Angelique Joynes, MPH, RN, Health Officer
Randy Rapp, RS, Environmental Health Services Manager
Lisa Letts, BSN, RN Personal Health Services Manager
This diagram shows how our strategic framework influences community health outcomes and how improved community health outcomes align with the vision and purpose of our department.
2016 Year in Review

Customers can access surveys at the bottom of each webpage electronically or receive them in a paper format. There were 401 surveys returned for 2016 with 98% of those customers responding that they agreed or strongly agreed that they were satisfied with services provided. Data is used to improve services. One change that was implemented in 2016 was putting activities in the clinic waiting room for the children to utilized while they wait for their appointment.

Public Health utilizes different venues to reach our residents such as social media. By focusing on marketing of Public Health awareness of services was increased. Customers can like our Facebook page and/or follow on Twitter. We want to share emerging public health information with residents in “real time.”

There were a total of 34,799 services delivered for 2016. This was provided by a total of 26.4 Full Time Employees (FTE)
Customer Service - Who is giving us feedback?

<table>
<thead>
<tr>
<th>Service</th>
<th>Percentage</th>
<th>Count</th>
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</thead>
<tbody>
<tr>
<td>Child or Adolescent Immunization</td>
<td>33.03%</td>
<td>109</td>
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<tr>
<td>Adult Immunization</td>
<td>7.58%</td>
<td>25</td>
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<tr>
<td>STD/HIV</td>
<td>4.24%</td>
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<tr>
<td>MIHP</td>
<td>0.01%</td>
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<tr>
<td>GSHCS</td>
<td>22.12%</td>
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<tr>
<td>Communicable Disease</td>
<td>3.94%</td>
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<tr>
<td>Hearing and Vision</td>
<td>23.03%</td>
<td>76</td>
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<tr>
<td>Environmental Health field (permit, inspection, sewage, water, SESC, etc.)</td>
<td>5.45%</td>
<td>18</td>
</tr>
<tr>
<td>Environmental Health Food Services (license, inspection, plan review, training)</td>
<td>4.24%</td>
<td>14</td>
</tr>
<tr>
<td>Emergency Preparedness</td>
<td>0.00%</td>
<td>0</td>
</tr>
<tr>
<td>CPR/AED</td>
<td>0.00%</td>
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<tr>
<td>Recycling/Waste Collection</td>
<td>0.91%</td>
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Financial Report

Revenue by Type

<table>
<thead>
<tr>
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<th>2013</th>
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<th>2015</th>
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<td>640,667</td>
<td>628,228</td>
</tr>
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<td>Other</td>
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<td>33,833</td>
<td>35,511</td>
<td>35,483</td>
</tr>
</tbody>
</table>

*Waste Reduction Surcharge can only be used in the Recycling Program*
Continuously Improve Processes

- Completed 107 new Policies and Procedures to ensure consistent service delivery and back up when team members are out
- Implemented SWORD (continuing CI work to work out bottle necks in service)
- Successful Hepatitis A and Baja Foodborne Illness Investigation with After Action Reports. (FDA 2088 agreement is currently being sought to help with quicker information sharing with the FDA directly).
- Public Health Preparedness Strategic National Stockpile and Point of Dispensing Exercise with After Action Report. (To go kits were identified as being needed).
- Using CI tools for reassigning task to be more efficient with clinic flow
- Used Plan Do Study Act CI model to complete the Lead project that is related to increasing our Key Performance Indicator from 15.1% for 2016 to 18% for 2017.
- Passed Accreditation with Commendation to include the National Accreditation Quality Improvement Supplement.
Engaged Workforce

- Implemented an Annual Public Health Survey to all team members again for this year. (This survey allows all team members to provide feedback on administrative performance, communication, professional development, engagement, etc.) This survey has been done for the last 5 years.

- Based on the survey information from 2015 a Workforce Development Plan was created and implemented in March 2016. This Workforce Development Plan surveyed training needs for the team as well as strategic objectives related to workforce development for the next 3 years. (This plan was included in Public Health’s Plan of Organization that was approved by the Board in June 2016.)

- One strategic objective was implementing an assessment of Public Health Core Competencies and identified gaps in our agency in relations. (Public Health Science, Financial Planning, and Management Skills). We have training in place to address two of these issues for 2017.

