

CUYAHOGA COUNTY BOARD OF HEALTH

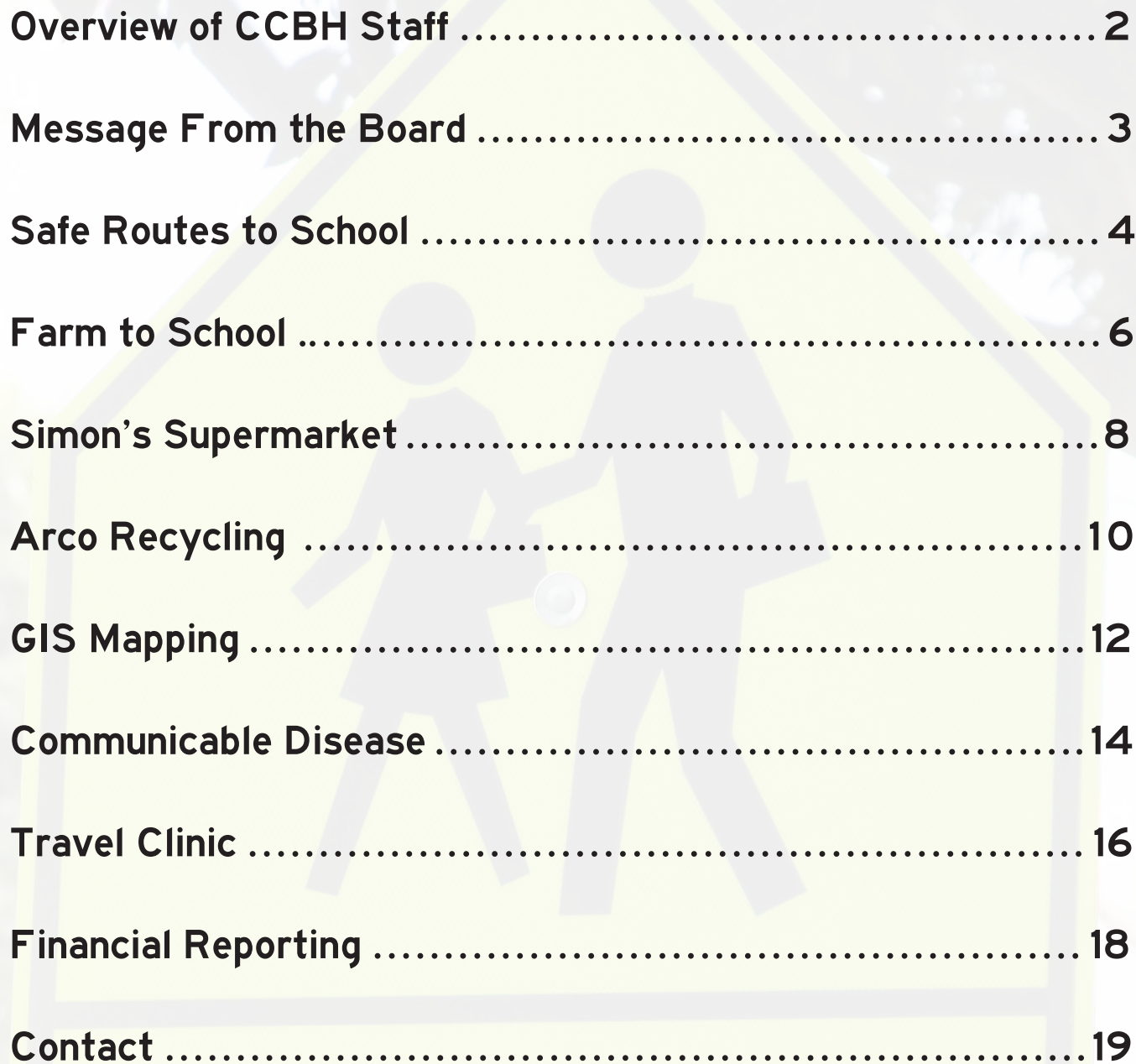
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THE ROAD TO PUBLIC HEALTH

