



PENNSYLVANIA LEGISLATIVE BLACK CAUCUS & HOUSE DEMOCRATIC POLICY COMMITTEE JOINT PUBLIC HEARING

Topic: Healthy Food Options and Dairy in Our Communities

**Walter Biddle Saul High School of Agricultural Sciences – Philadelphia, PA
April 5, 2018**

AGENDA

10:00 a.m. Welcome and Opening Remarks

- Representative Jordan Harris, Chairman, Pennsylvania Legislative Black Caucus
- Representative Mike Sturla, Chairman, House Democratic Policy Committee
- Earl Fink, Executive Director, Pennsylvania Association of Milk Dealers
- United States Congressman Dwight Evans, 2nd District of Pennsylvania
- Tamera Conaway Principal, Walter Biddle Saul High School of Agricultural Sciences
- Russell Redding, Secretary, Pennsylvania Department of Agriculture

10:10 a.m. Panel I – View of the Dairy Industry and the Nutritional Value in Milk

- Jayne Sebright, Executive Director, Pennsylvania Dairy Excellence and Center for Dairy Excellence Foundation of Pennsylvania
- Lachell Miller, Nutritionist, American Dairy Association

10:30 a.m. Panel II – Local Food and the Nutritional Value

- Scott Sheely, Special Assistant for Workplace Development, PA Department of Agriculture
- Mandy Fellouzis, Agriculture Educator, Fox Chase Farms
- Kirtrina Baxter, Community Organizer, Public Interest Law Center of Philadelphia
- John Weidman, Deputy Executive Director, The Food Trust

11:00 a.m. Panel III – Access to Healthy Foods in Our Communities

- Clara Olivares, Former Owner, Olivares Food Market
- Bryana Shoecraft, Student, Walter Biddle Saul High School of Agricultural Sciences
- Kamaryn Norris, Project Coordinator, The Food Trust
- Jamila Medley, Executive Director, Philadelphia Area Cooperative Alliance (PACA)

11:30 a.m. Panel IV – Comprehensive Transportation and Transportation of Food

- Sean Mahoney, Director of Marketing, The Port of Philadelphia
- Robert Latham, Executive Vice President, Associated Pennsylvania Constructors
- Joel Rotz, Manager of Government Affairs and Communications, PA Farm Bureau
- Christian Herr, Executive Vice President, Penn Agriculture Industries Association

12:00 p.m. Closing Remarks

- Representative Jordan Harris, Chairman, Pennsylvania Legislative Black Caucus
- Representative Mike Sturla, Chairman, House Democratic Policy Committee
- United States Congressman Dwight Evans, 2nd District of Pennsylvania

After the conclusion of this hearing, teachers and students will give a school presentation.

Dairy's Contribution to Pennsylvania

PENNSYLVANIA NATIONAL LEADER IN DAIRY

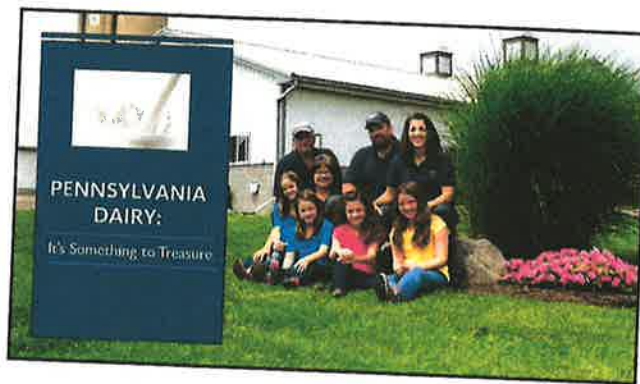
- Second Largest Number of Dairy Farms
- Seventh Largest Industry in Total Milk Production
- Leader In:
 - Butter
 - Ice Cream
 - Swiss Cheese

DAIRY FARMS BUTTER REGULAR HARD ICE CREAM
2ND

3RD SWISS CHEESE

4TH LOW FAT ICE CREAM

7TH MILK



WHAT DAIRY'S WORTH TO PENNSYLVANIA

© From 2013 PA Dairy Study

10.981 Billion Pounds of Milk Annually or 1.27 Billion Gallons

52,000 Jobs Supported by Industry

\$14.7 Billion in Annual Economic Revenue Generation

WHAT DAIRY LOOKS LIKE IN PENNSYLVANIA


- 6,570 Family-Owned Dairy Farms ranging in herd size from 15 cows to 3,500 cows. Total of \$25,000 Dairy Cows.
- More than 50 Major Dairy Processing Companies, manufacturing a variety of dairy products. Currently about 32 percent of the milk produced in Pennsylvania is sold as bottled milk, while the remaining goes into other products.
- More than 60 Farm-Based Artisan Cheese Companies Marketing Cheese Up and Down the East Coast.
- A Host of Farm-Based Creameries Selling Milk, Ice Cream and Other Types of Dairy Products.

PENNSYLVANIA COMMUNITIES EXPORT MILK, IMPORT MONEY

- Pennsylvania dairy products moves up and down Eastern seaport, exported outside country
- Farms send milk off their farms, bring money back into local community
- Farms support highly-competitive jobs, with wages averaging between \$14.33 - \$25.07 per hour for skilled worker

DAIRY FARMS BRING MORE THAN MILK TO THE TABLE:

1. An Abundant Supply of Fresh, High Quality Dairy Products Produced Locally 52 Weeks Out of the Year.
2. Valuable Economic Revenue That Supports Pennsylvania's Rural Communities.
3. Wide Open Spaces to Provide Water Filtration.
4. Scenic Destination Spots to Support Pennsylvania's Booming Tourism Industry, Particularly in Central Pennsylvania.



