Organic School Food:
A Roadmap for Success
The Organic School Food Roadmap was researched and written by Leah Smith, consultant to Friends of the Earth, in collaboration with Kari Hamerschlag, Elizabeth Vaughan, and Emma Finn of Friends of the Earth. Kendra Klein and Lisa Archer of Friends of the Earth and Christopher Cook provided skillful edits. For the incredible design work, we thank Keiko Okisada.

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Friends of the Earth’s Climate-Friendly School Food Program helps school districts make the shift towards healthy, delicious, plant-forward menus. The program provides technical assistance and marketing materials, supports student and community engagement strategies, and links school districts with the resources they need to be successful. Friends of the Earth also partners with school districts and NGOs to advocate for state and federal policy change.

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The Organic School Food Roadmap is a practical “how-to” guide, developed to help California school food service teams make organic purchasing decisions and overcome key challenges when buying organic foods. By outlining six key strategies and sharing seven brief case studies from diverse school districts (see Appendix A), we hope to show how school districts with various food service models can successfully source organic food. The Roadmap also serves as a resource to school food partners invested in providing healthier, more sustainable food for students in their communities. Having the right partners at the table is essential to making organic school food a reality.

Why organic? We focus the Roadmap on sourcing organic food because of the positive health, environmental and economic benefits associated with the production and consumption of organic foods. By using their vast purchasing power to source more organic food, school districts can provide students with foods that are associated with a range of health benefits while building a more resilient, less toxic, climate-friendly food system.¹

In a typical year, California schools supply 540 million school lunches to nearly six million students² — more than half of whom rely on free and reduced-price school meals for up to half of their daily nutrition needs.³ For these students in particular, school food plays a significant role in their health and educational outcomes.⁴ The coronavirus pandemic has revealed more starkly what we already knew — underlying health is vitally important, and diet-related diseases increase overall health risks and are more prevalent among low-income children, especially communities of color. This makes school food service a vital opportunity for critically needed interventions to transform our food system toward greater health and justice.⁵ According to a new UC Berkeley report, roughly 30% of California school districts have engaged in some form of organic procurement. We hope this roadmap can help those districts expand their organic purchasing and provide the tools necessary to inspire new districts to being offering organic items. We believe this roadmap will be especially helpful in light of a new California Farm to School program that provides technical and funding support for local and regional food purchasing. This $8.5 million grant program from the California Department of Food and Agriculture encourages school districts to partner with producers that use climate-friendly practices, including organic farmers or those transitioning to organic and regenerative agriculture. This exciting new resource, championed by the state’s First Partner Jennifer Siebel Newsom and many healthy school food advocates, creates fresh opportunities for school districts to implement the strategies outlined in this report.

Nourishing children with food grown without pesticides and that supports healthy soil aligns with our values, and demand from schools allows us to plan forward. It’s a win-win.

- Adriana Silva, Farmer, Tomatero Farms

Organic animal products are produced without antibiotics, growth-promoting drugs or hormones, and come from animals raised on certified organic pasture or fed only certified organic grains and grasses. USDA Certified Organic foods are grown without the use of hazardous synthetic pesticides, synthetic fertilizers or genetically modified organisms (GMOs). Organic farmers generally use natural, soil-enhancing fertility and pest management methods like composting, cover cropping, managed grazing and diverse crop rotations.

The Organic School Food Roadmap is primarily based on information gathered from more than 35 interviews with professionals from many key links in the school food supply chain: distributors, food hubs, farmers and other food producers, as well as school food service directors. The Roadmap is also informed by interviews with organizations that support school food service programs in the following areas: school nutrition, menu development, farm-to-school programming, bid generation, local and/or organic procurement, and marketing and education.

¹ A food hub, as defined by the USDA, is “a centrally located facility with a business management structure facilitating the aggregation, storage, processing, distribution, and/or marketing of locally/regionally produced food products.”
II. ROADMAP OVERVIEW

Serving Organic Food: Strategies for Success

*Click on an orange segment to take you to that section of the roadmap!*

- Purchase in-Season for competitive pricing
  - Buy in bulk
  - Reduce meat portions with blended dishes
  - Serve more plant-based foods
  - Increase operational efficiencies

- Pick the most popular items
  - Start small
  - Choose organic items on the Dirty Dozen list
  - Determine kitchen infrastructure and staff capacity

- Understand available options
  - Increase supply options with regional producers
  - Buy direct from producers
  - Negotiate prices
  - Use contracting to serve your organic goals
  - Advocate for organic in USDA Foods programs

- Make Organic Affordable

- Select Organic Items that Fit Your Operation

- Assess Kitchen Infrastructure & Train Staff

- Market Your Program

- Manage Organic Procurement

- Develop Partnerships

- Build skills to support change
  - Purchase equipment to support your program
  - Apply for grants or acquire funding
  - Plan for bigger infrastructure investments

- Employ consistent, creative and bold marketing strategies
  - Incorporate student education
  - Tell your story
  - Celebrate with your community

- Engage partners, get support and seek funding
  - Update your wellness policy
  - Obtain funding to support innovation

Additional Resources
- Suppliers
- Grants
- Support Partners
Serving organic food in schools produces many health, community and environmental benefits. While reducing students’ exposure to toxic pesticides, organic farming protects the health of farmers, farmworkers and rural communities, our air, water and soil, as well as pollinators and other critical species. For an in-depth analysis of the benefits of organic food and farming systems, see the Benefits Report from California Certified Organic Farmers and Appendix E.

