

2018 ANNUAL REPORT



KEWAUNEE COUNTY PUBLIC HEALTH DEPARTMENT



**810 Lincoln Street, Kewaunee, Wisconsin 54216
920-388-7160**

TABLE OF CONTENTS

Message from the Director.....	3
2018 Year Synopsis.....	4
Agency Mission Statement.....	5
Health Department Staff / Board of Health Members.....	6
2018 Public Health Budget.....	7
Community Health Improvement Plan Progress.....	8
Maternal and Child Health Programs.....	9
Injury Prevention and Safety Promotion Programs.....	12
Adult Health Promotion Programs.....	15
Public Health Preparedness.....	19
Environmental Health Programs.....	21
Behavioral Health Services.....	23

Message from the Director

I am honored to present to you the 2018 Kewaunee County Public Health Department Annual Report. First and foremost, I would like to thank our dedicated public health staff for all of their hard work and determination. It is because of them that we have made such strides in public health. In addition, I would like to thank the Kewaunee County Board of Health, Kewaunee County Board of Supervisors, and our County Administrator for the continued support they have shown our department over the past year. Finally I would like to thank our Regional and State Public Health Professionals who give us guidance. It is with this support and direction that we are able to establish public health policy for this county and continue to move forward. We are a stronger health department because of the cooperation and combined efforts of our staff and community stakeholders.

Our staff has worked hard within the community to carry out the 10 essential services of public health. In 2018 we have continued to work within the scope of our Community Health Improvement Plan to move the health of Kewaunee County forward. Work groups and agency committees have spent countless hours addressing focus areas, establishing needed services, and initiating work plans. Our “Get Healthy” initiative continues to push for positive changes within the culture of health in our county.

*Please review the activities presented in this report and feel free to contact me with any questions you may have. We believe in the mission of the health department: to promote and protect the health of the citizens of Kewaunee County. We will continue our work together with community partners to address the health needs of Kewaunee County. And we hope you share in our motto...it's important to **Be the Change You Wish to See.***

Sincerely,

*Cindy Kinnard, RN, BSN
Director/Health Officer*

2018 SYNOPSIS

- Served 294 children at the Back-to-School Program.
- Screened 100 adults and children through a free skin cancer screening provided in partnership with Prevea Health.
- A total of 1235 vaccines were administered to 1013 children and 993 adults. Of these, 784 flu shots were given.
- In partnership with the WIC Program, blood lead screenings were performed on 43 children.
- 36 animal bites were reported. This program helps to control and prevent any serious illness or death that may result from rabies.
- Public Health Nurses followed up on 174 reportable communicable diseases.
- Nursing staff provided hearing screening to 562 children, scoliosis screening to 38 children, and vision screening to 1185 children throughout the county. 54 children were referred on for medical follow-up.
- 80 Tb skin tests were completed.
- 332 participants were served through the Kewaunee County WIC Program.
- Distributed 10 free private well testing kits as well as numerous fee for service kits to county residents. Kits were tested at either the State Laboratory of Hygiene or Analytichem.
- Accepted 74 sharps containers through our sharps disposal program.
- 812 individuals received blood pressure screening.
- 39 home visits were made to county residents with health concerns involving their home or property.

OUR MISSION STATEMENT:

The Kewaunee County Public Health Department will administer those services necessary to protect the health of the citizens of Kewaunee County. Our concern is predominately and primarily with disease prevention and control, including other services that are necessary to ensure the optimal health status of the community.

10 ESSENTIAL SERVICES OF PUBLIC HEALTH:

1. Monitor the health status of populations to identify and solve community health problems.
2. Investigate and diagnose community health problems and health hazards.
3. Inform and educate individuals about health issues.
4. Mobilize public and private sector collaboration and action to identify and solve health problems.
5. Develop policies, plans, and programs that support individual and community health efforts.
6. Enforce statutes and rules that protect health and ensure safety.
7. Link individuals to needed personal health services.
8. Assure a competent public health workforce.
9. Evaluate effectiveness, accessibility, and quality of personal and population-based health services.
10. Provide research to develop insights into innovative solutions for health problems.