FUTURE

DIVERSIFICATION, IMPROVED COMPETITIVENESS,
 NICHE MARKETING AND SUCCESSFUL
 TRANSITION AT FARM LEVEL

 REINVESTMENT, REINVENTION IN DAIRY
 PROCESSING AND IN THE DAIRY AISLE


 ENGAGEMENT OF NEW PARTNERS, NEW WAYS
 OF THINKING AND NEW INNOVATIONS AT ALL
 LEVELS OF PENNSYLVANIA DAIRY INDUSTRY



CENTER FOR DAIRY EXCELLENCE • PHONE 717-346-0144
 WWW.CENTFORDAIRYEXCELLENCE.ORG

CHALLENGES WITHIN PENNSYLVANIA'S DAIRY INDUSTRY

- Pennsylvania's Dairy Farms are Generational Businesses
 - Low Margins, Market Volatility
 - Lack of Investment In Future, Transition Planning
- Farms Faced With Diverse Challenges
 - Strict Environmental Pressure
 - High Land Values, Challenging Labor Needs
 - Higher Cost of Production
 - Access to Consumer = Access to Farm



CHALLENGES WITHIN PENNSYLVANIA'S DAIRY INDUSTRY



- Pennsylvania Fortunate to Have Number of Dairy Processing Facilities
- Smaller Scale, Lower Efficiencies of Scale than Larger National Model
- Family-Owned Businesses with Limited Ability to Reinvest
- Significant Investment In Tradition Fluid Milk Market, Need for Reinvention



Urban Agriculture Initiative

PA Department of Agriculture
2018

Mission

To improve the knowledge and awareness of consumers, agriculture and food employers, policymakers, educators, funders, economic development entities, entrepreneurs, and community service providers on the reach of the agriculture and food system into urban environments while increasing the outputs of that system in that context in Pennsylvania.

Strategic Goals and Objectives

- Improve the understanding among the stakeholders that urban agriculture includes impacts related to creating strong communities, improving community nutrition, raising real estate values, diminishing crime, reducing blight, opening economic development opportunity, and improving stormwater runoff as well as growing food.
- Encourage more people to enter agriculture, horticultural, and food careers
 - Promote more participation in agriculture (school gardens; farm to school programs; and shadowing, internships, apprenticeships)
 - Use agriculture as a vehicle to teach STEM throughout the District
 - Identify the important agriculture and food career pathways for the agriculture and food industry in the Commonwealth
- Assure that the agriculture education system both in-school and out-of-school in urban areas is robust and has the resources that it needs
- Encourage more communication between agriculture education and agriculture and food employers as well as support the system-building work in the north and northwest areas of the city and around the Commonwealth
- Build a better infrastructure to support urban agriculture in partnership with local governments
 - Address soil safety and problem remediation in a comprehensive way
 - Address land access and ownership issues in a comprehensive way
 - Promote the development and adoption of a statewide urban agriculture municipal code

- Promote new technology wherever practical (hydroponic/aquaponic/aeroponic, plastic and high tunnels to extend season, and other forms of vertical agriculture)
- Overcome food deserts and shortages of fresh produce in urban areas
 - Make current distribution networks more robust
 - Add novel distribution networks to the mix (produce auctions, food hubs)
 - Partner with housing projects and neighborhood
- Encourage more people to garden for the sustenance of their families, encouraging better nutrition
 - Promote alternative farming methods wherever possible
 - Offer options for learning how to cook and preserve foods
 - Introduce new produce options into consumer diets
- Increase the amount of food produced in urban agriculture settings (families, non-profit food networks, and entrepreneurial food networks)
- Support urban agriculture as a green infrastructure and stormwater control best practice wherever practical (rain gardens and barrels, pervious surfaces, use of fertilizer, expand tree canopies in urban areas, and expand riparian forest buffer plantings along creeks and streams)

Outcomes (How will we know if we have been successful?)

- Increased consumption of and access to produce
- Increased production of all types of food, more variety, more local food output, alternative technologies to grow food in urban space
- Reduction in number of food deserts, more gardens and more culturally connected food
- Increase in small businesses and entrepreneurship, more gardeners and farmers, more people pursuing agriculture and food careers
- Develop job training programs connecting education to industry
- Increased investment from economic development and other funders into urban agriculture
- Develop alternative technologies to grow food in urban spaces

Key partners include Cooperative Extension, PA Horticulture Society, Philadelphia Office of Sustainability, University Nutrition Initiative, Pittsburgh Food Policy Council, Grow Pittsburgh, University of Pittsburgh Institute of Politics, Fox Chase School and Farm, Saul High School, the Philadelphia School District, Philadelphia City Council and Government, and PA Department of Agriculture.

Overall, the targets of our informational efforts are multi-faceted: residents of urban areas, general public, state elected officials, local elected officials, other policymakers, young people in school or in summer programs, teachers and administrators, parents, and administrators and workers in partner agencies.

