pm, Richmond, Weather by Custon Weather, © 2002			* Regarded Apr 1 1254 am — Apr 30 1154 pm, Richmond, Neather by DuscomNeather, 0 2022			* Reported May 1 1254 am — May 31 1154 pm, Richmond, Weather by Customilitarber, © 2002			* Reported Jun 1 1254 am — Jun 30 1154 pm, Richmond, Weather by Custon Weather, © 2002		
High & Low Weather Summary for July 2021			High & Low Weather Summary for August 2021			High & Low Weather Summary for September 2021			High & Low Weather Summary for October 2021		
Temperature	Humidity	Pressure	Temperature	Hunidity	Pressure	Tencerature	Humidity	Pressure	Temperature	Hunidity	Pressure
High 95 °F (Jul 1, 254 pm)	100% (Jul 1, 11:10 pm)	30.24 "Hg (3u/ 1, 11:10 gm)	High 55°F (Aug 24, 254 pm)	100% (Aug 1, 254 am)	30.22 Hg (kg 1.354 an)	High 90 °F (Sep 13, 154 pm)	100% (Sep 8, 654 am)	30.29 "Hg (Sep 8, 654 am)	High 85°F (Oct 3, 154 pm	100% (Oct 3, 654 am	30.33 "Hg (Oct 3, 654 am
	37% (Jul 7, 354 pm)	29.71 "Hg (Jul 8, 931 pm)	Low 62 F (Aup.S. 454 an)	34% (Aug 24, 254 gm)	29.78 "Hg (kup 31, 11.54 pm)	Low 51 °F (Sep 27, 654 am)	33% (Sep 38, 254 pm)	29.54 "Hg (Sep 1, 3.54 pm)	Low 44 °F (Oct 19, 454 a)	29% (Od 18. 354 on	29.43 "Hg (0ct 29, 454 p
Low 61 °F (3ul 3, 554 am)	ar re (au r, aus pro)	men i ud bend ner had	LOW OL 1 (roys, 15181)					28:54 "Hg (56) 1, 3:54 (81)	PAGE -24 1 Door 10' 479-81		
Low 61 °F (Jul 3, 554 am) Average 79 °F	75%	30.01 'Hg	Average 78 F	81%	30.06 Hg	Average 72 °F	77%	29:54 "Hg (SID 1, 3:54 pt) 30:02 "Hg	Average 65 °F	80%	29:39 "Hg
Average 79 °F	75% 121 11 54 pm, The Row Weather	30.01 °Hg by CustomReather, 0.2002	Average 78 °F *Reported-Aug 1 1254 am —	81% Aug St 1154 pm, The Row Weath	30.06 "Hg er by Customiliteather, 0.2552	Average 72 °F	77% p 30 11.54 pm, The Row, Weath	30:32 "Hg x by CusonWeather, 0:2032	Average 65 °F		29:39 "Hg after by Custon/Weather, 9:2022
Average 79 °F	75% 121 11 54 pm, The Row Weather	30.01 °Hg by CustomReather, 0.2002	Average 78 F	81% Aug St 1154 pm, The Row Weath	30.06 "Hg er by Customiliteather, 0.2552	Average 72 F	77% p 30 11.54 pm, The Row, Weath	30:32 "Hg x by CusonWeather, 0:2032	Average 65 °F	Oct 31 1154 pm, The Row life ary for February 2	ather by Custon/Weather, © 2002
Average 79 °F *Reported Jul 1 1254 an — Jul High & Low Weather Sumr	75% Izt II 54 pn, The Row Weather many for November Bunidity	30.04 "Hg by CustomReather, 0.2002 2021	Average 78 °F **Reported Aug 1 1254 am — High & Low Weather Sun	81% Aug St 1154 pm, The Rose West namery for December	30.06 Hg or by CustomWeather, 0.2022 2021	Average 72 °F	77% p 30 11 54 pm, The Row Weath many for January 20 Humidity	30 02 °Hg or by Custon Physites, 0 2000 22	Average 65°F * Apporte Oct 1/254 an High & Low Weather Summ Temperature	Gest 1154 pm, The Row Williams for February 2	ather by Custon/Neather, 0 2022