HEALTH DEPARTMENT STAFF

Director/Health Officer
Cindy Kinnard, RN, BSN

Clinic Nurse
Aly Martin, RN

WIC Director/Registered Dietitian
Rachel Bauer, RD, CD, CLS

Community Health Educator / Emergency Preparedness Coordinator
Anna Westmark, RD

WIC Aide / Blood Pressure Outreach
Marcia Dorner

Administrative Assistant / Immunization Aide
Deanne Schultz



Board of Health

Mary Ellen Dobbins, Chairperson

Kathy Janosky

Kaye Shillin

Julie Janicsek

Linda Teske

Julie Thoreson (RN)

Virginia Haske

Dr. Stephen Shopbell, MD –
Medical Advisor

Kim Kroll

2018 PUBLIC HEALTH BUDGET

Program	Funding Source	Revenue	Expenditures
Public Health	General Tax Levy	\$212,357	\$192,280
WIMCR – Wisconsin Medicaid Cost Reporting	Prenatal Care Coordination	\$1082	0
Public Health Fees for Service	Radon Test Kits, Hepatitis B Vaccinations, Sharps Collections, Tb Skin Testing, Influenza Vaccinations	\$4,719	0
Behavioral Health Contracted Service	Public Health Nursing Services	\$14,804	0
Kewaunee County Back-to-School Donations	Private Donations	\$3593	\$2,339 (remaining balance carried over to 2019)
Maternal & Child Health Grant	State Grant Consolidated Contract, General Tax Levy (75% match)	\$14,108	\$14,106
Prevention Grant	State Grant	\$3,868	\$3,868
Vaccine for Children Immunization Grant	State Grant Consolidated Contract	\$5,863	\$5,863
Public Health Preparedness Grant	Federal Grant Homeland Security	\$34,509	\$34,509
Fit Families Grant	Federal Grant Snap-Ed Dollars	\$12,638	\$12,638
WIC: Women, Infants, & Children Grant	Federal Grant	\$62,294	\$62,294
Childhood Lead Poisoning Prevention Grant	State Grant Consolidated Contract	\$1,953	\$1,950
Children & Youth with Special HC Needs	Stipend State Maternal & Child Health Grant	\$1,700	\$1,698
Communicable Disease Follow-up	State Grant	\$3,400	\$3400
Totals		\$376,888	\$334,945

**Excess funding from state grants is returned to the state of WI or carried over into 2018. Excess funding from general tax levy and revenues from public health nursing services goes back into county funding.*

INFRASTRUCTURE

140 Review

Once every five years each local health department in the state is required, per state statute, to go through a 140 Review Process. This review is an internal audit done by the State of Wisconsin to assure that each health department is meeting their statutory requirements to be a Level I Health Department. In addition, if a health department wishes to achieve Level II or III status, they are required to provide additional proof of services provided to their community at this audit.

Kewaunee County Health Department spent most of 2018 preparing for the audit. On November 2, 2018 state staff from the Northeast Wisconsin Regional Office assisted our health department in this process. Level II status was maintained. Chris Culotta, Northeastern Regional Director of DHS presented our certificate of accomplishment at the December 2018 County Board Meeting.

Due to this review, many updates were made and new policies were adopted. A greater awareness to the importance of infrastructure was made apparent to all staff.

Community Health Improvement Plan

In 2015, Kewaunee County Public Health Department hosted a community health assessment. This too is a requirement of the state that takes place once every five years. Within this process staff and community members come together to review health data. Based on this review, focus areas are chosen and a 5 year community health improvement plan is written. Our current focus areas include:

- Physical Activity & Nutrition
- Mental Health
- Alcohol & Drug Use
- Chronic Disease Prevention and Management

Each of these focus areas has been worked on by both public health and community members over the past three years. Some performance measures have been met while others continue to be worked on. Please click on the link below to read about the progress made over the past three years on the Community Health Improvement Plan: <http://www.co.kewaunee.wi.gov/docview.asp?docid=25422&locid=194>

MATERNAL AND CHILD HEALTH PROGRAMS

Maternal and Child Health Grant

Maternal and Child Health Promotion consists of a multitude of programs targeting families with young children. The prenatal and postnatal programs aim to help families support their children's healthy growth and development. Research indicates that families participating in these programs have healthier babies, improved parenting skills, have developed positive community relationships, and their children have less behavioral problems.

The Kewaunee County Public Health Department chose to utilize Maternal & Child Health funding to continue to promote safe sleep conscious and breastfeeding friendly childcare centers throughout the county as well as establish breastfeeding friendly businesses. We currently have two childcare centers that have achieved a breastfeeding friendly status, and one center which is near completion. We were able to help five businesses achieve breastfeeding friendly status and formulate a breastfeeding policy for their staff. In addition, we promoted the use of the Maternal & Child Hotline (known as Well Badger Resource Center) through our website, newsletters, and Facebook page.