Highlights this year

- PA Urban Agriculture Advisory Committee. Relationships have been established with more than 50 urban agriculture programs in Philadelphia and Pittsburgh. An urban agriculture working group met in February 2016 to begin the development of a statewide research agenda, with another meeting held in April 2016 to add a policy and outreach agenda to the research project so that the collaboration can address the US Farm Bill in 2018. That working group continues to meet and to broaden its membership as more and more cities develop urban agriculture initiatives.
- Improvements in Infrastructure at W.B Saul HS. The Department and the Alumni Association of W.B. Saul High School facilitated Impact Day on May 5, 2017 where 40+ volunteers from New Holland Agriculture came to Saul to paint the interior of the Dairy Barn and the Hydroponic Room as well as some carpentry and landscaping tasks around the campus. Further, Mid-Atlantic Farm Credit donated a new passenger van to the FFA chapter at Saul to replace another vehicle that was falling apart. The School District of Philadelphia found a second new van in their budget after the donation from the private sector. The Farm at Saul completed a Conservation Plan in January 2018 which assures their compliance with conservation regulations from the PA Department of Environmental Protection,
- First Apprenticeship in Ag-Related Occupation Approved. In fall 2017, the Northeast Equipment Dealers and the PDA worked together to get an apprenticeship for Agriculture Equipment Services Technicians approved by the PA Department of Labor and Industry. That apprenticeship will kick off in spring 2018. Another apprenticeship for Landscape Technician is under development with the Philadelphia Department of Parks and Recreation and the PA Landscape and Nursery Association.
- New Collaboration between PDA and PA Horticulture Society. More recently, PDA reached out to the Pennsylvania Horticulture Society and developed an exchange that brought PHS to the 102nd Farm Show in January 2018 and which will take Secretary Redding to the Philadelphia Flower Show in early March 2018. Secretary Redding and PDA will also host meetings on urban agriculture policy development and urban agriculture economic development while in Philadelphia for the Flower Show. PDA is also collaborating with Longwood Gardens on the development of the Seed Your Future workforce development project.

For more information, contact Dr. Scott J. Sheely, Special Assistant for Workforce Development at 717-346-0426 or scsheely@pa.gov or Laura England, Director, Bureau of Market Development at laengland@pa.gov or 717-783-8462; PA Department of Agriculture, 2301 N. Cameron St., Harrisburg, PA 17110

Revised March 1, 2018



What is Urban Agriculture/Farming/Gardening?

Urban agriculture, urban farming or urban gardening is the practice of cultivating, processing, and distributing food in or around a village, town, or city.^[1] Urban agriculture can also involve animal husbandry, aquaculture, agroforestry, urban beekeeping, and horticulture. These activities occur in peri-urban areas as well, and peri-urban agriculture may have different characteristics.^[2]

Urban agriculture can reflect varying levels of economic and social development. In the global north, it often takes the form of a social movement for sustainable communities, where organic growers, “foodies”, and “locavores” form social networks founded on a shared ethos of nature and community holism. These networks can evolve when receiving formal institutional support, becoming integrated into local town planning as a “transition town” movement for sustainable urban development. In the developing south, food security, nutrition, and income generation are key motivations for the practice. In either case, more direct access to fresh vegetables, fruits, and meat products through urban agriculture can improve food security and food safety.
(https://en.wikipedia.org/wiki/Urban_agriculture)

Urban agriculture is an important source of environmental and production efficiency benefits. The use of best management practices (BMPs) and integrated farming systems protect soil fertility and stability, prevent excessive runoff, provide habitats for a widened diversity of flora and fauna, reduce the emissions of CO₂, increase carbon sequestration, and reduce the incidence and severity of natural disasters such as floods and landslides. Decorative or scenic agriculture landscapes, waterways, and buildings provide numerous benefits including recreational activities, scenic views, and open space qualities. These positive benefits often merit assistance to producers such as technical and financial and other public support. (<https://www3.epa.gov/region1/eco/uep/urbanagriculture.html>)

City and suburban agriculture take the form of backyard, roof-top and balcony gardening, community gardening in vacant lots and parks, roadside urban fringe agriculture and livestock grazing in open space. Explore information and tools on urban agriculture. (<https://www.nal.usda.gov/afsic/urban-agriculture>)

The rapid growth of cities in the developing world is placing enormous demands on urban food supply systems. Agriculture – including horticulture, livestock, fisheries, forestry, and fodder and milk production – is increasingly spreading to towns and cities. Urban agriculture provides fresh food, generates employment, recycles urban wastes, creates greenbelts, addresses environmental concerns, and strengthens cities’ resilience to climate change. (<http://www.fao.org/urban-agriculture/en/>)

- <http://www.urbanfarming.org/>
- <http://foodtank.com/news/2014/01/ten-exciting-urban-agriculture-projects-in-philadelphia>
- <http://www.growpittsburgh.org/>
- http://brightfarms.com/s/#!/our_farms/farm/bucks-county-pa-farm

- <https://www.youtube.com/watch?v=0uVL-PvzQxU>
- <http://www.npr.org/sections/thesalt/2015/05/18/407732692/urban-farmers-say-its-time-they-got-their-own-research-farms>
- <http://www.npr.org/sections/thesalt/2015/06/22/415554585/local-food-is-still-a-niche-can-it-grow-beyond-that>
- <http://www.iflscience.com/environment/produce-worlds-first-underground-urban-farm-about-hit-shelves>
- <http://www.post-gazette.com/local/city/2015/07/08/New-Pittsburgh-ordinance-simplifies-urban-farming/stories/201507080083>
- <ftp://ftp.fao.org/docrep/fao/012/ak824e/ak824e00.pdf>
- <https://www.wsj.com/articles/a-farm-grows-in-the-city-1494813900>

Philadelphia

There are well over 300 community gardens in the City of Philadelphia with many more in the surrounding metro area. Most have connections with their local neighborhoods, supporting efforts to eliminate food deserts that occur in the City. Some have their own local markets; others work together to aggregate their produce and connect with charitable food systems that connect within the City. Many work with people in the neighborhood, including young people, to develop transferable job skills.

