



## MESSAGE FROM THE DIRECTOR

This 2011 Annual Report provides insight into the many achievements of public health this past year. Our victories often go unnoticed as they are the infectious or food-borne outbreak that does not occur, the disease or disability that does not develop, or the disaster or injury that does not happen.

In much the same way as your health care provider cares for you as an individual, your public health professionals care deeply for this community as a whole.

We keep our ears, eyes and hearts open assessing the community for conditions that threaten the health and well being of the population. We develop plans and work with community partners to address these threats, often before problems arise. And we monitor the effects of our interventions to ensure they are effective.

Our mission is to safeguard the environment, promote public health and protect consumers by providing high quality services responsive to the needs of the community.

We believe that prevention is the most effective public health strategy. Working collaboratively together to create a healthier Appleton remains one of the most cost-effective investments we can make in our community.

Respectfully yours,

Kurt D. Eggebrecht  
Health Officer  
City of Appleton



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Note: This document not only represents the activities of the Appleton Health Department for 2011, but also provides trend data comparisons for selected activities. The data for 2011 is compared to rates of disease, numbers of citizens served, and other selected service provided in previous years. Additionally, this report satisfies the requirements set forth in Chapter 251.06 (7) of the Wisconsin Statutes.

# HEALTH DEPARTMENT

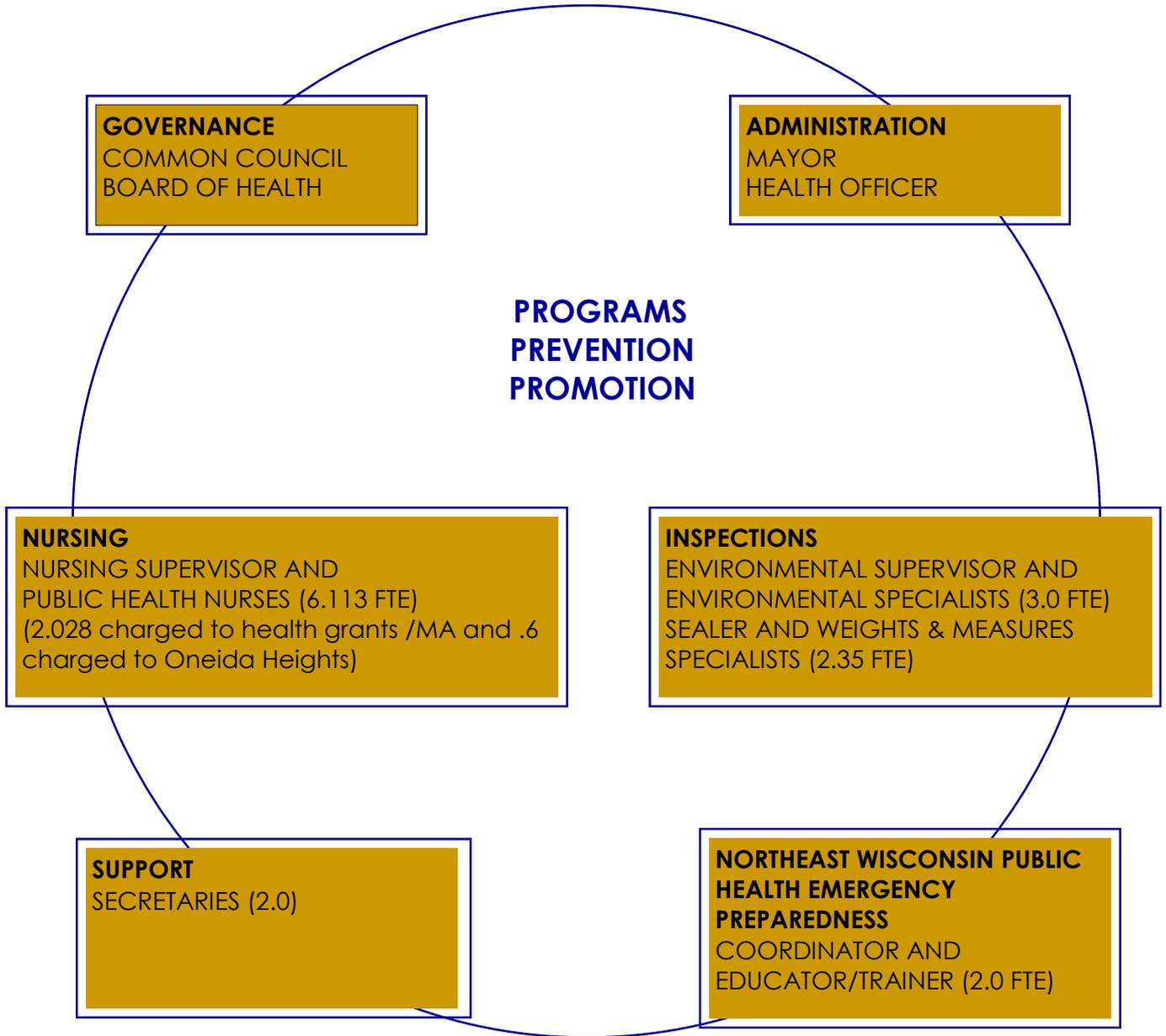
## MISSION AND BELIEF STATEMENTS

The Mission of the Appleton Health Department is to safeguard the environment, promote public health, and protect consumers by providing high quality services that are responsive to the needs of the community. Our belief is that prevention is the most effective public health strategy.

- \* The Appleton Health Department plays a vital role assessing and assuring the health needs and trade practices in the community.
- \* The Appleton Health Department consists of highly motivated and dedicated individuals who provide services to protect and promote the health and well-being of the citizen and consumer.
- \* The Appleton Health Department communicates with the public on health and consumer related issues.
- \* The Appleton Health Department provides services in a cost effective and efficient manner.
- \* The Appleton Health Department develops and evaluates departmental programs, policies, and procedures based on community needs. We collaborate with community agencies and providers to assess those needs and ensure high quality services.
- \* The Appleton Health Department has a professional staff that works together as a cohesive team by cooperating, communicating, and supporting each other to achieve departmental and individual goals.
- \* The Appleton Health Department encourages the individual to share the responsibility for their health and the health of their family.

# APPLETON HEALTH DEPARTMENT

## TABLE OF ORGANIZATION



## **ROSTER BOARD OF HEALTH**

Douglas Nelson, D.D.S., Chair  
Lee Marie Vogel, M.D., Medical Advisor  
Mayor Timothy Hanna

Alderman Cathy Spears  
Vacant  
Sally Mielke, R.N.

### **PERSONNEL**

#### **Administration**

Kurt Eggebrecht, M.Ed., MCHES, Health Officer

#### **Inspectors**

Timothy Mirkes, R.S., Environmental Supervisor  
Eric Maggio, City Sealer  
Keith Verhagen, Weights & Measures Specialist  
James Richter, Part-time Weights & Measures Specialist  
Michelle Roberts, R.S., Environmentalist II  
Steve Kihl, R.S., Environmentalist II  
Stan Bieda, R.S., Part-time Environmentalist II

#### **Public Health Nurses**

Kathy Stromberg, R.N., B.C., Nursing Supervisor  
Ann Steele, R.N., PHN  
Kristen Eiden, R.N. Part-time PHN  
Susan Larson, R.N., Part-time PHN  
Becky Lindberg, R.N., Part-time PHN  
Tina Pelishek, R.N., Part-time PHN  
Tricia Promer, R.N., Part-time PHN  
Trish Schuldes, R.N., Part-time PHN  
Kathleen Sprangers, R.N., Part-time PHN  
Pam Wampole, R.N., Part-time PHN

#### **Northeast Wisconsin Public Health Emergency Preparedness**

Lauren Jones, Public Health Preparedness Educator/Trainer  
Jon Lee, Public Health Preparedness Coordinator

#### **Support Staff**

Catherine Bolwerk, Secretary IV  
Dorene Sense, Part-time Clerical

Renee Krajna, Secretary IV

## City of Appleton Board of Health



Douglas Nelson, D.D.S.  
Chairperson



Timothy Hanna  
Mayor



Lee Marie Vogel, M.D.  
Medical Advisor



Sally Mielke



Cathy Spears  
Alderperson

## The Department

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### HIGHLIGHTS OF 2011

***“The Appleton Health Department plays a vital role assessing and assuring the health needs and trade practices in the community.”***

February 24, 2011 a package and labeling inspection was conducted at OfficeMax. While inspecting 1 lb. bags of rubber bands, they were found to be short of the posted 1 lb. weight. Fifty bags were ordered off sale and a warning letter was sent to the OfficeMax corporate headquarters. OfficeMax reached out to all of its stores nationwide and had the store follow a specially prepared rubber band bag consolidation procedure. OfficeMax acted quickly to fix this error and sent a certified letter when all the errors had been fixed.

Also in February, Jennifer Borski, Hydrogeologist with the DNR, met with Health Officer Kurt Eggebrecht and Environmental Health Supervisor Tim Mirkes to discuss the mandatory five year review of the N.W. Mauthe Superfund Site. This Superfund Site is a former metal plating property. Under the federal Superfund law, a review is required at least every five years at sites with ongoing cleanup to make sure the project still protects people and the environment. This is the third such review since construction work was completed in 1996.

Several Weights and Measures enforcement actions related to price scanning errors took place this year. During a routine inspection of a local retail store (Sherwin Williams, 1023 W. College Ave) James Richter, Weights and Measures Specialist, detected major violations which revealed 4 pricing errors (3 overcharges) in a 25 item sample. As the National Price Verification Code tolerance is + or – 2%, the 16% overall error rate found in this inspection is a violation, and indicated problems with the store's price control system. The store has failed each routine inspection since 2008. A warning letter was sent and a reinspection was conducted in May, in which they are now compliant.

On June 10 during a routine Price Scanning inspection of a gas station/convenience store (Richmond Citgo) Jim Richter detected major violations. A routine inspection revealed 6 pricing errors (all overcharges) in a 25 item sample. The 24% overall error rate found in this inspection is a violation, and indicated problems with the store's price control system. A warning letter was sent to the store and a reinspection was conducted in July, in which they are now compliant.

Then on June 16, 2011, a separate Price Scanning inspection of a local convenience store (American Petroleum) was conducted by Jim Richter and he detected major violations. A routine inspection revealed 8 pricing errors (7 overcharges) in a 25 item sample. The 32% overall error rate found in this inspection was a violation, and indicated problems with the store's price control system. A warning letter was sent to the store. A reinspection was conducted in July in which they are now compliant.

A consumer complaint was received on May 13, 2011 about pricing of tortilla chips at a local retail store (Wal-Mart). The tortilla chips had a shelf tagged price of \$1.88 but were ringing up at \$2.00. The complainant had alerted floor managers for 3 consecutive weeks about the pricing error. The complainant became frustrated that nothing was being done about the error and called Weights and Measures for help. City Sealer Eric Maggio went to the store and spoke with the store manager who fixed the error immediately. The complainant was notified and was pleased with the level of service.



A consumer complaint was received on July 7, 2011 about an unlicensed commercial solicitor named Countryside Meats (door-to-door meat peddler). Police had been called to the complainant's home to investigate high pressure sales tactics used. The complainant listened to the sales pitch and was not interested. Unfortunately, the peddler continued with high pressure sales tactics and eventually made his way into the house and filled the complainant's freezer with \$432 worth of beef and pork. The complainant indicated that she wrote a check just to get them out of her house. City Sealer Maggio worked with the complainant and her family to get the money back. Countryside Meats was directed to return the \$432 and to apply for a commercial solicitors license if they would like to work in Appleton (which they declined).

Health Inspectors Michelle Roberts and Steve Kihl conducted 10 food stand inspections at the annual Art in the Park event held on July 31, 2011. No major issues were found during the inspections.

Weights and Measures inspected the Festival Foods Farm Market on August 3, 2011. There were 33 vendors inspected which resulted in 2 booths having non-certified scales and a majority of the vendors not having vendor identification signage. The management at Festival Foods who are required to monitor the vendors under their City license were re-educated and staff reinforced the importance of the management's involvement with the Farm Market.

Weights and Measures staff member Keith Verhagen inspected the Appleton Downtown Farm Market on August 6, 2011. Of the 145 vendors inspected, five vendors

were without the correct signage or had labeling issues. The overall compliance was very high. Department staff met with vendors in May to provide information regarding recent changes in policies as well as going over Farm Market rules along with ADI staff. This mandatory meeting provides a great foundation for high compliance throughout the summer duration in which the Farm Market operates.

