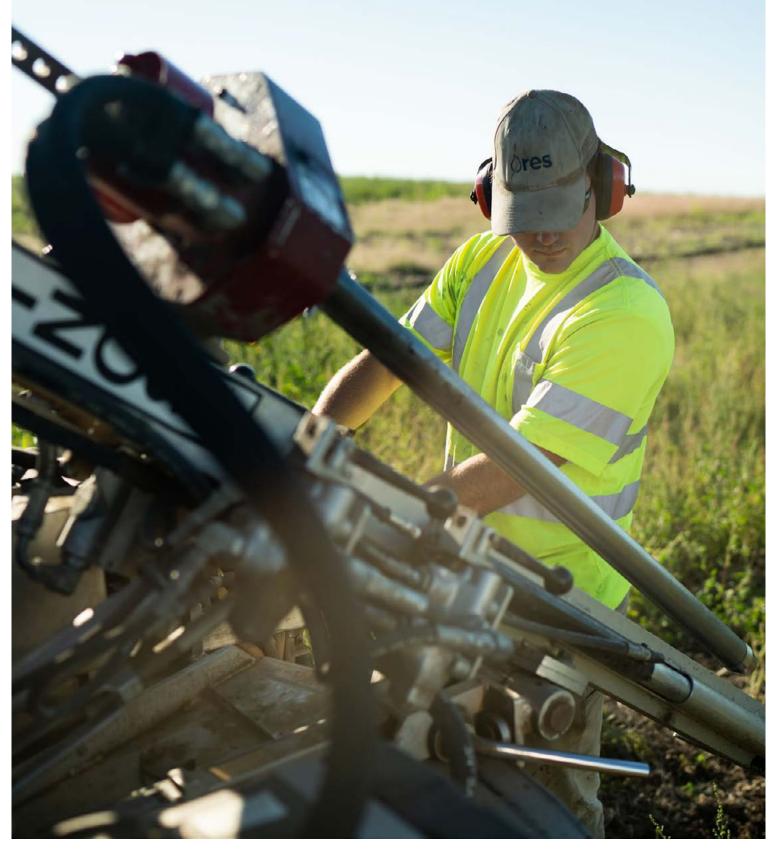
MAD AGRICULTURE



The **MISSION** of Mad Agriculture is to reimagine and restore our relationship with Earth through agriculture.

The **PURPOSE** of the Mad Agriculture Journal is to explore and create the new agrarian culture. It is dedicated to living the questions, trusting that in the living we will find the answers.

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Alexander Beal

Alexander Beal is a photographer based in Boulder, CO. His work has largely focused on exploration in the natural world in an effort to refine light and subject into an unobstructed expression that invokes a shared emotion. He is a graduate of University of Colorado Boulder and holds a BA in Philosophy. His work can be found at www.alexanderbeal.gallery

Brendan Davis

Brendan is navigating a path between adventure and humanity, telling stories of people and places that feel important. He is based in Boulder, CO, but often on the road living and running out of his mini-van. He has driven to borders, both North and South; paddled from source to sea, and traveled coast to coast. Brendan runs high peaks and swims in valleys. He visits cities, deserts and people that he misses.

Calla Rose Ostrander

Calla Rose Ostrander is a Waldorf graduate and political economist and lives on the western slope of the Colorado Rocky Mountains. She has her own small consulting business and works part-time as the Natural and Working Lands Climate Coordinator for the State of California. Her weekly radio show Rain & Shine about how the planet works and how people work with the planet can be heard at KVNF.org

Chelsea Gay

Chelsea has been working in agriculture for the past 12 years and on farms in Boulder county for the last 6; of her poetry work, she says, "words find me in the field wanting to take shape as poetry but I am often too busy, distracted, or exhausted to be the voice through which they find paper. I am always grateful for the time I do give to honor the poetics of planting onions and the creative muse that lies just below the surface of agricultural work".

Emily Payne

Emily is a writer focusing on the intersection of food, agriculture, health, and the environment. She's served as editor for sustainable food nonprofit Food Tank since 2015 and is currently Head of Product and Content at Manolin, a tech startup working to build more sustainable aquaculture systems. She's based in Denver, Colorado.

Emma Lietz Bilecky

Emma Lietz Bilecky was raised in Boulder, CO, and currently works as a Farm Fellow at Princeton Theological Seminary. She works with students to grow vegetables on a teaching farm. She also works with faith community leaders to map, build soil, and include land in religious and public life toward rematriation and regeneration.