City government, non-profits organizations, and the private sector work together through the Philadelphia Food Policy Council to facilitate the development of responsible policies that improve access for all Philadelphia residents to culturally appropriate, nutritionally sound, and locally grown and affordable food produced through environmentally sustainable practices. The Pennsylvania Horticultural Society also provides horticulture education, outreach, and materials and supplies to community gardens and urban farms across the City of Philadelphia. The Neighborhood Garden Trust, an affiliate of the Pennsylvania Horticulture Society, coordinates the activities of 30 gardens in the region. The Agatston Urban Nutrition Initiative (AUNI) of the Netter Center for Community Partnerships at the University of Pennsylvania and Penn State Extension in Philadelphia provide support for community gardens through higher education and outreach programs.

There are many non-profit organizations that work in the urban agriculture space in Philadelphia. Here are some examples of Philadelphia-based projects and opportunities...

- <http://phsonline.org/programs/city-harvest/>
- <http://philadelphia.cbslocal.com/2013/10/21/best-community-gardens-in-philadelphia/>
- <http://ngtrust.org/index.php/gardens/>
- <http://blogs.haverford.edu/cpgc-philadelphia/>
- <http://www.phila.gov/health/pdfs/WalkableAccessHealthyFood20122014.pdf>

- <http://www.gardendesign.com/philadelphia/community-gardens.html>
- <http://foodtank.com/news/2014/01/ten-exciting-urban-agriculture-projects-in-philadelphia>

For more information about urban agriculture in Philadelphia, contact...

- Philadelphia Food Policy Advisory Council...215-683-5736
- Pennsylvania Horticultural Society...215-988-8800
- Neighborhood Gardens Trust...215-988-8800
- City of Philadelphia, Office of Sustainability...215-686-3495
- Urban Nutrition Initiative...215-898-1600
- Penn State Extension in Philadelphia...215-471-2200

Pittsburgh

There are more than 80 community gardens, over 45 school gardens, and approximately eight established commercial farms growing food in the urban core within Allegheny County.

Within Western Pennsylvania, multiple organizations and agencies work with communities to strengthen the city's food security and enhance local urban agriculture. The Pittsburgh Department of City Planning runs the Adopt-A-Lot program, which enables the City to enter into license agreements and leases with individuals who want to reuse city-owned vacant land for urban ag projects. As of 2016, the program has 13 fully legal projects on 34 lots (total of 5.25 acres) and 59 other projects in the development stage.

Additionally, in 2012, the market value of all products sold in Allegheny County totals \$10,397,000, which can be broken down into crop sales of \$8,755,000 and livestock sales of \$1,642,000. There were 428 farm operations in existence, which occupied a total 34,837 acres for farm use. Based on the amount of acreage used for production, the most popular crops were forage-land (7,607 acres) and corn for grain (661 acres) (Allegheny County Pennsylvania 2012).

New Urban Agriculture Initiatives

New urban agriculture initiatives have been springing up constantly. A project funded by the Natural Resource and Conservation Service of the US Department of Agriculture provided seed money to urban agriculture projects in Williamsport, Altoona, Montgomery County, and Allegheny County through local conservation districts. Private entrepreneurs are working on another initiative in Lancaster. A variety of urban agriculture projects exist in the Scranton area.

PA Department of Agriculture

As a part of its leadership role in the agriculture and food industry around the Commonwealth, the PA Department of Agriculture has been involved in research, gathering information, identifying resources, and coordinating efforts in urban agriculture around Pennsylvania.

Relationships have been established with more than 50 urban agriculture programs in Philadelphia and Pittsburgh. An urban agriculture working group met in February 2016 to begin the development of a statewide research agenda, with another meeting held in April 2016 to add a policy and outreach agenda to the research project so that the collaboration can address the US Farm Bill in 2018. That working group continues to meet and to broaden its membership as more and more cities develop urban agriculture initiatives.

Secretary Redding met with the Philadelphia City Council in 2016 to promote a resolution for the Council to hold hearings on urban agriculture and vertical farming. He subsequently met with the Superintendent of the School District of Philadelphia and announced support for an urban agriculture education consortium in northeast Philadelphia. Dr. Scott Sheely, Special Assistant for Workforce Development, testified before the Philadelphia City Council in October 2016 in support of the Council having a more direct relationship with agriculture in the City. Secretary Redding commended the Hamels Foundation for its gift of \$95,500 to the W.B. Saul High School of Agriculture Sciences to rehabilitate its greenhouse facilities.

Throughout 2016, the Department supported a variety of other activities in Philadelphia including a new consortium of schools gathering to do agriculture education in northeast Philadelphia, new hydroponic programs in the city, and summer youth employment programs in agriculture settings. The Department and its partners led informational tours of urban agriculture sites where Penn State interns and high school students from the Philadelphia Youth Network were placed in Philadelphia for the summers of 2016 and 2017. The Department also organized a tour of 10 hydroponic/aquaponic/aeroponic technology sites in Philadelphia, Lancaster, and Harrisburg that was attended by 110 plus people over three days. More than 30 urban agriculture entities in Philadelphia attended an event at the PSU extension office in early December 2016 to discuss ways that they could support students from W.B. Saul High School of Agricultural Sciences in completing independent learning projects during summer placements with the organizations.