Currently, the health department offers the First Breath Program. This program helps pregnant women in Wisconsin quit smoking. It takes place at Prenatal Care Coordination appointments and provides women non-judgmental, one-on-one support to stop smoking. Smoking during pregnancy can lead to life threatening pregnancy complications, pre-term infants, miscarriage, stillbirths, and SIDS. This program is offered to all smoking clients seen through Prenatal Care Coordination and WIC.

The Health Department also continued its participation on the Kewaunee County Child Death Review Team. This team focuses on reviewing the cause of death for any child 18 years of age and under within Kewaunee County. Topics including safe sleep, suicide prevention, and texting while driving are of great concern; and education and resources are provided by all members of the team.

Prenatal Care Coordination Program

The Health Department assures access to medical, social, and educational services for pregnant women who are considered high risk for adverse pregnancy outcomes through our Prenatal Care Coordination (PNCC) Program, as well as women who need extra support after delivering their baby. This program also serves all teen pregnancies referred through our three school districts within Kewaunee County. Although Prenatal Care Coordination is limited to those who receive Medicaid, the

Health Department follows all high risk pregnancies referred to us, regardless of income.

The components of this program include outreach, physical and emotional assessments, care plan development, ongoing care coordination, monitoring, health education and nutrition counseling. In 2018, a total of 4 high risk young women participated in PNCC for a total of 16 visits.

Postpartum Home Visits

The Kewaunee County Public Health Department offers a newborn home visit to first time parents to assist families after the birth of their infant. Mothers and fathers receive support and education on parenting, child development, and safety as well as referrals to community resources. Specific topics covered in the home visit include nutrition, breastfeeding, infant growth and development, brain development, injury prevention, and immunization. Well water test kits are available for parents with a private well. This service is provided by a registered nurse. Our nurses made 11 visits to families in 2018.

Women, Infants and Children (WIC)

WIC is a special supplemental nutrition program for women, infants and children. WIC helps income eligible pregnant and breastfeeding women, post-partum women, infants, and children up to five years of age who are at risk due to inadequate nutrition. The program improves pregnancy outcomes by providing support services necessary for full-term pregnancies, making referrals to outside resources as necessary, reducing infant mortality by reducing the incidence of low birth weight (infants under 5 ½ pounds are at greater risk of breathing problems, brain injuries and physical abnormalities) and providing infants and children with a healthy start in life by improving poor or inadequate diets while saving long-term medical costs.

Kewaunee County had an average caseload of 234 clients per month; with an overall caseload of 332 clients for the entire year. WIC participants redeemed electronic benefits worth over \$84,172.48 within Kewaunee County to benefit our local grocery stores. The clients are certified by a registered dietitian with the assistance of the WIC aide.

In 2018, the Kewaunee County WIC project continued to offer the Healthy Choices Market on site once per month during the months of July, August, September and October. The farmers market provides an opportunity for our WIC clients to utilize their farmer's market checks without having to make an additional stop. The Healthy Choices Market hosted two local farmers who provided a wide assortment of vegetables throughout the summer and fall months. In addition to serving WIC clients, this market served seniors, patrons to the Health and Human Service Center, and Kewaunee County employees.

Fit Families Grant

The following are the basic interventions that were chosen by SNAP-Ed officials for the Fit Families Program, a program designed to reduce childhood obesity. Research shows that changing these behaviors helps reduce obesity.

- **Make Every Bite Count:** increase fruits and vegetables to 5- ½ cup servings daily (clinical standard).
- **Move More Watch Less:** increase activity to 60 minutes most days of the week and reduce TV to 2 hours or less per day (clinical standard).
- **Make every Sip Count:** reduce juice to 6 oz. or less and limit sugary beverages to once weekly or less (clinical standard).
- **Be a Role Model:** role model behaviors for your children (best practice).

Kewaunee County WIC data as of 2018 shows that 30% of two year old children are either overweight or obese as well as 30.8% of three-year-old children and 41.6% of four-year-old children successively. This data has been collected since 2013. Our rates of obesity for 2 year olds have improved 20% and our rates for three year olds have improved 15%. However, when looking at our four year olds, we have seen obesity rates increased from 29.36 % to 41.6%.

