Healthy Foods for Navajo Schools

Discoveries of Navajo Farm to School Program

November 2014

Revised
Farm to School Team

This STAR School project was funded by First Nations Development Institute and USDA Farm to School Grant Program
# Table of Contents

1. **The Purpose of This Manual** ................................................................. 3

2. **Why Farm to School?** ........................................................................... 3
   Our Story .................................................................................................. 4

3. **Food Safety—What Rules Apply?** ....................................................... 5
   Overview ................................................................................................. 5
   School Cafeterias and Kitchens ............................................................. 5
   Farms ....................................................................................................... 6
   School Gardens ....................................................................................... 7

4. **Choosing Your Path to Healthy Food** .................................................. 7
   A Farm to School Decision Tree ........................................................... 8
   What Resources Will You Need? ........................................................... 9
   Can You Buy Direct? ............................................................................... 10
   Meet with Local Farmers ...................................................................... 10
   Adapt Your Menus ............................................................................... 11
   Processing and Storage ...................................................................... 11
   Contract ................................................................................................ 11
   Is the School Kitchen Ready? ............................................................... 11
   Special Issues for School Gardens ....................................................... 11
   Challenges and Opportunities ............................................................. 11

5. **Some Considerations for Your Partner Farms** .................................... 11
   Getting Certified .................................................................................. 11
   Planning for Production ...................................................................... 12
   Challenges ............................................................................................ 12
   Opportunities ........................................................................................ 12

6. **More Resources and Links** ................................................................. 13

7. **Appendices** ......................................................................................... 15
   A. USDA Good Handling Practices/Good Agricultural Practices (GHP/GAP) Audit Program Sections ........................................................... 15
   B. Arizona Department of Health Services Guidelines for School Gardens .................................................................................................. 17
1. The Purpose of This Manual

This manual was developed as a part of STAR School’s Navajo Farm-to-School Project funded by First Nations Development Institute in spring 2012. To continue our Farm to School program STAR School received funding from USDA Farm to School Grant Program for 2013-14. Its purpose is to create a comprehensive Farm to School (F2S) plan and a culturally relevant model for the Navajo Nation schools. This F2S program links a Navajo farm with a Navajo community-based charter elementary school plus provides a road map for other schools interested in school gardens and partnerships with local farms. In this manual, we address issues specific to the Navajo Nation as well as general issues that any school and farm would need to consider when considering a farm to school partnership.

The farm to school landscape is evolving quickly and each partnership involves a unique set of circumstances. A growing body of knowledge and extensive resources are available to support new and expanding programs. This introduction will provide a starting point for those exploring bringing healthy foods into their school. We hope that our experience will help inform future partnerships and encourage others to document and share their successes and lessons learned.

F2S benefits children and communities by…

- Offering fresher, more nutritious food
- Exposing children to a variety of locally produced healthy foods through Home Economics class
- Supporting healthy eating habits by sponsoring annual Health Fairs, annual Harvest Festivals, wellness camping trips and monthly wellness walks
- Reducing childhood obesity and diabetes; according to student feedback, it is important to them to learn more about healthy eating and staying physically active
- Providing opportunities to learn about the land, traditional foods and traditional growing practices, and how both support cultural values
- Students learn hands on to demonstrate growing food as a way of life and livelihood; Honoring Our Plant Community booklet is conducted by the middle school students in areas of science and technology. It is a research project in plants used in medicinal use, traditional recipe of native plants, elder interviews and scientific information.
- Building your local food system; locating local producers and using food service companies to find local food products.
- Supporting local farmers and the local economy; our middle school students sponsor Dine’ Bi’chiyaa breakfast sales monthly to raise funds for local farmers to purchase gardening tools. A different heritage food recipe is featured on the menu for the breakfast sales.
Our Story

Farm to School partnerships are typically initiated by farms, but this project began at STAR School. Our off-grid charter school is located 25 miles East of Flagstaff, Arizona and serves 130 students in pre-school through grade 8 who live in the Southwest corner of the Navajo Nation and the surrounding rural area. We are committed to sustainable technologies like solar power and alternative building methods and a philosophy of ‘living in balance and serving all our relations’ (http://www.starschool.org/star/about-us).