In July 2016, Secretary Redding also travelled to Pittsburgh to meet with Mayor Peduto, representatives of other parts of city and county government, foundation officials, and members of the organizations that make up the urban agriculture collaborative in that city to discuss urban agriculture and ways to support it through infrastructure investments. The lack of agriculture education in the public school system was widely discussed.

The Department and the Alumni Association of W.B. Saul High School facilitated Impact Day on May 5, 2017 where 40+ volunteers from New Holland Agriculture came to Saul to paint the interior of the Dairy Barn and the Hydroponic Room as well as some carpentry and landscaping tasks around the campus. Further, Mid-Atlantic Farm Credit donated a new

passenger van to the FFA chapter at Saul to replace another vehicle that was falling apart. The School District of Philadelphia found a second new van in their budget after the donation from the private sector. The Farm at Saul completed a Conservation Plan in January 2018 which assures their compliance with conservation regulations from the PA Department of Environmental Protection,

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On June 22, 2017, staff from the National Agriculture Statistical Service, PDA, and Penn State Philadelphia toured four urban agriculture sites in Philadelphia in an effort to encourage urban farmers/gardeners to participate in the 2017 Census of Agriculture. A meeting with the Pennsylvania Horticulture Society and the City of Philadelphia Office of Sustainability offered further ways to get the message to the growing urban agriculture community. PDA also offered another Tour of Hydro, Aqua, and Aeroponic Sites in Philadelphia, Lancaster, and Harrisburg on July 11-13 with more than 50 educators, entrepreneurs, and policymakers in attendance.

More recently, PDA reached out to the Pennsylvania Horticulture Society and developed an exchange that brought PHS to the 102nd Farm Show in January 2018 and which will take Secretary Redding to the Philadelphia Flower Show in early March 2018. Secretary Redding and PDA will also host meetings on urban agriculture policy development and urban agriculture economic development while in Philadelphia for the Flower Show. PDA is also collaborating with Longwood Gardens on the development of the Seed Your Future workforce development project.

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Philadelphia School District

Fox Chase Farm

The Hub of Agriculture Education for the Philadelphia School District

8500 Pine Road

Philadelphia, PA 19111

Mandy Fellouzis, Agriculture Education Department

Farm Office: 215/400-3310

Cell: 215/350-6622

Email: mhillbert@philasd.org

Fast Facts about Fox Chase Farm

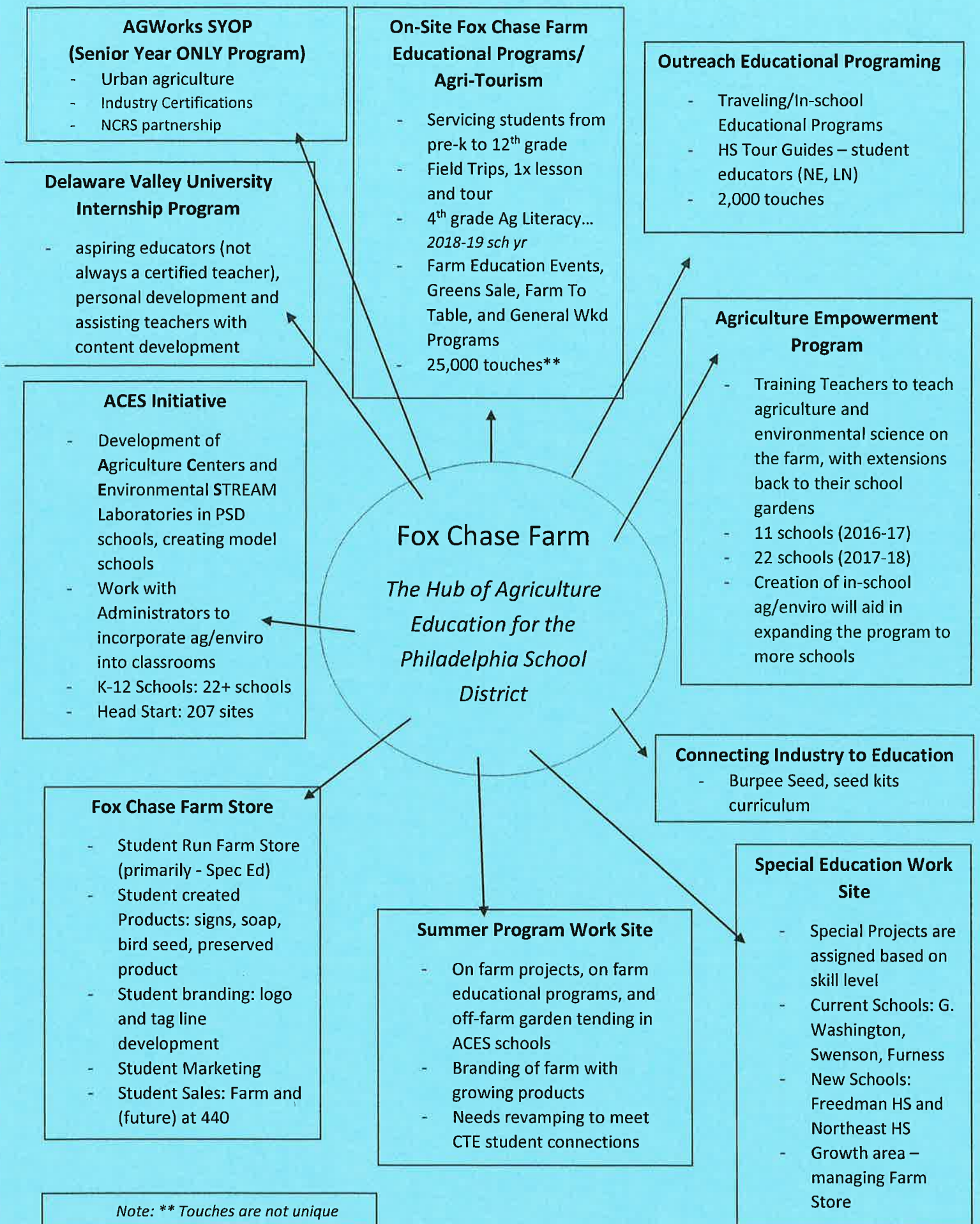
- 112-acre demonstration farm, managed by the Philadelphia school District, work in cooperation with the Philadelphia Parks & Rec
- Services the Philadelphia School District, and surrounding 5 counties
- Over 27,000 touches to agriculture in 2017