Kewaunee County had 28 children complete the Fit Families Program in 2017. Parents of the children chose to work on 1 of 3 objectives which include: Increasing Fruits and Vegetables, reducing juice to 6 oz. or less daily and limiting sugary beverages to an occasional treat, and reducing screen time to 2 hours or less daily while increasing physical activity to 60 min per day. The children who ate 4 servings of fruits and vegetables daily, increased from 6.7% to 60% within one year. The children who consumed 6 oz. of juice or less per day went from 66.7% to 93.3% within one year. Those consuming no more than 1 sweetened beverage per week increased from 80% to 100%. Children who engaged in 2 hours or less of screen time per day increased from 73.3% to 93.3%, and those who engaged in physical activity for at least 60 min per day increased from 66.7% to 80%. Participants also completed a participant satisfaction survey when their children completed the program. Kewaunee County scored a 4.7 out of 5 for satisfaction! Staff will be trained in 2019 to be a Fit Families project mentor in 2020 and will receive additional funding for this service.

School Health

The Kewaunee County Health Department provides screenings for students in public and private schools. Hearing, vision and scoliosis screenings are offered to each school in Kewaunee County. The initial screenings are coordinated through the schools and children are screened by volunteers under the direction of our staff. Any abnormal findings are then rechecked and referred for further follow up by the

public health nurse. Hearing is checked in grades K-3, and vision is checked in grades K – 8. The following chart shows the number of children screened in the 2017-2018 school year.

2018-2019 Kewaunee County School Health Screenings		
	Screened	Referred
Vision	1185	27
Hearing	562	22
Scoliosis	38	5

INJURY PREVENTION AND SAFETY PROMOTION PROGRAMS

Fluoride Varnish Program

In Wisconsin, fees paid to dentists by state health insurance programs such as BadgerCare are the third lowest in the country for children’s services and fifth-lowest in the country for adult services. Only 1% of the overall Medicaid budget is allotted to dental care. Lack of dental insurance (public or private) is one of the major barriers to obtaining care. In addition, the level of reimbursement for services, particularly for state-funded insurance programs, is also a barrier for providers to participate in these programs because of insufficient financial incentives and reimbursements. Currently there is a .30 cent reimbursement rate on every \$1.00 spent. Another interesting fact is that approximately 533 people per week are seen in Wisconsin ER’s for dental pain. In Kewaunee County, we have no dental providers who are currently accepting new BadgerCare patients.

The Kewaunee County Public Health Department has a fluoride dental varnish program. This program is promoted through the WIC Program, through mailings to new parents, and at community programs. Each year we partner with the Literacy Partners of Kewaunee County to offer the Kewaunee County Back to School Program. At this program, low-income children can pick-up new school supplies and shoes for the beginning of the upcoming school year. Each child, as well as adult, that participates in the program leaves with a dental hygiene package containing a

toothbrush, toothpaste, dental floss, and timer. In addition, fluoride varnishes are made available by the Health Department to any child lacking dental resources. In 2018, 29 dental varnishes were done at the Back to School Program. In total, 128 families were assisted with school supplies and 294 children received backpacks. 16 additional backpacks were provided to area school districts to assist families in need throughout the school year.

In 2018, the Health Department continued to partner with Bridging Brighter Smiles out of southeastern Wisconsin to provide dental services within public school systems. All children are eligible for services. No one is turned away. They offer dental cleanings, sealants, and varnishes to any child regardless of their dental insurance status. For children on state insurance, Bridging Brighter Smiles will bill BadgerCare. For children with no health insurance they provide a sliding scale fee option or community care option. All three public school districts within Kewaunee County took part in the dental service program. Private school children were welcome to come to the public school for dental services too.

Children Served by Bridging Brighter Smiles in the 2017-2018 School Year:

	County Total	Algoma	Kewaunee	Luxemburg-Casco
Students Enrolled	313	115	112	86
Cleanings Provided	543	204	194	145
Fluoride Varnish Applications	827	315	307	205
Sealants Placed	368	120	125	123
Charitable Care Provided	\$2,424.20	\$821.54	\$1,071.83	\$530.83

Prevention Grant

The Kewaunee County Public Health Department chose to focus their 2018 prevention grant efforts on physical activity and childhood obesity. In 2015, Kewaunee County Public Health Department hosted a Community Health Assessment. From this, physical activity and chronic disease prevention were noted as needed focus areas. Our data showed that 40% of WIC participants between the ages of 4 and 5 were found to be overweight or obese. When comparing WIC data of four year olds from 2015 to 2017, WIC participants showed healthy weights declining and obesity rates increasing. Also it was noted that 28% of Kewaunee County adults reported having no leisure time physical activity (WI was at 21%). Finally 60% of Kewaunee County residents said they had access to exercise opportunities (as opposed to 83% in WI). We are aware that obesity and lack of physical activity lead to chronic disease.