Organic Food Protects Children from Exposure to Harmful Pesticides
Children are especially vulnerable to the effects of pesticide exposure because their bodies are rapidly developing. Early exposures can have significant and lifelong impacts, from reduced IQ to increased risk of cancers. The American Academy of Pediatrics states that “children’s exposure to pesticides should be limited as much as possible.”

Switching to Organic Diets Can Quickly Reduce Pesticides in Children’s Bodies
In two peer-reviewed studies, after just six days on an organic diet, levels of toxic pesticides in children’s bodies (organophosphates including malathion and chlorpyrifos, glyphosate, pyrethroids and more) dropped by 60% to 95%.

Organic Production Eliminates Routine Use of Antibiotics and Other Drugs
Organic meat and dairy producers don’t use antibiotics, growth hormones or arsenic-based drugs, whereas over 450 drugs are allowed in non-organic production. Routine use of antibiotics in conventional animal products is a key driver in the rise of antibiotic-resistant “superbugs” that threaten public health.

According to the USDA’s 2016 Pesticide Data Program analysis, 47 different toxic pesticide residues were found on conventional apples: six known or probable carcinogens, 16 suspected hormone disruptors, five neurotoxins and six developmental or reproductive toxins. None of these pesticides are allowed in organic farming.

Organic Diets Are Associated with Health Benefits
Research shows that organic diets are associated with reduced risk of allergies, otitis media, metabolic syndrome, high BMI, diabetes and certain cancers.

Organic Food Can Be More Nutritious
A meta-analysis of 343 studies found “meaningful differences in nutrient composition between organic and non-organic crops,” including higher levels of cancer-fighting antioxidants, phenolic acids and flavanones. Research has also found that organic milk and meat can have healthier fat profiles.

Organic Farming Is a Climate Change Solution
Organic farming has been found to use less energy and sequester more carbon in the soil than conventional farming. It also protects pollinators, conserves water resources and makes farmers more resilient in the face of climate change-related weather extremes like drought and floods.

ORGANIC

- Provides higher levels of nutrients & antioxidants
- Raises animals with lower stress & access to outdoor spaces
- Conserves & protects water
- Builds healthy soils
- Protects farmers, farmworkers & eaters from toxic pesticides
- Protects wildlife, bees, & butterflies
- No antibiotics & growth hormones

CONVENTIONAL

- 3,000+ food additives & manufacturing agents
- Common use of GMOs
- Synthetic pesticides & fertilizers
- 450+ synthetic livestock drugs, routine use of antibiotics & growth hormones
- Pollutes air, water and soil
- Factory farms
As one of the largest and most populous states in the nation, California is home to a diverse array of school food service programs. California’s schools are in rural, small-town, suburban and urban communities, and range from heat-and-serve to scratch cooking models, vended pre-prepared meals to “speed scratch,” and “grab ‘n go” to family-style food service. Other important variations include differences in community and district size; the presence or absence of satellite or production kitchens, and/or a central kitchen; staff capacity and skill-level; food service leadership and school culture; community values; and storage/refrigeration and kitchen equipment. This Roadmap is designed to address a variety of barriers across diverse food service models, in order to make purchasing organic easier. It is informed by on-the-ground stories from school food service leaders, showing how organic purchasing is possible across different types of food service programs. For more detailed stories from a variety of school districts, see the case studies in Section V.

A. Make Organic Affordable

Understanding the price and value of organic is key to making strategic cost-effective decisions. This section will help you decide which organic items to prioritize and how to get competitive prices.

**PURCHASE IN-SEASON FOR COMPETITIVE PRICING**

Surprise! Organic can be affordable. Produce is a great starting point for purchasing organic foods. Prices for fresh fruits and vegetables fluctuate from year to year, seasonally and sometimes even week to week. According to Chef Michael Jochner, Director of Nutrition Services for Morgan Hill USD, some organic products are priced remarkably close to their conventional equivalents, as noted in the table below. Chef Michael was able to secure cost-effective prices by building relationships with local organic farmers and by selecting a new distributor that has a wide variety of locally sourced organic options. You can find more details on identifying cost-competitive items through existing supply chains in the Manage Organic Procurement section.

<table>
<thead>
<tr>
<th>Item</th>
<th>Organic</th>
<th>Conventional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iceberg Lettuce</td>
<td>$23.75 per 40 lbs</td>
<td>$20 per 40 lbs</td>
</tr>
<tr>
<td></td>
<td>12 cents</td>
<td>10 cents</td>
</tr>
<tr>
<td>Baby Carrots - Bulk</td>
<td>$27.84 per 25 lbs</td>
<td>$27.60 per 25 lbs</td>
</tr>
<tr>
<td></td>
<td>17 cents</td>
<td>17 cents</td>
</tr>
<tr>
<td>Baby Spinach</td>
<td>$16.80 per 4 lbs</td>
<td>$14 per 4 lbs</td>
</tr>
<tr>
<td></td>
<td>27 cents</td>
<td>23 cents</td>
</tr>
<tr>
<td>Blueberries</td>
<td>$31.20 for 10 lbs</td>
<td>$31.20 for 10 lbs</td>
</tr>
<tr>
<td></td>
<td>52 cents</td>
<td>52 cents</td>
</tr>
<tr>
<td>Fuji Apples</td>
<td>$45.60 per 40 lbs</td>
<td>$48 per 40 lbs</td>
</tr>
<tr>
<td></td>
<td>15 cents</td>
<td>16 cents</td>
</tr>
</tbody>
</table>

*Note: The prices here are from a snapshot in time from one school district during the 2019/20 school year.
When purchased in-season, organic produce can be cost-competitive. For example, during peak growing season (mid-April to the end of June), San Francisco Unified School District was able to buy organic strawberries ($1.70/lb.), a popular fruit among students, at a price similar to conventional strawberries ($1.50-$2.00 per lb.). According to food service directors we interviewed, some of the top seasonal organic items to buy include lettuce, stone fruit, berries, apples, citrus, summer and winter squash and tomatoes. A recent study by CAFF and Edible Schoolyard found that more cost neutral/competitive seasonal produce includes seedless watermelons, snap peas, kiwis and pears.