- Public Health also created individualized training plans for each team member so they know what the expectations are for training on an annual basis and it also helps with budget preparation. (Feedback from the annual public health survey drove this project.

- Public Health has many different services and there are required trainings to stay competent in the service delivery. Public Health had 2,014 hrs. of Professional Development for the department which is 76.3 hours per Full Time Employee.
Personal Health Services

### Hearing and Vision
**P2B Coverage**
Expanded rescreening and referral
Partnering with Head Start, APHS
Onsite screening at schools

### Immunizations
Regional Coalitions
Oversite and quality assurance for 10 Provider sites
Refer to Primary Care for Comprehensive Wellness

### Communicable Disease
Respond to emerging Public Health Threats
School surveillance
Federal, State, Regional Collaboration
Personal Health Services

**Children's Special Health Care Services**
Case Management Enhancement for Transition
Wrap Around Service for Families
Navigation of Services and Insurance Coordination

**STI/HIV**
Expedited Partner Therapy
Community Collaboration CJ Grant (Wear One)

**MIHP**
Social Worker Position
Breastfeeding Initiative
Contracts with Health Plans
Personal Health Services

- **LEAD**
  - 2015 data: 15% of the Allegan County children under 6 that should be tested for lead have been
  - Educate Providers and families, advocate for testing, mitigate impact
- **Perinatal Morbidity and Mortality Reduction**
  - Participation and align Regionally in both effort and resources
- **Outreach and Collaboratives**
  - Substance Abuse, Suicide Prevention, Great Start, HACC, Social Emotional Wellness, Systems of Care, Expo, Day of Dance
Environmental Health Services

Water Supplies
Residential Wells
Type III Wells: Garages, offices
Type II Non-Community Wells: schools, restaurants, factories, churches
Sanitary Inspections

Sewage Disposal Systems
Residential
Commercial
Environmental Health Services

Soil Erosion
- Added a 0.6 FTE in May of 2016
- Needed training and certification before inspecting

**IN 2016 - 60% OF ALL PERMITS MET OUR 21 BUSINESS GOAL**

Food Service Program
- Approximately 435 Fixed Food Establishments
- 550 Fixed Food Establishment Inspections
- 112 Temporary Food Event Inspections
- 16 Food Service Related Complaint Investigations
Environmental Health

RESOURCE RECOVERY

Several Local and Regional Events
Tire Clean-Up: Approximately **1800** car tires collected
Recycled **117,000 lbs.** of unwanted TV’s
Collected **38,000 lbs.** of HHW
8 PGU’s passed Act 69

OTHER PROGRAMS

<table>
<thead>
<tr>
<th>Program</th>
<th>Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Swimming Pool Inspections</td>
<td>97</td>
</tr>
<tr>
<td>Campground Inspections</td>
<td>30</td>
</tr>
<tr>
<td>Lake Michigan Beach Samples</td>
<td>352</td>
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<tr>
<td>Body Art Facility Inspections</td>
<td>6</td>
</tr>
<tr>
<td>Addresses Assigned</td>
<td>270</td>
</tr>
</tbody>
</table>
Animal Shelter

- Partnership with Wishbone Pet Rescue
  - Adopted Out 307 Dogs
  - Adopted Out 266 Cats
  - Returned 8 cats and 211 dogs to their owners’
  - Participated in fund raising and pet adoption events
In summary, Allegan County Public Health Department will continue to collaborate both locally and regionally to improve health outcomes and quality of life for Allegan County residents.

In 2017, in addition to our current service delivery we will be doing active mosquito surveillance to monitor for mosquito species specific to Zika and will also be doing community outreach to include additional tire clean events to reduce breeding grounds for mosquitoes. The surveillance allows us to monitor proactively; so we can make our residents aware if the mosquito species that carries Zika migrates to Allegan County.

We will also be partnering with additional sectors such as local units of government to increase awareness of Health in All Policies approach and how that benefits communities as whole. We will be visiting local providers with lead tool kits to increase awareness of the need for testing children six (6) and under for lead, as well as having resources available electronically to provide a consistent message.