Parochial school students within Kewaunee County often have less physical activity opportunities within their school settings. 33% of the parochial schools within Kewaunee County do not have a gymnasium for indoor activity use. 16% of parochial schools within Kewaunee County are rural and do not have safe walking / biking routes to school.

For several years the health department had offered a Fun & Fit Day at the parochial schools that offered a lesson on physical activity and nutrition and was followed up with a 30-minute walk. In 2018 we offered to expand this program. Time was spent creating a five lesson curriculum that would allow our staff to enter the parochial schools every other month throughout the year and teach lessons that contain elements stressing the importance of both physical activity and nutrition. Our target audience would be children aged Pre-K to 8th grade. This curriculum will be offered for the first time during the 2018-2019 school year.

Our program goals include:

- Provide opportunities for at least 60 minutes of physical activity per day for all school-aged children within the participating schools.
- Encourage parent and staff participation.
- Offer physical activity options that can be done outside of school.
- Provide aerobic and muscle-strengthening opportunities.

Our program objectives include:

- Students will be able to identify how much physical activity they should get each day.
- Students will be able to list at least five activities they can do at both home and school to reach their recommended 60 minutes of physical activity each day.
- Students will be able to define two health benefits of staying active.
- Students will be able to define what a calorie is and how energy from food is needed for activity.
- Teachers will be able to describe 5 activities they can do within the classroom to promote physical activity.

Additional funding provided through the Prevention Grant was used to continue the process of reviewing agency policies and procedures. There is a strong push from the state to strengthen agency infrastructure. Eight agency policies and procedures were reviewed and rewritten to better suit our current needs.

Rural Safety Day

Kewaunee County Public Health began collaboration with Kewaunee County UW Extension in 1996 to offer a special event focused on rural safety and injury prevention. This event is called Rural Safety Day. We receive a \$500 grant from the Wisconsin Rural Health Initiative. The Kewaunee County Farm Bureau matches these funds with an additional \$500. The Kewaunee County Dairy Promotion provides milk and ice cream to all participants at the event. Our partners donate their time for the day to educate the kids. They include: Wisconsin Public Service, Green Bay YMCA, Brown County Park and Rec. Dept., Kewaunee County Parks and Promotion

Department, Kewaunee County Sheriff's Dept., WI Agri-Bility, WPS, Kewaunee Fire Department, Luxemburg Fire Department, Luxemburg Rescue, Wisconsin State Troops, Luxemburg Motor Company, Pagel's Ponderosa, Prevea Health, and WI DNR.

Fifteen learning stations are set up throughout our livestock buildings at the Kewaunee County Fairgrounds. Approximately 275 children from nine area public and private schools are in attendance. The children are divided into groups of approximately 20-25 students. They rotate through learning stations every 15 minutes. The learning stations include:

- Large Animal Safety
- Small Animal Safety
- Tractor Safety
- Lawn Mower Safety
- Farmstead Safety
- Agri-Bility / Disability
- Fire Safety
- Electrical Safety
- ATV Safety
- Water Safety
- Home Alone
- Safety in the Woods
- Bike Safety
- Car Passenger / Seat Belt Safety
- Sun Safety

Every child in attendance receives a safety booklet highlighting each of the lessons they learned about that day. Teachers spend time with their students to complete the evaluation and to reinforce the prevention lessons they have learned over the following week in their classroom. Evaluations have shown an increase in students' knowledge.

All presenters and organizations that help plan or participate in the event have a vested interest in educating our children on safety measures and the success of the program.

ADULT HEALTH PROMOTION PROGRAMS

Communicable Disease Control

According to Wisconsin State Statute, surveillance, investigation, and follow-up of all Category I, II, or III communicable diseases are mandated responsibilities of a local health department. Public health nurses spend significant staff time conducting these investigations. For the first time ever, in 2018 the State of Wisconsin allocated funding to local health departments to conduct surveillance, investigation, and follow-up of communicable diseases. Kewaunee County Public Health used this money to purchase items that would enable our staff to perform investigation and follow-up from a remote location and also increase our outreach / education on various topics within communicable disease. Special attention was placed on Lyme Disease awareness and the increase in cases we are seeing within this county.