FACTORS THAT IMPACT THE COST OF ORGANIC

The higher cost of organic food is largely due to the increased labor needed to manage pests and maintain healthy soils, rather than using synthetic chemicals. Another reason for the price difference is the large federal subsidies for conventional commodities — many of which are available at low cost to school districts through the USDA Foods programs.

BUY IN BULK

When served in bulk, organic milk is highly cost-effective: it saves money and reduces packaging and milk waste. Purchasing oils and dried goods that have a longer shelf life and do not require cold storage — such as legumes, pasta, grains, nuts, seeds and flours — can also be a strategic way to plan and stretch your dollars when buying organic. While some bulk products may be available through your broadline ii or regional distributor, iii you may need to purchase them directly from producers. For example, San Luis Coastal Unified School District developed a direct purchasing relationship with Kandarian Farms, which produces ancient grains and pulses, including lentils. See the San Luis Coastal case study for more information.

“Typically, purchasing organic meat can be more expensive, but we have been lucky to get a competitive price. We are able to combine it with other inexpensive proteins like beans, or add the meat to sauces, in order to stretch the product. For example, our scratch-made blended Bolognese sauce has been a hit with students and staff. Our community has been incredibly receptive to the incorporation of higher quality proteins in our menus, and we also see continual increase in meal participation.”

- Director Lea Bonelli, Encinitas Elementary USD

REDUCE MEAT PORTIONS WITH BLENDED DISHES

There are creative ways to accommodate higher prices for organic meat. When districts have the processing capacity, buying raw meat is more affordable, fresher and less processed than pre-cooked organic products. Food service directors also report saving money by using smaller amounts of meat in recipes. Adding meat to sauces and combining it with other foods like beans, mushrooms, onions, celery, or other aromatic vegetables can help “stretch” the meat. Blending is not always necessary to make organic meat affordable. Several school districts highlighted the availability, affordability and popularity of organic chicken drumsticks and organic beef hotdogs.

THE CASE FOR ORGANIC BULK MILK

San Francisco, Napa and Novato Unified School Districts were all able to save money while serving high-quality, local organic milk in bulk dispensers. Districts used a 10-ounce cup to allow for 8-ounce pours at these “offer vs. serve” sites. Children took only the amount they want instead of an 8-ounce milk carton that may only get partially consumed or land in the garbage before it’s even been opened. As a result, even if organic costs $.10-$1.13 more per serving, there was a net savings because less milk is purchased, served and thrown away. Bulk milk enables a more exact purchase based on actual consumption. One school district reported milk carton savings of $30-40,000 per year, money that would have been wasted. See the San Francisco Unified School District case study for more information.

ii Broadline distributors serve as one-stop-shops for school districts in need of purchasing a large number of food and non-food items.

iii Regional food distributors provide a bridge between regional food producers and generally focus on customers located in their region.
SERVE MORE PLANT-BASED FOODS
Scratch-cooked plant-forward and plant-based meals can be less expensive than meat-based dishes, creating budget flexibility to purchase more organic food. By replacing a share of meat, poultry and cheese with plant-based, plant-forward options, schools districts can save money and reduce their carbon footprints while improving students’ access to healthful foods, as demonstrated by Friends of the Earth’s Oakland Unified School District Case Study. Additionally, a pilot program in West Contra Costa Unified School District, supported by the nonprofit Conscious Kitchen, was able to serve organic food at affordable prices by offering plant-forward cuisine sourced from regional suppliers with long-standing relationships with organic farmers. Read more about this case study here.

B. Select Organic Items that Fit Your Operation
California has the good fortune of a long growing season with a diverse range of available organic foods. Produce can be the easiest place to start buying organic, but it’s not the only smart choice. Choosing organic foods that fit your operation is key. This section is designed to help you find the organic foods that work well in your program.

PICK THE MOST POPULAR ITEMS
Make an Easy Switch for Your Program Selecting organic items that are already popular among students or making easy switches with current offerings is a wonderful way to start. If your students love fruit cups, create an organic fruit cup or feature a popular organic fruit such as berries, kiwi or melons and see the results. If it is easy to swap out conventional carrots, organic carrots often have a more delicious, sweet flavor with great crunch that kids enjoy.

START SMALL
Choose a Few Foods or Start with Seasonal Salad Bar Items If you have or plan to start a salad bar, selecting an organic item that stands out visually and has great flavor can yield positive responses from students. Examples include organic strawberries, apples and stone fruit. In addition, salad bars generally help reduce waste (students only take what they want/need), which reduces costs. If “grab ‘n go” salads are popular, organic sweet cherry tomatoes and crisp organic mixed salad greens will make them stand out.

