

California Climate-Friendly School Meals Resources & Menu Development

Presentation for CACFP Roundtable

Nora Stewart & Lucy Hicks, Friends of the Earth









Support from Friends of the Earth





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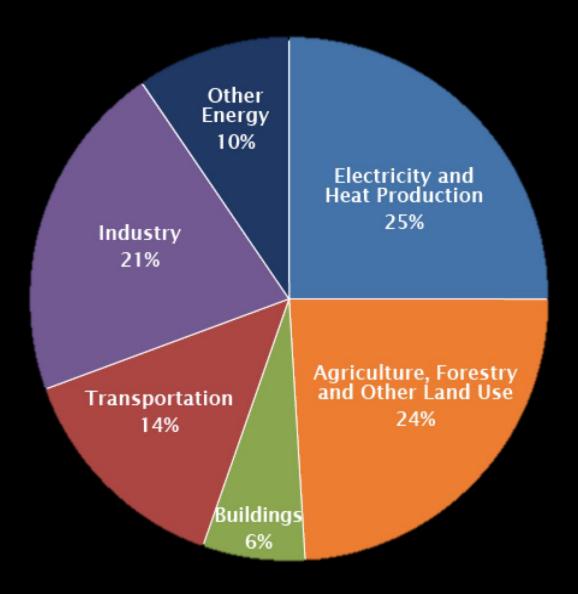
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What is Climate-Friendly Food?

- Low carbon and water footprint
 - plant-based and plant-forward
- Produced using organic farming practices that sequester carbon in the soil
- Does not end up in the landfill
 - includes packaging and distribution





Food is a major driver of climate change







Livestock sector



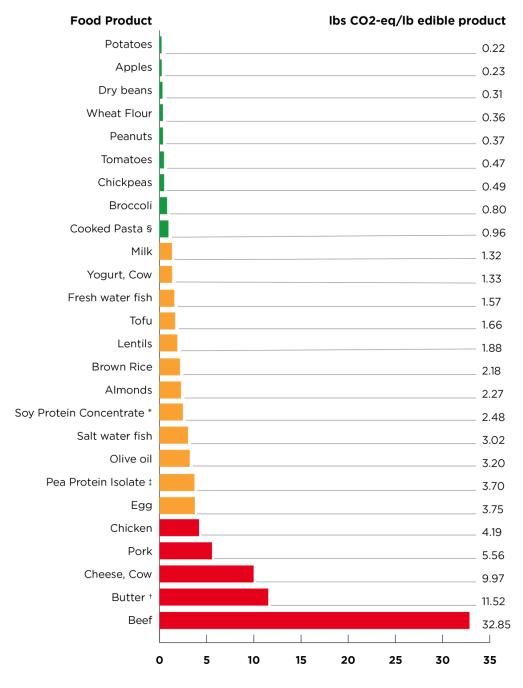
Exhaust from all vehicles

#WFD2016

Source: chathamhouse.org/publication/changing-climate-changing-diets

climatenexus





Not all protein is created equal

BEEF has 15-100x the carbon footprint of beans & lentils



Source: Friends of the Earth, using data from Heller (2018)



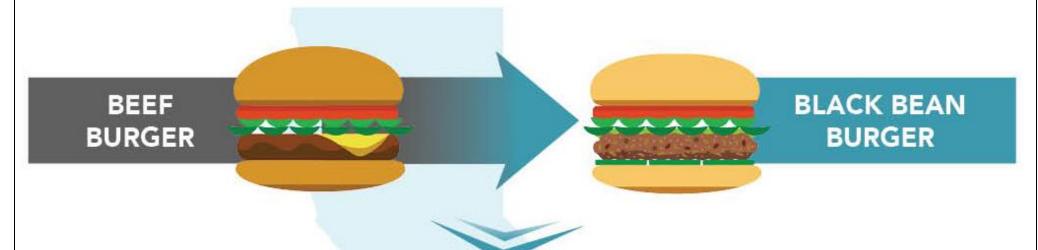


School Food Makes a HUGE Difference!

- California schools supply 540 million school lunches every year to nearly 6 million students!
- More than half of students rely on free and reduced-price meals (pre-pandemic) for daily nutrition needs.
- Small shifts = big environmental and health differences!



If all school districts in California swapped out a beef burger for a black bean burger, on just one day per month, it would save 220 million lbs of CO₂-eq.



Equivalent to:



22,000 cars off the road for 1 year



1.7 million tree seedlings grown for 18 years



26,000 residential solar systems for 1 year

Child's Preference & Racial Justice

- Plant-Based options can help children meet their dietary, religious, health or cultural needs.
- The National Institutes of Health estimates that 95% of Asian Americans, 60 to 80% of African Americans, 80 to 100% of American Indians and 50 to 80% of Hispanic people are unable to process lactose. The majority of the global population (~68%) cannot digest lactose.
- Providing healthy, plant-forward school food is a vital tool for mitigating racial health disparities.