ANNUAL REPORT 2017



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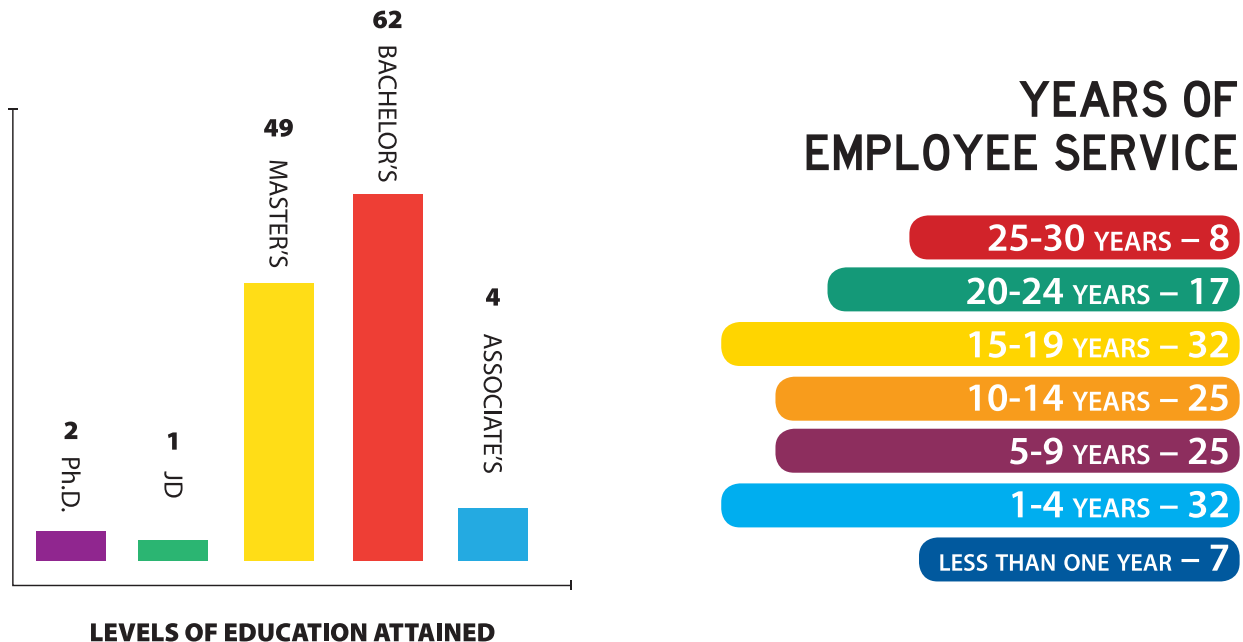
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AGENCY OVERVIEW

THE ROAD TO PUBLIC HEALTH



Established 1919 • More than 850,000 residents served across 58 communities • Number of Employees: 152



Public health can be defined as the collective action taken by society to protect and promote the health of entire populations. Technology and the increasingly global nature of human interaction means that people move around more for business, commuting, and tourism. This presents challenges related to the spread of diseases such as influenza, and also chronic issues like asthma and diabetes. These trends require that the public health community in turn evolves and adapts by acquiring new skill sets and tools to combat the changing health concerns in our society.

In keeping with current trends, the theme for our 2017 Annual Report is The Road to Public Health. It describes some of our adaptive efforts to recognize, evaluate and control the evolving health problems that face our community. This year, we feature programs that help us to address this new reality. Our Travel Clinic provides essential vaccinations and time-relevant safety guidance to our local travelers planning to visit a wide range of destinations across the globe. Our Communicable Disease Prevention work includes tracking reports of disease clusters and taking quick action to control the spread of infectious diseases.



Terry Allan, Health Commissioner/Board Secretary, Doug Wang, Debbie Moss, Esq., Gregory L. Hall, M.D., Sherrie Dixon Williams, M.D., James Gatt

We provide an example of the “buy local” adaptive trend and the positive health impacts of our Farm to School initiative while we also work to increase safe walking and biking opportunities for our children through the Safe Routes to School program. Our Geographic Information System work, known as GIS helps us to detect disease trends and solve public health problems by mapping data in ways that graphically represent complex issues for practical use. Finally, we share our commitment to addressing environmental health and quality of life issues through our work in the clean-up of the ARCO site in East Cleveland.

Thanks for taking the time to learn more about who we are and the work we do, every day. Collectively, these programs provide a snapshot of our commitment to remain nimble in our approach to the ever-changing nature of our society and the needs of the community.

SAFE ROUTES TO SCHOOL

THE ROAD TO PUBLIC HEALTH

A better way to get to and from school

The goal of the national program, Safe Routes to Schools, is to promote walking or biking to school as a healthy & safe alternative.

Safe Routes to School came to Cuyahoga County in 2012 thanks to funding provided by the Ohio Department of Transportation, Saint Luke's Foundation and Health Improvement Partnership-Cuyahoga. Currently, there are 14 local school districts that have completed or are in the process of creating a Safe Route to School plan.



The Safe Routes to School program is based upon The Five E's:

THE FIVE E'S

1 EDUCATION

- ◆ Learn about the benefits of walking & biking
- ◆ Address safety concerns

2 ENCOURAGEMENT

- ◆ Promote participation using bike rodeos and walking buses

3 ENFORCEMENT

- ◆ City safety forces and crossing guards enforce road rules
- ◆ Protect pedestrians and bike riders before and after school