Average 79 °F	75% Izt II 54 pn, The Row Weather many for November Bunidity	30.04 °Hg by CustonWasher, 0.2022 2021 Pressure	Average 78 F **Reported-Aug 1 1254 on — High & Low Weather Sun Temperature	\$1% Aug 51 11.54 ps. The Rox Weeth	30.06 Hg 30.06 Hg 2022 2021 Pressure	Average 72 °F	77% p 30 11.54 pm, The Row Weeth mary for January 20 Humidity 100% (Jan 1, 1.54 am)	30 02 °Hg or by Custon/Haster, 0 2022 Pessure	Average 55 °F	Oct 31 11 S4 pm, The Rox No ary for February 2 Runidity 100% (Feb 28, 154 am)	ather by Custon/Mather, 6 2002 Pressure 30.71 'Hg (Feb 25, 1.54 am)
Average 79°F *Reported Jul 1254 on – Jul High & Low Weather Summ Temperature High 77°F (for 18, 1254 pn)	75% 121 11 54 pn, The Row Weather mary for November Humidity 100% (Nov 2, 1154 pn)	30.61 'Hg by Cutumilitative, 0.0002 2021 Pressure 30.60 'Hg (Nov. 2.11.54 pm)	Average 78 °F *Reported Aug 1 1254 un — High & Low Weather Sun Temperature High 72 °F (3ec 17, 254 pn)	\$1% Aug 31 11:54 pm. The Row. Worth mmary for December Humidity	30.06 Hg or by CustomHeather, 0 2002 2021 Pressure 30.58 Hg (Dec 11, 854 am)	Average 72 °F *Reported Step 1 12 54 am — Ste High & Low Weather Summ Temperature High 72 °F (Jan 1, 154 pm)	77% 93 11-54 pm, The Row Weath mary for January 20 Runkithy 100% (an 1, 154 an) 25% (Jan 10, 154 pn)	30.02 Hg or by CustomWaster, 0.2022 222 Pessure 30.71 'Hg (Jan 1, 154 an)	Auroge 65°F *Reported to 11254 an High & Low Weather Summ Temperature 18tgh. 74°F (Feb 11, 154 pn) Low 18°F (Feb 15, 554 an)	Oct 31 1154 pm, The Row, No ary for February 2 Humidity 100% (Feb 28, 154 am) 17% (Feb 18, 454 pm)	1022 Pressure 30.71 "Hg (Feb 25, 1.54 am) 28.57 "Hg (Feb 36, 3.54 am)
Average 79 °F *Reported Jul 1 1254 am — Jul *Inigh & Low Weather Summ Temperature High 77 °F (Nov 18, 1254 pm) Law 27 °F (Nov 18, 4554 sm)	75%. 21 1154 pn, The Row, Weather 22 1154 pn, The Row, The R	30.81 "Hg 2021 Pressure 30.60 "Ng (Nov. 2, 11.54 pm) 22.75 "Ng (Nov. 2, 11.54 pm) 30.15 "Ng (Nov. 2, 11.54 pm) 30.15 "Ng	Average 78 °F *Reported Aug 11254 on — *High & Low Weather Sun Temperature High 72 °F (Not 31,254 pn) Low 26 °F (Not 9, 554 an) Average 43 °F	81% Aug 31 1154 pm, The Row, Weath mmary for December Humidity 100% (Doc 11, 854 am) 22% (Doc 7, 1254 am)	\$0.06 °Hg or by Customilianther, 0 2022 2021 Pressure 30.56 °Hg (Dec 11, 854 am) 20.62 °Hg (Dec 25, 254 pm) 30.08 °Hg	Average 72 °F *Reported Step 1 12 54 am — Ste High & Low Weather Summ Temperature High 72 °F (Jun 1, 154 pm) Low 12 °F (Jun 3), 854 am)	77% p 30 11.54 pm, The Roin Weeth mary for January 20 Remidity 100% (Jan 1, 1.54 an) 25% (Jan 10, 1.54 pn) 66%	50.02 "Hg 1	Average 55 °F	Oct 31 1154 pm, The Row, No. ary for February 2 Rundshy 100% (Feb 23, 154 am) 17% (Feb 13, 454 pm) 66%	2022 Pressure 30.71 "Hg (Feb 25, 1.54 am) 20.52 "Hg (Feb 18, 3.54 am) 30.72 "Hg (Feb 18, 3.54 am)
Average 19 °F *Reported Jul 1 1254 am — Jul ligh & Low Weather Sumr Temperature High 77 °F (Nov. 18, 1254 pm) Low 27 °F (Nov. 24, 454 am) Average 43 °F	75%. 