This year there were 106 food stand inspections and 6 reinspections conducted by the Health Department during License to Cruise and Octoberfest. Eleven (11) food stand inspections were conducted at License to Cruise.



Ninety four (94) non-profit food stand inspections and one (1) for-profit food stand inspection were conducted at Octoberfest. Of the 106 stands that were inspected this year, 76 food stands had no violations at the time of the inspection (72%). There were a total of 36 violations recorded at 19 food stands during Octoberfest and eight (8) total violations found at five (5) food stands at License to Cruise.

In addition to the Health inspections at Octoberfest, Weights and Measures inspections are conducted. This year, there were 35 arts and craft booths that were inspected for Weights and Measures compliance of product labeling and trade practice regulations. Booths selling various items such as pre-packed retail food products, herbal soaps and honey products were inspected. These items must be fully labeled and sold either by weight or measure, depending on the product type. There were eight violations found (six were minor labeling violations, 2 were major labeling violations). All violations were fixed at the booth and the vendors were allowed to keep selling without interruption.

November 3, 2011, Weights and Measures staff received a complaint on a local grocery store. Complainant stated that sale prices on shelves did not match what the computer displayed while checking out. Weights and Measures inspectors did a complaint-based inspection on 50 random sale-priced items. The inspection resulted in 0 errors but store management acknowledged that there were some errors that they had fixed earlier in the day. The sales coordinator for the store was out and they did not have a backup plan. After speaking with management, a backup plan was put in place. Complainant was happy with the outcome of this investigation.

December 4th, Weights and Measures staff conducted an inspection of the downtown Winter Farm Market. Of the 40 vendors that were inspected, four violations were found. Short weight bakery items were found at a booth. The inspector worked with the booth operator to make on-site corrections and was therefore able to keep the booth open. Other errors identified included mislabeled items and minor scale violations. All booths were able to stay open and the errors were corrected immediately.



This past winter City Sealer Maggio and Health Officer Eggebrecht met with the administrators from each of the communities in the East Central Weights and Measures consortium which includes Kaukauna, Kimberly, Little Chute, New London, Waupaca, Ashwaubenon and Ripon, to evaluate the services provided by Appleton Health Department staff. This annual meeting also provides an opportunity to discuss the number of contracted service days and rates for next year. Feedback from the contracted communities remains positive. Appleton benefits from sharing the cost of the program including equipment and ongoing training of staff.

***“The Appleton Health Department consists of highly motivated and dedicated individuals who provide services to protect and promote the health and well-being of the citizen and consumer.”***

This year Appleton Health Department staff participated in a number of events focused on improving emergency preparedness and response. On January 5th, department staff members participated in a tabletop exercise sponsored by Appleton Waterworks regarding a waterline break and subsequent health concerns that could potentially emerge during such an incident.

Also in January on the 25th and 26th, Ann Steele, R.N., Kurt Eggebrecht and Jon Lee attended a two day Sheltering Conference in Duluth, MN. The conference hosted by the American Red Cross, focused on community collaborations following a disaster to provide emergency shelter to displaced residents with a particular emphasis on meeting the needs of the most vulnerable.

On March 22nd, department staff participated in a citywide tabletop exercise in the City of Appleton’s new Emergency Operations Center (EOC). The EOC scenario

focused on bringing together leadership from many city departments during an emergency to coordinate their response decisions and subsequent actions.

The NEW Preparedness Consortium provided several work sessions during the year to test performance measures in a variety of response capabilities of our local health departments. Appleton Health Department participated on March 23rd and performed well in meeting the established time and content standards for each of the drills as defined in the performance measures.

At the April 14th Northeast Wisconsin Public Health Preparedness Consortium Meeting, recommendations developed by the consortium and several local agencies on updating and improving local mass clinic plans were shared with our members. A presentation was provided to give an overview of the resources, planning examples and action items necessary to keep mass clinic planning on track. Preparedness staff member Jon Lee provided agencies with a CD loaded with templates and checklists to accomplish and track these updates.



On June 9th, department staff members participated in a regional public health tabletop exercise coordinated by the NEW Public Health Preparedness Consortium. This exercise focused on the initial response to an anthrax exposure over a large geographic region of Wisconsin, including the Appleton area. Department staff members were also active participants in the Exercise Design Team, developing the exercise scenario, target capabilities to be tested and providing facilitation for the participants' discussion during the exercise.

August 9th marked the final date of the Northeast Wisconsin (NEW) Public Health Preparedness Consortium. Beginning with the current Public Health Emergency Preparedness (PHEP) grant year-August 2011-July 2012, the Appleton Health Department is partnering with several other local health departments to share preparedness services.

The cities of Neenah and Oshkosh as well as the counties of Manitowoc, Marquette, Waupaca and Waushara are contracting with the Appleton Health Department for preparedness planning and technical assistance.

On September 1st, the City of Appleton experienced a brief but strong windstorm that downed several power lines and disrupted electricity to many homes and businesses, including City Hall. The Appleton Health Department followed emergency procedures by contacting area healthcare partners to ensure the safety and continuity of care to their residents in facilities without primary power. Environmental health staff connected with area food establishments to advise them on food safety guidelines during power outages. Additionally, the Health Department posted information on food safety during power outages on the Appleton website and Health Department Facebook page. Tim Mirkes represented the department and staffed the City Emergency Operations Center (EOC) during the event until the emergency was lifted.

Following the storm, health department staff took the lessons learned during the power outage to improve our emergency planning efforts. An after action debrief was held the following week, and feedback collected from this meeting was used to develop a formal report and Improvement Plan (IP) to identify corrective actions we can take to improve our Continuity of Operations Plan (COOP).



This past year one motel room and two dwellings were placarded by the Health Department as unfit for habitation with clean-up orders issued on the properties. All properties have been cleaned and the placards removed.

Steve Kihl provided food safety training to 30 participants in preparation for the annual Xavier Food Fair which was held the first Sunday in May. Providing food safety education to individuals that do not normally cook for large gatherings helps to reduce mistakes that could cause a food borne outbreak.

In October, Tim Mirkes, R.S., presented on food safety to an English as a Second Language class at Fox Valley Technical College. There were 30 students in attendance, many of whom are working in the food service industry in Appleton.

A building permit was issued for exterior work on the front porch of a pre-1978 dwelling located at 721 North Oneida Street. The work was being done by a contractor that was not a Certified Lead-safe Renovator (contractor). A child living there was tested and found to be lead poisoned. The Health Department ordered the work to be

stopped. The owners were issued orders for lead abatement to be done by a lead abatement contractor. They obtained bids and abatement work has been completed.

As part of our Agent agreement with the Department of Agriculture, Trade, and Consumer Protection, the Environmental section is periodically asked to collect local food and food contact surface swab samples from licensed establishments for routine testing conducted at the State Lab. In August we collected 10 surface swab samples at each of three retail food stores looking for presence of Listeria. One location was found positive for non-pathogenic Listeria. The business was instructed to clean and sanitize working surfaces. Then additional swab samples and food samples were collected. Both the follow-up swabs and the food samples were all negative for Listeria.



Environmental staff had one cat, two dogs and fifteen bats shipped for rabies testing in 2011, following contact or possible contact with humans. The cat, dogs and fourteen bats were negative for rabies. One bat tested positive for rabies.

This year we assisted several nursing homes and long-term care facilities with communicable disease outbreaks.

One suspect norovirus outbreak in a nursing home in Appleton was reported to the Division of Public Health. No lab specimens were done since a similar outbreak was investigated recently at this same facility. Public Health nursing staff provided prevention consultation and support. This outbreak report was shared with the Board of Health.

Nursing staff assisted three Long Term Care facilities with outbreaks during the second quarter. A respiratory illness outbreak at an assisted living facility resulted in a number of residents being diagnosed with pneumonia. The causative agent was found to be respiratory syncytial virus (RSV) per WI State Lab testing.

Also in the second quarter, Nursing Staff provided assistance to an Appleton Nursing Home on a small gastrointestinal illness outbreak where no causative agent was identified.

A separate nursing home reported three confirmed gastrointestinal infections with clostridium difficile related to hospital discharge. Public Health Nurse Ann Steele, R.N. worked with Gwen Borlaug, Infection Control Epidemiologist, WI Division of Public Health and appropriate local infection control providers.

In the fall of 2011, nursing staff also assisted a Long Term Care facility with an outbreak of respiratory illness. Both residents and staff were symptomatic. Respiratory Viral Panel testing at the WI State Lab found Rhinovirus/Enterovirus RNA.

Public Health Nurses Becky Lindberg, R.N. and Kris Eiden, R.N., provided TB skin testing to the employees at the Salvation Army, Emergency Shelter, and the Warming Shelter due to the high risk population these employees serve. Seventeen employees were tested at the Salvation Army, 13 from the Emergency Shelter, and 2 from the Warming Shelter. Testing date was August 30th and reading was done on September 1st.

Starting in December we have responded to an outbreak of Pertussis cases in Appleton. The role of the Health Department is to monitor the number of cases and conduct an investigation of each case including reaching out to all known contacts that have been exposed. In addition we provided education to those impacted as well as the general public to prevent further spread. Pertussis is a highly contagious respiratory disease that is especially serious in infants, young children and immune compromised adults.



In the month of December we received reports of 21 lab-confirmed pertussis cases. In addition, 2 epi-linked confirmed and 6 probable new cases were identified. Follow up contact with these individuals has resulted in thousands of subsequent parent letters being sent warning of the disease and what to do should one of their loved ones become ill.

In addition, information has been disseminated on multiple occasions via media, including every major local TV and radio station as well as the *Post Crescent* and surrounding newspapers. We have also posted information on the City of Appleton and Appleton Area School District websites. Note: This is an ongoing outbreak which continues into 2012.

***“The Appleton Health Department communicates with the public on health and consumer related issues.”***

Staff provided a variety of public education programs this year including:

Communicable Disease prevention in the classroom was presented to the Appleton Area School District Even Start Program staff. Eleven staff participated in the discussion with Kathy Stromberg, R.N., B.C on January 14, 2011.

Tina Pelishek, R.N., provided education at the St. Pius Health Fair on January 31st. The booth included information on Safe Sleep practices, immunization, lead poisoning

prevention, and other general public health information.

In February, Tim Mirkes was a guest on WHBY radio's Kathy Keene Show providing insight to the duties of a Health Inspector.

On March 21st, Kathleen Sprangers provided eleven new mothers information on immunizations and lead poisoning prevention at the Mom and Me class held at Appleton Medical Center.

This year several Public Health Nurses presented educational sessions on the importance of Safe Sleep Environments including the following:

- in January 2011, two sessions were held for primary care providers at St. Elizabeth Hospital for Pediatric and Family Practice providers . Two community agency sessions were provided at the Appleton Police Department and one session was held at the Hmong American Partnership meeting where seventy providers/ agency representatives were trained. Staff involved included: Tina Pelishek, Becky Lindberg, Tricia Promer, and Kathy Stromberg. The efforts of these nurses were acknowledged by the Children's Health Alliance in their March 2011 Childhood Injury Prevention newsletter.
- May 6th, Tina Pelishek, R.N., presented on Infant Safe Sleep and Childhood Immunizations at the 23rd Annual Conference for Teen Parents held at FVTC.
- June 29th, Kathy Stromberg, R.N., B.C., presented on safe sleep messaging for members of the Healthy Infant and Child Alliance.
- September 21st, Kathy Stromberg, R.N., B.C. and Becky Lindberg, R.N. met with the WI Child Death Review Council in Madison to share the Fox Valley Consistent Safe Sleep Messaging campaign with the council members. This effort was a result of reviewing unsafe sleep conditions connected to infant deaths by the Outagamie County Death Review Team, which Kathy Co-chairs. These efforts work towards meeting the objectives of the department Maternal Child Health grant contract.
- September 26th, Nurse Supervisor Kathy Stromberg, R.N., B.C. provided education to nine staff members of Family Services, Inc. Parent Connection Program on safe sleep issues for young children.
- November 4th, Kathy and Mark Hahn, Detective Lieutenant with the City of Portage Police Department, presented on the topic "Conducting Effective Infant Sleep Related Death Reviews" at the Keeping Kids Alive Summit held at Liberty Hall.
- November 29th, Kathy provided training to 18 resident physicians and staff of the U.W. Health Clinic on Infant Safe Sleep, including the new American Academy of Pediatrics newest recommendations.

