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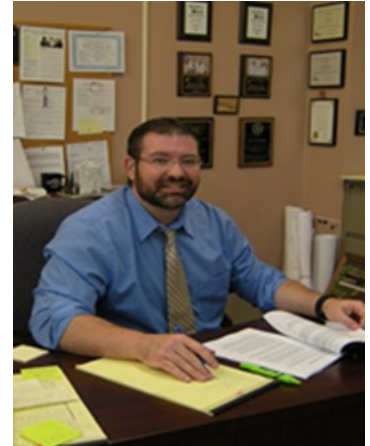
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Lake County General Health District 2016 Annual Report

Preparing for the Future A Message From the Health

The Lake County General Health District strives to prioritize innovation and long-term strategic planning to help improve the local public health system in Lake County, which is nearly 100 years old. Recently it has had much success in its continued efforts to acquire competitive grant funding in order to provide valuable services to the residents of Lake County. As a result, the Lake County General Health District has developed renewed partnerships with both the Ashtabula and Geauga Health Districts to serve as a fiscal agent for several large programs including WIC, tobacco use prevention and education, and immunization promotion.



Ron H. Graham, RD/RDN, LD, MPH
Health Commissioner
2015 - Present

This regional approach has afforded the health districts involved the opportunity to continue with grants that may otherwise not be possible based on the amount of funding available; as a result, essential public health preventive services have not only been maintained, but are now flourishing. The Ohio Department of Health has been a strong supporter of reducing the barriers to open collaboration; successfully reducing the amount of administrative staff needed so that direct services can continue.

The Health District has identified several new initiatives for implementation and expansion during the 2017 calendar year: electronic record system to include large architectural plans to be scanned; adopt a cloud-based system for the submission, review, and approval of plumbing and food service related plans; and adopt an electronic health record software program to help enhance immunization coordination among the Health District and its many private and nonprofit partners.