4 ENGINEERING

- ◆ Develop safer crosswalks and walkways
- ◆ Improved lighting and signage

5 EVALUATION

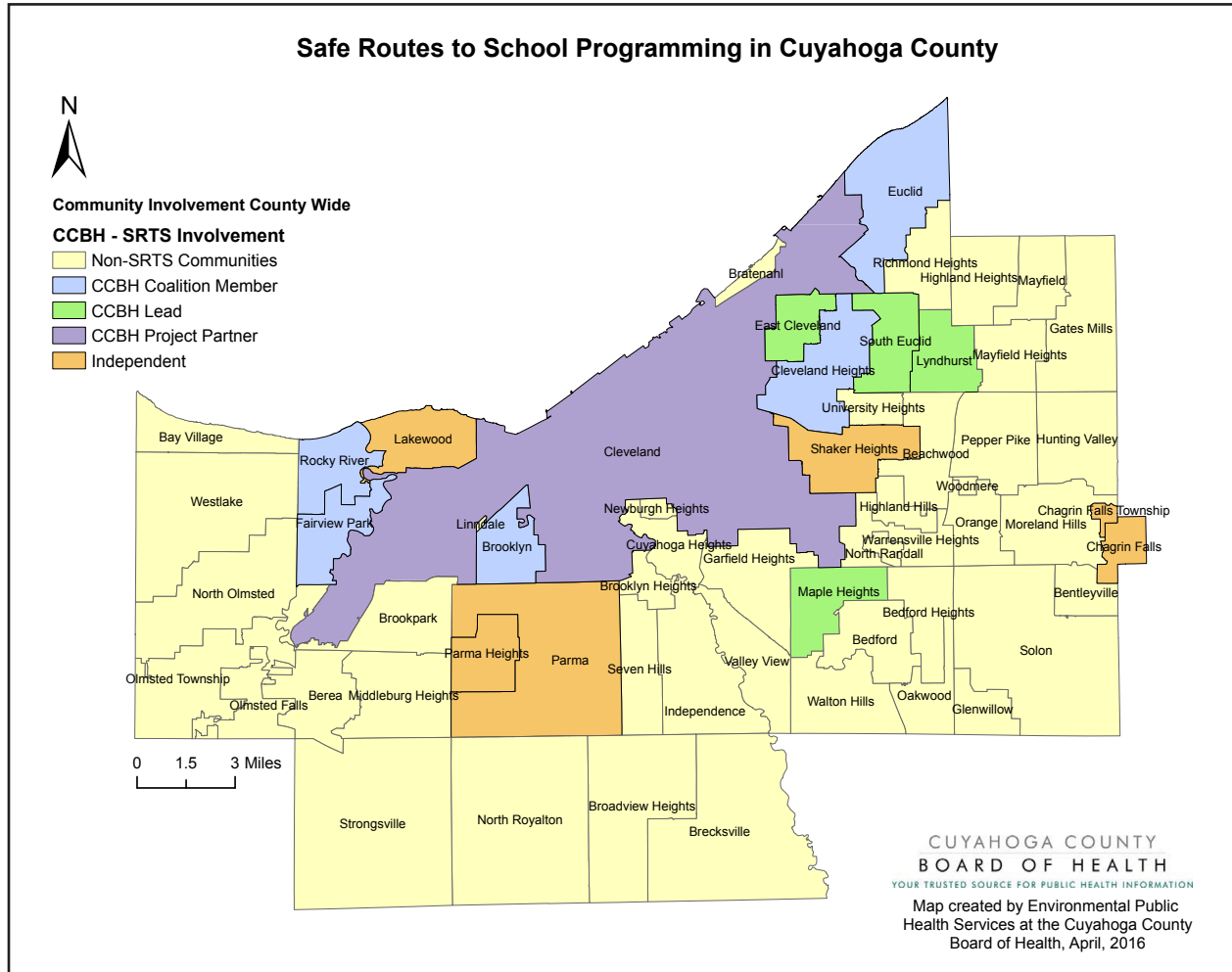
- ◆ Be sure the improvements are effective

SAFE ROUTES TO SCHOOL

THE ROAD TO PUBLIC HEALTH

Through continual funding, several school districts have been able to make street/sidewalk improvements, provide bikes and/or helmets for student. To date, **288 bikes with locks** and **569 bike helmets** have been provided.

Over \$514,000 has been received to help numerous school districts provide safe routes to local schools.



OVERVIEW

The Cuyahoga County Board of Health has received public and private funding to ensure our children can safely get to and from school.

For more information: <http://www.ccbh.net/safety-routes/> • <http://www.saferoutesinfo.org/>

Fresh food + good nutrition = healthier children and communities

CCBH has been a regional leader in bringing the nationally-recognized farm to school (F2S) program to Northeast Ohio. Through the F2S program, we address childhood obesity by working with multiple partner organizations to advance policy as well as environmental and system change strategies. These innovative approaches serve to increase local food sourcing, support school gardens, and bring nutrition and agriculture education into classrooms across Cuyahoga County.

BENEFITS

CAFETERIA OPTIONS

- ◆ Increase in locally sourced fruits, vegetables, dairy and meat products on school meal trays

ECONOMIC DEVELOPMENT

- ◆ Each dollar invested in farm to school stimulates between 60 cents and \$2.16 worth of local economic activity

FOOD SERVICE STAFF

- ◆ More fruits and vegetables, new seasonal recipes, and new waste management policies

EDUCATION

- ◆ Enhanced overall academic achievement in K-12 settings, including grades and test scores

LOCAL FOOD SOURCING / MEAL PARTICIPATION AND COST

- ◆ Less diet-related diseases in childhood, such as obesity and diabetes, by promoting healthy eating

