

Presentation on Climate action study group

To reduce the legacy carbon in the atmosphere

Proposed Motion for discussion:

Whereas the need for action in response to climate disruption is becoming more evident every season; and

Whereas Hamilton is seeking to do its part in reducing global heating effect of greenhouse gases, including carbon dioxide; and

Motion continued:

Whereas Hamilton and the world have set a goal to reduce CO2e emissions to net zero by 2050 and by 40% by 2030; and

Whereas this will require removal of massive tonnages of CO2e from the atmosphere by processes not yet invented; and

Whereas landuse is recognized by the IPCC as a major viable way to sequester carbon using ecosystem processes;

Therefore,

Be it resolved that ARAAC form a study group to assemble current knowledge from farm practice about soil carbon sequestration; and

Report on progress at each meeting until it has completed its task

Examples of reports on actual practice



Soil Solutions to Climate Problems - Narrated by Michael Pollan

Narrated by Michael Pollan To learn more visit: <http://soilsolution.org> A powerful solution to the climate crisis can be found right beneath our feet—in the soil. By harnessing the immense power of photosynthesis, we can convert atmospheric carbon, a problem, into soil carbon, a

4 min - Nov 19, 2015



Walter Jehne: Regenerating the Soil Carbon Sponge

Walter Jehne, former CSIRO Climate Scientist and Microbiologist, founder of Healthy Soils Australia, explains the principles and processes of regenerating the Soil Carbon Sponge during day two of an intensive workshop in 2016 at Lake Morey Resort in Vermont, USA. You can view the

119 min - Nov 22, 2017



SOIL CARBON COWBOYS

Meet Allen Williams, Gabe Brown and Neil Dennis - heroes and innovators! These ranchers now know how to regenerate their soils while making their animals healthier and their operations more profitable. They are turning ON their soils, enabling rainwater to sink into the earth rather than

12 min - Mar 6, 2018



Soil, Carbon, Water, Climate: Lessons from the Marin Carbon Project - Jeff Creque

Track C: Ecology and Economics of Grazing for Beef and Dairy. Session 2: Animal Impacts on Soil Health. Slide presentations and additional conference information is available at <https://www.sare.org/Events/Our-Farms-Our-Future-Conference>. Participants in this session will explore

31 min - Jul 9, 2018



Soil carbon -- Putting carbon back where it belongs -- In the Earth | Tony Lovell | TEDxDubbo

Tony Lovell will explain the reasoning behind how more green growing plants means more captured carbon dioxide – more water – more production – more biodiversity – more profit. Did you know that a 1% change in soil organic matter across just one-quarter of the World's land

21 min - Sep 10, 2011



Soil Organic Carbon – the treasure beneath our feet

<http://www.fao.org/soils-portal/en/> An animated illustration of soil organic carbon and its importance for climate action, food production and sustainable development Subscribe! http://www.youtube.com/subscription_center?add_user=FAOoftheUN Follow #UNFAO on social media! *

4 min - Mar 21, 2017



How to Manage Soil Nitrogen and Carbon Sequestration

In this webinar, originally recorded on 9/19/18 – John Kempf covers: * How to manage soil nitrogen and carbon sequestration for abundant microbial communities. * An in-depth explanation of the roles of water, oxygen, and soluble carbon in soil. * The limiting factor for building

48 min - Sep 21, 2018



Carbon Farming: Harnessing The Power of The Soil

John Wick, co-founder of the Marin Carbon Project, was just trying to find a way to get rid of weeds on his ranch when he stumbled upon a powerful climate change solution. He learned about an approach to farming helps sequester carbon in the soil. Credits: EXECUTIVE

5 min - Apr 2, 2019