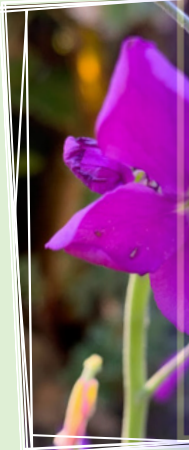


Linking Climate Change to Local Service

in San Diego



Land Acknowledgement:

We, as UCSD students, San Diego residents, and stewards of the land we reside on, not only acknowledge but respect the Kumeyaay Peoples who continue to allow our presence. We hope to grow our connection and love for the natural beings around us in the same way the Kumeyaay nation does. We thank both the land and its people for their continuous inspiration.

Who are we?

Anthropology Students in the course ANTH 110: Climate Change Seminar

What do we do?

Discuss and collaborate on ways to combat climate change in our individual lives.



Intro on Climate change:

An intricate web of abnormal changes are occurring all around the world because of humans' unsustainable ways of life. We use too much of the earth too quickly and with little respect, leading to weather anomalies, disappearing forests, unclean water, mass extinction, and much more.

So what...?

With the immense weight and scale of climate change, it often feels like we (you or I) can't do anything of substance. WE CAN! Start with this zine. We will direct you to some local San Diego organizations that allow you to directly combat climate change, one service at a time.

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Surfrider Foundation



MISSION STATEMENT



Ocean Beach Cleanup 3/4/23

"Together we can protect our coasts... The Surfrider Foundation is dedicated to the protection and enjoyment of the world's ocean, waves and beaches, for all people, through a powerful activist network.

The Surfrider Foundation is committed to fostering a just, equitable, diverse and inclusive organization for all people who protect and enjoy the world's ocean, waves, and beaches."

What are we fighting for?

Surfrider is an ocean-focused organization that fights for equitable public access to beaches, plastic use reduction, oceanic ecosystem protection, and many other initiatives. One of their focuses as an ocean-related organization is climate change mitigation.

The foundation has:

176 chapters & student clubs,
841 campaign victories, and
182k service hours.

Surfrider organizes campaigns such as Demanding Action on Climate Change, Ocean Friendly Restaurants, Break Free From Plastic Pollution, Stand Up For Clean Cater, and the Land And Water Conservation Fund. There have been a total of **700** campaigns since 2006, and **100** are always currently active at a given time!





Actions Taken

What We Fight For



Plastic Reduction

Reducing the impact of plastics in the marine environments that surround us.



Ocean Protection

Defending our oceans from challenges threatening the vitality of the ecosystem.



Beach Access

Working with decision-makers to ensure full and fair beach access for all to enjoy.



Coast & Climate

Taking on issues that threaten our beaches and natural shorelines.



Clean Water

Protecting the health and sustainability of our planet's most precious resource.

Through beach cleanups and educational programs, Surfrider seeks to address 5 issues they fight for: plastic reduction, ocean protection, beach access, coast and climate conservation, and clean water sustainability.

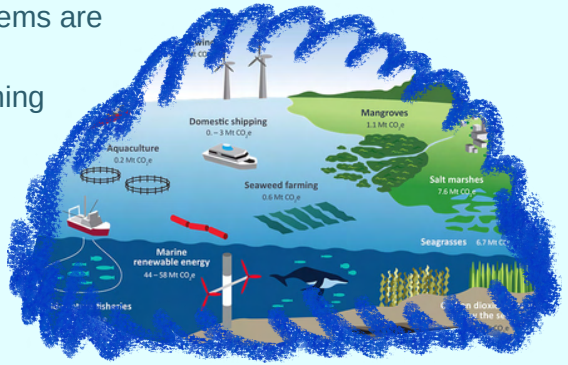
Rise Above Plastics is an educational program started by Surfrider to educate the community about plastic pollutants and safer alternatives.



Climate Intersectionality

The Surfrider Foundation recognizes that ocean and coastal ecosystems are especially vulnerable to the consequences of climate. Looming impacts include:

- Rising ocean temperature and acidification caused by entrapment of greenhouse gases
- Coastal erosion associated with rising ocean levels and extreme storms
- Loss of marine biodiversity resulting from human pollution & overfishing



Surfrider works to maintain the health of coastline ecosystems and bolster their resilience against climatic changes.