COMMUNICABLE DISEASES REPORTED & CONFIRMED IN 2018

Disease	Reported	Confirmed / Probable / Suspect
Babesiosis	1	0
Campylobacteriosis	15	15
Carbon Monoxide Poisoning	5	2
Chlamydia	24	24
Cyclosporiasis	1	1
Cryptosporidium	7	7
E Coli - Shiga Toxin STEC	5	5
E Coli - Enteropathogenic EPEC	12	12
E Coli- Enterotoxigenic ETEC	3	3
Giardiasis	2	2
Gonorrhea	1	1
Group Strep A	3	1
Group Strep B	12	1
Hepatitis B - chronic	7	2
Hepatitis C	11	4
Influenza - hospitalized	22	22
Legionellosis	2	2
Lyme's Disease	13	10
Measles	1	0
MRSA	1	1
Mycobacterial Disease / non-TB	3	3
N. Meningitis	3	2
Pertussis	4	0
Pesticide Related Illness	2	0
Plesimonas	1	1
Salmonellosis	2	2
Streptococcal Pneumonia	3	3
Syphilis	1	0
Tuberculosis - latent	4	3
Varicella	2	1
Yersiniosis	1	1
Total	174	131

In addition to communicable disease follow-up, our staff maintains weekly correspondence with our three public school districts to monitor illness rates within the schools. These illness rates are reported each Friday and plotted on an absenteeism graph per school. This allows our nursing staff to watch for peaks or spikes in influenza, or gastrointestinal illnesses that are spreading throughout the county.

Outbreaks Reported

Two suspect outbreaks were reported from two local health care institutions. One was identified as an Influenza A outbreak. 19 residents and 4 staff became infected with the agent. Staff worked with the area nursing home to identify the causative agent by collecting the necessary specimens, creating line lists, and providing education on how to stop the spread of the agent.

The other outbreak was also a suspect respiratory outbreak. Causative agent was believed to be Influenza B. 6 residents and 2 staff were infected. Health Department staff again worked with the facility to collect specimens, create line lists, and provide education to stop the spread of the causative agent.

In both cases residents and staff were treated with Tamiflu.

Blood Pressure Clinics

Adult blood pressure clinics are offered throughout Kewaunee County at low-income housing, meal sites, foot care clinics and our office. In 2018, the clinic nurses screened 812 individuals for blood pressure throughout the county (Kewaunee, Algoma, Dyckesville, Luxemburg and Casco) as well as provided this service to all Behavioral Health clients prior to their medical visit. In addition, individual appointments are also accepted. We provide education to all clients on maintaining a healthy lifestyle, adding exercise into their daily routine, and making healthy nutritional choices.

Animal Bites

Investigation of reported animal bites is conducted to assure that serious illness or death from exposure to animal or human transmission of rabies will be prevented. This program is designed to coordinate an effective rabies control procedure between Kewaunee County Public Health Department, law enforcement, veterinarians, physicians, and our townships and municipalities.

Animal Bites	Year	2013	2014	2015	2016	2017	2018
	Total Number Reported	45	38	48	49	41	36
Dog	30	23	30	26	29	22	
Cat	9	8	11	19	7	11	
Bat	5	5	5	3	1	2	
Raccoon	1	0	1	0	2	1	
Cow	0	2	0	0	1	0	
Squirrel	0	0	1	0	0	0	
Rabbit	0	0	0	1	0	0	
Fox	0	0	0	0	1	0	

Immunization Program

Public health departments are allowed to vaccinate individuals who are on BadgerCare, are uninsured, underinsured, Native American or Native Alaskan. As a health department, our objective is to vaccinate as many children as we can within our guidelines and to track all children less than 2 years of age who reside within our county or utilize our vaccination services and send notices to parents of children that are behind schedule. Booster doses are given to prevent immunity from waning. The immunization rates will be monitored to assure compliance with immunization schedules.

The Kewaunee County Public Health Department provides vaccination by individual appointments. Vaccination services are also offered in the school settings to assist in meeting state requirements for sixth grade entrance. In 2018 mass influenza clinics were offered in all three public school districts and Tdap and meningitis vaccines were offered to all 5th graders county-wide. 571 doses of influenza vaccine, 50 doses of meningococcal and 58 doses of Tdap were distributed in the school setting.