From the very beginning of the STAR school, the focus has been on preparing the whole child to be a contributing and responsible member of their family, community and nation. Our vision of a farm to school program would not only provide the school with more nutritious food, but would strengthen linkages between the school, local food producers and neighboring Navajo farms building local capacity that will help overcome economic and technical barriers to improving all of the people’s health and well-being.

With funding from First Nations Development Institute and USDA Farm to School Planning grant we set out to learn about how to effectively partner with nearby farms to bring a variety of locally produced foods into the school. Water supply and production issues were barriers for the first farm we worked with, but we were able to move ahead with North Leupp Family Farm, a family/market farm about 25 miles away from the school located on the Navajo Nation (https://sites.google.com/site/leuppfarm/).

Our goal was to feature local foods in our school breakfast/lunch program, home economics classes and community events hosted by the school throughout the year. The farm could easily provide us with their surplus blue corn (dried kernels and flour), squash, pumpkins, melons and greens, all welcome additions to our menu with most of these our traditional Navajo foods. Farmers were willing to do food demonstrations and invited students to the farm to help with the harvest and use the traditional bread ovens there to make pizza on an overnight trip—one of our two annual camping trips. The students really liked getting to know the farmers and learning about how food is grown.

Because the farm was not yet certified as an approved food source (for definition, see Food Safety—What Rules Apply?) we were limited in our ability to serve farm products this year, but we gained a lot of valuable information and experience for the next growing year. Since we received our USDA grant, we were able to use local products in creating new recipes with our students.

“Being part of the Farm to school program, I got to go to the White House and meet Michelle Obama.”
Natasha

“It teaches kids how to respect mother earth.”
Joshua

“I like how we use the Little Colorado River water to water our crops that we grow to use and eat.”
Madison
3. Food Safety—What Rules Apply?

Overview

We discovered a complex and evolving jurisdictional landscape complicated further by the fact that STAR School is located on private land in Coconino County with our partner farms are on reservation land governed by the Navajo Nation. An additional complicating factor was our desire to integrate produce from our school gardens into the school’s food system.

Not only do food safety rules and authorities differ between jurisdictions, they also differ between facilities that prepare and serve food (school kitchens and cafeterias) and those that produce food (farms and school gardens). The following summarizes the jurisdictional and regulatory environments for school kitchens and cafeterias, farms and school gardens both on and off tribal land in Northern Arizona.

School Cafeterias and Kitchens

Federal, state, and county regulations define school cafeterias and kitchens as food establishments subject to the US Food and Drug Administration (FDA) Food Code. This code requires that food establishments buy only from an approved source—farms that have adopted growing and handling practices that meet the standards of an approved certification program and pass periodic on-site audits. They must also follow defined best practices in handling food within their facility and are subject to periodic inspections. This code applies to off-reservation schools. Schools located on tribal lands are governed by the tribally approved food safety code. For more information, contact Arizona Department of Education Farm to School and School Garden Program Specialist.

Schools not on tribal land fall under state and county jurisdiction. Their kitchens must obtain a food safety permit and pass periodic inspections from their county health department. Certified kitchens must have an approved food safety plan in place, commonly referred to as a Hazard Analysis and Critical Control Points (HACCP) Plan.

Schools located on tribal land operate under the jurisdiction of their tribal government. They are typically permitted through a tribal environmental health department with inspection services provided by Indian Health Service (IHS) or a designated local authority funded through IHS. If a tribe has a food safety policy in effect, it will be the standard applicable to schools located on their land. That policy will drive permitting and enforcement.

Because food safety policies are complex and evolving, the FDA Food Code is typically adopted as tribal policy. If the FDA Food Code has been adopted by a tribal government, as it has been by Navajo Nation, all food establishments including schools are required to buy only from an approved source and follow defined best practices in handling food within their facility.