Plant-Based and Plant-Forward?

Plant-based = foods that are entirely derived from plants

• Fruits, vegetables, beans, legumes, grains, etc.



Lentil burger patty

Plant-forward = meals that are made up of mostly plants

• Meat, poultry & dairy are treated as sides or condiments, not the main ingredient!



Mushroom & Beef blended burger patty

Climate-Friendly School Food Options

Healthy, Climate-Friendly Options

- Cauliflower Pasta Alfredo
- Vegetable Fajitas
- Chana Masala
- Mexican Rice Bowl
- Spinach, Pesto and Hummus Flatbread
- Less Meat/Better Meat organic, pastureraised, non-GMO (e.g., bean and organic beef chili)
- Less processed heat-and-serve Plant-Based Items (e.g., veggie burger)

Less Healthy, Less Climate-Friendly

- Cheese Pizza
- Bean and Cheese Burrito
- Uncrustables
- PB&J
- Mozzarella Cheese Stick
- Highly processed foods (e.g., plant-based chicken nuggets)











Barriers and Challenges

- Student Acceptance
- Cost
- Procurement
- Kitchen infrastructure
- Staffing

Kitchen staff at Tahoe Truckee USD prepare plant-based salads to-go, using locally grown, organic produce during COVID-19.



Finding Recipes That Work

- Culturally appropriate menu items
- Condiment or "flavor" stations



 Plant-based recipes that are popular with students! High take-rate

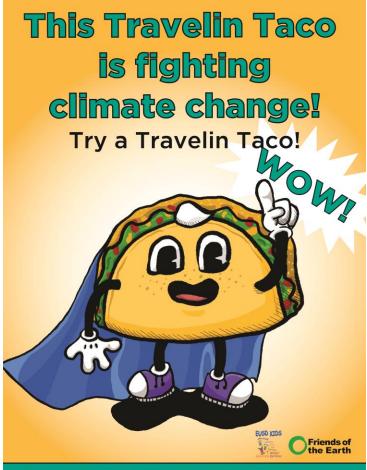


Vacaville USD purchased plantbased tamales from Alicia's Tamales Los Mayas!

Sampling the Venice Beach Pasta Bake at Riverside USD, scratch-made with plant-based crumbles.

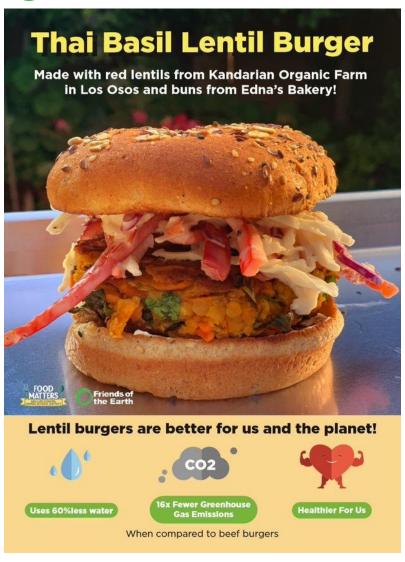


Marketing Strategies



By using beans in our Travelin Taco we are keeping 82 metric tons of CO2 out of our atmosphere!

Over the span of a school year this has the same impact as NOT burning 90,000 pounds of coal.



WHAT YOU EAT MAKES A DIFFERENCE! By serving Mushroom Blended Burgers, our district generates environmental savings equivalent to... MILES DRIVEN driving 620,000 miles



COAL BURNED

275,000 pounds



SMARTPHONES

CHARGED 32,000,000 phones

School Districts Making the Shift!



Roasting winter squash at Encinitas Union Elementary



The very photogenic Thai Basil Lentil Burger from San Luis Coastal USD



Sampling the Venice Beach Pasta Bake at Riverside USD with scratch-made crumbles



Delicious Taco Salad at Capistrano USD

Discussion Questions

- Name, Title, What type of program do you run?
- Are you currently serving plant-based items in your program?
- What goals do you have for serving plant-based items in your program? / Vision / What are your feelings towards climate-friendly food options?
- What challenges are you experiencing? Is it hard to implement with the current meal pattern?
- What kind of resources would be helpful for you in your menu development?



Getting Started

Start Up Strategies

- **Start small:** Add PB items to menu 1x per week
- **Get involved with your kids:** Ask questions
- Meet with parent groups: Inspire students to help market PB items
- **Find local farms:** Connect with small local farms for fresh produce options
- Work with a nutritionist or chef: Or... if you have one, let them lead the project!