	Total Immunizations	Total Children and Adults Served
2012	1816	895
2013	821	501
2014	582	416
2015	1143	904
2016	1102	910
2017	1280	1013
2018	1235	993

Educational Sessions

Kewaunee County Public Health Department provides information that allows people to make healthy decisions every day like increasing physical activity, eating right, smoking cessation or simply washing hands to prevent the spread disease. The public health nurse, community health educator, and registered dietitian provide these informational programs in schools, in homes, clinics and on our website. Educational sessions are provided to various community groups upon request.

- Blood-borne Pathogens
- Communicable Disease / Influenza
- Eating for the Aging
- First Aid
- Food Demonstrations
- Hand Washing
- Puberty
- Physical Activity / Proper Nutrition

PUBLIC HEALTH PREPAREDNESS

The Centers for Disease Control and Prevention (CDC) provides yearly grant funding to local health departments in order to increase our capacity to plan for, respond to, and recover from public health threats and emergencies that may impact our community.

The Kewaunee County Public Health Department focused on the following capabilities:

- **Community Preparedness** – The ability of communities to prepare for, withstand, and recover from public health incidents.
- **Community Recovery** – The ability to collaborate with community partners to plan and advocate for the rebuilding of public health, medical, and mental/behavioral health systems to pre-incident levels.
- **Medical Surge** – The ability to provide adequate medical evaluation and care during events that exceed the limits of the normal medical infrastructure of the community.
- **Volunteer Management** – The ability to coordinate the identification, recruitment, registration, credential verification, training, and engagement of volunteers to support the health department’s response to incidents.
- **Non-Pharmaceutical Interventions** – The ability to recommend to the applicable lead agency (if not public health) and implement, if applicable, strategies for disease, injury, and exposure control.

Initiatives to eliminate identified gaps based on the targeted capabilities included the following:

- Participation in the Department of Public Health facilitated Health Care Coalition regional exercise for Mass Casualty Response.

- Participation in scheduled Department of Public Health facilitated webinars and meetings.
- The Kewaunee County Hazard Vulnerability Risk Assessment plan was reviewed and updated with input from Kewaunee Emergency Management. This assessment was then forwarded on to the Northeast Regional Health Care Coalition to facilitate the development of the Northeast Regional Risk Assessment. The tool identified Kewaunee County's highest risks for potential hazards to help guide future planning. Identified hazards for Kewaunee County include pandemic influenza, cyber-attack, drought, severe thunderstorms, extreme temperatures, power outage, and blizzards/ice storms.
- Staff was trained in Mass Dispensing/Clinic and Strategic National Stockpile capabilities.
- Staff participated in WI-Trac, WEAVR, and RAVE training to prepare for coordinated response during public health related emergencies.
- In attempt to exercise and assess operational abilities of the mass clinic (dispensing) plan, staff coordinated a mass immunization functional exercise with schools throughout Kewaunee County for influenza in Fall 2017 and Tdap and meningococcal in Spring 2018. During the exercise 568 influenza vaccines were administered to children under the age of 18 while 61 Tdap vaccines were administered to 5th graders, and 82 meningococcal vaccines were administered to any willing student over the age of 10.
- A staff member has maintained training in the Wisconsin Emergency Assistance Volunteer Registry (WEAVR) program in order to recruit and manage willing volunteers to fill specific roles during a public health emergency.
- The department is currently in the process of reviewing and revising the format and content of the public health emergency plans in order to improve the capability and efficiency of responding to public health incidents.
- Staff continued to meet FEMA training requirements by participating in the ICS and NIMS courses.

ENVIRONMENTAL HEALTH SERVICES

Beach Testing

The Kewaunee County Public Health Department coordinates with WI DNR and UW Oshkosh, as well as the cities of Kewaunee and Algoma to provide monitoring of water quality at two of our Lake Michigan beaches. The program was implemented under the Federal Beach Act of 2000, an amendment of the Clean Water Act. The beaches that are monitored are Kewaunee City Beach (at Selner Park), and Crescent Beach in Algoma.

The monitoring takes place twice weekly between Memorial Day and Labor Day. The program monitors for the presence of *Escherichia coli* (*E. coli*). If *E. coli* levels are found to be >235cfu/100mL an advisory is posted. If levels are found to exceed 1000cfu/100ml, a beach closure is posted. Advisories and closures are posted at the beach as well as on the WI Beach Monitoring website.