We will also assist Michigan Department of Health and Human Services and Michigan Department of Environmental Quality on emerging environmental issues such as Vapor Intrusion for sites in Allegan County.

Together; striving for a healthier Allegan County.
2016
ALLEGAN COUNTY HEALTH DEPARTMENT

ANNUAL REPORT

© Craig Gardiner Photography
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<thead>
<tr>
<th>Table of Contents</th>
<th>2</th>
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<tbody>
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<td>Administration</td>
<td>5</td>
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<tr>
<td>Strategic Framework</td>
<td>6</td>
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<td>Finances</td>
<td>7-8</td>
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<td>Year in Review</td>
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<td>Personal Health</td>
<td>10-12</td>
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<td>Environmental Health</td>
<td>13-16</td>
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<tr>
<td>Animal Shelter and Jail Health Services</td>
<td>17</td>
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<tr>
<td>Emergency Preparedness</td>
<td>18</td>
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<tr>
<td>Community Outreach</td>
<td>19</td>
</tr>
</tbody>
</table>
The Allegan County Board of Commissioners (BOC) is the governing board of the Public Health Department. The BOC employs a County Administrator who is recognized as the Chief Administrative Officer of the County; representatives shown below:

**District 1**
- Laketown Township
- Manlius Township
- Saugatuck Township
- City of The Village of Douglas
- City of Fennville
- City of Saugatuck

**Dean Kapenga**
5634 136th Avenue
Hamilton, Michigan 49419
Ph: (616) 218-2599
Email: dkapenga@allegancounty.org

*County Commissioner since 2007*
*Board Vice Chairman since 2015*

**District 2**
- Fillmore Township
- Heath Township
- Overisel Township
- City of Holland

**Jim Storey**
344 W 35th Street
Holland, Michigan 49423
Ph: (616) 848-9767
Email: jstorey@allegancounty.org

*County Commissioner since 2013*

**District 3**
- Allegan Township
- Monterey Township
- Salem Township
- City of Allegan

**Max R. Thiele**
319 River Street
Allegan, Michigan 49010
Ph: (269) 673-4514
Email: mthiele@allegancounty.org

*County Commissioner since 2001*

**District 4**
- Dorr Township
- Leighton Township
- City of Wayland

**Mark DeYoung**
4169 Hickory Street
Dorr, Michigan 49323
Phone: (616) 688-5619
Email: mdeyoung@allegancounty.org

*County Commissioner since 2000*
*Board Chairman since 2011*

**MISSION:** “The Allegan County Board of Commissioners shall plan, develop and evaluate the necessary policies and resources to ensure our county continues to progress and prosper.”
Governance representatives continues below:

### District 5
- Casco Township
- Cheshire Township
- Clyde Township
- Ganges Township
- Lee Township
- Valley Township
- City of South Haven

**Tom Jessup**
6717 108th Avenue
South Haven, Michigan 49090
Phone: (269) 637-3374
Email: tjessup@allegancounty.org
County Commissioner since 2007

### District 6
- Hopkins Township
- Otsego Township
- Trowbridge Township
- Watson Township
- City of Otsego
- Village of Hopkins

**Gale Dugan**
318 21st Street
Otsego, Michigan 49078
Phone: (269) 694-5276
Email: gdugan@allegancounty.org
County Commissioner since October 27, 2016

### District 7
- Gun Plain Township
- Martin Township
- Wayland Township
- City of Plainwell
- Village of Martin

**Don Black**
1054 126th Avenue
Shelbyville, Michigan 49344
Phone: (616) 920-2875
Email: dblack@allegancounty.org
County Commissioner since 1999

### County Administrator
- Administration
- Central Dispatch
- Equalization
- Facilities Management
- Finance
- **Health Department**
- Human Resources
- Information Services
- Parks and Recreation
- Senior and Veterans Services
- Transportation

**Robert J. Sarro**
3283 122nd Avenue
Allegan, Michigan 49010
Phone: (269) 673-0239
Email: rsarro@allegancounty.org
Administrator since 2006

**VISION:** “The Allegan County Board of Commissioners is committed to providing our citizens superior and innovative services, being judicious and efficient in the expenditure of resources and promoting a safe, clean and healthy environment in which to live, work and play.”
Where one lives, works, learns, and plays has direct impact on their health. Their zip code matters. Changes to a person’s economic status, physical, mental, and social services environment may help make healthier behavior choices easier to make. Public Health Departments, generally, do not have the resources or capacity to influence all of these areas directly. To have a healthy community all sectors need to work together to implement strategies that will improve health outcomes and quality of life for Allegan County residents. As such, Allegan County Public Health Department (ACPHD) collaborates with community sectors to influence healthy change.

