

# VIGO COUNTY HEALTH DEPARTMENT



## 2015 ANNUAL REPORT

The Vigo County Health Department serves to promote, protect and provide for the well-being of the citizens in Vigo County

## BOARD OF HEALTH

For almost 50 years, the Vigo County Health Department has provided the citizens of Vigo County with the very best public health services possible. Today, those services have expanded into areas our predecessors never imagined, challenging us to keep pace with the demands of an ever changing environment and population. The Vigo County Health Department has continued in the successful tradition established under the leadership of its Board of Health. Members of the Board of Health have roots in medicine, law, business, industry, labor and social services. Maintaining constant communication between the governing body and staff members has been instrumental in relating regulation and procedures that best serve the community. The Vigo County Board of Health is appointed by elected officials in order to represent the needs of the community. The Vigo County Board of County Commissioners appoint all seven members of the board, no more than three from the same political party.

## 2015 BOARD OF HEALTH

Jeffery Depasse (President)  
Dora Abel (Vice President)  
Irving Haber D.O.  
Brian Garcia

Michael Eldred  
James Turner, D.O.  
Robert Burkle, M.D.



# PUBLIC HEALTH IN VIGO COUNTY



**Dr. Darren Brucken**  
**Health Commissioner**



**Joni Wise**  
**Administrator**

**Vision:** *Healthy People in Healthy Communities*

**Mission:** *Promote physical & mental health, prevent disease, injury and disability*

## **Public Health Goals**

- Prevents epidemics and the spread of disease
- Protects against environmental hazards
- Prevents injuries
- Responds to disasters and assists communities in recovery
- Assures the quality and accessibility of health services

## **Essential Public Health Services**

- Monitor health status to identify community health problems
- Diagnose and investigate health problems and health hazards in the community
- Inform, educate and empower people about health issues
- Mobilize community partnerships to identify and solve health problems
- Develop policies and plans that support individual and community health efforts
- Enforce laws and regulations that protect health and ensure safety
- Link people to needed personal health services and assure the provision of health care when otherwise unavailable
- Assure a competent public health and personal health care workforce
- Evaluate effectiveness, accessibility and quality of personal and population-based health services
- Research for new insights and innovative solutions to health problems

# **VIGO COUNTY HEALTH DEPARTMENT**

## **Administration**

Darren Brucken, M.D., Health Commissioner  
Joni Wise, Administrator  
Travella Myers, Deputy Administrator  
Rhonda Coombs, Bookkeeper  
Vicky Barish, Purchasing Clerk

## **Environmental Health Division**

Travella Myers, Supervisor  
Theresa Jackson, Food Specialist  
Amanda Bales, Food Specialist  
Mark McClintock, Wastewater Specialist  
Marci Shaw, Lead Specialist  
Steve Thompson, Wastewater Specialist

## **Health Education/Media Coordination**

Christina Keller

## **Vector Control Division**

Michael Grayless, Supervisor  
Tony Grayless, Assistant Supervisor  
Warren Sweitzer, Assistant  
David Higgins, Assistant  
Logan Edwards, Assistant  
Kim Edwards, Secretary  
Jeremy Johnson, Seasonal

## **Vital Statistics Division**

Terri Manning, Supervisor  
Connie Malooley, Asst. Supervisor  
Kirsten McGrew, Registrar  
Loretta Nicoson, Registrar  
Brooke Foltz, Part-Time Registrar

## **Nursing Division**

Catherine Brown, M.D., Pediatrician  
Jane Keyes, RN, Staff Nurse (retired September 2015)  
Kristin Wright, RN, Staff Nurse  
Christina Barbour, RN, Staff Nurse  
Christine Jones, RN, Staff Nurse (until August 2015)  
Chelsea Kizer, RN, Staff Nurse (September-present)  
Dolly Moss, Secretary  
Teresa Bechtel, Immunization Registry Clerk  
Brooke Foltz, Insurance Billing Specialist