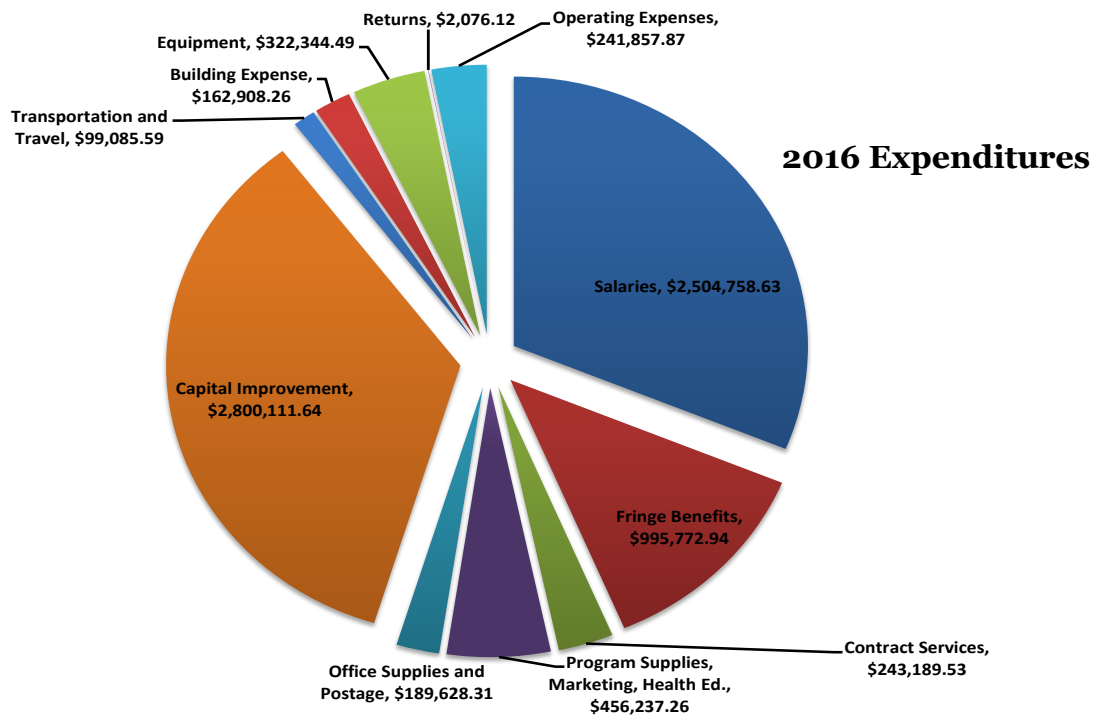
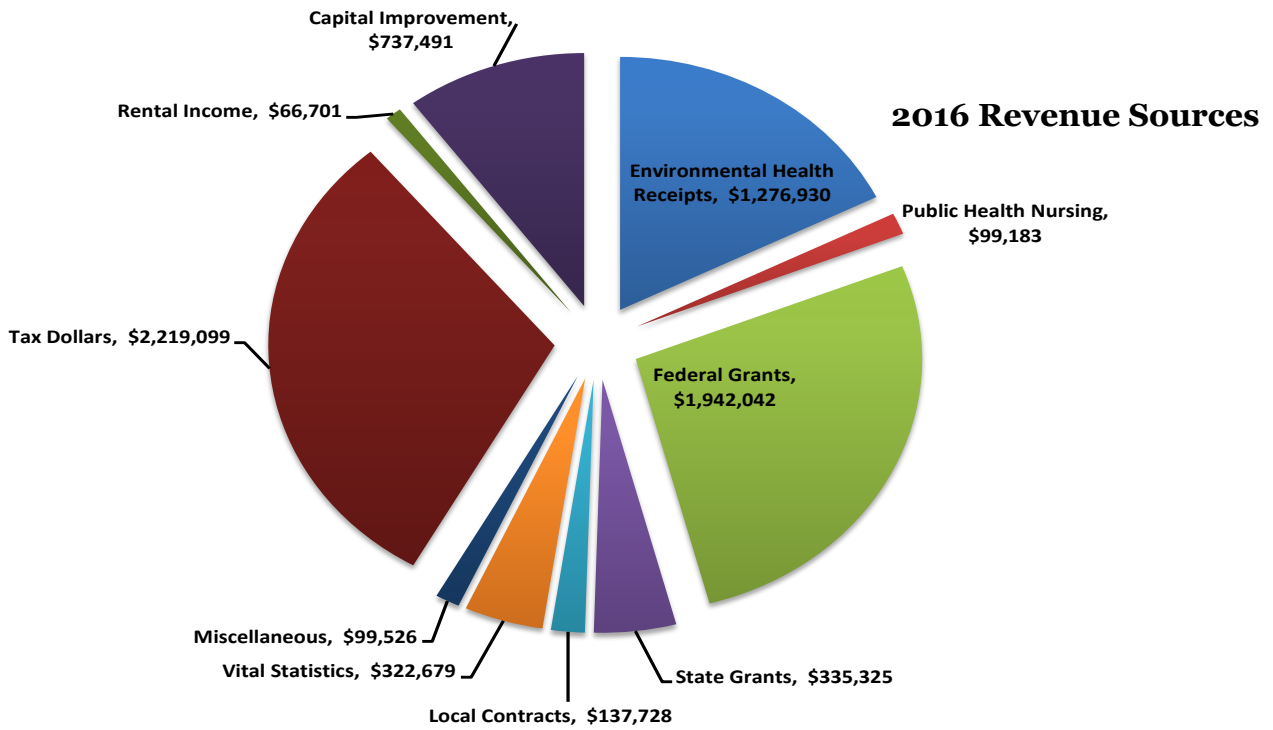
The Lake County General Health District looks forward to its new home in Mentor, Ohio. The Health District will also retain a critical presence in the City of Painesville with a satellite WIC office.