An example of that collaboration is evident in the new marketing material for parks and farmer’s markets in Allegan County to impact Diet and Exercise; a prioritized indicator.

In 2016, a Capacity Assessment of Oral, Mental, and Primary Care was completed which identified access barriers from a provider perspective. As a result of evaluating that data a partnership was formed with My Community Dental Centers to increase access to oral health services focused on increasing access for the uninsured and Medicaid adults through Access To Care. The County’s Public Health Administrative Team concentrated on consistent customer service delivery, improving health outcomes by aligning resources to the prioritized health indicators while collaborating with different sectors to improve quality of life for Allegan County residents.
The diagram above shows how the County’s Public Health strategic framework influences community health outcomes and how improved community health outcomes align with the vision and purpose of the Department.

ACPHD Purpose Statement:
Together; Striving for a Healthier Allegan County

ACPHD 2015-2020 Strategic Plan
Executive Diagram; see below.
### Revenue by Type

<table>
<thead>
<tr>
<th>Source</th>
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<th>2015</th>
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*Waste Reduction Surcharge can only be used in the Recycling Program*
While 2016 Revenue and Expenditures appears much lower in comparison to previous years, there were some significant changes in the ACPHD budget that contributed to the overall, lower than previous year financial numbers.

One of the most significant reductions in 2016, came from the movement of Jail Health out of the Public Health Department Fund and into the General Fund; more specifically Corrections. 2015 was the last year that the Jail Health Revenue and Expenditures were included. The total expenditures for Jail Health in 2015 were $676,340. Jail Health’s total for 2014 was even more, ending with a total expenditure of $843,469. Jail Health was funded by county appropriation which also transferred, creating a large revenue reduction as well.

Another significant event resulting in a visible reduction was a change with the Medicaid Costs Based Reimbursement payments. We received a total of $359,829 in 2014 which was due from 2011 and 2012. In 2015, we received a total of $445,973 which was due from 2013 and 2014 and an estimate of what will be due for 2015. We are now setup with interim payments on a quarterly basis to prevent this type of influx from happening in the future.

Overall, revenue and expenditures remain relatively consistent outside of the Medicaid Costs Based Reimbursement funding and the Jail Health budget. We did notice a slight decrease in both permit and fee revenue. These are normal fluctuations that flow with community needs and capacity to provide those services.
There were a total of 34,799 services delivered for 2016. This was provided by a total of 26.4 Full Time Employees (FTE).

Customers can access surveys at the bottom of each webpage electronically or receive them in a paper format. There were 401 surveys returned for 2016 with 98% of those customers responding that they agreed or strongly agreed that they were satisfied with services provided. Data is used to improve services. One change that was implemented in 2016 was putting activities in the clinic waiting room for the children to utilize while they wait for their appointment.

Public Health utilizes different venues to reach our residents such as social media. By focusing on marketing of Public Health awareness of services was increased. Customers can like our Facebook page and/or follow on Twitter.

We want to share emerging public health information with residents in “real time.”
Services offered through the Personal Health Division involve direct and indirect services. Staff working within these programs (Public Health Nurse, Social Worker, Hearing and Vision Technician, Support Staff) have thorough knowledge of the current laws and regulations affecting public health delivery, insurance plans, clinical best practice and population risks. Detailed below are descriptions of the various programs offered through Personal Health and some of our 2016 statistics.