It is important to note that IHS authority is advisory on tribal land, although their inspectors can work closely with food establishments to help them comply with regulations. If unsuccessful in getting compliance from a food establishment, IHS will refer the situation to the tribal department with authority over food safety. On Navajo Nation, the Office of Environmental Health issues food safety permits and is responsible for enforcement.
Farms

On non-tribal land in Arizona, the US FDA Food Code and other federal and state laws apply. To sell produce to schools and other food establishments, farms must be an approved source.

Because Navajo Nation has adopted the US FDA Food Code as their tribal food safety code, farms and schools on Navajo Nation follow the same rules. In sum, all on- or off-reservation farms involved in a farm to school partnership within Arizona must become an approved source prior to selling produce to their partner school.

There are a variety of certification programs for farms to become an approved source. The most common is the USDA Good Handling Practices/Good Agricultural Practices Certification (GHP/GAP), although there are others offered by independent organizations (http://www.unitedfresh.org/assets/pdfs/Who%20is%20Auditing.pdf).

Each certification program has its own level of rigor and complexity, with GHP/GAP the most basic, achievable level. Although GHP/GAP certification meets federal standards, produce buyers have the option of determining the certification level they require from their suppliers and may choose more stringent certification programs. Even though it is the most basic, some requirements of GHP/GAP still may pose a challenge to small growers in this region (Appendix A).

School Gardens

In response to a growing interest from schools in integrating production from their gardens into their cafeterias, the State of Arizona has developed new guidelines specific to school gardens (Appendix B). The two-page guidelines are the result of collaboration with the Arizona Department of Health Services (ADHS), Arizona Cooperative Extension and the Arizona Department of Education. They were developed to help schools and districts make a case to county health departments for designation of a school garden as an approved source, allowing garden produce to be used in the school’s cafeteria.

The new rules are simplified USDA GHP/GAP protocols expanded to address special issues of concern, such as

<table>
<thead>
<tr>
<th>Some GHP/GAP certification requirements may be challenging for farms...</th>
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<tbody>
<tr>
<td>Develop a food safety plan, regularly document practices and train workers</td>
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<tr>
<td>Have potable water onsite for hand washing, harvesting, and cleaning</td>
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<tr>
<td>Periodically test irrigation water for water quality</td>
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<tr>
<td>Monitor fields for contamination from animals or livestock</td>
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<tr>
<td>Document that manure used for fertilizer has been properly treated and stored</td>
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<tr>
<td>Test soils if there land has a high risk history (e.g., flooding, feed lot)</td>
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<tr>
<td>Have and regularly maintain restrooms or portable toilets onsite</td>
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<tr>
<td>Have new or sanitized harvesting containers for field packing operations protected from contamination</td>
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<table>
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<tr>
<th>Some State certification requirements for school gardens...</th>
</tr>
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<tbody>
<tr>
<td>Develop a food safety plan, regularly document practices and train anyone working in the garden</td>
</tr>
<tr>
<td>Have potable water onsite for hand washing, harvesting, and cleaning</td>
</tr>
<tr>
<td>Periodically test irrigation water for water quality. Water types; municipal water, well water and surface water</td>
</tr>
<tr>
<td>Harvested water is not recommended to be used in the garden under current regulations.</td>
</tr>
<tr>
<td>Exclude all animals from the garden</td>
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<tr>
<td>Use only commercially certified compost and fertilizers.</td>
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<tr>
<td>Keep sick children out of the garden.</td>
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<tr>
<td>Soil must be tested for lead.</td>
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food contamination from activities near the site, water harvesting, animals, manure, and compost.

ADHS has recently created a new position to work with state schools wanting to serve school garden produce in the school. The School Garden Sanitarian/Health Educator’s mission is to ensure conformity with the State guidelines through outreach and onsite inspections. (See More Resources and Links for contact information.) If gardens comply with the guidelines, a certificate as an approved source will be issued. It is ultimately up to each county health department whether they accept this certificate.

4. **Choosing Your Path to Healthy Food**

Any school wanting to bring fresh, local produce into their food system should first convene a team of key administrative, teaching, food service and maintenance staff to outline your goals, identify your resources and timeline, and explore alternative pathways to meet your goals. Options include developing partnerships with one or more neighboring farms, growing onsite in school gardens or a combination of both. We have developed a decision tree to graphically outline key steps and considerations followed by some important questions to consider at each step.
What Resources Will You Need?