Current Initiatives

- On-site field-trips
- Outreach Education Programing
- Agriculture Empowerment Schools
- Worksite Locations – Special Ed
- Summer Urban Ag Worksite
- Farm Store - Entrepreneurial Experience
- Delaware Valley Internships
- ACES – Ag Centers and Enviro STREAM Labs

2018-19 Initiatives

- ❖ AGWorks SYOP – Senior Year Only Program focused on urban agriculture
- ❖ 4th Grade Agriculture Literacy – educational field trips to the Fox Chase Farm (11,000 students)



Head Start/Pre-K/Bright Futures

- Head Start Programs – 107 locations, 206 classrooms
- Pre-K – community
- Bright Futures

Pratt Head Start –

- Head Start location (150+ students)
- PSD 1st Ag and Enviro focused Head Start program
- Looking to replicate programs across the district

Elementary Schools

- 10 schools in Ag Empowerment and ACES (demonstrate urban ag on campus)

Fox Chase Elem – PSD 1st all ag elem school, every student takes ag class, with an ag teacher, looking to certify all teachers as ag teachers

Middle Schools

- 2 school in Ag Empowerment and ACES (feeder for Fox Chase Elem)
- Goal to include 3 additional schools

High Schools

- 5 schools in Ag Empowerment Goal to include 2 additional schools in Ag Empowerment
- Schools in Development of CTE Programs
 - NE HS – Natural Resource Management (courses are in place as of 2017-18 sch yr)
 - G. Washington HS – Aquaponics (courses in development)
- Current Ag Programs to feed into – Saul and Lincoln HS

2017-18 Ag Empowered Schools

(visit the farm weekly)

Elementary School

- Fox Chase Elem
- Cooke Sch/Elem
- Crossan Elem
- Hancock Elm
- Loesch Elem
- Lowell Elem
- Moore Elem
- Rhawnhurst Elem
- Solis-Cohen
- Sprunance
- Overbrook Ed Ctn (dev)

Middle School

- Baldi Middle
- LaBraum
- Developing, spring 2018*
- Cooke Sch/Middle (dev)
- Steele Elem/Middle (dev)
- Wilson Middle (dev)
- Overbrook Ed Ctn (dev)

High School

- Northeast HS – Natural Rs Mag

Work Site Schools/Ag Empowerment

- G. Washington HS – Spec Ed
- Furness HS – Spec Ed
- Freedman HS – Spec Ed
- Northeast HS – Spec Ed

Tour Guide Program

Lincoln HS – Hort/Enviro students

Northeast HS – Natural Rs Mag students

Urban Agriculture - The Urban Ag Works Senior Only Program



Program Description

The Urban Ag Works Senior Only Program (UAW-SYOP) is a free program designed for qualifying high school seniors with an interest in Urban Agriculture with no prior exposure to CTE programs.

This program prepares individuals to apply knowledge and skills in the agricultural field. Instruction will cover the basic skills in a variety of areas associated with agriculture such as agricultural business and production, forestry, agricultural mechanization, horticulture services, agriculture sciences, and/or conservation and renewable natural resources. Instruction includes but is not limited to computer science; plant, animal, and soil sciences; principles of ecology and resource management; forestry; hydrology; principles of electronics; blueprint reading; and engine maintenance and repair.

The program will be housed at Fox Chase Farm with experiential visits at various agricultural sites around the City of Philadelphia and surrounding counties. Students enrolled in UAW-SYOP will be at Fox Chase Farm (or other industry related site) for the two full days each week and report to their home school for the three remaining days each week.

Students enrolled in UAW-SYOP will meet all of the requirements for graduation of the School District of Philadelphia inclusive of the senior project. All costs related to projects, resources (texts, etc.), certification fees and transportation will be covered by The School District of Philadelphia.

Who is Eligible to Apply?