Mitigation and management are core strategies to combat the climate crisis, done through volunteer mobilization, vulnerability assessments, adaptation plans, protection of resources, and setting back harmful developments.



Project New Village



What is Project New Village?

Mission Statement:

"To serve as a catalyst for resident-led, community-rooted experiences that BUILD stronger neighborhoods; IMPROVE the neighborhood food supply chain; STIMULATE collective investment in better health; and MAXIMIZE the impact of investment to address social inequities."



photos from: <https://projectnewvillage.org/>



**PROJECT
NEW VILLAGE**
COMMUNITY • EQUITY • CHANGE

Scan me for more information!



Food Sovereignty

Big agriculture continues to widen the chasm that exists between communities and the very food we eat, disconnecting us from the land and those that produce our food. In the wake of this worsening divide, food sovereignty insists on the right of peoples access to healthy and culturally relevant foods that are produced through sustainable methods, and the right to define and organize the food systems that feed our communities.



Food Insecurity

Food insecurity is a growing issue across the United States; in 2021, 50 million people were hungry because of the COVID-19 pandemic. When money is tight, individuals or communities often must choose between eating dinner or keeping the lights on. Low-income communities may have little to no access to full-service grocery stores, leaving fast food or convenience stores as the only options. This, coupled with the stress of worrying about the next meal, often results in negative health outcomes, including increased prevalence of chronic illnesses and lack of nutrients. Children who are hungry and/or undernourished are also more likely to develop mental health problems and have difficulties in school.



<https://internationalbanker.com/finance/covid-19s-crippling-impact-on-global-food-security/>

PNV's Solution

Project New Village hosts weekly events such as Food Sharing Day and the Mobile Farmer's Market to encourage community engagement in neighborhood-based agricultural cooperatives. PNV is decentralizing the food system with open participation in Community Work Days to better understand where their food is coming from, the work associated with production, and increasing accessibility to nutritious foods. PNV also provides free health services like testing and vaccinations at their garden, Mt. Hope Community Garden.



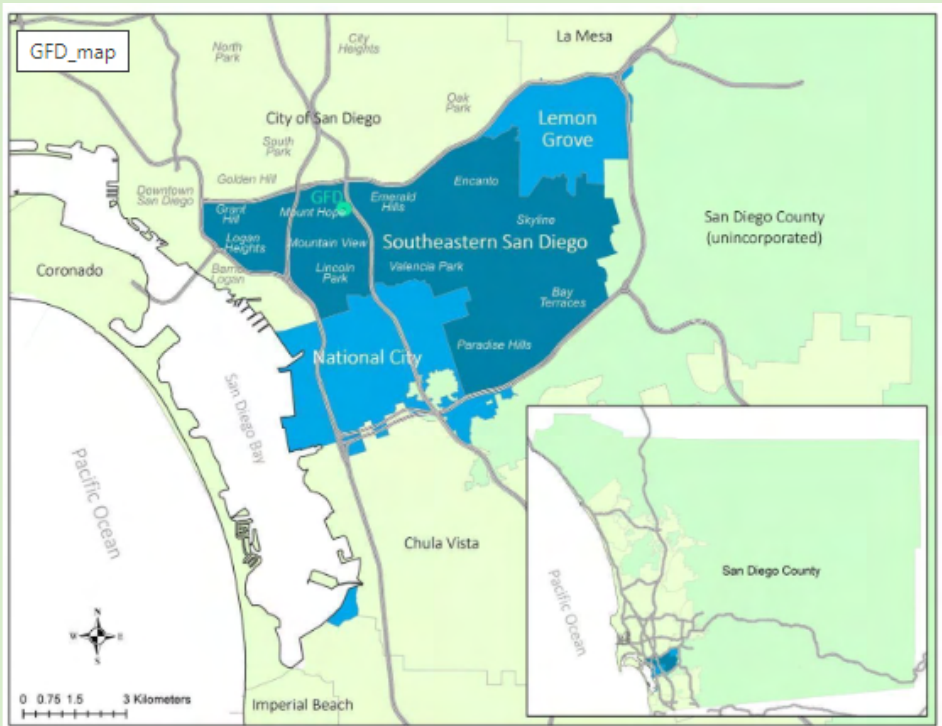
<https://projectnewvillage.org/events/community-work-day/>

Social and Climate Impacts

By providing City Heights with a community growing space, Project New Village intervenes in the commodification of essential food resources, effectively disrupting the local community's dependence on corporate food chain suppliers of mono-crop agriculture. The benefits for the neighborhood's air quality are two-fold in that transport-related carbon emissions are reduced, while portions of atmospheric carbon become sequestered in the soil through natural cultivation processes.