**Hearing and Vision**

Hearing and Vision impacts learning and development for all children. The County’s Hearing and Vision Program screens children for hearing and vision deficits and makes referrals for follow up as appropriate. Early detection and correction of hearing and vision issues often can prevent permanent damage. Michigan law requires Public Health to provide Vision Screening for Pre-K, 1st, 3rd, 5th, 7th and 9th grades. Hearing screenings are mandated for Pre-K, K, 2nd and 4th grades. We eliminate barriers to care by providing these services onsite at the schools. In 2016, we participated in a variety of kindergarten round ups throughout the county; partnering with Allegan, Fennville, Hamilton, Plainwell and Wayland Public Schools. We also continued our collaborative relationship with Head Start /Early Head Start and Allegan Professional Health Services hosting Health Department clinics that not only provided hearing and vision screenings but enabled the delivery of other health services necessary for school readiness and wellness. Monthly clinics are held by appointment at the Health Department and all Allegan County residents are eligible to receive a hearing and/or vision screening.

**Immunizations**

Through immunization, we can protect infants and children from fourteen (14) vaccine-preventable diseases before the age of two (2). Even teens and adults need immunizations to protect their health. The Public Health Immunization Team not only provides immunizations to underserved populations but also monitors the delivery of immunizations at other health care provider settings throughout the County. Following CDC guidelines, a public health nurse assesses safe handling, delivery and education regarding immunizations. We are also responsible for hosting regional training and continuous education for providers. Addressing the financial barriers for care, Public Health continues to offer immunizations through the Vaccines for Children (VFC) program, a federally-funded entitlement program that provides vaccinations at no cost to children whose parents cannot afford to pay for them. We have a similar program available for adults. In 2016, Public Health offered immunization services by appointment, 1 day per week, including both morning hours and afternoon hours. Additional clinics are scheduled when needed.

- Allegan County schools have a 3.0% waiver rate (Michigan average is 3.1%).
- Allegan County childcares have a 1.5% waiver rate (Michigan average is 2.1%).
- Allegan County Immunization Coverage Levels in MCIR (Michigan Care Improvement Registry) as of 12/31/16.
- Coverage rates for children 19 through 35 months of age is 83% (Michigan average is 74.9%).
- Coverage rates for adolescents 13 through 17 years of age is 84.9% (Michigan average is 74.9%).
Communicable Disease

The County’s Communicable Disease (CD) Program promotes healthy outcomes for the community through disease surveillance, intervention, education and prevention activities. Public Health Nurses and Support Staff follow-up on reportable diseases and animal bites providing education, referral and treatment recommendations. By law all Michigan Schools report communicable disease statistics weekly to the Health Department. The CD staff analyzes the data, identifies trends, recognizes public health threats and mitigates outbreaks for the County. The Program continues to be a resource for information, guidance, treatment recommendations and in-services for medical facilities, physicians, schools and the general public regarding a wide array of health hazards. Per Public Health Code, Public Health also is responsible for preventing, controlling and managing Tuberculosis (TB) in Allegan County.

Children’s Special Health Care Services

Children’s Special Health Care Services (CSHCS) is a program for children and their families with special health care needs, including chronic health problems. The CSHC Team provides information regarding service coverage and referral for specialty services based on a child’s health issues and concerns. CSHCS benefits cover more than 2,700 diagnoses. Families receive assistance through case management, care coordination and plans of care conducted by a nurse via home visits and/or telephone calls. Family centered services are discussed in order to provide support to clients and their caretakers. Community-based services are identified to help one care for the child at home and maintain normal routines. We facilitate and empower individualized and personalized care enabling individuals with special health care needs to have improved health outcomes and an enhanced quality of life.