Gregor Macgregor

Gregor MacGregor is a water attorney focused on environmental justice and agricultural land preservation. He currently serves as the Director of the Acequia Assistance Project, a pro bono legal service organization assisting traditional Hispanic farmers in southern Colorado. Gregor and his daughters opened Vulcan Mine Bakery from their home during quarantine and his wife serves as chief photographer of the venture.

Jacques Abelman

Jacques Abelman grew up between the Rockies, Appalachia, and the Jura mountains of eastern France. His work as a landscape architect seeks to celebrate the beauty of food and ecological systems, making them visible and incorporated into public space and infrastructure. He has taught and worked in Europe, The U.S., and South America.

Jordan Perkins

Jordan is a photographer based in Ashfield, Massachusetts. Jordan's photography focuses on flowers & clouds, people & animals, street-shots & landscapes. @ jordanarthurperkins.

Kirk Horton

Kirk Muir Horton is a director, cinematographer, and photographer, based out of Boulder, Colorado. He loves just about every animal out there, ill-fitting clothing (particularly wigs), and Liverpool FC. He wants to learn how to play the harmonica and doesn't drink coffee.

Kirsten Stoltz

Co-founder and director of the LRLC, Kirsten Stoltz has deep roots in the American Plains region, representing the fifth generation to born on the prairie. Her father's family settled in Joes, CO, buying a roadside motel in the 50s. Over the last 25 years Stoltz, a contemporary art curator and writer, has focused primarily on building interdisciplinary art projects that are experiential, collaborative and exist beyond institutional walls.

Maureen Hearty

Maureen Hearty lives in Joes, CO and is a co-founder and director of LRLC, leading community engagement and artist coordination. Hearty's community activist experience, in both urban and rural landscapes, builds connection, compassion and opportunity for diverse communities.

Natalie Deuschle

Natalie Deuschle is a writer living in Boulder, CO. She studied classical civilization and environmental studies at Colby College, contemplative studies at the Kripalu School for Yoga and Health and business administration at the University of Colorado-Boulder. Her writing has been featured in publications like Huff Post, the Aspen Journal of Ideas, The Frontier, and elsewhere.

Sean Bettles

Sean grew up in Ojai, California and attended Cal Poly, San Luis Obispo where he earned a degree in Agricultural Business. After graduation, Sean went to work on organic and regenerative farms for 6 years, and in 2021 started working for his family's avocado ranch and packinghouse in Carpinteria. Their focus is growing and packing healthy produce for the community with high standards in responsible business practices, while improving the health of our local ecosystem as well.

Stephen Smith

Growing up in North Carolina in an active family, Stephen spent most of his developmental days outside exploring his grandmother's farm, the woods, the streams, and the lakes of this bio-diversified Southern landscape. Stephen received a Bachelor of Fine Art from the University of Colorado while exploring the Rocky Mountains. Stephen's fascination with hemp goes back over 20 years when he wrote his high school research paper on the many uses of hemp. He has since founded Onda, a hemp & herb company that exists to heal the people, empower farmers, and support the regeneration of the Earth.





Food production systems have expanded to meet food demand, leading to the excessive discharge of agrochemicals, organic matter, drug residues, sediment, saline, and other contaminants into local waterways. Their release harms aquatic ecosystems, human health, and economic sectors (FAO, 2017).

Pesticide accumulation is a long-recognized stressor for human health and water quality and has led to the banning of certain chemicals like DDT. Other agricultural practices, like the use of synthetic fertilizers, monocropping, and specific irrigation processes, also negatively impact the health of our waterways and ocean. A combination of these practices and other stressors has led to the eutrophication of lakes, reservoirs, ponds, and coastal waters. Eutrophication, the excessive accumulation of nutrients in water bodies, impacts water

sources' biodiversity and recreational activities. It also affects water quality and the bottom line for many economic sectors. Countries within the Organization for Economic Co-operation and Development (OECD) - which includes the US have estimated environmental and social costs of water pollution from agricultural methods to exceed billions of dollars annually (FAO, 2017).

The social cost of water pollution affects many Americans, including Iowa farmer Seth Wakins, whose family's health was directly affected by the impacts of conventional farming on local water quality. Seth, embracing his grandmother's legacy (Jessie Field Shambaugh, founder of 4-H), decided to transition to conservation farming practices and embrace the 4-H motto of "To make the best better." Now, Seth works with various groups, including the Inland Ocean Coalition,

to spread awareness to the public and other producers about our primary defense against harsh storms (UMass Amherst). the importance of prioritizing the health of our land and watersheds.