The benefits of serving local foods in schools are many, but buying local foods typically costs more than buying produce from a food wholesaler. There can also be significant additional costs for the staff time, supplies, equipment and infrastructure needed to build and support your program.

You'll need to identify sources of funding prior to entering into a farm to school agreement. Farm to School grants are available from USDA and other funders to support these programs. USDA school lunch subsidies and the Fresh Fruit and Vegetable Grant Program, a program to purchase healthy snacks for elementary schools serving low-income populations, can be applied to support purchases from local farms. The National Farm to School Network (http://www.farmtoschool.org) and the USDA Farm to School Program (http://www.fns.usda.gov/cnd/f2s/) are excellent resources for finding available grants.

The following questions may help you clarify your best pathway to fresh local produce and identify what resources you’ll need.

Is Your Kitchen Ready?

- Do you have the commitment of your kitchen staff?
- Do your menu planning and purchasing schedules fit with farm planning and production schedules?
- Do you have the kitchen space and equipment (e.g., produce sink, processing space, and freezers) needed to prepare the produce and process and store the excess harvest?

Would you like to have a school garden?

- Do you have an appropriate site for a garden with available water?
- Who will design, build and care for the garden?
- Will you use volunteers? If so, who will coordinate them?
- Will you build curricula around the garden? If so, how will that work and how will you coordinate among the different garden users?
- Will you use garden produce in the cafeteria or for snacks? If yes, can you meet the state regulations for a certified garden?
- How much and what type of produce will you grow?
- When will it be available and how much will need to be harvested at once?
- What happens to the garden over summer break and holidays during the growing season?
- What about a greenhouse instead of or in addition to a garden?
Would you like to have a farm to school partnership?

- Are there nearby farms with the interest and capacity for an effective partnership?
- Are the farms already certified or willing to become certified?
- Who will be the school’s liaison with the farm?
- Will you build curricula around the farm? If so, how will that work and who will be involved?
- How much and what type of produce will you buy?
- When will it be available and how much will need to be harvested at once?
- What are your price points?
- Would you be willing to create an MOA with your local food producers?

Can You Buy Direct?

Your school’s ability to purchase from independent vendors may be limited by local policies. Independent charter schools, tribal schools and Bureau of Indian Education (BIE) schools are able to buy fresh produce directly. In fact, BIE schools are encouraged to do so by the BIE Health and Wellness Policy.

Purchasing policies for state schools can be complex. Districts typically purchase through formal bids on an annual purchasing contract, although districts and possibly individual schools have the option to buy seasonally from local growers under an informal three-bid procurement process. As an alternative to a farm to school partnership, state schools can choose to opt into the US Department of Defense Fresh Fruit & Vegetable Program (http://www.fns.usda.gov/fdd/programs/dod/) and divert some of their USDA entitlement funding to purchase fresh produce. Stern Produce, a national vendor is the current distributor for the program. Stern provides a ‘local’ option, but this only guarantees that food is grown within the school’s state. Currently, no organic option is available.

Our experience with locating organic/nonorganic local food produce has been challenging. We have determined that the best way for our school to purchase local foods is through our food distributor, Shamrock Foods Company. Shamrock purchases from local organic/nonorganic growers and makes regular delivery to our school. During the month of September STAR School welcomed a Food Corps service member to help with garden projects. The service member helped build and maintain school gardens and greenhouse.

Our local produce served in school meals averages in the fall months 19.83% from 23% in the spring months. The only local food items we were able to purchase from July 2014 to the end of September through Shamrock Foods Company were the dairy, tomatoes, cucumbers and eggs. We received fresh fruits and vegetables through the USDA Department of Defense Program but none are local produce. The lack of local food availability is due to the hot weather in Arizona during the summer months.

Although policy limitations are a factor, they are not necessarily insurmountable. But should be considered well in advance of starting a farm to school partnership.

Corn, squash, dry beans and pumpkins are local, traditional foods that have a long shelf life and can be easily processed for storage.