PUBLIC HEALTH

- ◆ Raises meal participation an average of 9% and lowers cost of school meal programs
- ◆ Up to 50% of all in-season produce purchases are made through farm to school



RECENT ACCOMPLISHMENTS

- ◆ Working with **21 school district partners** to purchase **\$65,000** in local produce
- ◆ Engaging **45 local producers** about providing local product to the school food market
- ◆ Creating an **F2S umbrella brand** for the Northeast Ohio region that provides solutions and opportunities for schools, parents, students, and community members to engage with the local farm to school movement
- ◆ Serving as a program example at the **state** and **national level**

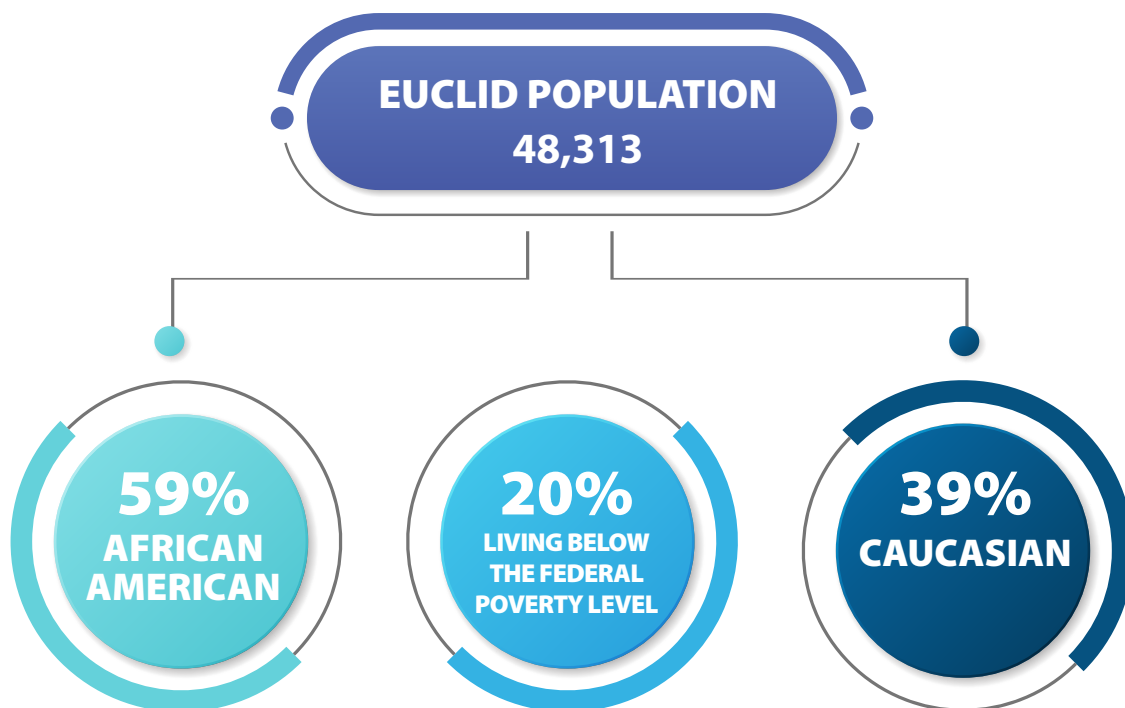
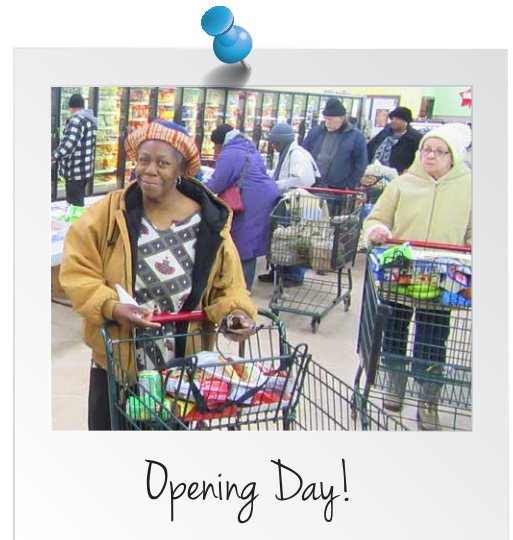


Visit us at www.feedourfuture.org to learn more about what we do and how you can join us.

Eliminating a food desert was a true community effort

The U.S. Department of Agriculture has defined food deserts as parts of the country where it's hard to buy fresh fruit, vegetables, and other whole foods. To be considered a food desert, at least 500 people or 33% of an area's population must live further than one mile from a supermarket or large grocery store.

Ward 3 in the City of Euclid was considered a food desert, having the lowest income levels in the city and experiencing worse health outcomes when compared to the county as a whole.



In partnership with city officials, an engaged business owner, and local residents, the Creating Healthy Communities (CHC) Program at CCBH coordinated the opening of a full-service supermarket in Ward 3. CHC staff secured state funding, worked with Euclid leadership to pass legislation, and organized three public forums and one grand opening event, drawing over 500 residents.