The weakening of natural storm defenses is just one impact on human safety caused by nutrient overload. Another impact Water quality deterioration from agricultural practices is comes from the toxic bacteria released from the harmful algae not only a concern for farmers who want to minimize their blooms brought on by eutrophication. The bacteria prevent environmental impacts. The health of water bodies impacts coastal economic and recreational activities because they all producers using water as an input in their production create respiratory problems for nearby communities (UMass processes. Currently, agriculture is responsible for 70% of Amherst). The bacteria also contribute to the dying off of maall global freshwater withdrawals (World Bank, 2020) and is rine species caused by the ecosystems' overall deterioration. The die-offs caused by oxygen depletion and toxic bacteria used for irrigation, crop cooling, fertilizer application, and have created an estimated 700 "dead zones" worldwide, one other agricultural practices. Any contaminants carried in the source water transfer into the production process. The Cenof the largest of which is located where the Mississippi River ter for Disease Control and Prevention (CDC) has noted that meets the Gulf of Mexico (Malone). the use of contaminated water in the production system af-As nutrient overloads facilitate eutrophication, oxygen depletion and toxic bacteria will continue to weaken the coastal

fects the quality of food crops and can lead to illness for those consuming the products. ecosystems that support our seafood and recreational economies. It will also undermine our storm defenses at a time when Climate change has become another concern for producers as global water demand increasingly outpaces freshwater supply, rising ocean temperatures are increasing storm intensities. straining traditional water allocation practices. The growing As these "dead zones" expand beyond our coastlines, they stress on global freshwater requires sectors to increase their will further impact the health of our ocean by contributing to water use efficiency by 25-40%, calling for systemic changthe expanding issue of ocean acidification (reduction in the es in food production (World Bank, 2020). The uncertainty pH of the ocean over an extended period of time). surrounding freshwater supply, combined with the impacts of contaminated source water on production, raises concerns The connections between our natural environments urge us for farmer incomes and the global food supply. to acknowledge how the decisions we make inland impact the

The environmental impacts of conventional agricultural practices extend beyond local water quality deterioration as their harmful effects flow downstream and impact the sensitive ecosystems at our coastlines.

The importance of acknowledging our interconnectedness is why Vicki Nichols Goldstein founded the Colorado Ocean The eutrophication of connected water bodies can lead to the Coalition in 2011, which transitioned to the Inland Ocean Codepletion of oxygen levels in coastal ecosystems. When oxyalition (IOC) in 2017. The Inland Ocean Coalition is a project gen levels drop, organisms begin to compete for the resource. of The Ocean Foundation and is dedicated to improving the Increasingly, algae win the battle for oxygen demand and prerelationships between the inland, the coasts, and the ocean by building land-to-sea stewardship. Vicki first saw the imporvent other key species from surviving. The drop in oxygen levels leads to the degradation of coral reefs, mangrove forests, tance of creating such a movement when her family relocated and other structural components of coastlines (Malone). The to land-locked Colorado. There, she was unable to find a comloss of these components facilitates the erosion of coastlines, munity organization with an inland focus on ocean issues and

health of our waterways and ocean. In turn, we are able to recognize how these impacts affect our interconnected communities and economies.

was determined to create an inland movement that educates communities on the importance of our ocean for the future of life on Earth. The IOC empowers communities to advocate for the ocean and works with its chapters and supporters around the country to convey to legislative leaders that we all have a stake in ocean protection, no matter where we live.

Over the years, the IOC has addressed a wide array of ocean issues and has recently taken on the growing concern of nutrient pollution in ocean ecosystems. The IOC was inspired to address the issue by the film Ocean Frontiers: The Dawn of New Era in Ocean Stewardship. In the film, Iowa farmers are taken to the Gulf of Mexico to experience the highlights of Mississippi River fishing and the consequences of uncontrolled agricultural runoff. The film echoes several of IOC's key messages, including the idea that everyone has a stake in protecting the ocean and that inlanders have the power to be some of the greatest ocean champions.

Inspired by the film to address the impacts of nutrient pollution, IOC has developed a campaign that focuses on the role of land practices in ocean health. Created in 2021, the IOC's Ocean-Friendly Farming (OFF) campaign works to build stewardship for watershed and ocean health issues among communities and landowners. The campaign brings awareness to the effects of land-use practices on the environment and aims to inspire individuals, communities, and landowners to actively support and use land practices that protect watershed and ocean health.