Sexually Transmitted Infection/HIV

The Human Immunodeficiency Virus (HIV)/Sexually Transmitted Infection (STI) Program utilizes Rapid HIV testing technology. This consists of a finger stick drop of blood and a testing kit; the results are available in 20 minutes. Our ability to provide “on the spot” results is especially useful during outreach activities. To best meet the needs of the community we provide STI and HIV testing, individualized risk reduction plans, treatment and education at a weekly clinic offered during business hours. We also make other appointments as necessary based on triage standards. The Public Health Nurse collaborates with CARES, a nonprofit organization specializing in HIV services, to hold outreach clinics in Douglas and Fennville targeting high risk populations. We want to meet our residents where they are at. STI/HIV testing was also offered at the Allegan County Jail and Youth Home. Per law, certain STI and all HIV cases in Allegan County are reviewed and investigations are completed by the Public Health Nurse to identify contacts and make sure they have the opportunity for treatment as well. We also provide expedited partner treatment which allows us to give medication to our client to give to contacts that are unable or unwilling to come to our clinic for treatment. This practice through research has been shown to reduce reinfection rates per CDC.
Tooth decay is the most common chronic disease of childhood. Poor oral health can affect children’s growth, lead to malocclusion, difficulty concentrating during the learning process, and result in significant pain and infection. This is especially important for high-risk populations; and barriers to access due to socioeconomic disparity present high risk for tooth decay. In 2016, Personal Health Division completed comprehensive training and established the delivery of fluoride varnish services to eligible children who access our clinics. We provide clients with an oral health risk assessment, anticipatory guidance, fluoride varnish application, parent education and referral to a oral health provider.

Lead is a naturally occurring element found in small amounts in the earth’s crust. While it has some beneficial uses, it is toxic to humans and animals. Lead is particularly dangerous to children because their growing bodies absorb more lead than adults do and their brains and nervous systems are more sensitive to the damaging effects of lead. Children may also be exposed to lead by eating and drinking food or water containing lead or from dishes or glasses that contain lead, inhaling lead dust from lead-based paint or lead-contaminated soil or from playing with toys with lead paint. ACPHD has made lead poisoning intervention a priority strategic objective. Treating elevated lead levels in children is important but the 2015 data reveals that only 15% of the Allegan County children under 6 that should be tested for lead have been. We need to increase testing levels in Allegan County. We have developed toolkits and education for providers, families, educators and the public regarding lead testing, referrals and case management if necessary. In addition to the testing, the County’s Lead Program provides:

- in-home nursing and developmental assessments to gain understanding of the child and his/her family’s needs,
- educating the family about sources of their child’s lead exposure and steps to minimize future exposure;
- developing a plan of care to reduce the child’s blood lead level,
- coordinating and environmental investigation of the family’s home,
- referrals for series, including lead home abatement services for eligible families,
- educating the family to ensure follow-up testing until the child’s blood lead level is < 5 micrograms per deciliter.

Fluoride Varnish Tooth decay is the most common chronic disease of childhood. Poor oral health can affect children’s growth, lead to malocclusion, difficulty concentrating during the learning process, and result in significant pain and infection. This is especially important for high-risk populations; and barriers to access due to socioeconomic disparity present high risk for tooth decay. In 2016, Personal Health Division completed comprehensive training and established the delivery of fluoride varnish services to eligible children who access our clinics. We provide clients with an oral health risk assessment, anticipatory guidance, fluoride varnish application, parent education and referral to a oral health provider.

Maternal Infant Health Program The MIHP program is designed to:

- Improve the well-being of pregnant women and infants.
- Provide nursing and psychosocial services.
- Increase access to healthcare, health education and health insurance.
- Provide families with information on and referrals to community resources to assist with obtaining infant supplies, meeting the families’ basic needs and addressing the families’ holistic needs.
- MIHP continued our efforts to reach high risk population groups.

In 2016, the MIHP team enhanced and strengthened ongoing collaborations with other agencies servicing pregnant women and children expanding both team knowledge as well as increasing the number of client referrals and connections to needed resources we were able to provide. One of the MIHP priority strategic objectives is to increase the Allegan County Breastfeeding rate (Currently 28.1% Michigan 36.1% 2012). There is an evidenced-based connection between improved health outcomes across the lifespan for mom and baby if breastfed.

**2016 Client Encounters** 421
**New Clients Enrolled** 39

STAY CONNECTED www.allegancounty.org/health  
2016 Annual Report
Environmental Health consists of multiple programs that aid in protecting public and environmental health of Allegan County. These programs range from on-site water supply and sewage disposal construction permits, soil erosion and sedimentation control permits and the inspection of food service establishments to help ensure safe food for the residents of the county. There are other general programs such as the inspection and regulation of pools, campgrounds, and Michigan Department of Health and Human Services (MDHHS) facilities. These programs, permits, regulations and inspections are a part of the overall vision of creating a healthy Allegan County in which to live, work and play.