OUTCOMES

- Received **\$650,000** in funding from the Healthy Food for Ohio Program
- Passed legislation to secure **\$125,000** from the City of Euclid's storefront renovation program
- Created over **50 jobs**
- Generated total **revenues of \$4.6 million** during the first ten months of business, including nearly **\$400,000 in fresh produce sales** and **\$1.6 million in fresh meat sales**
- Increased food access for **2,559** residents and **1,442 households** that were previously located in a food desert
- More economic development has occurred - **occupancy has increased** in the plaza that houses the supermarket



For more information, please contact Roger Sikes with the Creating Healthy Communities program.
216.201.2001 x1526 | rsikes@ccbh.net

Collaboration leads to cleanup



When a recycling and processing business in an East Cleveland neighborhood became a public nuisance and was no longer able to operate, CCBH and the Ohio Environmental Protection Agency (OEPA) worked together to provide funding and resources to clean up more than 300,000 cubic yards of unprocessed construction and demolition debris (C&DD).



The piles of debris were located near several homes and businesses. CCBH and OEPA provided oversight of outdoor environmental testing and also worked with local safety forces to protect those living and working near the site.



CCBH and OEPA worked together to respond to inquiries from residents and city officials about potential exposure to harmful materials. Based upon months of monitoring and data collection, the presence of air pollutants was well below minimum risk levels.



No decision has yet been made about what will be done with the site once it is cleared and ready for use. In the meantime, the site will be closed and all materials will be removed from the concrete pad surface.

Timeline of Events

April 2014	Arco Recycling opens for business
January 2017	OEPA issues an order to stop operation based on inspection reports that show the facility is being used as an illegal dumping site
June 2017	Arco gives up rights to the C&DD and provides access for removal of the material
July 2017	Cleanup process begins under the direction of OEPA and CCBH
Spring 2018	Removal of more than 300,000 cubic yards of C&DD has been completed. CCBH and OEPA are grateful to the neighborhood residents, businesses and city officials for their patience and cooperation during the cleanup.

OEPA committed nearly \$9 million in funding to eliminate this illegal dump site.

Project Partners

- American Red Cross
- Cleveland Division of Air Quality
- Cleveland Water Department
- Congresswoman Marcia L. Fudge
- Cuyahoga County Dept. of Public Works
- Cuyahoga County Office of Emergency Management
- Cuyahoga County Sheriff's Department
- Kurtz Bros Inc.
- Northeast Ohio Regional Sewer District
- Office of the Attorney General of Ohio
- Valley Enforcement Group
- Waste Management Inc.

Local Fire and Police Departments

- Beachwood
- Brecksville
- Cleveland
- Cleveland Heights
- East Cleveland
- Euclid
- Highland Heights
- Lakewood
- Lyndhurst
- Mayfield Heights
- Mayfield Village
- North Royalton
- Rocky River
- Shaker Heights
- Solon
- South Euclid
- University Heights
- Wickliffe
- Woodmere

Using GIS maps to navigate and educate

At CCBH, our job as a public health agency involves collecting, examining and interpreting information. We need data to help us understand the types of health issues that exist and the ways in which they affect our county. We can also use data to inform and teach others about a variety of topics.

Geographic information systems (GIS) are an example of computer-based tools that we use to combine, analyze and display data. We create maps to make it easier to visualize data and review large datasets. GIS also help us to find patterns related to location, whether that is a city, neighborhood or zip code.

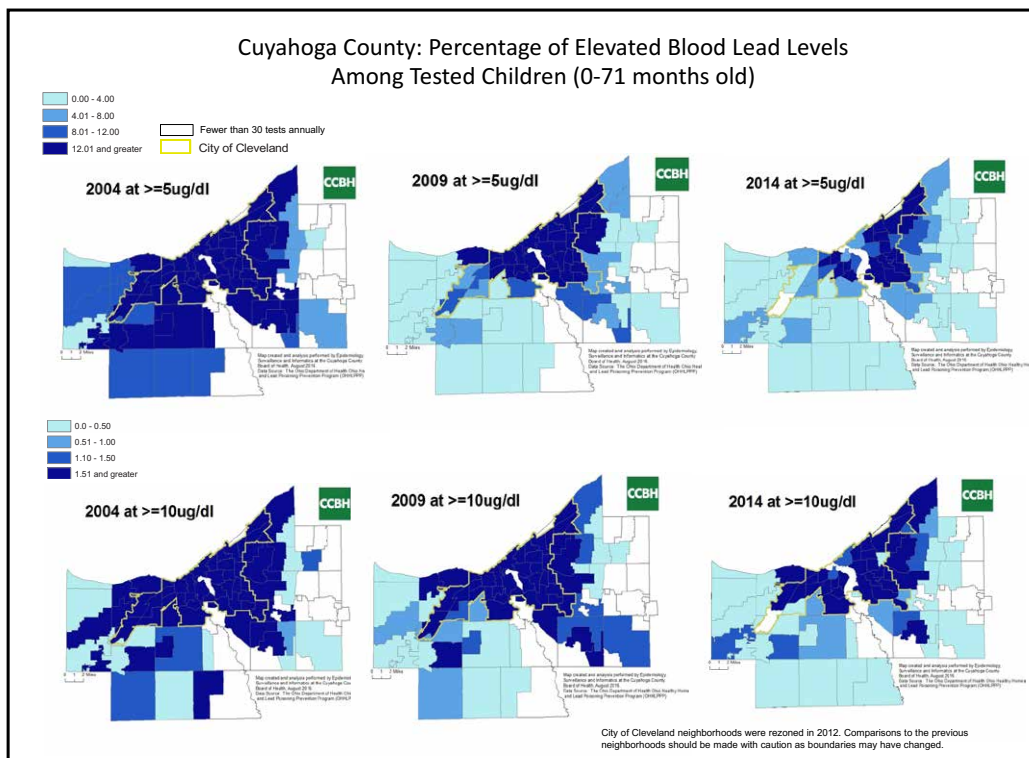
For public health, GIS offer both the technology and methods to make data more useful and to examine geographic aspects of health and disease – or understand the importance of place and space in regards to health and well-being.