INCREASE OPERATIONAL EFFICIENCIES
The case studies in Section V highlight strategies for increasing operational efficiency and effectiveness so that more resources can be dedicated to organic foods. These include selecting high-value whole food items within USDA Foods instead of spending fees on commodity processed items, reducing garbage fees and food costs by reducing food waste, and expanding participation rates with additional meal programs (e.g., breakfast and supper) to add revenue while not increasing fixed costs. Investing in a consultant to support budgeting, menu planning or administrative reviews can also free up valuable time that can be invested elsewhere.

CHOOSE ORGANIC ITEMS ON THE DIRTY DOZEN LIST
Prioritize Items on the Dirty Dozen List in order to reduce students’ exposure to pesticide residues, the Dirty Dozen List, published annually by the Environmental Working Group based on laboratory tests conducted by the USDA’s Pesticide Testing Program and the Food and Drug Administration (FDA), includes the top 12 produce items with the highest number and amount of pesticide residues (strawberries and leafy greens rank worst). Most of these foods are commonly served in school meals. Distributors

Affordable, Organic, Plant-Forward Menu Items from Conscious Kitchen

<table>
<thead>
<tr>
<th>Plant-Forward Meals (100% organic ingredients)</th>
<th>Food Cost per Meal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pasta marinara, roasted cauliflower and orange slices</td>
<td>$1.43</td>
</tr>
<tr>
<td>Nachos with pinto beans, salad and apple slices</td>
<td>$1.51</td>
</tr>
<tr>
<td>Vegan chili, roasted broccoli and fruit salad</td>
<td>$1.17</td>
</tr>
<tr>
<td>Grilled cheese, roasted potatoes and mandarin oranges</td>
<td>$1.07</td>
</tr>
</tbody>
</table>
and farmers can help compare “peak season” pricing to further determine which of these items have the lowest cost variance when purchased organically.

Select Foods That May Have High Glyphosate Residues
Some conventional foods have particularly high residues of glyphosate, the key ingredient in Roundup, because the pesticide is used right before farmers harvest in order to “dry down” or desiccate crops. Testing shows that oat-based foods like oatmeal and granola bars, as well as other dry goods like crackers and breads, can have high levels of glyphosate residues. Beans and bean-based products like hummus are also found to have high levels.17 These can be great targets to swap out for organic items when possible.

DETERMINE KITCHEN INFRASTRUCTURE AND STAFF CAPACITY
Staff capacity, skills needed, and time required to prepare a given item, as well as equipment and kitchen infrastructure, should be looked at together to decide which products are most suitable for your program.

For districts with limited staff capacity for washing and processing, there are choices that fit with your program. Choose pre-made organic options including packaged cheeses, yogurt, hummus, bread, rolls, snacks and milk. Purchase organic lettuce that’s already washed, chopped and/or mixed; pre-cut carrot sticks and baby carrots; and pre-cut celery sticks and sliced apples. Enjoy whole organic fruit for individual servings of apples, tangerines, pears, nectarines, plums, pluots, peaches and strawberries. Choose organic prepared food products, such as veggie patties and Mary’s organic chicken hotdogs.

For districts with scratch cooking or speed-scratch capacity, the range of options becomes greater. Investing in proper processing and cooking equipment can make in-house prepared foods competitively priced with pre-cut or pre-cooked foods from manufacturers or distributors. The ability to purchase whole organic produce and prepare on site creates a wide variety of produce-driven recipes that can become the “center plate” of any school meal. Roasted root vegetables, seasonal fruit salads, homemade dressings, soups and sauces can easily be prepared in a scratch-cooking facility. Raw organic ground beef, whole or cut chicken, ground turkey and plant-based alternatives like organic tofu can be prepared and served by trained food service staff. The staff time needed to process these items is expensive, so it’s imperative to prioritize which organic products can be used in your meal program based on budget, volume, student interest and consistent product availability.

If you use a food service vendor to supply meals, working with your vendor is key. Find vended meal options that include organic foods, use organic preference in your bid language and contract with vendors that offer organic items. Negotiating for organic foods prior to contracting is most effective. Keep in mind that larger school districts that share similar values can vend delicious scratch-cooked organic meals to neighboring districts!

“Do a salad bar! It’s the easiest way. Allow for choice. Plate waste (and therefore cost) will be lower, and your sales of produce will increase. Reduction in waste will allow you to buy fresh fruits and vegetables rather than canned. Prioritizing seasonal organic produce means that you can get the produce more affordably.”

- Adleit Asi,
Director of Nutrition Services RUSD
C. Manage Organic Procurement

Obtaining organic foods may require developing new supplier relationships; adopting new bid language that indicates a preference for organic foods in Requests for Proposals; and changing purchasing policies and procurement procedures. It may also require strategic use of purchasing options allowed outside of required contracting processes. To maximize your organic options, this section can help you understand the range of choices available. If your current broadline, regional or produce distributor does not carry the organic items you are seeking, knowing your options empowers you to make the best decisions for your program.

UNDERSTAND AVAILABLE OPTIONS

Selecting cost-competitive organic items available through your current suppliers is an excellent choice. If your primary distributor(s) (broadline and/or produce distributor) offer organic, review their offerings to see if they match your desired products and price points. If not, ask them to carry the items you wish. Inquire about price flexibility and the volume and purchasing frequency required for them to offer these items.

According to school food service directors, broadline distributors may have limited organic choices or non-competitive prices. If your current suppliers do not meet your specifications, you may need to go out to bid for a new regional distributor or produce distributor that specializes in or offers more organic options. Other good options include direct purchasing, micro purchasing, buying through a food hub, negotiating for lower prices, contracting directly with a farm or even using school district-produced items. These options are described further in the Roadmap.