This year will also bring with it newly expanded business hours to assist with public access to our services. Immediately upon occupancy the Health District will be open from 8:00 AM to 7:30 PM every Wednesday to better serve the public and I would ask that the community help spread the word to its residents, stakeholders, and leadership team.

I look forward to another successful year serving as the Lake County General Health District's Health Commissioner.

*Mission of the Lake County General Health District:
Working to prevent disease, promote health, and protect our community.*

Financial Report



NOTE: The Health District received \$2,016,852 in insurance proceeds during the 2015 calendar year. These funds were deposited into the permanent improvement fund and not spent until 2016.

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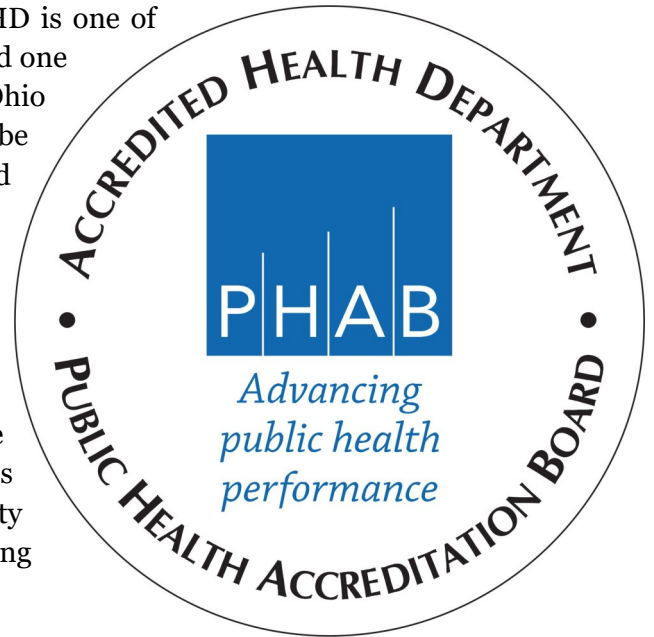


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Lake County General Health District Receives Accreditation

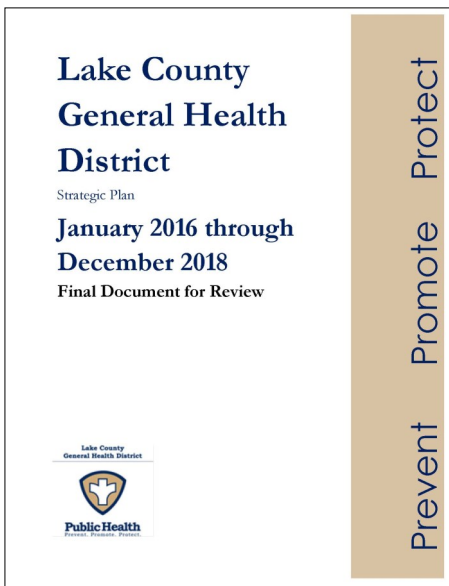
On August 17th, Lake County General Health District joined the ranks of accredited health departments across the country. LCGHD is one of 163 accredited health departments in the United States and one of 15 in Ohio. To be eligible to receive funding from Ohio Department of Health, all Ohio health departments may be required to apply for accreditation by July 1, 2018, and receive accreditation by July 1, 2020.

Being accredited by the Public Health Accreditation Board (PHAB) signifies to Lake County residents that they are being served by a health department that has met rigorous nationally recognized, performance-focused and evidence-based standards for public health. The accreditation process has strengthened LCGHD's operations in a variety of areas including continuous quality improvement, workforce development, strategic planning and performance management.



While reaching accreditation is quite a milestone, the process does not end here. Work continues to improve operations and service delivery so that LCGHD is well-positioned for the reaccreditation process in 2021.

Strategic Plan Update



LCGHD completed the first year of its three-year strategic plan. The following accomplishments have been made:

- Completed a post-fire restoration plan, including securing a permanent building location and implementing an electronic record retention system.
- Maintained a balanced budget, including increasing the number of collaborative grant projects by 10%.
- Implemented an annual employee growth and development program.
- Increased health surveillance trace back calls to physicians by 100%.