CCBH uses GIS in a variety of ways

LEAD POISONING

Measured in people by testing blood

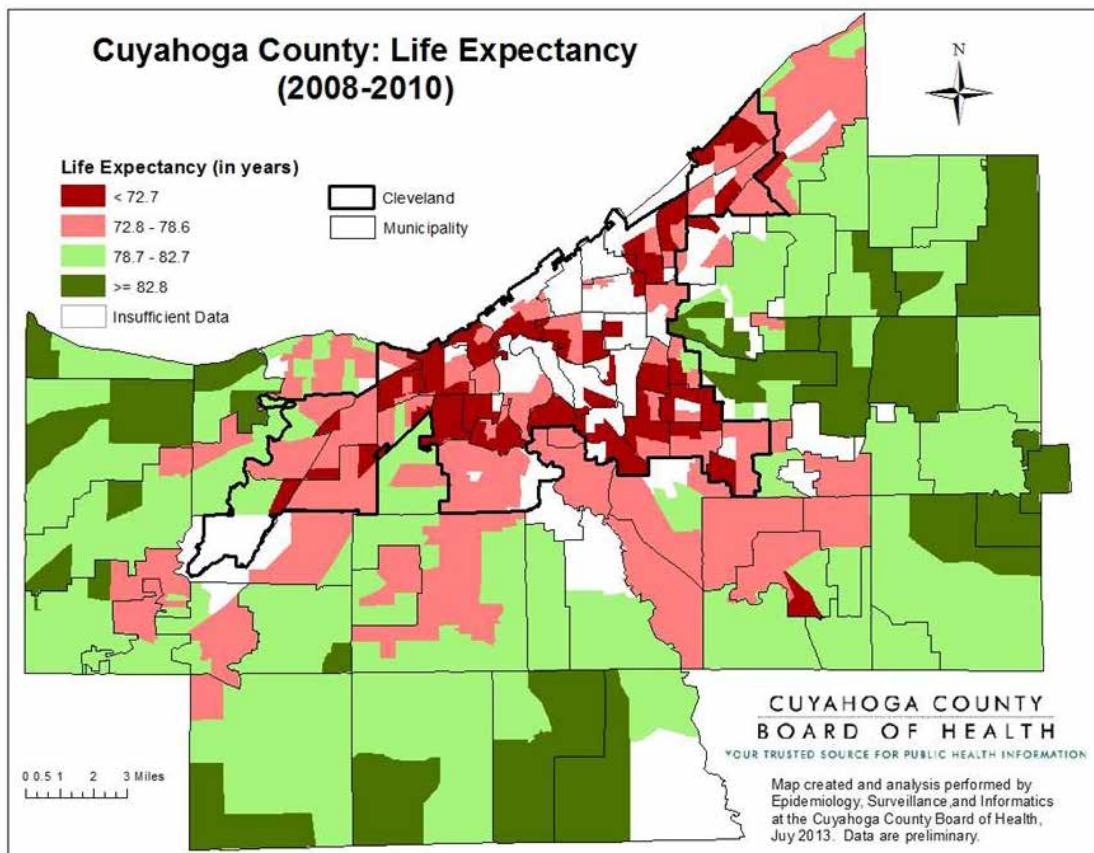
- Monitor countywide patterns of child lead exposure on an annual basis
- Provide information to city officials about blood lead-levels in local residents
- Evaluate the effectiveness of our lead programming over time



HEALTH DISPARITIES

Differences in health outcomes among different populations

- Identify disparities in life expectancy by location
- Understand the burden of chronic disease across various communities
- Identify the impact of factors such as education and poverty
- Determine areas of highest need to make the best use of resources, and to target and inform interventions



GIS has become an important part of service delivery and quality improvement at CCBH. Embracing GIS has added efficiency to our prevention efforts, enhanced our disease surveillance capacity, and offered important insights and opportunities for promoting health in Cuyahoga County.

Investigating illness and preventing outbreaks

Communicable (infectious) disease is spread from one person to another, directly or indirectly, through:

- Airborne virus
- Blood and body fluids
- Contaminated food or water
- Insect bites

Nearly 70 different infectious diseases are reportable to local health departments in Ohio.