- Public Health Nurse Becky Lindberg, R.N. as part of the Maternal Child Contract project and Fox Valley Safe Kids, partnered with Winnebago County Public Health and Town of Menasha fire department on May 21st to provide Safe Sleep information to children and parents at the Safety Scavenger Hunt. The fair was open to Fox Cities families and approximately 500 people participated.

April 20th, City Sealer Eric Maggio spoke at the annual Festival Foods Farm Market meeting at the store on Northland Ave. A record number of vendors attended the meeting this year. City Sealer Maggio provided information regarding policies as well as going over rules. Weights and Measures staff tested 16 farm market vendors scales as well as package and labeling approvals. The meeting which has become mandatory provides a great foundation for high compliance throughout the Farm Markets summer duration. Weights and Measures staff monitored the farm market closely throughout the summer to ensure compliance.

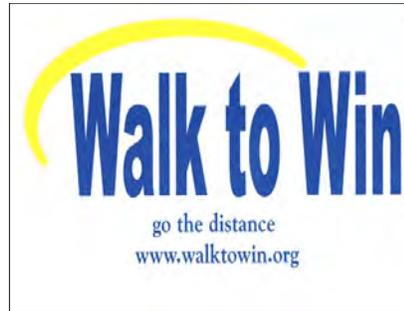
Health Officer Eggebrecht presented at the Wisconsin Health Educational Network Annual Conference held in Madison, April 21st. He spoke on the methodology of the Community Needs Assessment conducted in the Fox Cities and the collaborative approach working with Health Care partners and area health departments.

On June 1, 2011, City Sealer Eric Maggio and Weights & Measures staff participated and spoke at the annual Appleton Downtown Farm Market Vendor meeting in the Library meeting room. Information regarding policies and market rules was provided. Weights and Measures staff tested 42 farm market vendors scales as well as package and labeling approvals. The mandatory meeting provides a great foundation for high compliance throughout the Farm Markets summer duration. Weights and Measures staff monitored the farm market throughout the summer to ensure compliance.

On June 29th, Kathy Stromberg, R.N., B.C. met with the staff of the Fox Cities Warming Shelter to present Shelters and TB: What Staff Need to Know. Seven shelter staff participated.

July 26th, Kathy Stromberg, R.N., B.C. met with fifteen staff of UW Fox Valley Residency Program. She presented on Communicable Diseases and T.B.

August 16th, Health Officer Eggebrecht presented at Fox Valley Technical College on the “Walk to Win” program. Participants of the Summer Institute consisted of K-12 teachers from throughout the Fox Valley Region.



Each year in August, the Octoberfest organizers provide training to the participants of Octoberfest. Potential vendors are required to attend one of two scheduled vendor-training meetings in order to participate in the event. Health Department staff provides the food service training and Weights & Measures requirements. The Police and Fire departments, as well as the Chamber of Commerce personnel relay other important information to the vendors during these training meetings to keep the event safe. This year there were over 230 people present at the training meetings.

October 19th, Tina Pelishek, R.N. educated approximately 170 Appleton West High School freshmen on the subjects of immunization, safe sleep, maternal child health, prenatal care coordination and communicable disease.

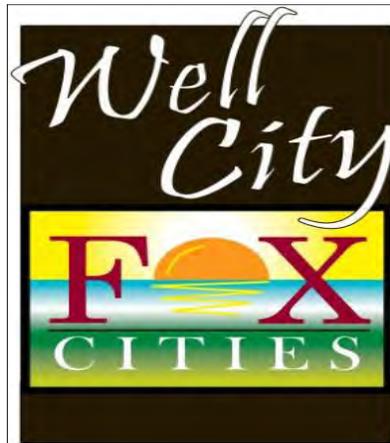
November 3rd, Trish Schuldes, R.N. presented to Teen Parents attending the Support Group at East High School information on the Appleton Health Department Prenatal Care Coordination Program, Safe Sleep, Immunizations and Lead Poisoning prevention.



Ann Steele, R.N. participated in the planning committee and presented at the World's AIDS Day Event held on December 11th at Harmony Café.

On behalf of the Healthy Wisconsin Leadership Institute, Health Officer Eggebrecht presented at the American Public Health Association (APHA) annual conference held in Washington D.C. October 31st-November 2nd. Eggebrecht spoke on the mission goals and value of the Institute. The Healthy Wisconsin Leadership Institute is a continuing education and training resource supported partly by the University of

Wisconsin School of Medicine and Public Health's Wisconsin Partnership Program and the Medical College of Wisconsin's Advancing a Healthier Wisconsin.



December 12th, Health Officer Eggebrecht spoke to CEO's and Executives of regional companies who are part of the Well City Fox Cities Initiative. Well City challenges local business communities to work together toward building a healthier community, starting in the workplace. Eggebrecht spoke on the State Health Plan and the methodology used to identify and address priority health indicators such as obesity and diabetes.

***"The Appleton Health Department provides services in a cost effective and efficient manner."***

Public Health Nurses provided monthly blood pressure screening and health education services at Fischer Manor. Typically 30 older adults participate in these monthly screenings.

Public Health Nurse Ann Steele, R.N., participates in the Community Drop Box medication drug sorts every month. This year a department Nursing student from UW Green Bay, April Oja, participated in the June 30th sort.

Every other year we have the measurement standards (weights and pump measures) tested and calibrated by State of Wisconsin Metrologists at the state lab in Madison. The large cast iron 50 and 25 lb weights were first sand blasted and painted by the City Sealer and Staff. Weight kits which are used to test smaller capacity scales had each weight individually cleaned. By keeping the weights painted and cleaned regularly, the weights and test measures can be used for a very long time.

In the fourth quarter of 2011, we re-signed an annual agreement with the Appleton Housing Authority to continue to provide residents at Oneida Heights with advocacy and wellness services.

This year Health Department staff again collaborated with the Appleton Area School District (AASD) and provided influenza vaccine clinics at five separate locations and times. More than 1,200 employees of AASD and City of Appleton elected officials and their family members benefited from this service.



***“The Appleton Health Department develops and evaluates departmental programs, policies, and procedures based on community needs. We collaborate with community agencies and providers to assess those needs and ensure high quality services.”***

January 19th, Health Officer Kurt Eggebrecht presented and assisted with a training held in Madison for newly appointed Health Officers.



February 1st, Kurt Eggebrecht participated in the development of a 5-year Strategic Plan for Reach Counseling Services Inc. Reach Counseling's mission is to end sexual violence and promote healing in our community. Eggebrecht serves on the Board of Directors.

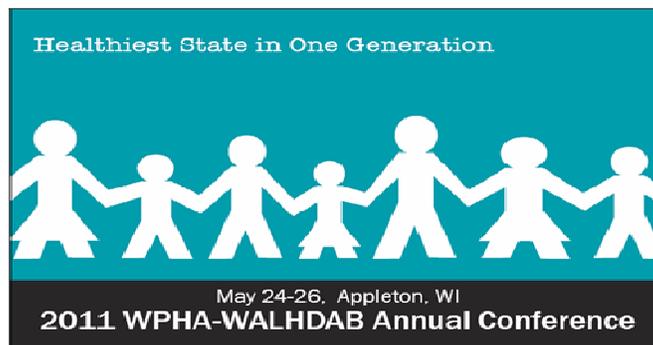
February 9th, Eggebrecht presented to this year's class of the Healthy Wisconsin Leadership Institute on collaborative leadership, and using evidence based community health intervention.

February 25th, Nurse Supervisor Kathy Stromberg, R.N., B.C. and Health Officer Kurt

Eggebrecht met with State and local health officers to discuss HIV prevention efforts. Then again on June 17th several department staff including Ann Steele, R.N., Kris Eiden, R.N., Kathy Stromberg, R.N.,B.C, and Kurt Eggebrecht met with representatives of the State HIV program to discuss challenges and opportunities to outreach to increase screening and provide education throughout the Greater Fox River Valley. Representatives of area health departments also participated in this meeting.

March 10th, Health Officer Eggebrecht participated in the Fox Cities Mental Health Summit. The goal was to bring together key stakeholders to create a vision of how we can work together to improve access and navigation for our community's mental health care. Funding for this initiative was provided by JJ Keller Foundation and the Community Foundation for the Fox Valley Region, Inc.

Public Health Nurse Kathleen Sprangers, R.N., in collaboration with an Outagamie County Public Health Nurse piloted the April 12th, Northeast Wisconsin Immunization Coalition Vaccine Update with ThedaCare Physicians Kimberly. Kathleen has worked with a coalition committee to develop this presentation tailored for local clinic immunization providers. Fifteen certified medical assistants, nurses and clerical staff participated.

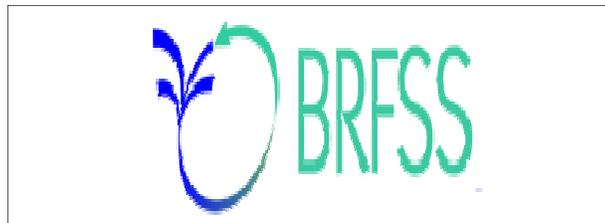


In May, Appleton hosted the Joint Annual Conference of the Wisconsin Public Health Association and Wisconsin Association of Local Health Departments and Boards. Health Officer Eggebrecht co-chaired this year's annual conference. This year's theme of "Healthiest State in One Generation" utilized national speakers. This event drew more than 350 participants. As a preconference event, Eggebrecht lead a unique Trek Across The State to draw awareness to the importance of physical activity and leading a healthy lifestyle. Staff from the local health departments from the Mississippi River to Appleton participated by walking, running or biking across their counties of jurisdiction. The Public Health Trek took three days and created awareness and significant media coverage. To view You Tube video type Public Health Trek Across Wisconsin.

Also in May, Environmental Health Supervisor Tim Mirkes participated in a panel discussion for a new pilot program called 'Good Food Business,' which was being offered by Goodwill and Community Garden Partnership to assist people that want to start a food-based business .

On September 20, Ann Steele, R.N. and Katie Schink, R.N., UW Oshkosh completion student, participated in the Thompson Community Center Senior Fall Prevention Community Event. Multiple service providers collaborated to provide seniors with information and resources to promote healthy and safe aging. Ann also participated in the planning committee.

Public health nurses Becky Lindberg, R.N. and Kathleen Sprangers, R.N., staffed a health fair at APPLETON on September 22nd. Approximately 250 employees attended and learned about safe sleep for infants, immunization and childhood lead poisoning prevention. Active learning incentives by the company encouraged interaction with the public health nurses.



This past year, work was completed on the Behavioral Risk Factor Surveillance System (BRFSS) for the Fox Cities. The health departments from Appleton, Neenah and Menasha partnered with Affinity and Theda Care health systems on this project in 2000, 2005 and again this year. The BRFSS is the worlds largest continuously conducted telephone health survey used to track health risks in the United States. We use our local data to compare to these national and state findings as a comparison to identify areas of strength and opportunities for improvement. Given our 15 years of data we can also now provide local trend analysis. 2010 findings have demonstrated the need to address a growing problem of obesity and lack of exercise.

Tobacco use and exposure to tobacco smoke, although improving dramatically, is still a leading indicator of premature illness and health care cost. This BRFSS is also used as a key data set in the Fox Cities Leading Indicators for Excellence Study (L.I.F.E.). Both the BRFSS and L.I.F.E. study can be found at [www.foxcitieslifestudy.org](http://www.foxcitieslifestudy.org).

The Appleton Health Department has engaged in a partnership with area faith communities to spread the word about preventive steps to stop influenza. In October our department, armed with a modest sum of Prevention grant dollars and a community volunteer, mailed posters to sixty churches, temples and other spiritual gathering places throughout Appleton. A pair of 8" x 10" full color laminated posters featured the slogans "Stop the Spread" of influenza. A second set of posters entitled "Wash Your Hands" with an explanation of the proper hand washing technique was also included in this mailing. The enclosed letter invited churches to place the posters in public restrooms and high traffic areas of their facilities to remind parishioners to practice good hygiene. The letter also offered additional posters at no charge to the church along with complimentary 32-ounce hand sanitizer dispensers. Several churches accepted the offer and came down to Appleton City Hall to pick up their materials. A dozen additional congregations requested hand sanitizer and posters to be delivered to their facilities. Nearly 300 posters and 70 bottles of hand sanitizer were distributed throughout the city by late November 2011.

As a LEAN project, our Environmental staff were trained on the use of an electronic inspection program called Health Space, which is supported by the Wisconsin Department of Health Services (DHS). Health Inspectors Michelle Roberts and Steve Kihl along with Director Eggebrecht participated in introductory training provided by DHS staff.