The UAW-SYOP Program is seeking applications from current 11th-grade students enrolled in a School District of Philadelphia schools. Current juniors must meet the criteria below to qualify for the program:

Must have 17.5 credits by the end of their junior year
Have an interest in Urban Agriculture

Fast Facts on Agriculture and Food Careers in Pennsylvania

- 491,000 (almost 500,000) jobs in the Agriculture and Food Industry and its supply chains in Pennsylvania in 2015
- Ag and Food Jobs by Industry Segment in 2015
 - Production Agriculture: 28%
 - Food Processing: 40%
 - Forestry, Lumber, and Wood Products: 20%
 - Landscaping Services: 11%
- Projected new and replacement job openings in Agriculture and Food jobs from 2015-2025: 74,257 (almost 75,000) new and replacement job openings in the Agriculture and Food Industry through 2025 which is 15% of the 2015 total workforce
- PA Department of Agriculture has identified 25+ occupations that will be the occupations most in demand by the Agriculture and Food Industry over the next decade.
 - Farming and Agricultural Operations
 - Farm Manager
 - Dairy Herdsman
 - Farm Equipment Mechanics and Service Technicians
 - Farmworkers-Farm, Ranch, and Aquacultural Animals
 - Farmworkers and Laborers-Crop, Nursery, and Greenhouse
 - Landscaping
 - Landscaping and Groundskeeping Worker
 - Food Manufacturing
 - Food Batchmakers
 - Packaging Machine Operators
 - Bakers
 - Butchers
 - Slaughters and Meat Packers
 - Meat Trimmers
 - Inspectors, Testers, Samplers, and Weighers
 - Industrial Machinery Mechanics
 - General Maintenance and Repair Workers
 - Heavy and Tractor Trailer Truck Driver
 - Forklift Driver
 - Forestry, Lumber, and Wood Products
 - Fallers
 - Logging Equipment Operator
 - Sawing Machine Operator
 - Team Assemblers

- Paper Goods Machine Operators
 - Sales Representatives, not medical or scientific products
- Conservation and Natural Resources
 - Soil and Water Conservationists
 - Agriculture Technician
- Animal Health and Veterinary Services
 - Veterinarians
 - Veterinary Technologists and Technicians
 - Veterinary Assistants
- Traditional Agriculture jobs most in-demand
 1. Farm Manager: 2,650
 2. Veterinarian: 1,400
 3. Farm Equipment Mechanics and Service Technicians: 340
- Overall occupations most in-demand for Agriculture and Food jobs
 1. Truck Driver: 21,800
 2. Maintenance and Repair Worker: 13,240
 3. Sales Representative: 12,760
 4. Team Assembler: 7,000
 5. Industrial Maintenance Mechanics: 6,400
- PDA has developed career information materials on each and will roll those out at the 100th Farm Show where careers in the Agriculture and Food Industry will be highlighted through the AgExplorers program and with the AgExplorers Career Stage by Lancaster Farming in the East Hall.
- PDA has developed a Desk Guide for Careers in the Agriculture and Food Processing Industry to be distributed to career counselors in the K-12 system, higher education, vocational guidance programs, veteran job programs, and others. The Guide will roll out in a series of events across the commonwealth in February 2016.
- More than 150 high school agriculture programs across the Commonwealth with 16,000 agriculture students
- More than 12,000 young people involved in FFA; more than 99,000 young people ages 5-18 involved in 4-H activities
- Two institutions of higher education offer most of the degrees in agriculture: Delaware Valley University and Penn State University
 - 893 Bachelor's degree completers in 2013-2014
- Not only are we proceeding ahead in partnership with the Office of Apprenticeship of the PA Department of Labor and Industry with an apprenticeship for Agriculture Equipment Service Technicians but we are also exploring other apprenticeships for Dairy Herdsmen and Organic Farmers. Registered Apprenticeships offers new workers a chance to earn while they learn. Employers hire apprentices who engage in a structured program of on-the-job training and

classroom learning, eventually reaching the full earning potential of a journeyperson as they acquire skills.

Binkley & Hurst, Hooper's, Messick's, and Deer Country are the equipment dealers and New Holland Agriculture and John Deere are the original equipment manufacturers who are at the core of the new apprenticeship for Agriculture Equipment Service Technicians. Various high school agriculture programs are developing pre-apprenticeship programs that allow training in high school to be used toward the education requirement in the apprenticeships.

- Collaborating with its partners in the industry, PDA is identifying training that is already in place that would lead to a micro-credential as well as identifying where there are skill gaps that may require new micro-credentials. Good examples of micro-credentials already exist. Training for pesticide certification, ServeSafe, and the PDA Certified Poultry Technician course are examples of skill-based training that could become a micro-credential.
- In partnership with the PA Department of Education, PDA is undertaking an evaluation of the agriculture education system from K-Adult across the Commonwealth beginning immediately after the 100th Farm Show.
- PDA continues to work with urban farmers in Philadelphia and Pittsburgh on a number of technical and workforce issues such as sharing information of soil contamination and remediation, concerns about ownership of the land on which urban farming is done, the use of hydroponics and aquaponics to supplement in-ground growing opportunities, season extension strategies, and getting young people who are interested connected with jobs in the agriculture and food industry.

In Philadelphia, the Philadelphia Horticulture Society, Urban Nutrition Initiative, The Common Market, EPRA, The Food Trust, Cooperative Extension Master Gardeners, Bartram's Garden, Weaver's Way, St. Joseph's University, University of Pennsylvania, Federation of Neighborhood Centers, Greener Partners, and the Philadelphia School District have been among the partners that the Department has engaged. In Pittsburgh, the list includes Office of the Allegheny County Executive, Grow Pittsburgh, Chatham University, Pittsburgh Food Policy Council, Penn State Extension, GTECH, Hilltop Alliance, Community Kitchen Pittsburgh, Goodwill Pittsburgh, Peration Better Block, Penn's Corners Farmers Alliance, Pittsburgh Public Market, and Pittsburgh Aquaponics.