“For us, it’s about where the food we serve comes from. We know and have relationships with many of our farmers and food businesses. It’s not always more expensive; many vendors will give bulk volume discount pricing.”

- Erin Primer, Director of Food Services, SLCUSD

FOOD HUBS AND SCHOOL FARMS

Food hubs aggregate and distribute locally produced and often organic crops and products from a variety of farmers. A food hub can be a fantastic way to work with multiple farmers at once while getting a single delivery of local and organic foods. Some school districts grow some of their own organic food for their food service program. Encinitas Union School District has its own 10-acre organic farm. Riverside USD has its own food hub. Bringing these roles “in-house” can help you get the products you want.

INCREASE SUPPLY OPTIONS WITH REGIONAL DISTRIBUTORS

Regional distributors frequently have strong buyer relationships with local/regional producers and can offer a competitive price due to the higher volumes of products they source. For a list of potential suppliers, see Appendix B. Keeping a close relationship with your distributors and learning through them what is coming in season helps with planning for organic purchases. If you can indicate demand for a particular item, regional produce distributors often consider sourcing what you need from a new organic producer. For examples of sourcing organic products through regional distributors, see this Conscious Kitchen Case Study about three Northern California schools.
BUY DIRECT FROM PRODUCERS
Building direct relationships with food producers and tracking seasonal prices has yielded remarkable results for food service directors looking to procure in-season organic produce. Produce is not the only organic item that can be purchased directly. Meat, dairy, pasta, tofu, bread and other items can be more cost-competitive when purchased directly from producers. For some organic suppliers, a commitment to regular purchases and buying a specified volume is key to lower pricing. Another way to get the benefits of purchasing directly without adding vendors is to ask distributors to cross-dock, in which a school orders from the farm but the distributor invoices and/or ships your product. In some cases, producers can ship directly as well. Micro purchases are a great vehicle for making direct organic purchases and are allowable by school districts within specified limits. Micro purchase and small purchasing thresholds are set by the state, currently at $10,000 for the 2020 year. Community partners like Community Alliance with Family Farmers (CAFF) can help navigate these procurement opportunities.

NEGOTIATE PRICES
Direct purchasing enables school food purchasers to have a close relationship with a farmer or food producer, which can allow them to negotiate directly. Sustaining an ongoing relationship can go a long way toward securing more favorable prices. Negotiating prices is a fair and customary practice. Key to being successful is knowing the cost of items offered by competitors. Working with your suppliers to understand cost breaks for volume and purchase frequency can help with negotiating a better price. In addition, groups of neighboring districts can form food purchasing cooperatives (co-ops) to use their collective buying power to secure better prices.

USE CONTRACTING TO SERVE YOUR ORGANIC GOALS
School food contracting — formal and informal — requires a competitive bidding process that abides by federal, state and local requirements. To improve your procurement contract, work in advance of the new contract cycle to put together a tailored bid specifying organic produce and products that you would strongly prefer, including a list of organic items requested. Indicating specific organic products at the outset of the bidding process ensures a distributor’s bid will address specified organic requirements. Utilize CAFF’s technical assistance and bid generator to create a bid that prioritizes organic while meeting legal requirements. You are permitted to include specific organic and geographic preference language and include desired/required organic items on your itemized bid list.

ADVOCATE FOR ORGANIC IN USDA FOODS PROGRAMS
Advocating for USDA programs to carry more organic food signals that there is demand, and is a first step to getting the USDA to consider increasing organic offerings in its subsidized food programs. California’s Unprocessed Fruit and Vegetable Pilot Program (UFVPP) has enormous potential to onboard local organic farmers; already a few products are being offered from California organic farms. Through an application process and within allocated budgets, your district’s Department of Defense (DoD) Fresh funds can be reallocated into this program via the CA Department of Education’s (CDE) Food Distribution Program. Using this program and prioritizing organic through the bid process can help increase the number of options available and encourage organic suppliers and producers to enroll in the state program. Advocating for organic items to be offered through DoD Fresh and USDA Foods is also important.

YOUR VOICE MATTERS!
Together, we can use our collective voice for change. Contact Friends of the Earth if you are interested in joining us to advocate for changes in policies that result in more organic foods being available through these USDA programs.
D. Develop Partnerships

ENGAGE PARTNERS, GET SUPPORT AND SEEK FUNDING

Partnerships with community organizations are a key ingredient for success in serving organic foods. Review the list of School Food Technical Assistance Resources in Appendix D to find help with procurement, curriculum, marketing, professional development, menu development, bid language, program redesign and farm-to-school programming.

School districts can build valuable partnerships to support values-based changes to their food service through the Good Food Purchasing Program or Eat REAL Program. By setting good food purchasing standards and offering technical assistance, these programs help districts make significant strides in setting and reaching goals to improve the quality of school food.

UPDATE YOUR WELLNESS POLICY

School district wellness committees are powerful vehicles that establish clear policies related to nutrition, student health and wellness. Wellness committees can be important for engaging district leadership, including superintendents, school board members, parents and others to support increased general fund budgets for school food. Wellness policies often point to the importance of healthful, minimally processed school food and can specify organic procurement preferences. For example,

Berkeley Unified School District’s wellness policy states: “Ensure that the food served shall be organic to the maximum extent possible, while maintaining fiscal responsibility.” Prioritizing organic foods in your wellness policy is a strategic investment in building momentum and buy-in for organic food. Districts can also include organic in their purchasing procedures and administrative regulations to boost organic foods in your program. Adopting policies and procedures helps organic consumption move beyond individual passionate leadership to becoming part of the school institution.