Community Health Services

Communicable Disease Surveillance Report

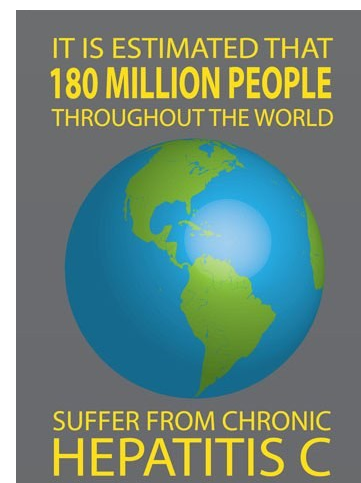
Communicable Disease Report	2015 YTD	2016 YTD
Campylobacter	47	63
Chlamydia	603	656
Coccidiomycosis	0	2
Cryptosporidiosis	4	3
E. Coli 0157:H7	2	1
Giardia	6	6
Gonorrhea	78	121
Haemophilus Influenza	2	2
Hepatitis B	19	24
Hepatitis C	233	302
Influenza-Hospitalized	60	60
Legionnaires Disease	5	17
Lyme Disease	15	5
Meningitis-aseptic/viral	5	3
Meningitis, Bacterial not Neisseria	0	2
Mumps	0	2
Mycobacterium Other than TB	23	14
Mycobacterium Tuberculosis	2	0
Pertussis	17	16
Salmonella	36	27
Shigellosis	10	1
Staph Aureus VRSA	0	1
Streptococcal Group A	4	1
Streptococcal Group B Newborn	1	1
Streptococcus Pneumonia	12	13
Syphilis	11	21
Varicella	10	8
Yersiniosis	0	0
Zika	0	1
Totals	1,209	1,374

Communicable Disease Summary

In 2016, 1,374 communicable diseases were directly reported to LCGHD by laboratories, physicians, hospitals, and other health professionals. All required investigations were completed on cases reported to LCGHD. An additional 126 cases were reported and transferred to other jurisdictions and an additional 70 investigations did not meet the Ohio Department of Health case definition and deemed not cases.

Two disease outbreak investigations were conducted during the year (Legionnaires and Norovirus).

Nurses utilize the Epi-Center Surveillance System to monitor regional hospital emergency department registrations. This community health surveillance program observes for surges in respiratory, gastrointestinal, and neurologic conditions. In 2016, 86 Epi-Center investigations were conducted.



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Newborn Home Visiting Program

The Newborn Home Visit Program targets first time parents, teen parents, and their newborn infants. Public Health Nurses make a one-time home visit in the first few weeks after the baby is born to provide an assessment of mother and child, answer questions, link families to services and resources within our community, and provide information to keep babies healthy and safe.

- Public Health Nurses made 96 newborn home visits
- A \$9,800 Lake County Community Block Grant was awarded to support this project from October 2015 through August 2016
- Targeted Safe Sleep education was conducted to support a state-wide initiative to reduce infant mortality



Adult & Child Immunizations



Children

In 2016, 35 Child Immunization Clinics were held, vaccinating 622 children despite a decrease in clinic sizes due to a clinical services workforce reduction. Clinics were relocated to First Church of Christ in Painesville. An adolescent clinic was added in an effort to fully serve this population's immunization needs. Spanish speaking interpreters were utilized at our Painesville clinics.

Adults

In 2016, 12 clinics were held, vaccinating 205 adults.

Adult vaccine information is provided to parents on newborn home visits, school nurse meetings, community education courses and community presentations.

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Community Health Services



Project DAWN (Deaths Avoided with Naloxone) is in its third year and is solely supported through the Health District and Lake County United Way. The number of naloxone kits distributed has increased three times since last year. The Health District is collaborating with the Lake County Opiate Task Force to combat this public health issue.