**Water Quality**

The water supply construction program consists of pre-evaluations, water supply construction permits, and final inspections. All water supply construction is governed by the Allegan County Water and Sewage Regulations and laws of the State of Michigan. These regulations and laws give guidance for construction materials and standards as well as water quality. In addition to permits for private homes, the Allegan County Health Department (ACHD) permits and regulates the Type II or non-community water supplies which consist of water supplies for schools, churches, campgrounds and businesses. This program not only helps to protect public health but also groundwater.
Soil Erosion and Sedimentation Control

The Soil Erosion and Sedimentation Control (SESC) program helps to prevent the movement of sedimentation at construction sites. When land is disturbed within 500 feet of a lake, pond or stream or property over an acre of land is disturbed, the SESC program aids in the prevention of sedimentation moving into surface waters or onto a neighboring properties.

In 2016, ACHD issued 244 SESC permits and performed 582 inspections in the County.

Onsite Sewage Disposal

The onsite sewage disposal program consist of three parts: site & soil evaluation, construction permit, and final inspection. The site & soil evaluation determines the soils ability to accept and treat sewage effluent by determining soil type, seasonal high water table, lot size, and topography. A construction permit is issued based on soil type, the size of structure and potential water usage. The permit includes size of septic tank(s), dispersal system, specific size and location, and other factors which will help in the treatment and dispersal of the wastewater. Once the sewage system is installed, but before it is covered, a final inspection is conducted to assure the system is installed and in compliance with the permit.
Food Service Program

The food service program is responsible for the licensing and inspection of 435 fixed food service establishments, special transitory food units (fair food rigs), mobile food units and temporary food events such as pancake breakfasts. The team inspects these establishments to ensure compliance with the Food and Drug Administration (FDA) 2009 Food Code, Michigan Modified.

New and remodeled fixed food establishments must be preapproved through a plan review process prior to beginning construction. The food team is also responsible for investigating all complaints, food borne illnesses and training of certified food managers. In 2016, the Food Service Program performed 550 fixed food service establishment inspections, 112 temporary food event inspections and investigated 16 food service related complaints.

The Team attends trainings, throughout the year, and are members of State of Michigan food service related committees. This keeps Allegan County in the forefront of developing new laws and interpretation of current laws in the State of Michigan.

Other Environmental Health Programs

There are other programs that Environmental Health Team members are responsible for inspecting/monitoring to ensure compliance.

These are inspections of public swimming pools, campgrounds, MDHHS facilities, septic tank pumper trucks and body art facilities. In addition to distributing radon test kits, bathing beach monitoring, and address assignments.

<table>
<thead>
<tr>
<th>Program</th>
<th>Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Swimming Pool Inspections</td>
<td>97</td>
</tr>
<tr>
<td>Campground Inspections</td>
<td>30</td>
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<tr>
<td>Lake Michigan Beach Samples</td>
<td>352</td>
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<tr>
<td>Body Art Facility Inspections</td>
<td>6</td>
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<tr>
<td>Addresses Assigned</td>
<td>270</td>
</tr>
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</table>
The Allegan County Resource Recovery Program works with 19 Participating Governmental Units (PGUs), in Allegan County, to provide citizens with recycling services. In 2016, three regional events and several local events were held which aided in safely disposing of Household Hazardous Waste (HHW), electronic or e-waste and unused tires which can be a breeding ground for mosquitos that transmit diseases. The Resource Recovery Program manages two regional drop-off sites which collect and recycling materials 10 months of the year.

The Resource Recovery Program also provides curbside and drop-site recycling within the PGUs and assists residents with questions regarding recycling. This helps to keep many tons of wastes and hazardous materials out of the land-fills.

Allegan County Scrap Tire Clean-up Day

In August 2016, Allegan County Resource Recovery partnered with the Southwest Michigan Solid Waste Consortium to receive a $6,000 scrap tire clean-up grant from the MDEQ. This grant filled three 50’ semi trailers with approximately 1,800 car size tires.

The Allegan County Resource Recovery program properly recycled 117,000lbs of unwanted TV/Computer and other electronic items. The Household Hazardous Waste Program collected 38,000lbs of unwanted paints, pesticides, cleaners, auto fluids etc. Both of these materials were properly recycled by certified vendors that specialize in this type of material.