PNV Projects

Project New Village has four big projects they are currently undertaking: The Good Food District, The Neighborhood Growers Network, People's Produce, and Growing Spaces. These four projects will have a real and lasting impact on the Southeastern San Diego Community around Project New Village. The neighborhoods that Project New Village serves are:



[Provided by: Project New Village Website](#)

The Good Food District:

Project New Village's Good Food District project is intended to create a neighborhood-wide network of "good food which is food that is sustainable, equitable, healthy, affordable, and accessible for all residents" To create this new future for the Southeastern San Diego community Project New Village is looking at developing vacant neighborhood spaces with "urban agriculture spaces" (PNV).

People's Produce:

The fastest and most direct way that PNV is helping the community is by operating a Mobile Farmers Market as a part of their People's Produce initiative. The People's Produce brings real, locally grown produce to the people in Southeastern San Diego. PNV also uses these events to hear more feedback directly from the community, by offering coupons in exchange for filling out surveys about what the people would like to see.

The Neighborhood Growers Network:

Utilizing collaborative ideals PNV is creating a Grower's network to develop upon their food equity goals. By teaching the local community members how to cultivate their own food and helping the local community plant food-bearing trees PNV is giving their community the opportunity to take their own food sovereignty into their own hands.

PNV Growing Spaces:

The final project that Project New Village is currently undertaking is the growing spaces initiative the community garden that started it all, the Growing Spaces project. The Mount Hope Community Garden opened on September 28th, 2011, and has provided the community with food grown on 1/3rd of an acre and in 40 garden beds. This space is used to develop and encourage local community engagement where people can use the space to grow their own food and PNV can grow fresh produce for the local community.

Roger's Community Garden

"Conveniently located on the UC San Diego campus, Roger's Community Garden provides "a space for the San Diego community to grow their own produce and participate in environmentally-friendly projects".



Carbon Neutrality



In an effort to reach carbon neutrality by 2025, the UC Office of the President has requested that campuses minimize carbon emissions. Without consideration of food, it is impossible to reduce carbon emissions and attain carbon neutrality.

As a UCSD student-run organization, Roger's Community Garden works with the Bioregional Center for Sustainability Science, Planning, and Design (Bioregional Center) and produces novel sustainability projects by UCSD students in an effort to reduce our carbon footprint.

Food Waste

At UCSD, University Centers (UCEN) send their food waste to the composting sites at Otay Landfill. Yet, the emissions created by carrying tons of food waste have a substantial carbon cost downstream, and only a small number of UCEN enterprises participate in this activity.



Roger's Community Garden members focused on enterprises that UCEN does not collect from to address the lack of corporate participation. RCG accepts most green waste, including meat, dairy, bamboo/wooden utensils, and small amounts of biodegradable plastic (corn plastic).



Sustainability Projects

Roger's Community Garden also houses projects that utilize student research to create **innovative, energy-saving technology** to enhance the garden and the body of research on sustainable practices and technology.

Aquaponics, anaerobic digesting, nitrate processing and , biogas generation are among such projects at Roger's Garden and each offer an extra component of **sustainability** to the garden.



Aquaponics utilizes the age old practice of growing fish symbiotically with plants, which can minimize pests and increase yields.

Aeroponics is a revolutionary technique that allows for agriculture without the use of a growing medium.

Energy generated by the biogas process is then used to power the garden!

The anaerobic digester project employs the use of bacteria to digest food waste into biogas, which is then used a source of energy, in addition to a fertile byproduct that can be used as fertilizer for the rest of the garden (this technique can process **2000 lbs of food waste per week!**)



A sneak peek into volunteering!



Volunteering may look different for everyone, each day there are diverse activities according to the needs of the community garden.