21 1154 pn, The Row, Weather 22 1154 pn, The Row, The R	30.81 "Hg 2021 Pressure 30.60 "Ng (Nov. 2, 11.54 pm) 22.75 "Ng (Nov. 2, 11.54 pm) 30.15 "Ng (Nov. 2, 11.54 pm) 30.15 "Ng	Average 78 °F *Reported Aug 1 7254 on — High & Low Weather Sun Temperature Migh 2 °F (Dir 2, 254 an) Low 25 °F (Dir 2, 554 an) Average 43°F *Reported One 1 7254 an — C	81% Aug 81 11:54 pm, The Row, Wood 11:55 pm, The Row, Wood 11:55 pm, The Row, Wood 11:50 pm, The Row, Wood 11:55 pm, The Row,	30.06 Yeg or by Controllerative C 2002 2002 Pressure 30.38 Yeg (Dec 11, 854 am) 28.62 Yeg (Dec 25, 254 pm) 30.08 Yeg ye Controllerative C 2002	Average 72 °F *Reported Sign 11234 am – Sign High & Low Weather Summ Temperature High 72 °F (Jin 1, 154 pm) Low 12 °F (Jin 10, 554 am) Average 35 °F	77% p 30 11.54 pm, The Roin Weeth mary for January 20 Remidity 100% (Jan 1, 1.54 an) 25% (Jan 10, 1.54 pn) 66%	50.02 "Hg 1	Average 55 °F *Reported On 19254 am High & Low Weather Summ Temperature High X *P (Fig. 11, 154 pm) Low 18 °F (Fig. 11, 154 pm) Average 44 °F	Oct 31 1154 pm, The Row, No. ary for February 2 Rundshy 100% (Feb 23, 154 am) 17% (Feb 13, 454 pm) 66%	2022 Pressure 30.71 "Hg (Feb 25, 1.54 am) 20.52 "Hg (Feb 18, 3.54 am) 30.72 "Hg (Feb 18, 3.54 am)
Average 79 °F *Reported Ail 1 1254 am — Ail fligh & Low Weather Sumr Temperature High 77 °F (No. 18, 1254 pm) Low 27 °F (No. 24, 454 am) Average 43 °F Average 43 °F	75%. 21 1154 pn, The Row, Weather 22 1154 pn, The Row, The R	30.81 "Hg 2021 Pressure 30.60 "Ng (Nov. 2, 11.54 pm) 22.75 "Ng (Nov. 2, 11.54 pm) 30.15 "Ng (Nov. 2, 11.54 pm) 30.15 "Ng	Nowage 29 T ** ** ** ** ** ** ** ** ** ** ** ** *	81% Aug 81 11:54 pm, The Row, Wood 11:55 pm, The Row, Wood 11:55 pm, The Row, Wood 11:50 pm, The Row, Wood 11:55 pm, The Row,	30.06 Yeg or by Controllerative C 2002 2002 Pressure 30.38 Yeg (Dec 11, 854 am) 28.62 Yeg (Dec 25, 254 pm) 30.08 Yeg ye Controllerative C 2002	Average 72 °F *Record for 11 264 an — Se High & Low Weather Summ *Record for 11 264 an — Se High *Low To the 1.54 proj Lev 11 °F (an 1.54 proj Average 38 °F *Record for 11 254 an — An 1 *Tor March 2022	77% p 30 11.54 pm, The Roin Weeth mary for January 20 Remidity 100% (Jan 1, 1.54 an) 25% (Jan 10, 1.54 pn) 66%	50.02 "Hg 1	Average 55 °F *Reported On 19254 am High & Low Weather Summ Temperature High X *P (Fig. 11, 154 pm) Low 18 °F (Fig. 11, 154 pm) Average 44 °F	Oct 31 1154 pm, The Row, No. ary for February 2 Rundshy 100% (Feb 23, 154 am) 17% (Feb 13, 454 pm) 66%	2022 Pressure 30.71 "Hg (Feb 25, 1.54 am) 20.52 "Hg 30.72 "Hg 30.72 "Hg
Average 19 °F *Reported Jul 1 1254 am — Jul ligh & Low Weather Sumr Temperature High 77 °F (Nov. 18, 1254 pm) Low 27 °F (Nov. 24, 454 am) Average 43 °F	75%. 21 1154 pn, The Row, Weather 22 1154 pn, The Row, The R	30.81 "Hg 2021 Pressure 30.60 "Ng (Nov. 2, 11.54 pm) 22.75 "Ng (Nov. 2, 11.54 pm) 30.15 "Ng (Nov. 2, 11.54 pm) 30.15 "Ng	Awaye 78 Y **Remoteling 11954 on - **High & Low Weether Sun Reportan Rep. 72 Y Det 1254 on Low 36 Y Det 554 on Awaye 40 Y **Remoteling 11954 on - **High & Lov	81% Nag 51 1154 pm, The Rose World Interpretation of the Rose World Interpretation of the Rose World Interpretation of the Rose Rose Interpretation of the Rose Rose Rose Interpretation of the Rose Rose Rose Interpretation	30.06 Yg v ty Cuberillane, 0.2022 2021 Pressure 30.58 Yg (bot 11,854 an) 26.82 Yg (bot 