To encourage individuals and communities to support ocean-friendly land practices, the IOC has created and shared

material on its website about conservation farming benefits. In addition, the IOC developed a list of Ocean-Friendly Land Practices that have either a direct or indirect benefit to watershed and ocean health.

The OFF campaign emphasizes education and inland stewardship amongst landowners, farmers, and ranchers. However, the IOC is working towards building the OFF campaign into an interactive platform for inland community support and legislative advocacy in favor of policy changes that prioritize land practices that support healthy soil and a healthy ocean.

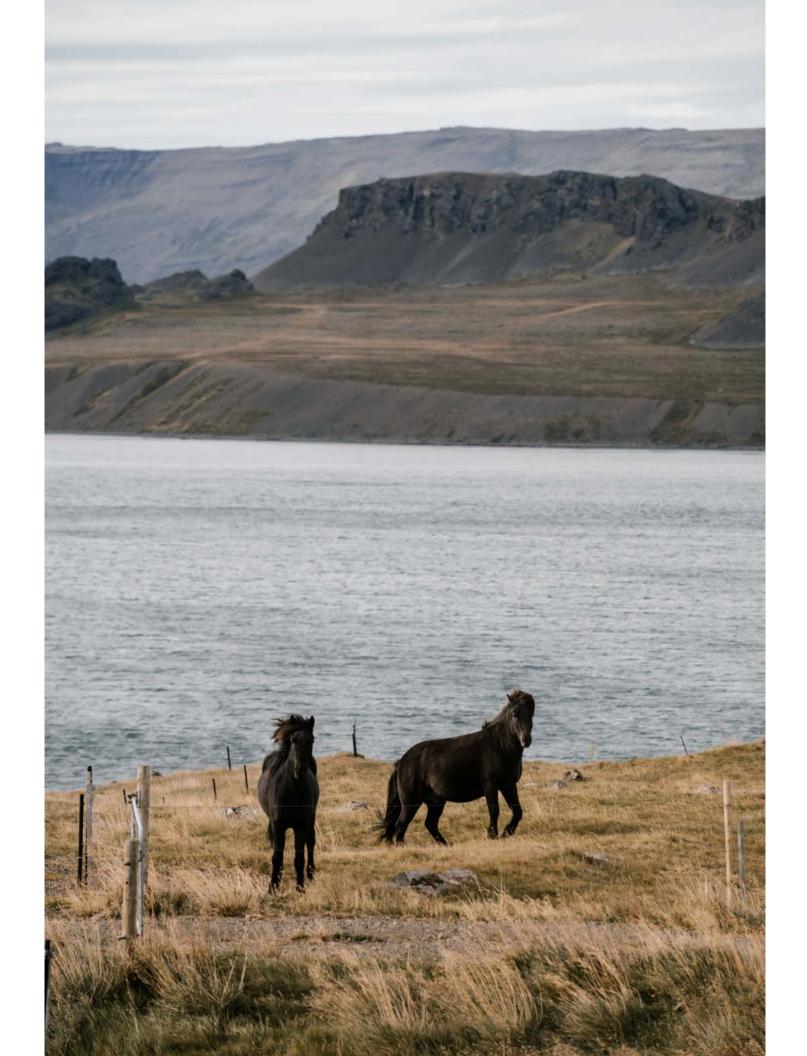
The IOC has also created a growing list of endorsed producers from across the nation who use ocean-friendly land practices in their production process. This list serves to encourage individuals to purchase from these producers in support of their work. The endorsed producers are part of the campaign's Ocean-Friendly Farming community. This community is the IOC's way of recognizing and sharing the stories of inland ocean champions who have dedicated themselves to using ocean-friendly land practices.

The Inland Ocean Coalition is excited to become involved in this aspect of watershed and ocean health. We look forward to the solutions and partnerships we will witness as inland ocean champions tackle nutrient pollution.

If you, or someone you know, are interested in becoming a part of the Ocean-Friendly Farming campaign as either an educational partner or an Ocean-Friendly Farmer, please reach out to IOC Program and Outreach Manager, Melissa Jung, at melissa@inlandoceancoalition.org.



The Inland Ocean Coalition (IOC) is a non-profit dedicated to improving the relationships between the inland, the coasts, and the ocean by building land-to-sea stewardship. IOC encourages inlanders to connect with the ocean and to advocate for its protection based on the truth that without a healthy blue planet, we can't have a healthy green one.



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