2016 Project DAWN Statistics	
Number of naloxone kits distributed	223
Number of overdose reversals	34*
Number of law enforcement officers trained	141
Number of overdose reversals though law enforcement	31*

*The actual number may be significantly higher due to under reporting.

This is the first year the Health District coordinated the distribution of naloxone through a program sponsored by Ohio Mental Health and Addiction Services. LCGHD trained and supplied naloxone to the following Law Enforcement Agencies:

- Eastlake Police Department
- Fairport Harbor Police Department
- Lake County Sheriff's Office
- Lake Metroparks Ranger Department
- Lakeland Community College Police Department
- Madison Township Police Department
- Mentor Police Department
- Mentor-on-the-Lake Police Department
- North Perry Police Department
- Perry Village Police Department
- Waite Hill Police Department
- Willowick Police Department



LCGHD also supplied naloxone to Holden Arboretum Police though they were trained elsewhere.

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Student Data for the Lake County Obesity Prevention Initiative

There has been a steady increase in the overall percentage of students being physically active for at least 60 minutes on a daily basis. There has also been a corresponding increase in the percentage of students demonstrating increases in physical fitness scores as well.

Overall Aggregate	Total # of Students in PEP Sampling	Number of Students Reached Step Total Threshold (36,400)	Number of Students who Passed 4/5 FitnessGram Items	Percentage of Students Reached Step Total Threshold (36,400)	Percentage of Students who Passed 4/5 FitnessGram Items
Baseline	492	161	244	33%	50%
2015—Year 1, Round 1	496	114	258	23%	52%
2015—Year 1, Round 2	476	160	281	34%	59%
2016—Year 2, Round 1	500	232	266	46%	53%
2016- Year 2, Round 2	489	275	292	56%	60%

Seatbelt Usage

A presentation was held at the gazebo during lunch at the Painesville Farmer’s Market and a table with safety belt trivia was offered for guests to try. This was the year that Lake County reached a seat belt use rate of 83.7%, the first time Lake County has reached over 80% in many years.

83.7%

Seatbelt Use Rate



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Environmental Health Programs

Legionnaires' Disease

Between July 1 and October 31, 2016, Lake County experienced 12 confirmed cases of Legionella, including 1 death. Legionella is a type of bacterium found naturally in freshwater environments, like lakes and streams. It can become a health concern when it grows and spreads in human-made water systems such as: showers, hot tubs, cooling towers, and large plumbing systems. After *Legionella bacteria* grows and multiplies in a building water system, that contaminated water then has to be spread through droplets small enough for people to breathe in. The Health District worked with the Ohio Department of Health, Occupational Safety and Health Administration (OSHA), Centers for Disease Control and the business community to identify and eliminate the disease source. Staff performed environmental assessments to determine potential sources at the suspected facilities. LCGHD provided educational seminars to the affected facility employees. Staff assisted OSHA with testing and abatement of the affected cooling towers. People most affected by Legionella are smokers, immune compromised, and persons with pre-existing respiratory conditions. Proper maintenance consisting of sanitizing the cooling tower surfaces reduces the risk of the bacteria from being spread into the air. The investigation of this outbreak was a great learning experience for the staff involved and allowed the Health District to implement internal procedures necessary to handle such an event.



Mosquito Program

In 2016, the Zika Virus arrived in the United States. LCGHD answered numerous phone calls from concerned citizens throughout the mosquito season. Zika is spread from the *Aedes aegypti* mosquito. Our traps caught over 15,000 mosquitos, none of which were capable of spreading the Zika virus. We continue to catch West Nile Virus carrying mosquitos as it is now considered endemic. While neighboring counties had West Nile cases in humans, Lake County did avoid any human cases. The Health District was fortunate to be awarded a grant from the Ohio EPA for \$60,750. With this money, the district was able to supplement our larvacide crews, upgrade our chemical selection to be more environmentally friendly and effective, improve our nighttime spray coverage, and expand the mosquito trapping sites for testing.