## **Healthier by 2020**

Christina Avery, Health Activities Coordinator



## FINANCIAL REPORT FOR 2015

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Balance General Health Fund – January 1, 2015	\$1,092,782.58
Balance General Health Fund– December 31, 2015	\$1,139,712.24
Balance Health Donation Fund – January 1, 2015	\$ 78,319.83
Balance Health Donation Fund– December 31, 2015	\$ 65,014.45
Balance Local Health Maintenance/Trust Fund– January 1, 2015	\$ 9,557.46
Balance Local Health Maintenance/Trust Fund -December 31, 2015	\$ 5,516.06

### EXPENSES

Personnel Services	\$1,386,669.24
Supplies	\$ 120,095.40
Other Services	\$ 157,520.93
Capital Outlays	\$ 18,549.71
Un-Appropriated Funds	\$ 17,734.00

**TOTAL DISBURSEMENTS \$ 1,700,569.28**

### RECEIPTS

Fees Collected	\$ 243,360.00
Tax Advancements & Settlements	\$ 1,140,872.95
Financial Institutional Tax	\$ 12,022.52
State Grants (Local Health Maintenance & LHD Trust, Immunization)	\$ 189,315.46
Commercial Vehicle Excise/Health Tax	\$ 6,170.03
Miscellaneous Revenue	\$ 61.38
Auto, Aircraft, Excise Tax	\$ 91,985.11

**TOTAL RECEIPTS - \$1,683,787.45**

### FEE COLLECTION

Vital Statistics	\$148,928.00
Environmental Health	\$ 85,050.00
Immunizations	\$ 9,244.00
Other	\$ 199.38
Coroner's Education Fund	\$ 19,418.00
Donation Fund – Travel, Flu, Lead, Vaccines	\$ 44,624.73

## HEALTH EDUCATION/MEDIA COORDINATION



**Christina Keller**

The purpose of Health Education/Media Coordination is to reduce the number of preventable deaths in Vigo County by educating the community on public health issues. The goal for 2015 was to raise awareness regarding health risk factors and decrease the morbidity rate from preventable disease. Health education is a process that involves informing the public about achieving and maintaining quality health, instilling quality health habits, and providing the community with the necessary tools to make educated decisions regarding their own lifestyle and health. Health Education/Media Coordination utilizes the following outlets:

- Presentations/Programs
- Health Fairs
- Media Partnerships
- Social Media
- Community Involvement



## PRESENTATIONS & PROGRAMS

Presentations offer a comprehensive look at today's public health issues that are of concern. Some presentations are multi-faceted, such as an overview of the Health Department and its role in public health in Vigo County; others can be an in-depth look into issues such as bedbugs, influenza, or tobacco use in our community. This involvement offers the public the opportunity to learn about their health and well-being and ask questions. The Vigo County Health Department assists with many organizations, which include but are not limited to; the Lead Poisoning Prevention Coalition, Hamilton Center, Vigo County Head Start, Indiana State University courses, and the Vigo County School Corporation.

- National Night Out 2015
- County employee CPR program
- County Government Blood Drives
- Children's Bureau Head Lice & Bedbug Presentation
- CASY Child Care Provider - Hand Washing/Food Safety Presentation
- Great American Smokeout
- Child Fatality Review Team
- Heatstroke Taskforce
- Hand washing, Food Safety, HIV/ AIDs education, and Tobacco Prevention at West Vigo Middle School
- Lead poisoning awareness
- Stress management at Hamilton Center
- Handwashing at Hamilton Center
- Vaccinations for the elderly, Sycamore Manor
- Tobacco Cessation at Hamilton Center

## HEALTH FAIRS

Health fairs are a great way to promote health awareness and encourage participants to take responsibility for their health by providing valuable information. The Vigo County Health Department holds an annual County Employee Health Fair to celebrate Public Health Week in April. Prevention was the focus of the health fair this year and we had a wonderful turnout! Local organizations provided information on a variety of healthy lifestyle topics including fitness, healthy eating, tobacco cessation, and disease prevention. Health fairs allow health department employees the opportunity to meet with the public and discuss their specific concerns. This year, Vigo County Health Department participated in the following health fairs:

- Terre Haute Community Health Fair
- Ivy Tech Community College Health Fair
- Eli Lilly Employee Health Fair
- UAP Pulmonology Vendor Fair
- Ryves Hall Health Fair
- Regional Hospital Health Fair
- Rose-Hulman Health Fair
- Minority Health Coalition Health Fair
- Vigo County Employee Health Fair
- Area 7 Aging & Disabled Fair
- Honey Creek Safety Fair
- Father's Day Health Fair
- COPD Health Fair

## MEDIA PARTNERSHIPS

Working with the media is an extremely important component of Health Education. In order to ensure the residents of Vigo County receive the most accurate and up to date health information, the Vigo County Health Department has developed an excellent relationship with the media. The Health Educator/Media Coordinator works diligently with media outlets to compose important health messages in order to promote, provide, and protect the citizens of Vigo County and the surrounding areas. The following health topics were covered in the media:

- Influenza
- Ebola
- Bed Bugs
- National Night Out
- Vaccination Requirements
- Flooding
- Cold Weather Safety
- Vital Records
- Pneumonia
- County Health Rankings
- Mumps
- Measles
- Path to Freedom Walking Group
- E-cigarettes
- Pertussis
- Lead Poisoning
- Annual Health Reports
- Tire Amnesty Program
- Children's immunizations
- West Nile Virus
- Flu Shot Clinics
- National Public Health Week
- Vigo County Employee Public Health Fair
- Food Safety/Leftovers
- H1N1
- Ticks

## SOCIAL MEDIA

A new and evolving part of Health Education is our Social Media presence. We are very excited to now be a part of Facebook, Twitter, LinkedIn, YouTube, Pinterest, and Instagram! With the ever growing usage of social media sites it is crucial to use that to our advantage in reaching the public in every way possible for education and information. The use of social media in emergency situations such as an outbreak or natural disaster is also one of our main reasons to jump on board. Our goal is to provide the most accurate, up-to-date information as quickly as possible to our community. If you haven't already come visit our pages!



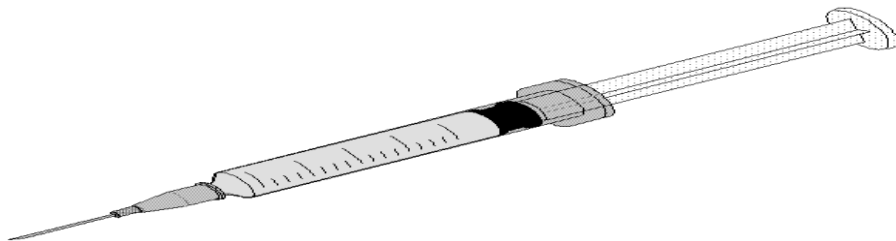


## NURSING DIVISION



**Left to right: Kristin Wright RN, Catherine Brown MD, Chrissy Barbour RN, Teresa Bechtel, Brooke Foltz, Dolly Moss and Chelsea Kizer RN**

The Vigo County Health Department Clinic is located at 696 South First Street at the southwest corner of the Vigo County Government Annex. In 2015, three full-time Registered Nurses, a full-time Secretary, an Immunization Registry Clerk, and a part-time Insurance and Billing Clerk provided staffing for the Clinic. In addition, a Pediatrician, Dr. Catherine Brown, staffed our weekly Well Child Clinics. The Health Department Clinic provided services to both children and adults for a nominal fee or free of charge. In 2015, there were 4732 client visits to the clinic.



## **EPIDEMIOLOGY AND COMMUNICABLE DISEASE**

Indiana Code 16-41-2-1 requires local health departments to investigate and report communicable diseases listed in the Indiana State Department of Health Communicable Disease Reporting Rule. Once the investigations are completed, they are entered into the computerized data base known as the Indiana National Electronic Disease Surveillance System (I-NEDSS). Our nurses investigated and reported 435 confirmed communicable disease cases in 2015. Chronic Hepatitis C continued to be the most prevalent communicable disease investigated by our staff in 2015.