Popular / Climate-Friendly Plant-Based and Plant-**Forward Products**

Daiya Foods - plant-based cheese, burritos, pizza

Banza Pasta - chickpea pasta, chickpea mac and cheese, chickpea pizza dough

Hungry Planet – crumbles, patties, chubs, strips, crab cakes, packaged meals

Hodo Foods – tofu products

Mindful Meats – Organic, non-GMO beef

Lightlife – Tofu products, PB pepperoni

Don Lee Farms – PB black bean burgers, veggie bites, packaged meals

ZenB Foods – pastas and sauces

Popular Climate-Friendly Plant-Based Recipes

- Cauliflower Pasta Alfredo a creamy whole grain or plant-based pasta with a hint of lemon. Popular with K-5 students who like mac and cheese (Santa Barbara USD)
- Thai Lentil Burger a mile-high lentil burger with added fresh vegetables. A hit with older students (San Luis Coastal USD)
- Mediterranean Flatbread with Hummus a whole grain pita with hummus, pesto, tomatoes, and greens. Great grab and go item (Humane Society)
- Three Bean Chili with Soy Chorizo hearty chili with kidney, garbanzo, and pinto beans and soy chorizo crumbles. A cold weather favorite. Serve with whole grain tortilla chips. (Escondido Union SD)

More Popular Climate Friendly Plant-Based Recipes

- Chana Masala with Lemon Rice garbanzo bean based vegetable stew that is popular with middle schoolers and high schoolers. Purchased from Sukhi's Gourmet Indian Food (Milpitas USD)
- Mexican Rice Bowl (Vegan Burrito Bowl) chocked full of black beans, brown rice, corn salsa, and grilled vegetables. Similar to popular restaurant bowls (Campbell Union HSD)
- Asian Pasta Salad crunchy whole grain or PB pasta salad with a ginger, lime, sesame dressing. Spring and summer favorite (Santa Barbara USD)
- Black Bean Empanada whole grain calzone dough filled with black beans and Mexican spices. From Chef Ann Foundation (Brentwood USD)

Strategies for Organic Purchasing

- Prioritize the Dirty Dozen list
- Peak/In-Season Purchasing
- "Less Meat, Better Meat"
- Plant-forward meals often cost less
- Buy in bulk ie. bulk organic lentils
- Use general funds for organic priority items



A ORGANIC: THE DIRTY DOZEN.



Friends of the Earth Resources





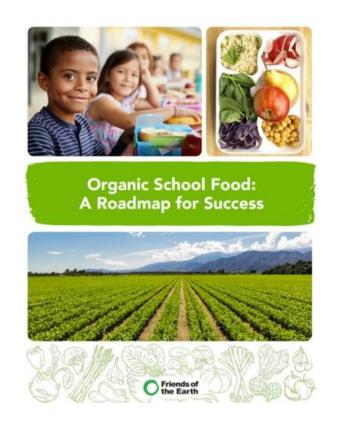
Sign up for our Quarterly Newsletter!

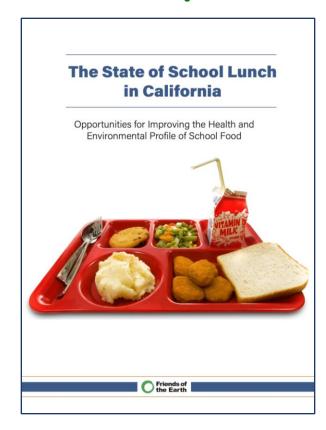
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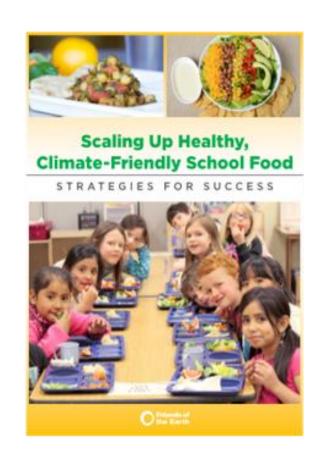
Stay up-to-date on any new resources, opportunities, and key updates on all-things climate-friendly school food.



FOE Reports!







Climate-Friendly School Food Program Website:

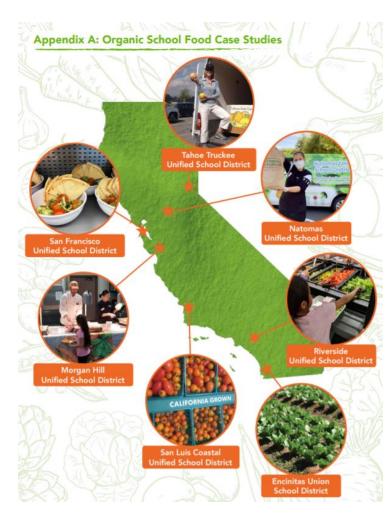
https://foe.org/projects/school-food-purchasing/