Carrots, leeks, or potatoes are other options if your farm has the capacity to grow them.
Meet with Local Farmers

To integrate farm products into our school lunch program, we found out what local farmers can grow well and when their produce will be available. As part of locating local food producers, our project director had to drive out to meet with individual producers identified as potential suppliers. Matching school needs with farm production requires pre-planning with farms and up front buy-in from school administration, the school or district nutritionist and food services staff.

Food service personnel need to identify potential farm partners and meet with them early to find out what crops they can grow successfully and how much volume they can supply. Ask for price points and projected range of harvest dates for each crop. It’s a good idea to start simply by choosing one or a few products that you can handle fresh and easily process for storage.

Adapt Your Menus

Menus need to be adapted to match available farm products, production volume and timing. Consider the capacity of your food service staff to handle fresh produce and to prepare and process excess for longer-term storage. Food service staff should work closely with a nutritionist to ensure that the new menu items are not only nutritious but satisfy requirements for school breakfast/lunch subsidies.

For a Farm to School/School Gardening program to succeed your food service staff must be committed to the program and be willing to be creative and flexible, especially as unexpected situations arise. Our Home Economics class achieves in creating new recipes by students along with providing input and preferences of taste-testing to support our school meals program. The recipes include foods grown locally. Arizona Department of Education Farm to School/School Gardening coordinator helped us with adjusting recipes into standardized recipes to be used in school meals. Beginning farm to partnerships should have a simple, achievable plan that minimizes complexity for both the farmer and the school.

Processing and Storage

Consider choosing produce that has a long shelf life or can be processed simply to extend use beyond the harvest season. If your kitchen has the capacity, consider simple processing methods like freezing, drying, pickling, or canning. This requires additional time for kitchen staff, so consider using volunteers, interns, or special programs like AmeriCorps.

Contract

Schools can either buy excess production from farmers or negotiate a contract specifying what crops they will grow, how much you will buy, at what cost, terms of payment and how to ensure quality of product. A contract offers farmers a predictable source of income and can be a valuable planning tool if negotiated in advance of the planting season. Contracts also offer schools a reliable source of local produce and an opportunity to plan ahead.

Some Estimates for a STAR School Year

<table>
<thead>
<tr>
<th>Produce</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>zucchini and assorted squash</td>
<td>900 lbs</td>
</tr>
<tr>
<td>Indian corn</td>
<td>400 lbs</td>
</tr>
<tr>
<td>blue corn</td>
<td>1000 lbs</td>
</tr>
</tbody>
</table>

We could also use greens, sweet corn, pumpkin, watermelon, crookneck squash, cantaloupe as available.
5. Some Considerations for Partner Farms

Getting Certified

One of STAR School’s key goals was to help build the capacity of local farms to produce for local markets. Although farming is a long Navajo tradition, most of the growing has been to meet family needs. Few farmers are currently growing for market. Much of our first year was dedicated to building relationships with our farmers and helping the farm develop their own capacity and strategies for the second year. Since then we have built a strong relationship with our local Navajo farmers. Our students have taken field trips to North Leupp Family Farms to practice the four seasons of gardening through the school year, to help with clearing for irrigation, planting, watering, weeding, harvesting and cleaning up the farm after fall harvest. Students have also made connections with our local Navajo elders during our site visits.

As we have described above, partner farms need to be or become an approved food source. Currently, no farms in our area have that certification. Any grower interested in GHP/GHP training can request information on future courses through the Yuma County Cooperative Extension until September 2013 (see More Resources and Links for contact information). Unless funding is extended, the course will only be available in Arizona online thereafter.

Planning for Production

Ideally, farm and school staff would develop their plan in early spring. The meeting should include the farm management, school administration and food service and key teaching staff. The goal would be to discuss farm production and curricular opportunities at both the farm and school for the following school year.

Challenges

Food safety regulations continue to evolve and gain complexity. New standards for produce safety defined under the FDA Food Safety and Modernization Act of 2011 will come into effect for small and very small businesses in two to three years. The scope and impact of these new regulations is currently unclear. New commodity-specific guidelines have been developed in response to continued concerns regarding the microbial safety of fresh produce. These guidelines are currently voluntary, but may move toward regulatory status.