This informational management program has the capacity to adapt to our changing needs. Utilizing the food module, we will be able to track last inspection details, show overdue inspections, and report on the most common violations in any time period. It is our intent to go live with this system in early 2012.

Health Officer Eggebrecht has been invited to serve on the Hispanic Reproductive Health Initiative. This is a community collaboration with several agencies including ThedaCare, Affinity, Fox Cities Community Clinic, several surrounding public health departments, and others who directly serve our Hispanic residents.

***"The Appleton Health Department has a professional staff that works together as a cohesive team by cooperating, communicating, and supporting each other to achieve departmental and individual goals."***

On February 3rd, Trish Schuldes, R.N., Tina Pelishek, R.N. and Tricia Promer, R.N. participated in the Prenatal Care Provider/Healthy Babies meeting at the Menasha Library. Breastfeeding highlights and information was shared.

On February 15th, Ann Steele, R.N. participated in the WI Division of Public Health Partner Services training for the new data entry system. Case follow up data and

activities will be submitted through this new confidential web-based system.

Public health nurses, Kathy Stromberg, R.N., B.C., Tina Pelishek, R.N. and Becky Lindberg, R.N. attended the North East Regional WI Healthiest Families Initiative & Keeping Kids Alive training on March 1, 2011. The Maternal Child Health grant funding for 2011 is addressing systems-level assessment and interventions. Topics addressed during the meeting focused on the Life Course Health Model as an Organizing Framework and Social Determinants of Health. The Infant and Child Health Alliance provided a training on Autism on March 30, 2011. Becky Lindberg, R.N., Ann Steele, R.N., Tricia Promer, R.N. and Tina Pelishek, R.N. attended and obtained beneficial information for working with both home visit and immunization clinic clients.

In April, Health Officer Eggebrecht received the advance level certification, Master Certified Health Education Specialist (MCHS) from the National Commission for Health Education Credentialing Inc.

Living More Positively was sponsored by the Tri County Healthy Babies Coalition. Public health nurses Becky Lindberg, R.N., Tina Pelishek, R.N. and Trish Schuldes, R.N. attended a workshop April 8th.

Public Health Nurse Trish Schuldes, R.N. attended the annual Wisconsin Association for Perinatal Care conference in Stevens Point from April 10th to April 12th.

Public Health Nurse Ann Steele, R.N. and Nursing Supervisor Kathy Stromberg, R.N., B.C. attended the Chemical Hazard Preparedness Training at FVTC sponsored by WI Division of Public Health, Bureau of Environmental and Occupational Health on April 21st.

Public health nurses Tina Pelishek, R.N., Becky Lindberg, R.N. and Kathy Stromberg, R.N., B.C. attended the regional WI Healthiest Families Initiative training/meeting at UW Green Bay on May 8th.

On June 1st and 2nd, Public Health Preparedness staff member Jon Lee attended a two day training entitled "Emergency Response to Domestic Biological Incidents." This course was instructed by the Louisiana State University National Center for Biomedical Research and Training Academy of Counter-Terrorist Education and was held in Milwaukee County.

Ann Steele, R.N. attended the Partner Services annual training/meeting at the Radisson Paper Valley held June 8th.

On June 24th, Public Health Nurse Sue Larson, R.N. attended the Cultural Competency and Community Resources in Serving Somali Refugees at the Brown County Library sponsored by Forward Service Corp.

Public health nurses Tricia Promer, R.N. and Tina Pelishek, R.N. attended a training on Fetal Alcohol Syndrome at Outagamie County Public Health sponsored by the

"My Baby and Me" staff on June 29th.

Health Officer Eggebrecht was elected by his peers to represent the 25 Public Health Departments of Northeast Wisconsin to serve on the State Board of the Wisconsin Association of Local Health Departments and Boards of Health (WALHDAB).

Public Health Nurse Kathleen Sprangers, R.N. attended a day-long training for certification as a Lead Sampling Technician on Monday, July 25th at the Paper Valley Hotel and Conference Center. This course was taken to allow Kathleen to conduct her educational lead home visits to families in Appleton as part of the Lead Poisoning Prevention contract.

This quarter, Kris Eiden, R.N. attended three trainings offered by the WI HIV program to prepare to provide Partner Service activities for Appleton clients. Content areas include: socio-behavioral aspects of HIV, basic counseling skills and aspects of providing partner services.

August 15-16, 2011, Kathy Stromberg, R.N., B.C. attended the Enhancing Early Childhood Systems and the 14th Annual Public Health Nursing Conference held in Stevens Point. The theme of this years conference was "Promoting Systems of Care and Public Health Accreditation."

September 12th Public Health nursing staff and Health Officer completed CPR and AED training. This training provides two year certification in the health care provider level.

Harmony Café sponsored a presentation "Good Drugs Gone Bad" attended by Trish Schuldes, R.N. on September 14th. The Winnebago County MEG Unit staff addressed the impact of prescription drug abuse and how this relates to adolescents in the community.



On September 27th, the Health Department participated in our annual off site team building event. This year's theme was overcoming adversity and how to adapt to change. Our morning speaker, Charles LaTorre from Employee Resource Center (ERC) did an excellent job of showing the similarity between what we as city employees are having to overcome as a team, to what the Green Bay Packers did last season to win the Super Bowl. We talked about resiliency, and how to sustain over the years to work as a cohesive team with similar goals. Staff had the opportunity to work with others from our department they normally would not work with on a daily basis. Staff also ate lunch together at our meeting location and enjoyed learning of our rich lives outside of work. To build on the Packer theme of excellence we toured the facility of Lambeau Field. It was a nice fit, since our morning was spent talking about the similarities of our team and their team.

After our tour, the afternoon session included Jeff Stauber, a retired Green Bay Fire Chief and Packers Emergency Management Director. Jeff talked about what the Green Bay Packers do in regards to preparedness. Jeff spoke about the plans that are written before each game, after each game, including who is responsible for which area, much like our staff conducts to plan and respond to public health emergencies.

On September 28, 2011 Kris Eiden, R.N. and Tina Pelishek, R.N. attended the Wisconsin Clinical Laboratory Network program at Liberty Hall. The training provided information about the role of clinical labs as sentinel labs engaging in surveillance and response to outbreaks, terrorism, and other public health emergencies.

October 3-5, 2011, City Sealer Eric Maggio represented Appleton and the East Central Weights & Measures Consortium at the annual fall conference administered by the Wisconsin Weights and Measures Association and the National Conference for Weights and Measures. Those attending were provided training on medium capacity scales. City Sealer Maggio was also elected as Wisconsin Weights and Measures Association President.

In October, Michelle Roberts, R.S., and Steve Kihl, R.S. completed the Lead Risk Assessor refresher course. The lead risk assessor certification is required of those individuals that conduct risk assessment investigations in homes where a child has been diagnosed with an elevated blood lead level.

Also in October, Tim Mirkes, R.S. successfully completed a Wisconsin Food Code Standardization maintenance exercise with a state evaluator from the Department of Agriculture, Trade and Consumer Protection. The purpose of standardization and maintenance is to promote statewide uniformity and establish proof of Inspector proficiency in the Food establishment inspection process. It focuses on risk factors that contribute to food borne illnesses. It also allows for the State standardized Inspector to conduct the standardization exercise with local staff.

October 14th, Ann Steele, R.N. and Kris Eiden, R.N. attended the HIV Partners Regional meeting held at the Harmony Café.

November 15th, Tina Pelishek, R.N., Trish Schuldes, R.N. and Kathy Stromberg, R.N., B.C. attended the Healthy Babies Coalition. This was a Northeast regional meeting of Prenatal Care Coordination providers that addressed program goals, expectations and how best to coordinate care with WI Badger Care managed care organizations.

Steve Kihl, R.S. successfully completed the Wisconsin Food Code Standardization maintenance exercise with Tim Mirkes as the evaluator of the exercise.

In the fourth quarter, staff prepared for customer service including phones to transition back into the Health Department office beginning in 2012. Much thought and effort has been applied to using new technologies and quality improvement to still meet the growing expectations of our customers with a reduced staffing level.

***“The Appleton Health Department encourages the individual to share the responsibility for their health and the health of their family.”***

October 7th the L.I.F.E. (Leading Indicators for Excellence) study was released to the community. One of the 10 chapters focused on A Healthy Life. One of the key findings that will drive future work of the department is how to slow the rising rates of obesity in our community.



Evidence continues to strengthen our knowledge of how our health is impacted by where we live, work and play and the daily choices we make related to our diet, exercise and whether or not to smoke.

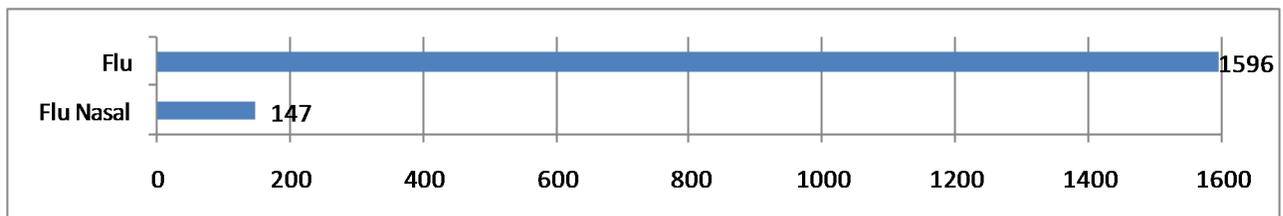
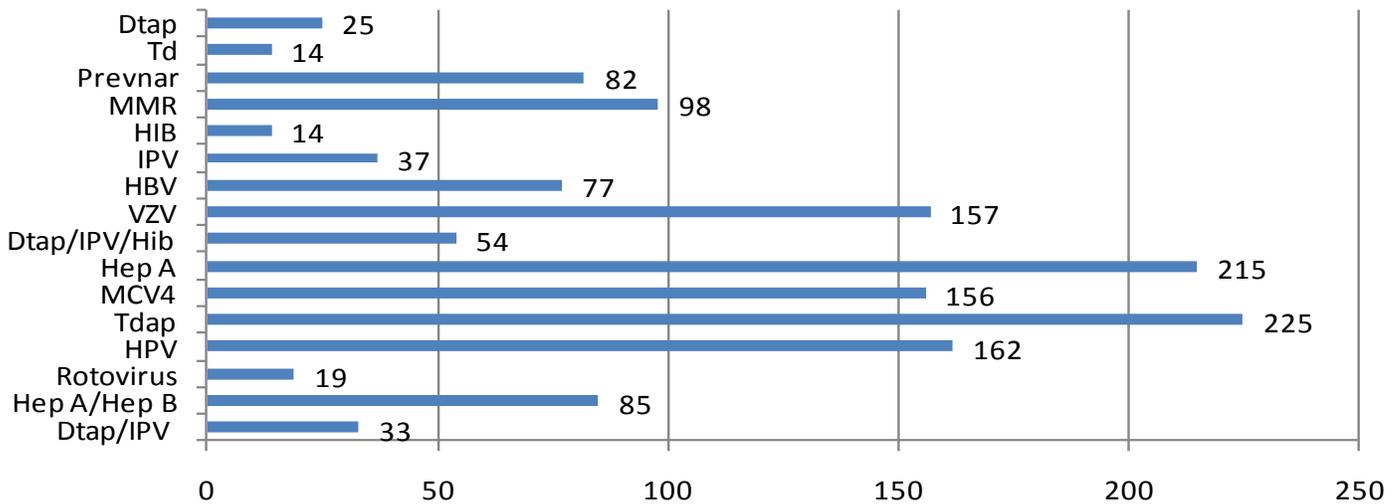
# Preventing Disease

## COMMUNICABLE DISEASE PROGRAM

Communicable disease services are designed to prevent disease and promote health in the community. Epidemiological and regulatory service are major components of this program.

Clinical services include immunizations and health education. Immunizations for vaccine preventable diseases were provided to the public and City employees. Interpreter assisted clinics were offered monthly to improve access and vaccine coverage for Hmong and Spanish speaking residents. Influenza clinics were offered in the fourth quarter to target at-risk individuals. Hepatitis A & B vaccine was offered to non-insured high risk adults through a special Wisconsin Department of Health Services program. In 2011, 2,239 clients received 3,170 doses of vaccine.

### Vaccines Administered in 2011



Participation in the Northeast Wisconsin Immunization Coalition has focused efforts on community-wide activities to increase the immunization rates.