Revised March 17, 2017

PA Ag and Food Snapshot

\$7.5 billion in cash receipts of agriculture commodities (2015) (21st in US)³

\$74.5 billion in total sales of agriculture and food products (2015)⁵

- \$13.1 billion in total sales of agriculture products
- \$43.7 billion in total sales of manufactured food
- \$1 billion in total sales of tobacco
- \$16.1 billion in total sales of wood and wood products
- \$541.9 million in total sales of veterinary services
- \$12.5 million in total sales of horse racing

With multipliers for sales in the supply and distribution chains, \$185 billion in total sales of agriculture and food products (2015)⁵

- \$25.2 billion in total sales of agriculture products
- \$119.6 billion in total sales of manufactured food
- \$5.9 billion in total sales of tobacco
- \$33.4 billion in total sales of wood and wood products
- \$856.3 million in total sales of veterinary services
- \$18.2 million in total sales of horse racing

\$2.04 billion in international sales of agricultural products (21st in US)³

7.7 million acres of land in farms (2015) (35th in US)¹ with an average farm size of 133 acres

57,900 farms (2015) (14th in US)¹

130 acres is average farm size³

1 in 15 jobs (2015 with multipliers) are related to agriculture and food

59,309 farm operators with farming as their primary occupation (2012)³

56.1 is average age of farm operator in Pennsylvania (2012)³

232,782 jobs in the agriculture and food industry in Pennsylvania; 497,558 with multipliers (2015)⁵

PA Products Lead the Way²

First

Agaricus Mushrooms (2015-6) 593,997 million pounds

Standing Hardwood Sawtimber (2015)⁵ 117.1 billion board feet

Second

Butter (2014) 93.8 million pounds

Third

Swiss Cheese (2014) 9.1 million pounds

Fourth

Egg Production (2014) 7.57 billion

Corn for Silage (2014) 8.2 million tons

Layers (2014) 25.9 million

Italian Cheese (2014) 257 million pounds

Apples (2014) 493 million pounds

Christmas Trees (acres) (2014) 32,000 acres

Grapes (2014) 910,000 tons

Pumpkins (2014) 1.05 million cwt

Fifth

Dairy Cows (2014) 530, 000 head

Maple Syrup (2016) 143,000 gallons

Milk Production (2014) 10.68 billion pounds

Receipts and Expenses**Top Cash Receipts (2015)³**

1	Dairy products, milk	\$1,986,160,000
2	Chicken, eggs	\$1,004,626,000
3	Cattle and calves	\$741,105,000
4	Mushrooms	\$606,940,000
5	Broilers	\$573,616,000

Top Production Expense (2015)

1	Feed	\$1,554,067,000
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Top Agriculture Exports (rank in US) (2015)³

1	Mushrooms and other horticulture products (5)	\$730,400,000
2	Dairy products (5)	\$291,300,000
3	Feeds and other feed grains (18)	\$136,200,000
4	Soybeans (19)	\$119,800,000
5	Turkey meat, eggs, and other fowl products (6)	\$112,900,000

Top Agriculture-Related Exports (rank in US) (2016)⁴

1	Forest Products (2)	\$619,260,000
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¹USDA, Farms and Land in Farms, 2015 Summary, February 2016

²USDA, 2014-2015 Agricultural Statistics Annual Bulletin, Pennsylvania

³Economic Research Service, USDA, State Fact Sheets. Pennsylvania, 2016

⁴Economic Research Service, USDA, Foreign Agricultural Service, 2017

⁵"Analyst", Economic Modeling Specialists International, Moscow, ID, 2016

⁶USDA Forest Service Forest Inventory Analysis (FIA), FIADB version 6 Population Estimates, January 2017

Updated March 17, 2017



FOOD FORWARD

ensuring access to fresh food



THE PROBLEM

There are clear links between the health and economic vitality of our communities and the availability of fresh foods. But too often, in rural and urban communities in Pennsylvania, access to whole grains, lean meats and fresh produce is scarce — and these communities often face a greater risk of chronic diet-related disease and diminished job opportunities. More than 2 million Pennsylvanians — including more than 500,000 children — live in lower-income areas with limited access to a local grocery store.

More **than 2 million**
Pennsylvanians live in areas with
limited access to a grocery store

WHO WE ARE

Food Forward Pennsylvania is a coalition that unites individuals, organizations, grocers, financing institutions, agriculture and health advocates, producers and community partners to raise awareness about the importance of having access to fresh, healthy food.

The network works together to create a healthier commonwealth by educating policymakers on the impact public policies have on the ability to support communities' health and economic stability through fresh food access initiatives.

PROVEN POLICY

Food Forward Pennsylvania seeks to build upon the success of the nation's first healthy food retail development program, the Pennsylvania Fresh Food Financing Initiative (FFFI).

This groundbreaking public-private partnership provided one-time grants and loans to almost 90 grocery operators and other healthy food retailers in lower-income, underserved communities. Not only did 400,000 Pennsylvanians gain better access to fresh foods, local economies were revitalized with the creation or retention of 5,000 jobs.

FFFI is a proven model that has the potential to impact the more than 2 million Pennsylvanians who deserve adequate food access, improved health benefits and economic stability.

JOIN THE EFFORT

VOICE

Share your story of why food access is important in your community.

PLAN

Host community events or meetings with elected officials to increase awareness.

TAKE ACTION

Share action alerts with your network.

Visit foodforwardpa.com to see more ways to contribute to the health and well-being of PA families.

Questions?

Contact Kahfii King
Program Coordinator
kking@thefoodtrust.org

foodforwardpa.com



@FoodForwardPA



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