“\textit{I would stress to others that it doesn’t happen overnight, and it doesn’t happen alone. You can find people to write grant applications, to work with your facilities department, to connect with the community. Figure out what your needs are first, then you can identify the partners who can help make it happen.}”

- Kat Soltanmorad, Nutrition Services Director, Tahoe Truckee USD

OBTAIN FUNDING TO SUPPORT INNOVATION

Grant funds to support school district organic food initiatives and farm-to-school programs are available. Several districts interviewed for the Roadmap have received grants to support their meal programs and increase staff capacity. In California, school districts have a fresh opportunity with the new $8.5 million Farm to School Program administered by the California Department of Food and Agriculture. School districts and school food stakeholders will need to keep advocating for these funds to be made available beyond the initial funding year of 2021. You can find information about several federal and state government as well as private foundation grants in Appendix C.
E. Market your Program

Marketing your food service program is the single most effective strategy for increasing daily participation. Highlighting and communicating your program’s new initiatives, improvements and commitment to wellness as a means of supporting academic achievement raises visibility and builds community trust and support. Below are some examples of marketing strategies used by school district food service programs.

EMPLOY CONSISTENT, CREATIVE AND BOLD MARKETING STRATEGIES

Share the news and toot your horn! Marketing in a school food service context can mean many things. Creatively communicating new organic menu items or featuring an organic farmer can create loyalty, generate trust and positive associations with the program and increase participation. Understanding your audience and developing promotional capacity and skills (even if self-taught or secured through volunteers) is key to creating a successful marketing plan.

Educational Posters Colorful posters can inform your students about how their food choices make a difference. Many non-profit organizations provide excellent marketing materials, often available for free online. One example is the Community Alliance with Family Farmers’ (CAFF) cafeteria signage and various resources from the Center for Ecoliteracy (CEL).

Specify Organic Items on Hard Copy and Online Menus

Every school year, Berkeley Unified creates an artistic menu calendar which includes recipes, nutrition information, essential information about nutrition services, as well as colorful images of fresh fruits and vegetables.

Promotional Organic Menu Signs convey what is being served and list its ingredients. Colorful signs grab students’ attention and encourage them to try the items offered.

Program Branding Many school districts create a unique brand for their food service program to help with marketing and to reflect program values. Concepts like freshness, made from scratch, local, organic and home-grown can be conveyed through the program’s brand.

Friends of the Earth created this educational poster that encourages students to think about where their food comes from, how it is grown, and the impact of their meal on the environment.

San Francisco Unified School District displays this sign showing that the tomato soup is vegan, dairy free, wheat free, organic and local.

Encinitas Unified School District’s branding shows how to create a positive image of the program by designing a logo and program image.
CELEBRATE WITH YOUR COMMUNITY

Organizing a healthy food celebration that promotes specific organic and seasonal food items is a wonderful way to feature foods while engaging students in fun educational activities.

Examples of School Food Events:

- Eat a Rainbow Week
- Meet-a-farmer event, and/or farm field trips
- School garden education
- Student poster contest
- CA Crunch Day (hosted by CAFF)
- Student-led taste testing

Some of the most successful school food service programs employ at least a few of these strategies to communicate information about organic foods, new recipes, nutritional content and the positive impacts of purchasing organic on the local economy, agriculture and, most importantly, student health.

Many districts have been highly creative when faced with little marketing capacity by asking district staff, dietetic interns and committed stakeholders and partners for their support. Being resourceful and creative helps make a little marketing go a long way.

INcorporate Student Education

Other ideas include highlighting organic when taking part in “Harvest of the Month” and “California Crunch;” and promoting local and organic farmers and California-grown foods, such as CAFF’s Know Your Farmer program and CEL’s California Thursdays program.

San Luis Obispo Unified School District developed this local sourcing map to represent and promote where the food served at its schools comes from. This artfully designed map, created in-house by the district’s talented food service director, emphasizes foods produced within their own community.

Tell Your Story

Write Engaging Social Media Posts Making school food fun by telling the behind-the-scenes story of how the food is made, who prepares it and the ingredients that go into each meal is a fantastic way to create loyalty, support and enthusiasm for your district’s school food program among students and parents. Encinitas Unified uses Instagram to tell stories about freshness, pride and local and organic sourcing. By marketing organic menu items to parents, EUSD has seen steady rates of increased participation.

San Francisco Unified also uses social media to effectively communicate with the community, as shown by their promotions of organic bulk milk from Straus Family Creamery and organic strawberries from Coke Farms.

“We teach the kids about seasonality and where their food comes from. I am surprised by how many students know the farmers by name!”

- Chef Vince Caguin, Natomas USD
F. Assess Kitchen Infrastructure and Train Staff

Serving more organic foods may require additional staff training, financial resources and kitchen infrastructure. Even if you are not able to fully upgrade to scratch cooking, there are many ways to enhance your kitchen’s capacity to serve minimally processed organic foods.

BUILD SKILLS TO SUPPORT CHANGE

Scratch-cooked food is often the most cost-effective way to create organic meals. To support organic foods in your program, you may need to develop an in-house professional development and/or culinary training series to teach knife skills and more advanced culinary skills. A report co-authored by Friends of the Earth documents how a program called Conscious Kitchen helped three school sites invest in food service jobs, training and kitchen equipment upgrades. Once these investments were made, it became more cost-effective for the schools to serve organic food.