School District Case Studies

- San Luis Coastal USD
- West Contra Costa USD
- Encinitas Union Elementary
- Natomas USD
- Tahoe Truckee USD
- Morgan Hill USD
- Riverside USD
- San Francisco USD
- Novato USD
- Santa Barbara USD
- Boulder Valley SD, CO
- School District of Lee County, FL



Case Study: San Luis Coastal USD



How a Rockstar Lentil Burger Inspired More Plant-Forward School Food



SCHOOL DISTRICT PROFILE

Erin Primer, Director of Food Services

15 K-12 schools, 7,801 students

15 K-12 schools, 7,801 students
294,252 lunches served annually spre-Covid

33.7% free & reduced-price meals eligible (pre-Covid)

of Service Model: creatch conking: local and conanic farams: local food husinesse

Overview

What started as an experimental menu item shared by a Maine school district, San Luis Coastal Unified School District (SLCUSDy's That Basil Lentil Burger has become one of the schools most popular plant-forward entries. Concerned about lower school lunch participation, some school food service directions may be eluctant to offer plant-forward meals. However, many plant-based school lunchaps, like the That Basil Lentil Burger, are proving a big hit for students, school budgets and the plantel This story shows how a tasty, scratch-made, primarily plant-based burger (with egg as the only animal product) can be just as popular, if not more so, than commonly served meal burgers in K-12 schools. It also shows that educating students about how plant-forward foods make a difference for human health and the planet is a powerful motivational tool, especially when paired with fresh decisious menu items.

The Thai Basil Lentil Burger, made with locally grown organic lentils, is flavorful, climate-frendly, nutrient-dense, and cost-effective. Leannched with other plant-forward meni-teres during the 2020-21 school year, it was successfully marketed for its wonderful flavor and climate benefits. Complementing the lentil burger, the district included Mighty Marinara chickpee pasts and Black Bean Fajitas in its plant-forward pandemic takes-home meal kits. While families were not initially given the plant-forward option, once the lentil burger was introduced (twice a week) with its companion dishes. 50% of families chose the plant-forward meal kit.

Since plant-forward meals were introduced, the district has seen a significant increase in school meal participation. The fresh and local ingredients in these dishes helped boach participation from a few hundred thousand meals each year to more than one million meals annually, in contrast, some school districts that replaced soratch cooking with packaged foods have seen a decline in participation, despite the increased need for food assistance that communities have experienced during the pandemic.





Student Action Webpage

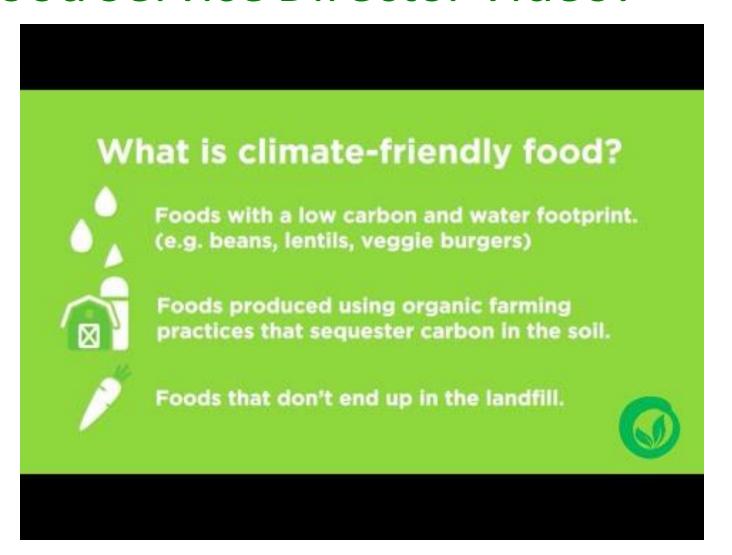


Action steps, guides, and other resources for students/student groups wanting to find out more and get involved in climate-friendly school advocacy!

foe.org/school-food



Food Service Director Video!



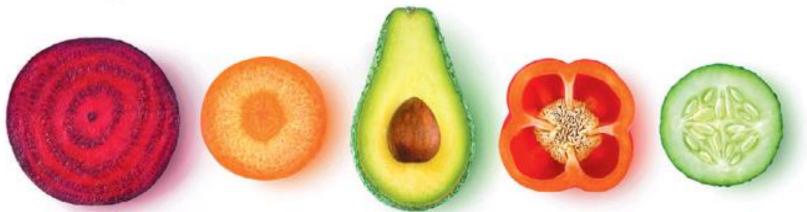
Meet three Food Service
Directors in California who
are making climate-friendly,
plant-based meals work in
their school districts.





Contact Nora Stewart or Lucy Hicks

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Thank you!