## **Communicable Disease Investigation, Prevention and Control**

Public health staff investigate reported cases of communicable disease. Epidemiological case reports are submitted to the Wisconsin Department of Health Services through the Wisconsin Electronic Disease Surveillance System. Contacts to cases are identified, screened and referred as appropriate. Measures to prevent and control disease spread are reviewed with all cases and contacts. It is estimated for every case of confirmed disease reported, an average of two contacts are identified and counseled.

In 2011, Appleton continues to see an increase in reported cases of Chlamydia and Gonorrhea. Providers are testing regularly and Public Health Staff continue to attempt follow-up for prevention education.

In 2011, nursing staff worked with the Department of Health Services to control Noro-virus outbreaks in four long term care facilities. Lab testing, staff education and symptom monitoring services were provided. Also, nursing staff assisted two long term care facilities with a respiratory illness outbreak.

In addition to the investigations indicated in the appendix table, the Department received 12 referrals of individuals for treatment of Latent Tuberculosis Infection (LTBI). Nursing staff maintain a close working relationship with the Wisconsin Department of Health Services TB Program and with local physicians. One case of Active Tuberculosis was followed daily, Monday-Friday, for 6 months of directly observed therapy.

In early December, Appleton Health Department saw a significant increase in pertussis cases. By year end, 34 lab positive cases, epi-linked confirmed, and probable cases had been reported.

Tables showing numbers of cases and rates per 1000 population for all gastroenteric and sexually transmitted diseases are located in Appendix II. Additionally, Appendix II contains tables showing the numbers and rates for vaccine preventable and other communicable diseases.

## **Wisconsin Partner Services (PS)**

This is a statewide program whose goal is to control and prevent the transmission of HIV infection (AIDS). Efforts to notify partners of infected individuals attempt to break the chain of disease transmission by early identification and testing of individuals who have been exposed to HIV. A Partner Services Public Health Nurse works closely with ARCW (Aids Resource Center of WI) Green Bay and Appleton Health Department office staff to provide coordinated testing and case management services. Any work with this contract is reimbursed by the State through this program. There were 12 referrals received for this program during 2011.

## **Sexually Transmitted Disease Contracted Services**

The Department has a contract with Planned Parenthood to provide screening, testing, and treatment for persons seeking services for sexually transmitted disease, who have no means of paying for or obtaining services elsewhere. The contract also includes epidemiological investigation of confirmed cases among those clients served. In 2011, one hundred sixty-two (162) individuals were served. Two hundred twenty-seven (227) lab tests were performed resulting in 50 treatments for positive cases.

## **Food borne Outbreak Illness Investigation**

There were no food borne outbreaks investigated or reported to the State Division of Public Health in 2011.

## **State Laboratory of Hygiene Testing Services**

The Wisconsin State Laboratory of Hygiene provides free testing of certain patient and food item type samples as support for investigation and prevention of communicable disease transmission. Samples submitted must fit within parameters determined by the State. In 2011, the State provided \$5,295 of fee exempt service to the City. A table of exact types and numbers of tests performed is located in Appendix III. Wisconsin Occupational Health Laboratory provided \$370 of fee exempt service analyzing dust wipe samples—part of the Lead Poisoning Prevention Home Visitation Program.

## **Occupational Health**

Collaborative efforts in providing occupational health services related to communicable disease continued in 2011. Efforts include annual TB skin testing for Police, Fire, and Health and annual training for employees at risk for blood borne exposures and annual policy review.

## **ENVIRONMENTAL CONTROL**

The primary focus of environmental health services is the control of communicable disease spread. These control activities usually take the form of regulatory activities in food handling settings such as restaurants, retail food stores and vending machines. Regulatory activities are also conducted in public recreational facilities, including swimming pools and lodging establishments. Another area where environmental oversight contributes to communicable disease control is through code enforcement of tattoo and body piercing establishments. Additionally, the Department provides support to the rabies control program of the Police Department by consulting with victims and physicians and facilitating analysis of specimens.

## Regulatory Descriptions and Statistics

*Food Protection* — As agents for the Wisconsin Department of Health Services (DHS) and the Wisconsin Department of Agriculture, Trade and Consumer Protection (DATCP), the Health Department's Environmental Health Section ensures safe food handling practices and protects the health and safety of Appleton residents and visitors. This is accomplished through administration of state and local regulations and laws. Annual licensed food establishment inspections are conducted, and consultation and food safety education is provided to the operators. Collection and testing of food samples and code enforcement action is also conducted when necessary.

*Lodging Facilities* — As agents for DHS, the Department enforces sanitary and safety regulations for all hotels, motels, and bed & breakfast establishments. As agents for the Department of Safety and Professional Services (DSPS) formerly known as the Department of Commerce (COMM) and under the Municipal Code, the Department enforces sanitary and safety regulations for manufactured home communities.

*Public Pools* — As agents for DHS, the Department performs annual swimming pool and whirlpool inspections to assure compliance with safety, maintenance and operation requirements. Monthly water samples are also collected from each pool and whirlpool facility. The samples are tested in a DATCP Certified Laboratory at the Waste Water Treatment Plant to assure state and local pool water quality standards are maintained.

Types of Tests	2006	2011
<b>SWIMMING POOL WATER SAMPLES</b>		
Total # of pool samples	247	253
Total # of pools re-sampled	3	0
Total positive Heterotrophic Plate Count	0	0
Total positive coliform	3	0
<b>RABIES SPECIMENS</b>		
Total # shipped	6	18
Total positive results	0	1

*Tattoo and Body Piercing Establishments* — As agents for DHS and under Municipal Code authority, the Health Department's Environmental Health Section licenses and inspects all tattoo and body piercing establishments and enforces safety and sanitary requirements.

*Rabies Control* — In cooperation with the Police Department, the Health Department is involved in the investigation of human or animal exposures to suspected rabid animals.

The Environmental Health Section operates on a fiscal calendar year of July 1 through June 30. The following chart illustrates the number and types of activities associated with the above license activities. Data for 2010/11 is compared to 2005/06. In the 2010/11 license year, the Department issued 451 licenses and 204 non-profit food permits compared to 444 licenses and 197 non-profit food permits in 2005/06. In 2010/11, 16 plan reviews were completed and in 2005/06, there were 12 plan reviews completed for new or remodeled establishments. In 2010/11, 52 pre-licensing inspections were conducted for new or change-of-operator establishments compared with 48 pre-licensing inspections in 2005/06.

### **LICENSES/REGULATED ESTABLISHMENTS 2005/06 COMPARED TO 2010/11**

Type of Establishment	Number of Inspections		Number of Consultations		Number of Complaints		Number of Re-inspections & Complaint Follow Ups	
	2005/06	2010/11	2005/06	2010/11	2005/06	2010/11	2005/06	2010/11
Public Eating and Drinking Establishments; Temporary Restaurants; Non-Profits	498	500	363	378	46	44	153	130
Permanent and Temporary Retail Food Establishments	87	95	91	107	14	11	59	50
Lodging Establishments; Rec/Ed/ Campground	10	6	11	4	0	0	2	0
Manufactured Home Communities	1	1	1	1	0	0	0	0
Vending Machines	50	58	4	3	0	0	0	0
Swimming Pools	23	27	20	17	1	2	8	7
Tattoo/ Body Piercing Establishments	11	10	52	44	3	2	1	2

### **Maternal/Child Health (MCH) Program**

Services under the MCH program focus on the promotion of positive health outcomes and the reduction of risks associated with the reproductive health of individuals and families, and growth and development of infants, children, youth and parents. The focus is on the family as the basic unit of service. This program supports the provision of quality health care that spans the life-cycle periods of preconception, pregnancy, infancy and childhood. As additional home visit based social service programs become available in the community, our efforts have been concentrated on more intense case management for prenatal women and medically at-risk infants and children. Activities include assessment, planning, counseling, education, advocacy, evaluation, and referral. Services are provided in the home setting. A maternal child health consolidated contract and property taxes fund these services.

The comprehensive Prenatal Care Coordination program (PNCC) was added to the MCH program in 2002. This program serves women with risk factors for a high risk pregnancy and works towards positive birth outcomes. Consolidated contract objectives in 2011 focused on a consistent community Safe Sleep messaging initiative, a crib program and new systems level activities. Staff provided educational opportunities for community agencies and primary care providers in areas of safe sleep and the Life Course Model.

In addition, the Department participates on the Outagamie County Death Review Team that works to identify preventable risk factors that may have contributed to a child's death.

### **Childhood Lead Poisoning Prevention Program**

This program is supported by consolidated contract state funds. The goals of the program are to identify children with elevated blood levels, assess and intervene in those cases, provide information to parents of infants and children under the age of six about lead poisoning before the child is potentially exposed, increase awareness of the problem, and provide public education on how to reduce this risk to Appleton's children. This is a cross-disciplinary project involving both nursing and environmental health staff. Interpreter services are utilized when working with non-English speaking families such as Hmong and Hispanic. Efforts are coordinated with WIC offices, where many children are screened. All laboratories are required to report blood level testing results on children ages six years and under to the Wisconsin Department of Health Services, who in turn report to local public health agencies. These reports are investigated according to Department policy depending on the reported levels. Intervention efforts range from sending out information packets, education via a phone call and/or a home visit to conducting joint environmental/nursing inspections to determine lead sources.

Education and outreach efforts continue to include posting relevant articles and website links on the Health Department web page, as well as participation in the Fox

Valley Lead Task Force, Fox Cities Housing Coalition and the Hmong/Hispanic Interagency Coalition. Staff representing the Health Department presented lead outreach information at several public events. These include the annual Mom and Me Classes at Appleton Medical Center, Health Fair at Appleton Paper Company, and monthly immunization clinics. Lead information outreach includes web addresses that link to the Appleton Health Department website as well as the Wisconsin Childhood Lead Prevention program.

A consolidated contract objective was continued this year with a prevention focus for families who were at risk for lead poisoning (i.e. economic status, culture, older housing stock, other identified sources of lead such as toys, mini-blinds, lead in a parent's workplace and ceramics or an overall concern about lead issues).

Staff nurse Kathleen Sprangers, RN, has been certified as a Lead Sampling Technician, which allows for dust wipe sampling and demonstration of the use of lead check swabs, in addition to education on appropriate cleaning. Cleaning kits continue to be provided at all home visits with the education. A follow-up home visit is offered after dust wipe sampling results are available.

Written materials were made available regarding the recent recalls of toys found to have lead in them—parents are given, upon request, a listing with pictures of all the toys of interest that are recalled due to lead hazards. A binder with the latest lead recalls is shared at each home visit; it includes all recalls regarding lead, including candles, clothing, jewelry and toys.

A lead program referral often comes from WIC staff and then the Appleton Health Department contacts the family via phone call or letter to set up an appointment to get their child/children tested. Testing can be offered by appointment at the Appleton Health Department, in the family's home or at monthly immunization clinics based on parent preference. Referrals are also received from several Community Development Block Grant programs (Housing Partnership, Emergency Shelter of the Fox Valley, Appleton Home Rehabilitation Program) for baseline lead levels and lead poisoning education.

<b>Elevations (ug/dl)</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>
Venous Lead Levels >19 ug/dl	2	1	2	2	0	2
Venous Lead Levels 10-19 ug/dl	7	6	4	3	1	0
Capillary Lead Levels > 10 ug/dl	8	14	10	11	8	5

## **High Risk Adult Health Program**

Services under this program focus on the promotion of positive health outcomes and the reduction of health risks associated with adults and older adults. These programs support the provision of quality health care, which spans the life cycle of young, middle-aged, and older adults. Program activities include assessment, planning, advocacy, counseling, referral, education, emotional support, evaluation, clinic activities, and group education. Services are provided in the home, group homes, and other settings throughout the community.