Allegan County Solid Waste Planning Committee

The Resource Recovery Coordinator is the contact for Allegan County’s Solid Waste Management Plan and is a member of the Southwest Michigan Solid Waste Consortium. In 2016, the committee met several times to discuss solid waste and recycling program needs for Allegan County residents.
In collaboration with the Allegan County Sheriff’s Department and Correct Care providers, the ACHD attempts to assure that residents of the Correctional Facility are receiving services that deliver an appropriate standard of care, are evidence-based, timely and utilizing resources efficiently. Health screenings are performed, medical, dental and mental health issues are addressed, pharmaceutical interventions are managed and risk prevention is initiated in order to positively impact community health outcomes and reduce financial liability.

There is an association between socioeconomic factors, education, and incarceration that impacts the overall state of wellness of a community.

In 2016, the Animal Shelter adopted out 266 cats, 307 dogs, returned 8 cats and 211 dogs to their owners. The shelter also offers spay and neutering services to help control the pet population. The Animal Shelter participates in corporate and community sponsored adoption events throughout the year to expand awareness of the shelter and to adopt pets to families.
The Allegan County Health Department, Public Health Emergency Preparedness (PHEP) Division coordinates the public health response to natural or human-caused emergencies. The PHEP develops plans, conducts trainings and collaborates with stakeholders to prepare for and protect the public in a disaster or emergency situation.

The Operation White Powder was conducted on June 13, 2016 to test the Allegan County Health Department (ACHD) Mass Dispensing Plan. The purpose of the exercise was to assess the capabilities of the Allegan County Health Department to effectively manage Point of Dispensing operations in the event of an aerosolized anthrax release. This exercise allowed the ACHD to evaluate its capabilities relative to Strategy was used to evaluate throughput of medical countermeasures. A comparison of throughputs using the streamlined vs. traditional flow, and the ability to enact a tiered approach for dispensing. Throughput data were recorded by the time to process persons within the POD site. This was timed in intervals using area Girl Scout and Boy Scout & their families as volunteers to serve as clients. The exercise was a success; ACHD meet the required hourly throughput of clients in these scenarios.

The Public Health Emergency Operation Center Exercise

The Operation White Powder was conducted on March 30, 2016 to test the Allegan County Health Department (ACHD) Emergency Operations Plan. The purpose of the exercise was to assess the capabilities of the ACHD to effectively manage emergency operations coordination in a real event. ACHD’s personnel and resources were mobilized and deployed to the Public Health Operations Center (PHOC) where actions would be conducted, as if a real incident had occurred. This exercise simulates reality by presenting complex and realistic problems that require critical thinking, rapid problem solving, and effective responses by trained personnel. The ACHD PHOC staffed by the public health emergency response team (PHERT) made adjustments well and worked efficiently as a unit. The PHOC confirmed communication pathways during the scenario.
We participate in a variety of community outreach and educational opportunities as well as facilitate trainings for environmental and health care professionals and members of the public. Strong public health infrastructure is all sectors working together. Public safety, education, businesses, non-profits, and health care providers all impact the health and quality of life of Allegan County residents. Public Health....Prevent....Protect...and Promote

We know we have to meet our residents out in the community!
In summary, Allegan County Public Health Department will continue to collaborate both locally and regionally to improve health outcomes and quality of life for Allegan County residents.

In 2017, in addition to our current service delivery we will be doing active mosquito surveillance to monitor for mosquitoes species specific to Zika and will also be doing community outreach to include additional tire clean events to reduce breeding grounds for mosquitoes. The surveillance allows us to monitor proactively; so we can make our residents aware if the mosquito species that carries Zika migrates to Allegan County.

We will also be partnering with additional sectors such as local units of government to increase awareness of Health in All Policies approach and how that benefits communities as whole.

We will be visiting local providers with lead tool kits to increase awareness of the need for testing children six (6) and under for lead, as well as having resources available electronically to provide a consistent message.

We will also assist Michigan Department of Health and Human Services and Michigan Department of Environmental Quality on emerging environmental issues such as Vapor Intrusion for sites in Allegan County.

Together; striving for a healthier Allegan County.