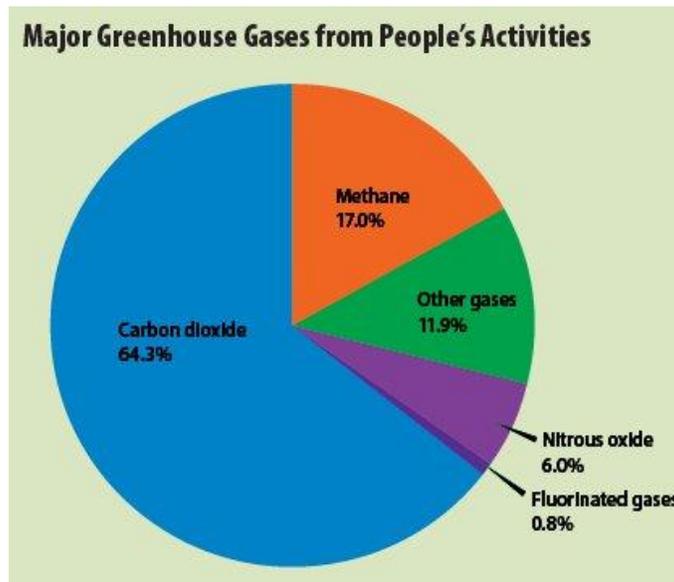


Environmental Committee 50 Ways Rockbridge Climate Understanding Survey

We are asking you to share your understanding of key concepts in the human caused climate change issue. Answer true, false, yes or no **ONLY** if you are convinced. Answer uncertain, otherwise. This is a survey of your understanding/opinion, not an academic test. It is important to recognize and understand the physical relationships highlighted by climate scientist that are considered problematic in order to inform effective personal choices as well as political and policy actions we can support. These questions highlight the concerns of our committee about human caused climate change. We want to know if you share these concerns with us. For further information regarding the questions, please contact our committee for resources to help with your discernment. Thanks for your participation.



Insulation impact of major greenhouse gases (EPA)

Greenhouse gases are gases that increase heat retention in the atmosphere. These include (rated by heat retention impact) carbon dioxide(CO₂)64%, methane(NH₄)17%, nitrous Oxide(NO₃)6%, refrigerants .8%. The questions focus on the carbon cycle of Carbon Dioxide. The same issues can be applied to Methane.

Circle the answer that represents your current understanding. Please add comments on content and suggestions.

1 Humans are causing the rise of concentration of carbon dioxide(CO₂) in the atmosphere.

True : Uncertain: False:

2 Humans are causing the rise of methane(CO₂) concentration in the atmosphere.

True : Uncertain: False:

3 The buildup of greenhouse gases (carbon dioxide, methane, nitrous oxides, refrigerants, others) in the atmosphere a problem.

True : Uncertain: False:

CO₂ emissions(addition to the atmosphere) - CO₂ Sequestration (removal of CO₂ from atmosphere) = Change in atmospheric concentration of CO₂.

Net CO2 Emissions occurs when CO2 emissions exceed CO2 sequestration. Atmospheric CO2 concentration rises. This is our current trend.

Net Zero CO2 Emissions occurs when CO2 emissions equal CO2 sequestration. Atmospheric concentration CO2 stays the same.

Net Sequestration CO2 Emissions occurs when CO2 emissions are less than CO2 sequestration. Atmospheric concentration of CO2 decreases.

4 The adverse heat retention impacts of CO2 in the atmosphere is increased as the concentration in the atmosphere rises.

True : Uncertain: False:

5 The heat retention impact of human greenhouse gas emissions causes thawing of the frozen tundra, releasing additional methane increasing (amplifies) the heat retention impact of human generated emissions alone.

True : Uncertain: False:

6 The heat retention impact of human greenhouse gas emissions causes the melting of white light reflective sea ice reducing light reflection into space and replaces surface with dark blue ocean that absorbs sun light converting to heat that increases (amplifies) atmospheric warming above human emissions alone.

True : Uncertain: False:

Opinion

7 Should our human economy limit CO2 emissions to be no more than CO2 sequestered to prevent the rise of CO2 concentration in the atmosphere?

Yes: Uncertain: No:

8 Should our human economy limit CO2 emissions to less than what can be sequestered to lower atmospheric concentration to a safe level (no amplifying affects)?

Yes: Uncertain: No:

9 If we recognize that we must limit greenhouse gas emissions to equal or less than what can be sequestered, should our collective license to emit safely be shared fairly?

Yes: Uncertain: No:

10 Do you believe people **can** adequately address human caused climate change?

Yes: Uncertain: No:

11 Do you believe people **will** adequately address human caused climate change?

Yes: Uncertain: No:

We will tabulate the results and post on a blog. Identifying yourself with your answers and or comments to the public is optional. If you approve, include your name. Otherwise, answering anonymously is also appreciated.

Please search for the truth so we can do right.