## **Public Health Nursing Caseload Data**

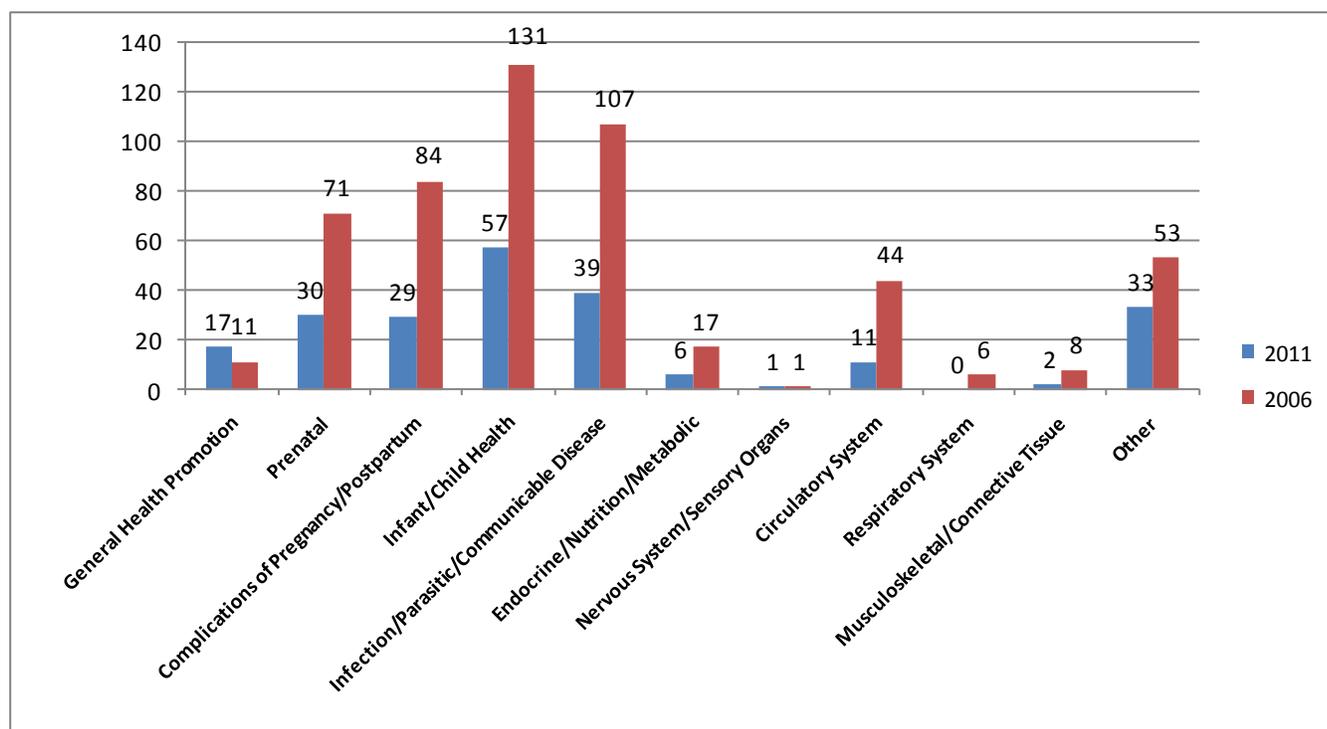
The Public Health Nursing (PHN) caseload consists of individuals and families with complex health problems. The Department received a total of 967 referrals in 2011. A total of 1,217 visits, including admission and discharge visits, as well as phone consultations were made to these clients. This compares to 1,165 visits in 2010.

Referrals: Patient referrals come from a variety of sources including physicians, social services and home health care agencies. The following table shows types of referrals and referral rates per 1,000.

<b>Type of Referrals to Public Health Nurse</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>
Family	0	1	2	0	2	0
Maternal/Child (Includes Birth Certificates)	1004	953	1080	974	1009	955
Adult/Elderly	23	17	14	15	10	12
<b>Rate/1000</b>	<b>14.26</b>	<b>13.45</b>	<b>15.16</b>	<b>13.66</b>	<b>14.07</b>	<b>13.30</b>

Primary Problem Categories: The total Public Health Nursing caseload can be described by a primary category of service provision. Maternal Child Health cases include families with concerns related to childbearing, parenting, well child care, growth and development, family planning, child abuse and neglect, nutrition and other concerns important to the young family. Adult health cases primarily include adult families with concerns related to chronic disease prevention and health promotion.

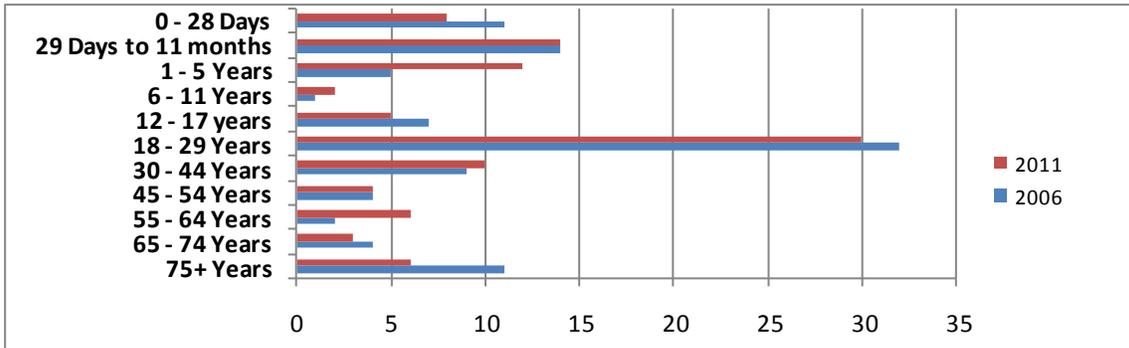
## PUBLIC HEALTH NURSING CLIENTS BY PRIMARY PROBLEM



Demographics: Public Health Nursing services are targeted to individuals and groups at risk for disease or disability due to barriers such as low income, limited education and cultural/language differences; lifestyle factors such as smoking and poor nutritional practices; and medical factors such as communicable or chronic diseases.

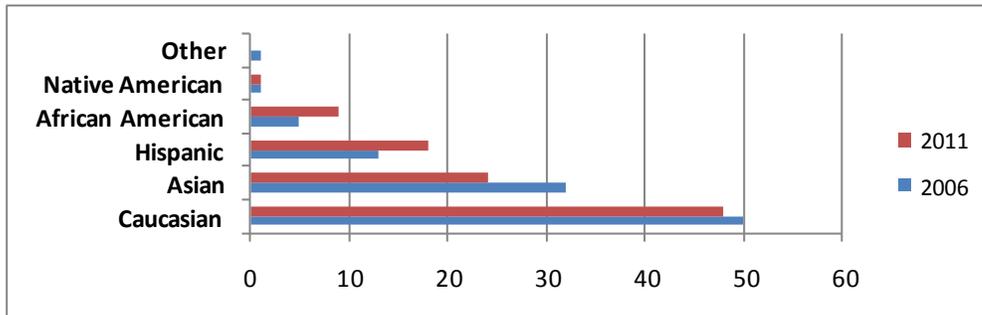
The following graphs describe the 2011 Public Health Nursing caseload by age and race/ethnicity.

### PUBLIC HEALTH NURSING CLIENTS BY AGE



PERCENT CASELOAD

### PUBLIC HEALTH NURSING CLIENTS BY RACE

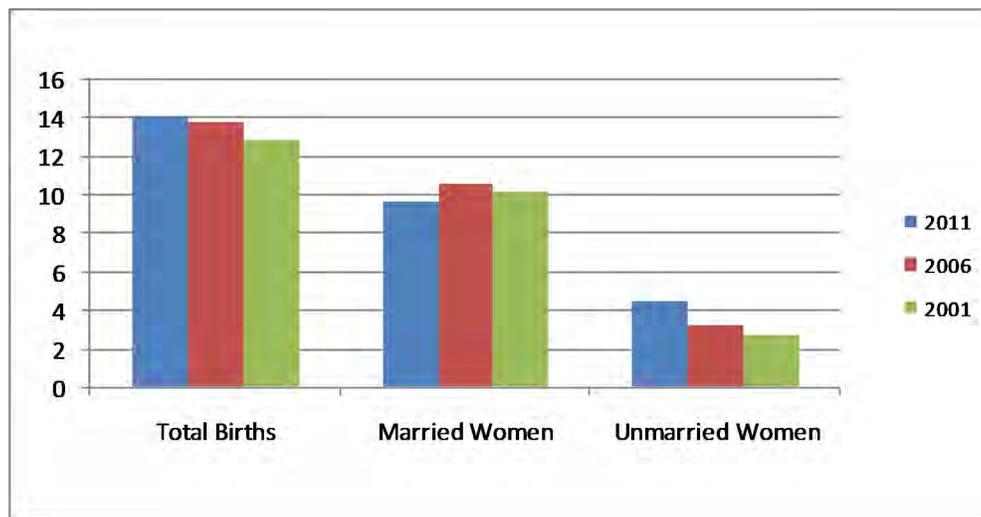


PERCENT CASELOAD

The Department is serving an ever increasingly diverse caseload of adults with chronic and communicable disease.

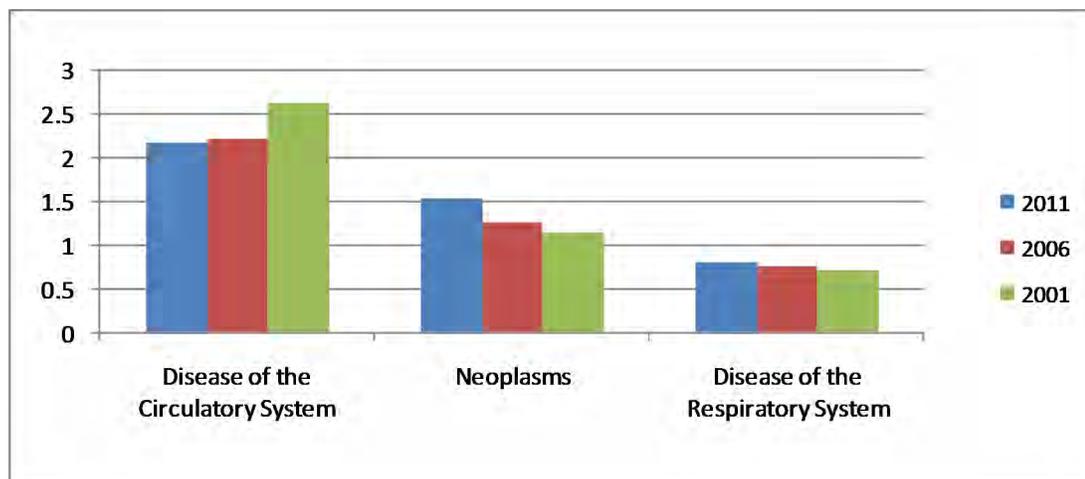
Vital Statistics are maintained for monitoring the morbidity and mortality and as an aid in program planning. Appleton's population increased from 72,563 in 2010 to 72,715 in 2011. The crude birth rate per 1000 population for the State in 2010 was 13.94. For the City of Appleton in 2011, it was 14.08. The graph below shows crude birth rates based on marital status comparing 2011, 2006, and 2001.

CRUDE BIRTH RATES BASED ON MARITAL STATUS  
(1000 x Number of Resident Live Births/Total Resident Population)



\*Birth Data is Provisional

CRUDE DEATH RATES FOR LEADING CAUSES OF DEATH  
(Rates per 1000 Resident Population)



This graph shows three of the leading causes of death for Appleton residents; cardiovascular disease, cancers and diseases of the respiratory system. Tobacco use continues to be a major risk factor for the development of these diseases. See Appendix VI for charts showing death rates, data for all causes of deaths and deaths by age.

### WEIGHTS AND MEASURES PROGRAM

The Weights and Measures program regulates the purchase or sale of products or services sold by weight, measure or count to assure equity in the marketplace. With this program, the consumer can make buying decisions with a reasonable degree of confidence that accurate quantity will be received. All businesses can operate on a level playing field, knowing trade practice regulations are fairly monitored and uniformly enforced.

#### **MAJOR PROGRAM DESCRIPTIONS AND STATISTICS**

*Weights and Measures Device Licensing* — All scales, pump meters, linear devices, and price scanners used in buying and selling within the City are licensed annually.

*Weights and Measures Device Inspection* — All weighing and measuring equipment used by businesses are inspected regularly to ensure accuracy and conformance with all National Institute of Standards and Technology (NIST) specifications and tolerances.

*Monitoring and Sampling Commercial Transactions* — To ensure that weighing and measuring equipment is used accurately, check weighing and measuring of prepackaged products and over-the-counter sales are conducted on an unannounced basis.

*Product Labeling Enforcement and consultation* — Prepackaged consumer products are inspected for required labeling to ensure consumers receive proper information to make a valid buying decision. Bulk dispenser signage is also regulated in this fashion. Federal and State labeling rules and standards are enforced.

*Product Scanning and Price Verifications* — Routine unannounced scanning tests are conducted to maintain pricing accuracy where UPC bar code scanners are used at retail checkout counters. The scanning device itself, signage and price programming are all evaluated for consistency. Compliance results have greatly improved under this comprehensive program. In 1994, the first year scanning statistics were separated from general commodity inspection, 10.7% of scanning samples reflected price errors. In 2011, there was a 3.1% error rate, due to regular inspection and after assisting business operators to develop good price control practices.