In 2017, we followed up on more than 2,900 reported cases and investigated 20 outbreaks. We work with many local and regional partners to conduct joint investigations, provide education, and prevent the spread of illness:

- Communicable disease investigators
- Epidemiologists
- Nurses
- Sanitarians
- Health care and medical providers
- Ohio Department of Health

FOODBORNE ILLNESS OUTBREAKS

When a foodborne outbreak happens, we need to find out how and where it started, and how to prevent additional cases. Illness can spread very quickly through food.

Our environmental health sanitarians and disease investigators work together to:

- Follow up with the people and places affected
- Examine traceback and recall procedures for the food(s) in question
- Review illness data
- Organize sampling and testing with the state health department



VECTORBORNE & ZONOTIC DISEASE

Vectorborne diseases are those that can be passed on to humans by animals, such as Lyme disease and West Nile Virus.

Zoonotic diseases are those that typically affect animals but can also affect humans, such as rabies and salmonella.



Every year, we conduct trapping and testing programs to identify mosquitoes and ticks so that we understand their potential for transmitting disease.

Every day, we support a rabies prevention program in cooperation with local veterinarians and animal control officers. We offer vaccine tags for cats, dogs and ferrets over four months old, and investigate all cases of reported animal bites, scratches and exposure.



INFLUENZA

Flu is an infectious disease that we see every year from October through May. It is largely preventable by vaccine. Untreated, it can cause severe illness and death. Each year, thousands of people die in the United States from flu-related illness.

Since 2010, there have been 182 reported flu-related deaths in Cuyahoga County.

We collect data from across the county and issue a flu report every week during the flu season. Information includes the number of emergency room visits and hospitalizations, school absenteeism rates, and sales of over-the-counter medicine. **Locally, the 2017-18 flu season is one of the most active we have seen. Over 1,600 people have been hospitalized to date, the highest total since 2009-10.**

Our clinic offers low-cost and no-cost flu shots. Call 216.201.2041 for details.

When you travel, you're usually thinking about the people you'll see and the places you will go, not about what health risks may be waiting for you.

The next time you plan to travel to another country, come and see us first. We will go over your prescriptions, vaccine history, allergies and more to be sure that you stay as healthy as possible while you're away.

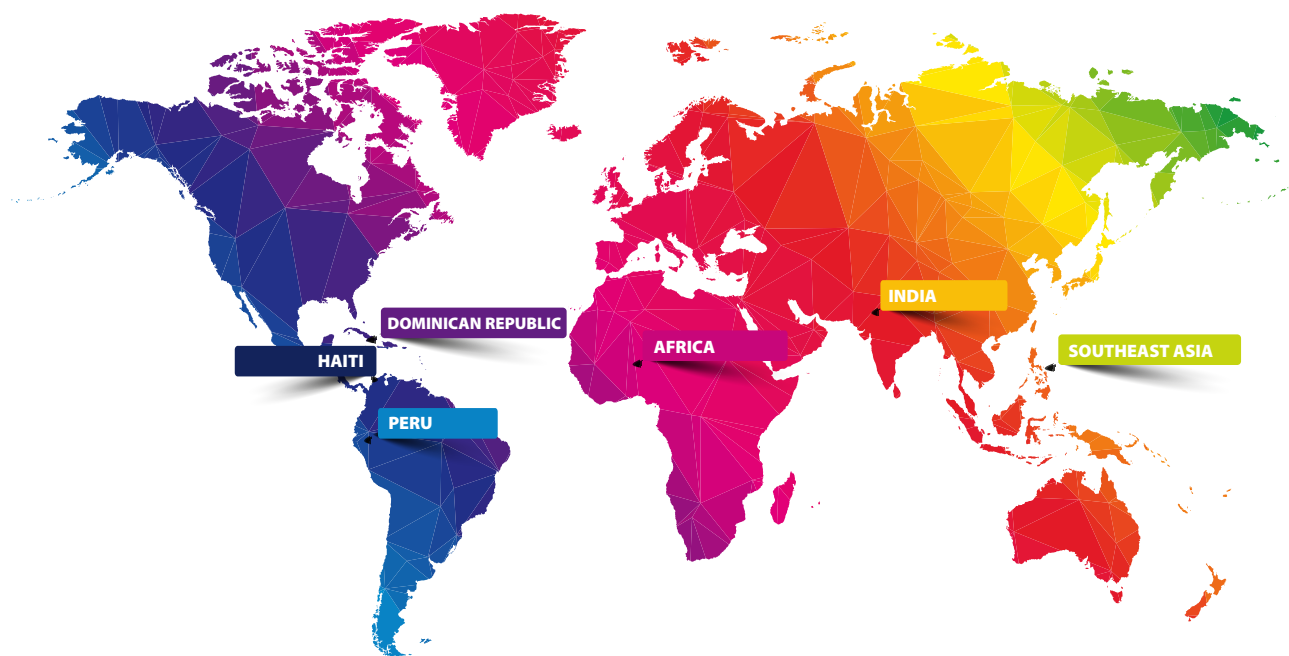


Among the vaccines we offer are:

- Hepatitis A
- Hepatitis B
- Influenza
- Japanese Encephalitis
- Meningococcal
- Measles, Mumps and Rubella
- Polio
- Tetanus
- Typhoid
- Yellow Fever

Contact us at 216.201.2041 to speak with one of our nurses about your travel plans.