25,254 pn) 30.08 Yg vy Cuberillane, 0.2022 Summary 11 Hum	Aways 12 °F **Report for 12 S at — To High & Low Weather Sum Report to Re	77% pp. 70 Film. Weather Park Washington (1974) and 1975 pp. 70 Film. Weather Park Washington (1974) pp. 70 Film. (1974) pp. 7	30:02*Hg vrly CustorVisition, 0:202 22 Pressure 77 'Hg (Jan 1, 154 am) 22:27 'Hg (Jan 1, 34 am) 30:37 'Hg (Jan 1, 34 am) 30:37 'Hg (Jan 1, 34 am)	Average 55 °F *Reported On 19254 am High & Low Weather Summ Temperature High X *P (Fig. 11, 154 pm) Low 18 °F (Fig. 11, 154 pm) Average 44 °F	Oct 31 1154 pm, The Row, No. ary for February 2 Rundshy 100% (Feb 23, 154 am) 17% (Feb 13, 454 pm) 66%	2022 Pressure 30.71 "Hg (Feb 25, 1.54 am) 20.52 "Hg 30.72 "Hg 30.72 "Hg
Average 19 °F *Reported Jul 1 1254 am — Jul ligh & Low Weather Sumr Temperature High 77 °F (Nov. 18, 1254 pm) Low 27 °F (Nov. 24, 454 am) Average 43 °F	75%. 21 1154 pn, The Row, Weather 22 1154 pn, The Row, The R	30.81 "Hg 2021 Pressure 30.60 "Ng (Nov. 2, 11.54 pm) 22.75 "Ng (Nov. 2, 11.54 pm) 30.15 "Ng (Nov. 2, 11.54 pm) 30.15 "Ng	Awaye 78 Y **Reproduction 1784 on - High & Low Weether Sum hospentum sign 72 Y Box 1,84 ya i Low 26 Y Box 1,84 ya i Awaye 40 Y **Reproduct 1584 on - High & Lov High 81	\$1% Indept 1155 pn. The Real World Indept 1155 pn. The Real World Indept 1155 pn. The Real World Indept 1155 pn. The Real Indept 125% (Die 1, 1254 an) 27% Weather Veather Indept 1156 pn. The Real Indept Indept 1156 pn. The Real Washer Veather Indept 1156 pn. The Real Washer Indept 1156 pn. The Real Indept Indept 1156 pn. The Real Indept Indept 1156 pn. The Real Indept In	30.06 Yg or ty Cuterificative C 2002 2021 Pressure 30.08 Yg (bot 11,854 an) 2082 Yg (bot 28,554 pn) 30.08 Yg Cuterificative C 2002 Summary 1 Hum 1 pm) 10.00%	Amongs 17 9 **Reprosides 1254 at— Sel High & Low Weether Sunn Serpendae High & Low Weether Sunn Serpendae High T First 158-pr) Low 179-and 158-pr Low 179-and 158-pr Amongs 10 7 **Reprosides 158-pr Low 199-and 158-pr Amongs 10 7 **Reprosides 158-pr Low 199-and	77% pp 30 11.54 pn, The Poin Whith Marry for January 20 Humidity 100% (Jan 1, 1.54 an) 25% (Jan 10, 1.54 pn) 66% 11.54 pn, Richmord, Weather Pressure	2002 "Hg vrly CustorValants, 0.2020 22 Pressure 77 "Ng (Jan 1, 154 am) 22 27 Ng Lan 1, 354 am) 30 30 Ng (Lan 1, 354 am)	Average 55 °F *Reported On 19254 am High & Low Weather Summ Temperature High X *P (Fig. 11, 154 pm) Low 18 °F (Fig. 11, 154 pm) Average 44 °F	Oct 31 1154 pm, The Row, No. ary for February 2 Rundshy 100% (Feb 23, 154 am) 17% (Feb 13, 454 pm) 66%	2022 Pressure 30.71 "Hg (Feb 25, 1.54 am) 20.52 "Hg 30.72 "Hg 30.72 "Hg

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.

	Daily Temperature Maximum	Hef Days	Extended Heat Waves	Days with Over
2041-2060 Tomorrow	75°F	45 Above 95°F	20 3-Day Periods	8.8 Per year
1987-2017 Today	70°F	11 Above 95°F	3 3-Day Periods	8.3 Per year
1950-1980 Yesterday	69°F	Above 95°F	3-Day Periods	7.7 Per year

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.



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