*Assistance to Other City Departments* — Assistance is provided to other City departments. For example, within the Department of Public Works, we are consulted on issues concerning inspections, testing and repair of weights and measures devices and also perform the Fire and Police Departments scale tests.

*Agent of City Clerk on Temporary and Irregular Business License* — The City Sealer serves as field agent for the City Clerk's Office in making determinations on sellers to be licensed. Licenses involved are Commercial Solicitor, Secondhand Dealer, Salvage Dealer, Close-out/Business, Termination Sales and Taxi Cab/Limousine Service Licenses.

**WEIGHTS AND MEASURES INSPECTIONS BY  
ESTABLISHMENT TYPE AND YEAR**

<b>ESTABLISHMENT TYPE</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>
Food and Convenience Stores	148	138	141
Restaurants	33	19	27
Bakery and Candy Stores	9	9	8
Dairy Plants and Stores	5	6	5
Drug Stores	11	17	12
Hardware Stores	19	17	18
Variety and Department Stores	78	74	87
Gas and Service Stations	33	37	35
Salvage Dealers and Recyclers	10	8	8
Pet Shops and Garden Centers	9	7	8
Industrial Manufacturing Plants	9	9	11
Concrete-Asphalt Plants and Road Materials	15	20	19
Transient Merchants (markets; product; seafood)	200	188	189
Package Shipping and Freight	15	14	14
Service Laundries and Dry Cleaners	1	1	2
Government Agencies	14	15	14
Solicitors and Door to Door Merchants	112	181	137
Close-out Business and Termination Sales	7	2	3
Second Hand Dealers	34	37	45
Laundromats, Car Washes, and other Timing Devices	4	6	5
Miscellaneous	2	2	3
Mobile Petroleum Dealers	47	38	39
Airports and Marinas	0	0	0
<b>TOTAL</b>	<b>815</b>	<b>845</b>	<b>830</b>

## DEVICES TESTED BY TYPE, YEAR AND PERCENT OUT OF COMPLIANCE

TYPE OF DEVICE (% OF NONCOMPLIANT)	2009	2010	2011
Scales and Balances	558 (4.6%)	578 (3.7%)	568 (4.9%)
Measures (Include Gas Pumps & Fuel Oil Truck Meters)	1034 (4.2%)	1052 (6.7%)	1035 (3.9%)
Weights	41 (0%)	56 (0%)	64 (0%)
<b>TOTAL</b>	<b>1,633</b>	<b>1,686</b>	<b>1,666</b>

## RESULTS OF PACKAGED COMMODITIES TESTED BY YEAR

PACKAGED COMMODITIES TESTED	2009	2010	2011
Total Units of Product Investigated	50,955	62,173	78,361
Random Sample Size	9,379	10,372	12,178
Total Products/Unit Found Short Weight (% short)	3,115 (6.1%)	2,643 (4.3%)	1,432 (1.8%)
Total Products/Unit Found Mislabeled (% mislabeled)	3,352 (6.6%)	4,429 (7.1%)	4,230 (5.4%)

## PRICE SCANNING INSPECTIONS

PRICE SCANNING INSPECTIONS	2007	2008	2009	2010	2011
Number of Inspections	92	111	123	143	147
Number of Items Scanned	3,062	3,518	3,836	4,386	4,566
Pricing Errors Found	134 (4.4%)	152 (4.3%)	130 (3.4%)	177 (4%)	140 (3.1%)

## CONSUMER COMPLAINTS BY TYPE AND YEAR

TYPE OF COMPLAINT	# Received 2009	# With Violations 2009	# Received 2010	# With Violations 2010	# Received 2011	# With Violations 2011
Foods	2	2	2	0	1	0
Liquid Foods	0	0	1	0	0	0
Non-Food Products	0	0	1	0	0	0
Heating Oil and LP Gas	0	0	0	0	0	0
Firewood	0	0	0	0	0	0
Gas Stations-Pumps	1	0	2	0	8	4
Gas Stations-Service Console	0	0	1	0	0	0
Gas Stations-Price Signage	0	0	2	1	0	0
Gas Stations-Gasoline Quality	0	0	0	0	2	2
Scales-Scrap Metal	1	0	0	0	0	0
Scales-Food	0	0	0	0	0	0
Scales-Other	1	0	0	0	0	0
Scanning	0	0	2	0	3	1
Trade Practices	0	0	5	5	2	2
Advertising	6	4	1	0	3	1
Going out of Business	0	0	1	1	0	0
Temporary Sales	0	0	0	0	1	1
Miscellaneous	1	0	1	0	1	1
<b>TOTAL</b>	<b>12</b>	<b>6</b>	<b>19</b>	<b>7</b>	<b>21</b>	<b>12</b>

### ENVIRONMENTAL HEALTH PROGRAMS

Many environmental factors can influence the health of the community. The Department is involved in a variety of activities aimed at minimizing the exposure to environmental hazards and reducing the incidence of public health nuisances. Local ordinances set forth policies on solid waste, noise, housing and rodent control, which are enforced by the Department. This is usually in response to citizen complaints. Another component of protecting the community environment involves monitoring various environmental hazards, which pose a potential threat to citizens. In addition to the testing and monitoring conducted, the Department provides education and referral services on numerous topics.

#### PROGRAM DESCRIPTIONS AND STATISTICS

*Housing Sanitation* — Housing sanitation inspections are conducted on a complaint basis. Complaints of unsanitary conditions and concerns about mold in the home are received from citizens, police, fire, inspections division of Public Works and county Human Services. There were 182 housing sanitation contacts, including consultations, complaints and follow-up inspections conducted in 2011. This represents 32% of non-establishment related Environmental Health program contacts in 2011.

*Solid Waste* — Solid waste complaints such as garbage/rubbish nuisance concerns are received from a variety of sources. Not only are nuisances of this nature unsightly for neighborhoods, but also failure to comply with sanitation regulations can often lead to greater public health concerns such as rodent, insect and nuisance bird attraction. The total number of contacts was 36, representing 6% of contacts in 2011.

*Rodent Control* — The control of rats in the community is maintained by combining Municipal Code enforcement of commercial properties with a baiting program of exterior residential property and sewers. The Environmentalists are certified pest control operators and licensed to handle baits specific for this purpose. There were 23 contacts related to rodent control in 2011.

*General Environmental* — Environmental problems such as those listed on the following chart are dealt with on a complaint basis. Investigations and/or referrals to other agencies are performed depending upon the nature of the concern.

<b>ENVIRONMENTAL CONSULTATIONS AND COMPLAINTS RECEIVED</b>				
<b>Nature of Contact</b>	<b># Consultations</b>		<b># Complaints</b>	
	<b>2006</b>	<b>2011</b>	<b>2006</b>	<b>2011</b>
Community Water Supply	1	1	0	0
School/Day Care	15	2	0	0
Surface Water Pollution	1	3	1	1
Animal Nuisances	11	13	5	3
Rabies Control	20	43	1	0
Insect Control	15	27	10	4
Rodent Control	2	5	6	9
Hazardous Substance Control	7	6	0	3
Air Pollution-Indoor (Mold)	21	45	27	33
Air Pollution-Outdoor	5	2	4	4
Noise	19	17	9	8
Radon	4	10	0	0
Garbage/Rubbish Nuisance	11	1	80	18
Private Residence/Housing	72	34	42	56
Lead	26	23	3	3
Other Business	36	66	8	3
Other Programs	13	20	0	2
<b>Total</b>	<b>279</b>	<b>318</b>	<b>196</b>	<b>147</b>

## COMMUNITY INVOLVEMENT

Health Department staff members recognize their role as a collaborative one within the community. As such, staff participate in a variety of community and professional activities including:

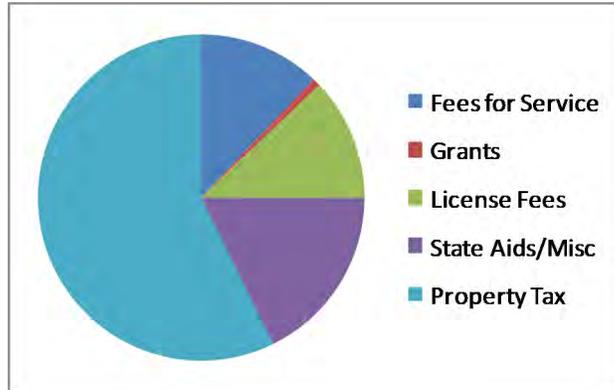
Activate Fox Cities	Northeast Wisconsin Immunization Coalition (NEWIC)
Adolescent Parent/Pregnancy Program	Northeast Wisconsin Public Health Preparedness Partnership
American Public Health Association	OB Unit/Local Health Department Coordination Committee
Appleton Area School Age Parent Advisory Committee	Outagamie County Cancer Coalition
Appleton Medical Center Infection Control	Outagamie County Elder Abuse Interdisciplinary Committee
Department of Trade and Consumer Protection Policies and Procedures Committee	Outagamie County Healthy Childhood Coalition
Drug Endangered Child	Outagamie County Death Review Team
Emergency Operation Plan Core Team Committee	Prenatal Care Coordinators
Emergency Shelter of the Fox Valley Board & Officer	Project Promise (Poverty Coalition)
Family Services Inc. Board	Reach Counseling Inc. Board
Fox Cities Community Council	St. Elizabeth Infection Control
Fox Cities Housing Coalition	Secure Public Health Electronic Record Environment (SPHERE) Lead Team
Fox Cities Kiwanis	UW Northeastern Regional Research Council (ICTR)
Fox Valley Lead Task Force	UW Population Health Institute Advisory Board
Fox Valley Mental Health Emergency Preparedness Consortium	Walk to Win Campaign
Fox Valley Safe Kids	Wisconsin Association for Perinatal Care
Head Start Advisory Committee	Wisconsin Association of Local Health Departments and Boards
Health Care Forum	Wisconsin City Caucus of Weights and Measures Officials
Health Smart Team	Wisconsin Department of Agriculture, Trade and Consumer Protection Weights & Measures WinWam Software Committee
Healthy Infant & Child Alliance	Wisconsin Environmental Health Association
Hispanic Health Advisory Board	Wisconsin Health Education Network
Hispanic Interagency	Wisconsin Nutrition Advisory Education Program
Hmong American Partnership Interagency Committee	Wisconsin Public Health Association
National Conference on Weights and Measures	Wisconsin Public Health Preparedness Advisory Committee
National Environmental Health Association	Wisconsin Weights & Measures Association
Northeast Region Nursing Supervisors/Policy & Procedure Working Group	

## APPENDIX I

### BUDGET INFORMATION

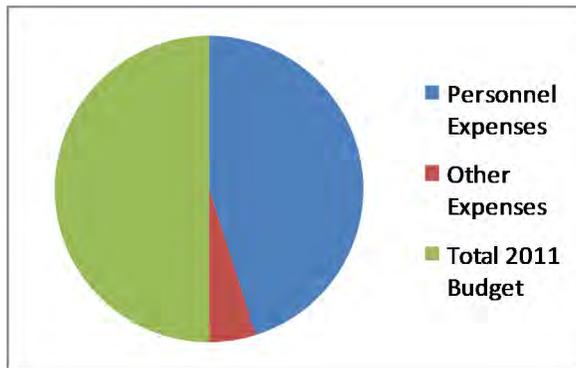
2011 ACTUAL FUNDING SOURCE

Fees for Service-175,236 (12%)  
Grants-\$11,057 (1%)  
License Fees-\$175,594 (12%)  
State Aids/Misc-\$256,307 (18%)  
+ Property Tax-\$828,893 (57%)



2011 ACTUAL EXPENSES

Personnel Expenses-\$1,304,250 (90%)  
Other Expenses-\$142,837 (10%)  
Total 2011 Budget-\$1,447,087



## APPENDIX II

### COMMUNICABLE DISEASE DATA

(Rates per 1000 Resident Population)

GASTROENTERIC DISEASE	2001		2006		2011	
	Number	Rate	Number	Rate	Number	Rate
Amebiasis	1	.01	1	.01	0	0
Campylobacter*	16	.22	13	.18	28	.39
Cryptosporidiosis*	11	.15	9	.12	5	.07
E. Coli	2	.02	1	.01	2	.03
Giardiasis	14	.19	14	.19	11	.15
Listeriosis	0	0	0	0	0	0
Salmonellosis	11	.15	5	.07	6	.08
Shigellosis	3	.04	4	.06	0	0
Yersinia	0	0	0	0	0	0