On our volunteer day, our team participated in several endeavors. We helped clear the garden of debris leftover from a rainstorm, provided trees with the care they needed, we then relocated a sapling to the citrus tree area to optimize its growth and mixed organic material into the compost pile.



Anyone is welcome to volunteer on Sundays from 10am to 12pm

Learn more here!



Farm Animal Refuge

1. Help people make the connection between companion animals and farm animals to promote a compassionate lifestyle
2. Help those people transition into a compassionate lifestyle
3. Help those practicing peace on their plates spread the word to enlighten others to join the movement



Website: <https://farmanimalrefuge.org/>

Email: farmanimalrefuge@gmail.com

Social Media: [@farmanimalrefuge](https://www.instagram.com/farmanimalrefuge)

Goals



Address Animal Cruelty



By addressing the cruelties in the meat industry, FAR gives people the chance to think about their food choices, which will further bring into question our own food system and how we can create a more sustainable way of eating

Animal Activism

The meat industry is a major contributor to greenhouse gas emissions, so by advocating for animals, FAR is also advocating for a stop to a major contributor to climate change



Aid in the Transition to a Vegan Diet



A primarily meat and dairy diet are major contributors to climate change. FAR is advocating for a diet that would be beneficial to climate change efforts.

Industrial Farming

When we think about where our food comes from, our minds automatically go to the grocery store and stop there, but all the meat and dairy products humans consume have to come from somewhere. Industrial farms, also known as factory farms, are responsible for where the majority of our food is sourced.



One defining characteristic of factory farms is the large quantities of animals that are kept in what's called a concentrated animal feeding operation, or CAFO. Humanity's demand for meat, dairy, and eggs exceeds the land we have available to raise animals in a natural, humane way. The deforestation required, not only to raise the animals but to grow food for the animals is immense. Cattle ranches account for 80% of deforestation throughout the Amazon.

With all these animals comes an enormous amount of waste. manure and dead animals are collected into septic pools to decompose and then be sprayed as fertilizer onto the factory farm's feed crops. Excess is converted into an aerosol mist that is sprayed directly into the air, ending up in neighboring communities, or it is sent directly through waterways to the ocean where no water treatment is given. This procedure leads to eutrophication of our ocean and huge swaths of dead zones, such as seen in the Northern Gulf of Mexico.



Greenhouse gas emission from the animals themselves, the factories, and the transportation and refrigeration of animal products has a huge impact on climate change. Methane, which is produced by a cow's digestion process, is a greenhouse gas that is 25% more potent than carbon dioxide. One cow adds 220 pounds of Methane into the atmosphere every year.

There are 1.7 million dairy cows in California alone.

Statistics

1. **32%** of anthropogenic methane emissions are from factory livestock farms
2. U.S. factory farms produce **1.4 billion tons** of animal waste every year that inevitably is released into waterways
3. Only **30%** of all factory farms in the US hold even one permit in compliance with the Clean Water Act
4. Animal agriculture produces **65%** of the world's nitrous oxide emissions
 - a. Has a global warming impact 296 times that of CO2
5. **1,847 gallons of water** is needed to produce 1lb of beef
6. Livestock takes up nearly 80% of global agricultural land yet produces less than **20% of the world's supply of calories**
7. The calories lost by feeding crops to animals could theoretically feed an extra **3.5 billion people**



What We Can Do

Lifestyle

What can we do to combat the negative effects of factory farms?

- Make better food choices. As a collective society, we should aim to reduce our meat and dairy intake as much as possible.
- Pressure corporations known for their meat and dairy products to include plant based options.
- Have conversations about factory farms and their contribution to climate change to spread awareness!



FACTORY FARMS ARE DRIVING CLIMATE CHANGE! OUR FOOD CHOICES MATTER!

Climate Change Literature

Act today for a better tomorrow – for us, our children, and the generations yet to come.



Anth 110 Class

Mariam Sanchez

Cassi Grijalva

Jadah Ryan

Lily McCann

Sienna McMahon

Phoebe Skok

Erin Odermatt

Giovanna Escamilla

Catherine Parker

Mia Astbury

Son Truong

Xiaoyi Shi

Courtney Kim

Eva Peschel

Melissa Vizcarra