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Women, Infants & Children (WIC)

WIC 2016 Participation

The Lake County WIC program works hard daily to ensure excellent customer service and efficient service delivery. In 2016, WIC served the following:

- 2,290 new applicants
- 5,138 re-applicants
- Over 330 pregnant women
- Over 1,500 children under five years of age
- Over 950 infants under one year of age
- Over 450 women who just delivered babies



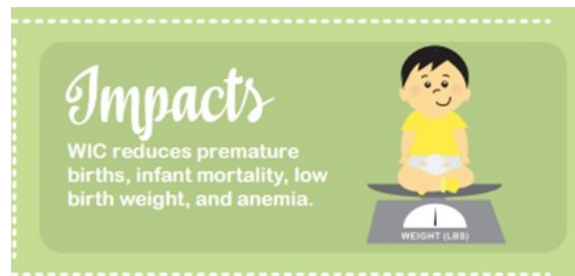
Women, Infants, Children (WIC) Program Report

Starting October 1st, 2016, the Geauga County Health District's WIC Program became contracted through the Lake County General Health District (LCGHD). Grant funds support personnel and other direct costs for program operation. The WIC Director and Program Manager, through LCGHD, administer and supervise both Lake and Geauga programs. The transition has gone well and we anticipate a successful year ahead.

WIC's Partners

In 2016, Lake County WIC made over 950 referrals to neighboring agencies:

- ◆ 53% to breastfeeding support
- ◆ 20% to oral health programs and services
- ◆ 13% to physician offices
- ◆ 4% to food assistance programs
- ◆ 2.2% to smoking cessation programs



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Farmer's Market Nutrition Program

The Lake County WIC 2016 Farmer's Market Nutrition Program supported local farmers by offering 332 fruit and vegetable coupon booklets. Over \$5,000 was redeemed for Ohio grown fresh fruits and vegetables.

2016 Health Initiatives and Strategic Goals

- * Increased breastfeeding initiation rates of 2.5% since 2015, reaching 70% for the first time.
- * Started online breastfeeding support groups for the first time. Average attendance is 17 per group.
- * Decreased the average missed appointment rate from 2% to 1.7%.



Vital Statistics

	2016	2015	2014	2013	2012	2011	2010	2009	2008
Birth Certificates Issued	3,865	3,892	3,718	3,889	4,138	4,659	4,855	5,627	5,776
Out of County Birth Certs Issued	1,957	1,621	1,615	1,638	1,546	1,334	20	-	-
Web Orders for Birth Certs	132	509	491	476	435	175	-	-	-
Death Certificates Issued	7,954	8,631	8,053	8,766	8,741	8,328	8,434	9,556	10,092
Web Orders for Death Certs	20	111	86	81	66	40	-	-	-
Fetal Death Certificates Issued	1	1	1	4	1	2	1	3	4
Burial Permits Issued	650	648	647	768	711	715	717	773	894
Birth Certificates Filed	1,653	1,999	1,773	1,836	1,876	1,959	1,949	1,951	2,069
Death Certificates Filed	1,727	1,852	1,800	1,860	1,845	1,751	1,704	1,772	1,804
Free Veterans' Copies	327	354	362	387	378	349	344	393	335
Affidavits Issued	402	514	516	759	669	581			
Supplements Issued	379	366	308	370	368	282			

Vital Statistics Enhancements in 2016

- E-filing death certificates began in April. Approximately 25 Funeral Homes utilize this service for a more convenient process for filing death certificates in Lake County. 46 Vital Statistic offices participate in this program.
- Since October, all Coroner related deaths were certified by the Coroner and Funeral Directors.
- Ohio Department of Health Vital Statistics Unit continues to enhance the IPHIS/EDRS software program.

This is Public Health

A snapshot of some of the services provided by your health department in 2016

12 Lake County Police
Departments Trained
to Use Naloxone



6,359 lbs.
Drug Disposal



209 Families



487 Rabies Control
Investigations



282 HIV Tests
Administered



Federal & State Grants
\$2,277,367



610 Storm Water
Outfalls Screened