Opportunities

Farm to school partnerships are well positioned to help farms expand their markets further through value added products. The Taos County Economic Development Corporation’s Taos Food Center offers a successful model for opening a commercial kitchen to community members for processing a range of value added local products (http://www.tcedc.org/TFC.html). STAR School’s recent kitchen expansion has created an extra commercial kitchen space that could be utilized for this purpose.

Summer internships or farm experiences could be developed for youth to learn traditional and contemporary agricultural methods to both support deep-rooted cultural understanding and provide vocational training.
Greenhouses (ideally with solar heat) can be utilized to expand growing options and extend the production season.
6. More Resources and Links

Farm to School Program Contacts

Ashley Schimke, Farm to School Specialist
Arizona Department of Education
602-364-2282, Ashley.Schimke@azed.gov

Cindy Gentry, National Farm to School Network State Lead
Community Food Connections
602-493-5231, cgentry@foodconnect.org

Kacie O’Brien, Western Region Farm to School Staff
US Department of Agriculture (USDA)
415-645-1925, Kacie.O’Brien@fns.usda.gov

School Garden Outreach and Certification

Kathryn Mathewson, School Garden Sanitarian/Health Educator
Arizona Department of Health Services
602-364-3952, Kathryn.mathewson@azdhs.gov

Monica Pastor, Agricultural Literacy & School Garden Food Safety
Arizona Cooperative Extension, 602-827-8200 x 317, MPastor@cals.arizona.edu

GHP/GAP Training and Audit Support

Dr. Kurt Nolte, Area Extension Agent and County Director
Yuma County Cooperative Extension
928-726-3904, knolte@cals.arizona.edu

Stewart Jacobson, Food Safety Projects Coordinator
Arizona Department of Agriculture
602-542-0950, sjacobson@azda.gov

Laws, Regulations and Policies

US Food and Drug Administration (FDA) Food Code -
http://www.fda.gov/Food/GuidanceRegulation/RetailFoodProtection/FoodCode/default.htm

FDA Food Safety and Modernization Act of 2011 -
http://www.fda.gov/Food/GuidanceRegulation/FSMA/default.htm

Commodity Specific Guidelines for Leafy Greens -

Commodity Specific Guidelines for Fresh Tomatoes -
Appendix A

The GHP/GAP Audit Verification Program audits the following. Note that not all sections are required for every facility. General Questions, Parts 1 and 2, and Required Documentation are relevant sections for a local Farm to School Partnership where washing and processing is completed in the school’s kitchen. See the full audit checklist:
http://www.ams.usda.gov/AMSv1.0/getfile?dDocName=STELPRDC5102511

General Questions:

▪ Food Safety Program
▪ Worker and Visitor Health and Hygiene Practices
▪ Traceback

Part 1 -- Farm Review:

▪ Water Usage, Sewage Treatment, Animals/Wildlife/Livestock
▪ Manure and Biosolids
▪ Soils -- Previous Land Use
▪ Traceback

Part 2 -- Field Harvest and Field Packing:

▪ Worker Sanitation
▪ Field Harvesting and Transportation
▪ Traceback

Part 3 -- House Packing Facility:

▪ Receiving
▪ Washing/Packing line
▪ Worker Health and Personal Hygiene
▪ Packinghouse General Housekeeping
▪ Pest Control
▪ Traceback

Part 4 -- Storage and Transportation:

▪ Containers and Pallets
▪ Pest Control
▪ Ice
▪ Storage and Temperature Control
▪ Transportation and Loading
▪ Traceback
Part 5 -- Suspended

Part 6 -- Wholesale Distribution/Terminal Markets:

- Receiving
- Storage Facility/Temperature Control
- Pest Control
- Repacking and Reconditioning
- Shipping and Transportation

Part 7 -- Preventative Food Security Procedures:

This section covers the possibility of intentional contamination or tampering of the product.

- Food defense plan
- Training
- Visitor check-in policy
- Vehicle parking for employees and visitors
- Movement of employees while on the premises
- Positive identification of employees.