“I am most proud of having trained and empowered my staff to be able to prepare fresh foods. The organic food items included on the new salad bars have been the impetus for teaching scratch cooking and knife skills to staff, as they learn to slice and prepare produce for the salad bars.”

- Chef Michael Jochner, Director of Nutrition Services, Morgan Hill USD

Educating kitchen staff about the benefits of organic food and farming is valuable for creating buy-in and boosting participation. Having on-site personnel sharing information about the food with kids has been an effective way to get kids to try new items. Developing staff skills may include asking them to help market the program. Organizational partners, including Friends of the Earth, can help with this education. Consult our list of School Food Technical Assistance Resources for additional potential organizational partners.

PURCHASE EQUIPMENT TO SUPPORT YOUR PROGRAM

You may need to purchase kitchen equipment including items like a food processor, salad spinner, chef knives, blenders, mixers and other kitchen tools to help with chopping, washing, drying, making salads and dressings, mixing and preparing foods from scratch. More efficient scratch cooking will help facilitate more organic procurement. Other equipment may include a walk-in refrigerator or freezer, pantry shelving, resealable bulk food storage containers and other storage items.

APPLY FOR GRANTS OR ACQUIRE FUNDING

Review Appendix C to identify and apply for grants to provide professional development trainings and/or invest in infrastructure to support your program. Local fundraising may also be the right choice, depending on the infrastructure investment needed.

PLAN FOR BIGGER INFRASTRUCTURE INVESTMENTS

If there is a need for a kitchen renovation project or another large infrastructure investment, work with your school board and policymakers to secure funding. If a kitchen renovation is needed, this investment will require added planning, fundraising and often a bond measure. See this UC Berkeley report for recommendations on increasing kitchen infrastructure for schools.
Seven stories are highlighted here to inspire and generate ideas for organic products, partnerships and pathways. More detailed case studies on these districts can be found in Appendix A. The food service programs included here were selected because they represent a diversity of different-sized programs; span from urban to rural settings; and have a range of free and reduced-price lunch participation. Illustrating a range of different programs, these snapshots and stories of success feature organic foods you can use.

### Buying Organic: What Does it Take?
- Passionate leadership from key decision-makers
- Commitment to student health
- Dedicated staff willing to expand their skills
- Supportive school board and school community
- Creative use of entitlement dollars (or commodities)
- Strategic marketing and effective student engagement
- Better policies and funding to support organic procurement

### Organic Purchasing Tips
- Buy in-season and locally produced foods
- Purchase milk and dried goods in bulk
- Build direct relationships with farmers, food hubs and regional distributors
- Develop partnerships with organizations that can support your program
- Take small steps and celebrate all victories

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### ENCINITAS UNION ELEMENTARY SCHOOL DISTRICT

Lea Bonelli, Nutrition Services Director

Encinitas in San Diego County, CA (suburban)

**Nine** elementary schools

5,342 students

15.4% eligible for free & reduced-price meals (FRPM)

244,980 lunches served (annually)

**Food service model:** Central kitchen; scratch cooking; family-style; waste reduction/composting; district organic garden; local and organic food

**Sources for organic foods:** American Produce, The Farm Lab (Encinitas USD Farm) and direct purchasing from local suppliers

**Featured organic items:** ground beef, chicken drumsticks, fruits, vegetables

**Key partnership:** The Ecology Center in Encinitas, CA

**Success story:** By marketing new organic menu items to parents, Director Bonelli was able to increase participation in her school meal programs by 16% in five years. This increase generated a bigger budget for her program, enabling more organic food purchases. EUSD has sourced a diversity of organic foods including meats, poultry and produce. Some organic produce is grown on the district’s 10-acre organic farm, which is managed by a local non-profit, The Ecology Center. Other organic produce is purchased via their distributor, American Produce. EUSD’s full case study can be found [here](#).
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MORGAN HILL UNIFIED SCHOOL DISTRICT

Michael Jochner, Director of Nutrition Services
Morgan Hill, Santa Clara County, CA (suburban)
15 K-12 schools, plus an adult continuation school
9,022 students
36% eligible for free & reduced-price meals (FRPM)
373,961 lunches served (annually)

Food service model: On-site cooking; scratch cooking; bulk purchasing; local and organic produce; waste reduction
Sources for organic foods: Daylight Foods, Goldstar and Sysco
Featured organic items: Fuji and Pink Lady apples, strawberries, blueberries and black beans
Key partnership: LunchAssist

Success story: In 2019, Morgan Hill Unified School District (MHUSD) launched its Fresh Meals program to increase its selection of fresh fruits and vegetables and began offering salad bars at four of its eight schools (the remaining schools plan to come on board in school year 20/21).
One positive result is that participation has significantly increased. The program focuses on fresh and local scratch cooking and sourcing local and organic products from Daylight Foods. In recent years, the program transitioned from individually packaged meals to scratch cooking. By increasing fresh food options, buying in bulk and eliminating individually-wrapped items, the district has increased healthy food consumption and reduced packaging and food waste — reducing the district’s carbon footprint! MHUSD’s full case study can be found here.