In 2018 our beaches continued to utilize a beach flagging system to alert citizens of elevated bacteria levels in the lake. A green flag indicates that there is not currently an advisory or closure, a yellow flag indicates levels have reached a cautionary level (higher risk of illness exists), and a red flag indicates bacteria levels are considered high (warning...do not swim...serious risk for illness exists).

KEWAUNEE COUNTY BEACH REPORT 2018

Beach Name	Number of Samples	# of Advisories	# of Closures	% Exceedances	Average <i>E. coli</i> (MPN/100 mL)
City of Kewaunee Beach	28	0	0	0.0	0.0
Crescent Beach	29	0	0	0.0	0.0

% of exceedances is based on the number of beach days under advisory or closure.

Childhood Lead Testing

There is no safe level of lead in the human body. Even very low levels of lead exposure can cause permanent brain damage and negatively affect health throughout the child's life, especially those between six months and six years of age. Experts now use a reference level of 5 micrograms per deciliter to identify children with elevated blood lead levels. The new lower value means that more children will likely be identified as having lead exposure allowing parents, doctors, public health

officials and communities to take action earlier to reduce the child's future exposure to lead.

In Kewaunee County, children with a lead level of 5 or greater are provided with follow-up and consultation by a Public Health Nurse. 43 capillary blood lead checks were done with no new children identified as having a lead level between 5 and 10 ug/dL. One child was reported as having been lead poisoned (greater than 10 ug/dL).

Water Quality

The quality of drinking water in Kewaunee County remains a leading concern for our health department. Because of our unique geology and soils, there are extreme challenges to protecting the groundwater within our county. Our upper layer of bedrock can be easily dissolved by water. This is referred to as "karst" bedrock. Soil is important for filtering contaminants out of groundwater, but in areas where karst bedrock is present, we lack the depth of soil needed to properly filter the groundwater. Red River, Lincoln, Casco and Luxemburg townships are most affected by karst bedrock.

Contamination of wells is a major concern for our rural residents. As a Health Department, we encourage all well owners to test their wells annually; and whenever a change in color, odor, or taste is noted. The Health Department has well testing kits available to private well owners. In addition, free testing kits are offered to first-time parents of newborns, WIC families, and low-income families. Education is offered on various topics including annual well testing, options for improving your well water, high nitrates and blue baby syndrome.

Throughout 2018, our Health Department continued work on recommendations set forth by a short-term solution workgroup formulated by the WI DNR which focused on finding assistance for individuals with contaminated wells. Outreach remains our primary focus.

One contamination incident was followed up on with letters sent out to neighbors within a one-half mile radius alerting them of the possibility of contamination. Education was provided to those in the affected area within 24 hours of notification. Resources were shared with the families affected by the contamination as well.

Health Hazard Investigation

In 2018, environmental health responsibilities also included the investigation of ten residences and placarding of two new human health hazard sites. In addition, two placarded sites carried over from 2017. Extensive time was spent with each of these property owners educating them on the need to clean and maintain their property to avoid health issues secondary to their current living conditions. In excess of 35 home visits were made to these properties to assist in rectifying the current hazard

situation. These services were done through collaboration with Kewaunee County Human Services, Law Enforcement, and Kewaunee County Corporation Counsel.

BEHAVIORAL HEALTH SERVICES

In 2018, the Public Health Department continued to contract nursing services with the Kewaunee County Department of Human Services to assist with medication management for the Behavioral Health Unit. Nurses are responsible for assisting behavioral health clients at the start of their clinic visit, reviewing current medications lists, and managing the prescription ordering / refill processes. In addition, the nurses manage the sample medication stocks currently held within the unit.

Assisting with mental health services fits into our Community Health Improvement Plan. Within this plan our department will focus on reducing the number of crisis calls by Kewaunee County residents through medication management. By assisting with the management of medication and prescription refills, we hope to see patients better managed on their medication, receiving education on how to avoid crisis and triggers that lead to crisis, and less need to call the crisis line for assistance.

In addition to the services provided through the Behavioral Health Unit, our staff has been an active partner in the Emotional Wellbeing Work Group for Live Algoma. This work group has focused on improving access to care for youth and adults throughout the county, suicide awareness and prevention, civility, and awareness to Mental Health Month. The Health Department staff also put together the Kewaunee County Mental Health Resource Guide. This resource guide is available within our office, on our website, and at the link below.

<http://www.co.kewaunee.wi.gov/docview.asp?docid=24482&locid=194>