\*Became reportable to local health departments in 2000

SEXUALLY TRANSMITTED DISEASE	2001		2006		2011	
	Number	Rate	Number	Rate	Number	Rate
AIDS*	1	.01	1	.01	1	.01
Chlamydia*	131	1.8	175	2.43	299	4.11
Gonorrhea	22	.31	41	.57	49	.67
Herpes**	28	.39	38	.53	**	**
Syphilis	0	0	2	.03	1	.01
Partner Referral Program***	9	.12	4	.06	12	.17
Other STD	1	0	0	0	0	0

\*Became reportable to local health departments in 1994

\*\*Became reportable to local health departments in 1995, no longer reportable 2010

\*\*\* Program started in 1995

MISCELLANEOUS DISEASES	2001		2006		2011	
	Number	Rate	Number	Rate	Number	Rate
Blastomycosis	0	0	2	.03	3	.04
Ehrlichiosis	N/A	N/A	N/A	N/A	3	.04
Haemophilis Influenza	N/A	N/A	N/A	N/A	2	.03
Hepatitis A	0	.01	2	.03	1	.01
Hepatitis B	0	0	1	.01	0	0
Hepatitis C	10	.14	23	.32	25	.34
Histoplasmosis	0	0	0	0	0	0
Lead Toxicity*	2	.02	0	0	0	0
Legionellosis	1	.01	0	0	0	0
Leprosy	0	0	0	0	0	0
Lyme Disease	2	.02	5	.07	18	.25
Malaria	2	.02	0	0	0	0
Meningitis-Bacterial	2	.02	1	.01	0	0
Novel H1N1	N/A	N/A	N/A	N/A	N/A	N/A
Rheumatic Fever	0	0	0	0	0	0
Streptococcus Pneumoniae	0	0	4	.06	5	.07
Invasive Group A Strep	0	0	0	0	5	.07
Invasive Group B Strep	0	0	1	.01	3	.04
Toxic Shock Syndrome	1	.01	0	0	0	0
TB-Mycobaterium	0	0	0	0	1	.01
TB-Atypical	1	.01	3	.04	22	.30
Typhoid	0	0	0	0	0	0

\*Reflects cases of adult lead toxicity only. Children are listed in the table in the body of this report under the Childhood Poisoning Prevention Program.

VACCINE PREVENTABLE DISEASE	2001		2006		2011	
	Number	Rate	Number	Rate	Number	Rate
Chickenpox (Varicella)*	4	.05	4	.06	6	.08
Measles	0	0	0	0	0	0
Pertussis	3	.04	12	.17	34	.47
Mumps	0	0	3	.04	0	0

\*Varicella vaccine became available in 1998 and reportable in April, 2008.

## APPENDIX III

### STATE LABORATORY OF HYGIENE FEE FREE TESTING

The Wisconsin State Laboratory of Hygiene provides sample analysis for selected investigations that deal with communicable disease investigations where insurance or other payer sources are not available. The service has been in existence for many years. The following chart shows the type and number of samples analyzed for the Health Department in 2011. The total cost of these analyses would be \$5,295 if they were not fee free.

TYPE OF ANALYSIS	# OF SAMPLES
Mycobacteriology	16
Salmonella	1
VDRL	0
Rabies	19
N Meningitidis	0
Chlamydia/N Gonorrhea	0
Ova Parasites/Cryptosporidiosis/Giardia	13
Outbreak Stool Cultures	6
Blood Lead-Capillary	104
Blood Lead-Venous	0
HIV 1/HIV 2	0
Norovirus PCR	2
Influenza A & B	0
Liver Function (AST, ACT)	0
Syphilis	0
Rubella	0
Mumps virus PCR	2
Hepatitis C	0
Hepatitis B Serodiganosis	0
Hepatitis A	0
E. Coli 0157:H7	0
Respiratory virus PCR	0
Clostridium Perfringens Stool	0
Campylobacter	1

**APPENDIX IV  
PUBLIC HEALTH NURSING CASELOAD**

<b>CLIENTS ADMITTED BY PRIMARY PROBLEM</b>	<b>2001</b>	<b>2006</b>	<b>2011</b>
General Health Promotion	28	11	17
Prenatal	16	71	30
Complications of Pregnancy/Postpartum	52	84	29
Infant/Child Health	101	131	57
Infection/Parasitic/Communicable Disease	95	107	39
Endocrine/Nutrition/Metabolic	29	17	6
Nervous System/Sensory Organs	1	1	1
Circulatory System	94	44	11
Respiratory System	13	6	0
Musculoskeletal/Connective Tissue	21	8	2
Other	44	53	33
<b>Total</b>	<b>494</b>	<b>533</b>	<b>225</b>
<b>CLIENT HOME VISITS</b>	<b>2001</b>	<b>2006</b>	<b>2011</b>
Total Home Visits	3002	3031	1217
<b>CLIENTS ADMITTED BY AGE</b>	<b>2001</b>	<b>2006</b>	<b>2011</b>
0-28 Days	32	61	17
29 Days-11 Months	45	75	31
1-5 Years	38	29	27
6-11 Years	14	4	5
12-17 Years	13	38	11
18-29 Years	110	168	68
30-44 Years	42	45	23
45-54 Years	18	21	8
55-64 Years	25	10	14
65-74 Years	17	23	7
75+ Years	140	59	14
<b>Total</b>	<b>494</b>	<b>533</b>	<b>225</b>
<b>CLIENTS ADMITTED BY RACE</b>	<b>2001</b>	<b>2006</b>	<b>2011</b>
Caucasian	344	265	107
African American	21	26	21
Native American	2	1	2
Hispanic	48	71	42
Asian	76	169	53
Other	3	1	0
<b>Total</b>	<b>494</b>	<b>533</b>	<b>225</b>
<b>CLIENTS ADMITTED BY GENDER</b>	<b>2001</b>	<b>2006</b>	<b>2011</b>
Male	180	182	71
Female	314	351	154

## APPENDIX V

### VITAL BIRTH STATISTICS

(Crude Live Birth Rates = 1000 x # of Resident Live Births/Total Resident Population)

Appleton Population 2001 = 70,623

Appleton Population 2011 = 72,715

Appleton Population 2006 = 72,004

Crude Birth Rate for State 2008 = 12.7

\*Provisional data from WI Vital Records Office, Aggregate Birth Report 2011

BIRTH DATA	2001		2006		2011	
	Number	Rate	Number	Rate	Number	Rate
Total Birth Rate	911	12.89	999	13.87	1024	14.08
Births to Married Women	719	10.18	764	10.61	702	9.65
Birth to Unmarried Women	192	2.71	235	3.26	322	4.43
Total Births to Women <18 Yrs	11	.15	14	.19	15	.21
Unmarried <18 Yrs	9	.12	12	.17	12	.17
Unmarried 18-29 Yrs	158	2.23	202	2.81	245	3.37
Unmarried 30-40 Yrs	24	.33	20	.28	59	.81
Unmarried >40 Yrs	1	.01	1	.01	6	.08

Age of Mother	Birth Count	Percent
15—17 years	15	1.46
18—19 years	26	2.53
20—24 years	212	20.70
25—29 years	342	33.40
30—34 years	302	29.49
35—39 years	100	9.76
40—44 years	26	2.54
45+ years	1	.97
<b>Total</b>	<b>1,024</b>	<b>100.00%</b>

Race/Ethnicity of Mother	Birth Count	Percent
White (Non-Hispanic)	885	86.43
Black (Non-Hispanic)	18	1.76
American Indian (Non-Hispanic)	12	1.17
Hispanic	51	4.98
Laotian/Hmong (Non-Hispanic)	58	5.74
Other (Non-Hispanic)	0	0
Missing/Unknown	0	0
<b>Total</b>	<b>1,024</b>	<b>100.00%</b>

## APPENDIX V

### VITAL BIRTH STATISTICS

\*Provisional data from WI Vital Records Office  
Aggregate Birth Report 2011

Education of Mother	Birth Count	Percent
None	0	0
Elementary	19	1.86%
Some High School	67	6.54%
High School Graduate	190	18.56%
Some College	234	22.85%
College Graduate	280	27.34%
Missing/Unknown	234	22.85%
<b>Total</b>	<b>1024</b>	<b>100.00%</b>

Birthweight	Birth Count	Percent
<1,000 grams	4	.40%
1,000—1,499 grams	13	1.27%
1,500—2,499 grams	68	6.64%
2,500—3,999 grams	858	83.80%
4,000 + grams	81	7.91%
<b>Total</b>	<b>1024</b>	<b>100.00%</b>

Low Birthweight	Birth Count	Percent
< 2,500 grams	85	8.30%
2,500 + grams	939	91.7%
<b>Total</b>	<b>1024</b>	<b>100.00%</b>

## APPENDIX V

### VITAL BIRTH STATISTICS

\*Provisional data from WI Vital Records Office  
Aggregate Birth Report 2011

Mother Smoked During Pregnancy	Birth Count	Percent
No	824	80.47%
Yes	200	19.53%
<b>Total</b>	<b>1,024</b>	<b>100.00%</b>

Mother Smoked During Pregnancy	No		Yes		Missing/Unknown		Total	
	Birth Count	Percent	Birth Count	Percent	Birth Count	Percent	Birth Count	Percent
<1,000 grams	4	.49%	0	0%	0	0	4	.4%
1,000—1,499 grams	7	.85%	6	3.0%	0	0	13	1.3%
1,500—2,499 grams	45	5.46%	23	11.5%	0	0	68	6.64%
2,500—3,999 grams	694	84.22%	164	82%	0	0	858	84%
4,000 + grams	74	9.0%	7	3.5%	0	0	81	8%
<b>Total</b>	<b>824</b>	<b>100.00%</b>	<b>200</b>	<b>100.00%</b>	<b>0</b>	<b>0</b>	<b>1,024</b>	<b>100.00%</b>

Prematurity	Birth Count	Percent
Full Term (37+ weeks)	915	89.36%
Premature (<37 weeks)	109	10.64%
<b>Total</b>	<b>1,024</b>	<b>100.00%</b>

## APPENDIX VI

### DEATH DATA

(Crude Death Rate = 1000 x # Deaths/Total Resident Population)  
Crude Death Rate for State 2010 = 8.3

Age	2001		2006		2011	
	Number	Rate	Number	Rate	Number	Rate
Under 1 Year	9	.12	7	.10	4	.06
1 Year to 10 Years	1	.01	2	.03	1	.01
11 Years to 20 Years	5	.07	4	.06	2	.03
21 Years to 30 Years	4	.05	5	.07	4	.06
31 Years to 40 Years	4	.05	8	.11	9	.12
41 Years to 50 Years	12	.16	18	.25	22	.30
51 Years to 60 Years	22	.31	29	.40	56	.77
61 Years to 70 Years	58	.82	49	.68	55	.76
71 Years to 80 Years	97	1.37	101	1.40	101	1.39
81 Years to 90 Years	134	1.89	166	2.31	142	1.95
91 Years to 100 Years	54	.76	80	1.11	78	1.07
Over 100 Years	5	.07	3	.04	3	.04

## APPENDIX VI

### DEATH DATA

Causes of Death	2001		2006		2011	
	Number	Rate	Number	Rate	Number	Rate
AIDS	0	0	0	0	0	0
Accidental Death	6	.08	15	.21	13	.18
Congenital Anomalies	0	0	0	0	0	0
Complications of Pregnancy	0	0	0	0	0	0
Condition Originating in Perinatal Period	0	0	0	0	0	0
Disease of Blood/Blood Forming Organs	2	.02	1	.01	5	.07
Disease of Circulatory System	190	2.69	190	2.64	158	2.17
Disease of Digestive System	14	.19	15	.21	14	.19
Disease of Genitourinary System	12	.16	20	.28	15	.21
Disease of Musculoskeletal System/Connective Tissue	0	0	2	.03	2	.03
Disease of Nervous System	6	.08	2	.03	11	.15
Disease of Respiratory System	50	.70	53	.74	59	.81
Endocrine, Nutritional & Metabolic Disease	7	.09	1	.01	7	.10
Homicides	0	0	0	0	0	0
Infectious and Parasitic Disease	0	0	11	.15	4	.06
Mental Disorder	5	.07	0	0	0	0
Neoplasm	84	1.18	89	1.24	111	1.53
Suicide	1	.01	4	.06	15	.21
Symptoms, Signs and Ill-Defined Conditions	28	.39	69	.96	64	.88