NATOMAS UNIFIED SCHOOL DISTRICT

Vince Caguin, Director of Nutrition Services & Warehousing
North of downtown Sacramento (suburban)
14 K-12 schools
15,595 students
50.5% eligible for free & reduced-price meals (FRPM)
1.2 million lunches served (annually)

Food service model: Scratch cooking; in-season, local, organic produce; seasonal menus
Sources for organic foods: Pacific Rim Produce, Pacific Star Garden and direct purchasing from local suppliers
Featured organic items: tomatoes, lettuce, turkey, butternut squash
Key partnerships: Community Alliance with Family Farms (CAFF), California Department of Food Agriculture (CDFA) and Center for Ecoliteracy (CEL)

Success story: In 2019, Vince Caguin, Director of Nutrition Services and Warehousing, began buying from local and organic farms after launching a salad bar program a few years earlier. Chef Vince purchases as much locally grown produce as possible and seeks out organic or transitional organic foods to feed his students. He adapts and creates menus based on what is in season and available locally, and frequently connects with the farmers to learn what is coming into season to develop the district’s school lunch menu. By focusing on scratch cooking and saving money through bulk raw food purchases, Chef Vince has been able to buy more organic foods. He views his role as that of an educator, introducing students to new foods to develop their pallets. He has invested time and care in his relationships with farmers, and helps his students get to know them as well. NUSD’s full case study can be found here.
**Organic School Food: A Roadmap for Success**

**Success story:** RUSD has been a leader in the farm-to-school movement since 2005. The district is dedicated to bringing farm-fresh and organic produce to its students, along with agricultural and nutrition education. Underlying RUSD’s commitment to fresh and organic foods is the belief that good eating habits are formed early. By focusing on scratch cooking, RUSD produces most of its food in-house, and has a central kitchen where staff wash, chop and prep all the fresh produce for school cafeterias. The central kitchen staff preps all the organic lettuce for the elementary school salad bars, as well as prepared salads and other produce items for older students. The district’s central kitchen infrastructure allows staff to process substantial amounts of fresh produce from local and organic farms. By building strong relationships with local farmers, RUSD supports the local economy by investing its dollars in local farms via the Riverside Food Hub. RUSD’s full case study can be found [here](#).

**Success story:** San Luis Coastal USD’s emphasis on locally sourced, fresh and organic foods, has been a recipe for success. Under the leadership of Director of Nutrition Services Erin Primer, San Luis Coastal prioritizes local food businesses and locally produced food — proudly displayed on its website using a creative and attractive local purchasing map. Included on this map are four certified organic farms. The district has successfully demonstrated how to make a delicious scratch-cooked organic lentil burger — a hit among students — as well as a homemade mac n’ cheese dish using organic pasta and Cal Poly Creamery cheese from two local businesses. The mac n’ cheese was featured in a Blue Apron-inspired Thanksgiving meal kit sent home to families. SLCUSD’s full case study can be found [here](#).
Success story: When San Francisco Unified School District rolled out Straus Family Creamery organic bulk milk at a few low-income San Francisco elementary schools, it was a huge success. Buying organic milk helped the district achieve its Good Food Purchasing goals related to environmental sustainability and animal welfare. The difference in quality is amazing, according to SFUSD, which means a triple win — for the students and their health; for supporting organic agriculture and family farming; and for saving money and reducing waste! SFUSD also buys organic produce, especially strawberries, from Coke Farms through the Unprocessed Fresh Fruit and Vegetable Pilot Program via Daylight Foods. SFUSD’s full case study can be found [here](#).

Success story: Tahoe Truckee Unified School District (TTUSD) has a clear mandate — supported by the district’s superintendent, board of education and the community — to transform its food service program to scratch cooking; bulk purchasing; increased local and organic purchasing; and prioritizing waste reduction and composting. Working with three main distributors, TTUSD emphasizes fresh produce and supports local farmers and organic procurement as much as possible. Approximately 10% of the district’s local and organic produce comes from the Tahoe Food Hub. Produce Plus, also known for its organic and local selection, represents 60-70% of the district’s produce purchases. TTUSD’s full case study can be found [here](#).
This Roadmap is intended to provide practical tips for launching or expanding organic purchasing and setting priorities that work for your district’s school food service. With specific guidance from a range of successful food service programs, we hope that the information, resources and data shared here will inspire a clear and bold vision of what is possible in your school district.

All students deserve to be well-nourished, particularly low-income kids who participate in the National School Lunch Program and may lack access to healthy, organic food at home. The food served at school does not just represent calories and nutrients, it carries a story that has human and environmental impacts throughout the supply chain, from the farms to cafeteria tables. By increasing purchases from suppliers that use organic, climate-friendly farming practices, you can provide healthier food for kids, while mitigating climate change and fostering robust and resilient regional food systems that provide new markets for small- and mid-scale farmers and ranchers. Climate change is a fundamental threat to our children’s future — and school districts and their food service programs can be critical points of intervention to provide the healthiest and most nutritious, climate-friendly food possible to our young people.

We hope this tool inspires you to leverage the buying power of school districts and take bold action in support of healthy kids and a healthy planet. You can count on Friends of the Earth to be by your side as your journey takes flight!
Organic School Food: A Roadmap for Success

APPENDICES

Appendix A: Organic School Food Case Studies
1. Encinitas Union
2. Morgan Hill USD
3. Natomas USD
4. Riverside USD
5. San Luis Coastal USD
6. San Francisco USD
7. Tahoe Truckee USD

Appendix B: Organic Product and Supplier List

Appendix C: Grant Opportunities for School Districts

Appendix D: Organic School Food Technical Assistance Resources

Appendix E: Why Organic School Food: Benefits of Organic Food and Farming

REFERENCES