Required Documentation

- A documented Food Safety Plan
- A written standard operating procedure (SOP) -- This will explain or demonstrate how your farm or production company complies with each audit section.
- Records for specific actions that are taken, such as regular cleaning of food contact surfaces, refrigeration areas or transportation machinery.
- Records of periodic and scheduled self-audits or internal audits of the program.
- The person designated to oversee the food safety program.
Appendix B

Arizona Department of Health Services
Guidelines for School Gardens (GD-105-PHS-EDC)
Published June 7, 2013, Effective Date: May 17, 2013

Available online http://www.azdhs.gov/diro/admin_rules/guidance_PHS_BEDCS.htm

This guidance document has been prepared to provide schools with recommended standards for on-site gardens in which produce is grown to be served by the school to individuals. The Arizona Department of Health Services recommends that a school that wants to grow produce in a garden on school grounds to be served to students, teachers, parents, or guests of the school comply with the following:

The administrator of the school should:

- Designate an individual at the school who is knowledgeable about or trained in Good Agricultural Practices (GAP) and Food Safety, as it relates to the type of produce being grown, to be the Person In Charge (PIC) of the garden and be responsible for managing the garden and overseeing daily operations.
- Ensure that a written Food Safety Plan (describing Who, What, Where, How, and When) is developed to ensure GAP is implemented by the PIC and that the PIC maintains written documentation demonstrating that the Food Safety Plan is being adhered to.
- Ensure that an outdoor garden is not located:
  - Adjacent to a well, septic system, garbage dumpster, in ground storage tank, compost area, school animals (rabbits, tortoises, birds, etc.), or animal enclosure.
  - In a low-lying, poorly drained area.
  - In an area subject to any kind of chemical application: herbicide, fungicide, or pesticide.
- Ensure that toilet facilities and sanitary hand washing facilities, including dispensed soap, dispensed hand towels, and drainage collection are provided at, and in close proximity to, all garden areas. Signs should be posted in garden area to wash hands. Drainage collection, if not plumbed to a sanitary sewer, should include a holding tank that is larger than the water supply holding tank.
- Provide a first aid kit.
- Ensure that the produce harvested from the garden is:
  - Rinsed with clean potable water to further remove soil and particulate matter, prior to consumption.
  - Prepared under sanitary conditions, in accordance with local food code requirements, and overseen by a person trained in Food Safety with a food handler’s card, if available.

The PIC for a garden at a school should ensure that:

- Water used for hand washing, harvesting, or cleaning of equipment or utensils is from a municipal source or meets the minimum drinking water quality standards.
- If well water is used for growing the produce, the well water is tested once during the growing season and treated if necessary to meet the GAP and Good Handling Practices Certification Program requirements.
- If irrigation (surface water) is used for growing the produce, the irrigation water is tested three times during the growing season and meets the microbial requirements of the EPA Recreational Water Standard.
- Collected rainwater shall not be used for edible plants.
- Unless using commercially produced soil in a container garden, the soil in the garden is tested for lead, and that the level of lead in the soil is less than 300 ppm.
• Any fertilizer or compost containing animal products such as manure, blood meal or dried blood must be from a commercially produced source and records from the supplier kept on the premise at all times.
  o School made compost shall not be used for edible plants.
• Weeds are controlled with mulches, hand-pulling, or weeding implements, not with herbicides.
• An outdoor garden is protected from animal intrusion by fencing or otherwise enclosing the garden area.
• Raised beds shall use only non-toxic, non-leaching materials for the frame.

When the produce is ready to be harvested, the PIC should ensure that:

• Individuals harvesting the produce shall
  o Wash their hands before beginning to work or returning to the garden,
  o Wear non-latex disposable gloves,
  o Avoid contact with animals,
  o Eat and drink in designated areas away from the garden,
  o Stay home if they are sick.

• All soil and particulate matter is manually cleaned from the produce before placing in the harvest container.
• The produce is stored in food-grade quality, reusable containers that has been washed, rinsed, and sanitized, or single service containers such as paper bags, during harvesting and post harvest.
• Produce with bird droppings on it is not harvested unless the produce item will be washed and cooked prior to consumption.