Popular Travel Destinations:



We also offer a variety of other services at our clinics

Our vaccine clinic offers shots for infants, children and adults including flu vaccine, school vaccines, and job-related vaccines.

We are a part of the **Vaccine for Children** program, which allows us to give children under 18 years old their vaccines for free or at low cost.

Our Sexual Health Services staff helps women, men and teens stay healthy by providing education and service options.

Open in Lakewood, Parma, Warrensville Heights and Westlake



Sexually Transmitted Diseases



Our Sexual Health Services clinic assists women, men and teens with planning, treatment and prevention services. Our goal is to reduce illness and disease while offering thoughtful guidance and education.

We offer a variety of birth control options and testing is available for all sexually transmitted diseases. All services are anonymous. Clinics are open in Parma and Warrensville Heights.

2017 Clinic Overview

- More than 3,000 total vaccines
- Over 1,000 flu shots
- 278 HIV tests
- 700 client visits
- Yellow fever vaccine-certified location



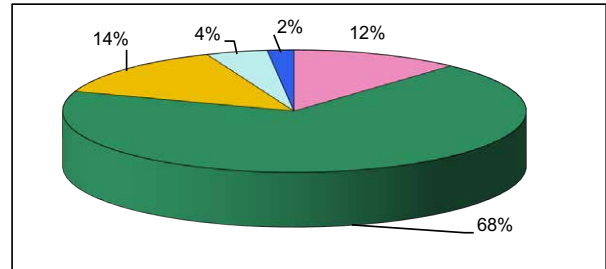
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FINANCIAL REPORT

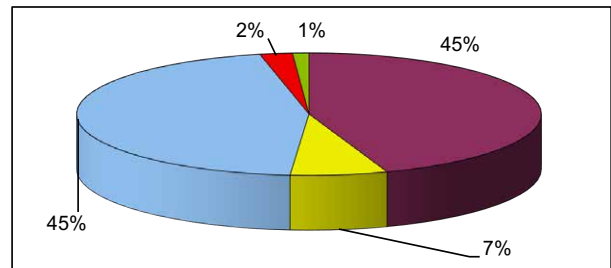
THE ROAD TO PUBLIC HEALTH

2017 Financials

REVENUE	In Dollars	Pct
City, Village, & Township	\$3,371,323	12%
Federal, State & Local Funds	19,576,996	68%
Licenses, Permits & Fees	3,904,502	14%
Charges for Services	1,228,291	4%
Other Receipts	529,823	2%
Total Revenue	\$28,610,935	100%



EXPENDITURES	In Dollars	Pct
Personal Services	\$11,963,621	45%
Services & Charges	1,807,508	7%
Grants & Subcontracts for Services	12,162,480	45%
Supplies & Materials	606,716	2%
Capital Outlays	305,950	1%
Total Expenditures	\$26,846,275	100%



2017 Funders

Centers for Disease Control and Prevention
 City of Cleveland Department of Public Health
 City of East Cleveland
 Cleveland Foundation
 Cuyahoga County Office of Early Childhood
 Cuyahoga County Solid Waste Management District
 Mt. Sinai Health Care Foundation
 Office of the Cuyahoga County Executive
 Ohio Department of Health
 Ohio Department of Transportation
 Ohio Environment Protection Agency
 Saint Luke's Foundation
 Starting Point
 Summit County Health District
 The Cities, Townships and Villages of Cuyahoga County
 U.S. Department of Agriculture
 U.S. Department of Food & Drug Administration
 U.S. Department of Health and Human Services
 U.S. Department of Housing and Urban Development

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COMMUNITIES SERVED

- Bay Village
- Beachwood
- Bedford
- Bedford Heights
- Bentleyville
- Berea
- Bratenahl
- Brecksville
- Broadview Heights
- Brooklyn
- Brooklyn Heights
- Brook Park
- Chagrin Falls Township
- Chagrin Falls Village
- Cleveland Heights
- Cuyahoga Heights
- East Cleveland
- Euclid
- Fairview Park
- Garfield Heights
- Gates Mills
- Glenwillow
- Highland Heights
- Highland Hills
- Hunting Valley
- Independence
- Lakewood
- Linndale
- Lyndhurst
- Maple Heights
- Mayfield Heights
- Mayfield Village
- Middleburg Heights
- Moreland Hills
- Newburgh Heights
- North Olmsted
- North Randall
- North Royalton
- Oakwood Village
- Olmsted Falls
- Olmsted Township
- Orange Village
- Parma
- Parma Heights
- Pepper Pike
- Richmond Heights
- Rocky River
- Seven Hills
- Shaker Heights
- Solon
- South Euclid
- Strongsville
- University Heights
- Valley View
- Walton Hills
- Warrensville Heights
- Westlake
- Woodmere

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