## **FOREIGN TRAVEL/ADULT VACCINES/ADULT WELL PHYSICALS**

The Foreign Travel/ Adult Vaccine Program provides international travelers with protection from vaccine-preventable diseases while traveling outside the United States. Vaccines provided in 2015 were Hepatitis A, Hepatitis B, Tdap, Varicella, MMR and Yellow Fever. The VCHD Clinic is one of the few designated licensed Yellow Fever vaccine providers for the state of Indiana. There were 333 foreign travel/adult vaccines administered in 2015. The Adult Stay Well Program was continued by Dr. Brown who provided adult physicals which included college students, daycare employees, and foster care parents for a nominal fee.

## **TUBERCULOSIS CASE MANAGEMENT AND TESTING**

Tuberculosis control and case management by Local Health Departments is a mandated task under the Indiana Code 410 IAC 1-2.3-106. This includes investigating positive skin tests, collection of sputum samples for evaluation by the ISDH lab, providing medications for both active and latent TB cases, home visits for medication administration, evaluation and testing of contacts of the infected patient, communication with the patient's physician and patient education. In 2015, less than 5 active TB cases, less than 5 suspect, and 35 latent TB cases were managed by the VCHD Clinic. In addition, the VCHD Clinic provided TB skin testing on a walk in basis on Mondays and Fridays for the community for a nominal charge. 1054 TB skin tests were administered in 2015.

## **EDUCATION**

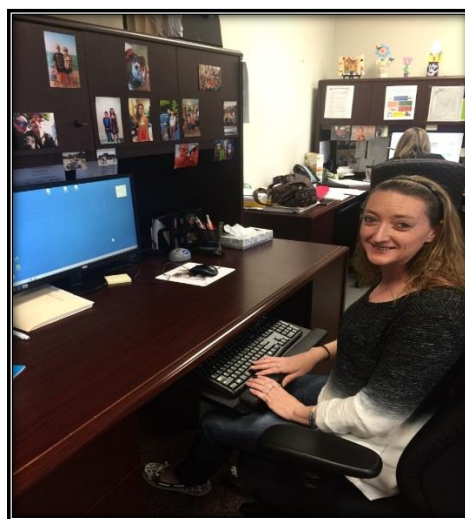
The public health nurses attended numerous training and educational courses throughout the year, including the Public Health Nurse Conference in April and a CHIRP user group meeting was held by the clinic in May. The nurses were involved in numerous insurance billing trainings throughout the year, as the health department slowly started to be able to bill private insurances.

## **WELL CHILD PROGRAM/SPORTS PHYSICALS/KINDERGARTEN PHYSICALS/VACCINE FOR CHILDREN PROGRAM**

The Well Child Program serves children from birth through 18 years of age. In 2015, we continued our weekly Well Child Clinics, in which Dr. Brown provided well child physicals, sports physicals, kindergarten physicals and Head Start physicals for a nominal fee. In February 2015 the clinic began offering evening clinic hours the second Tuesday of every month. Evening hours provide the opportunity for our patients to come for immunizations and/or physicals whom would be unable to come during normal office hours. This was a great success for 2015. The clinic is also a provider enrolled in the Vaccines for Children program and provided childhood immunizations to those who qualified. In 2015, 2,224 childhood vaccines were administered.



Dr Catherine Brown during a sports physical



Brooke Foltz, Insurance Billing Specialist

## **COMMUNITY INVOLVEMENT**

Immunizations are an important part of what the nurses at the Vigo County Health Department do on a daily basis. Over 200 flu vaccines were given to Vigo County Employees in the fall of 2015. In November, we participated in the Minority Health Fair, administering flu vaccines to the community free of charge. The nurses also serve as clinical preceptors for nursing students from ISU, USI, and SMWC. In March our SMWC nursing student gave a presentation to foster parents on Diabetes and Nutrition. Our nurses sit on several community boards, such as Early Head Start Health Advisory Committee, Head Start Policy Council, DCS Safety Team, Child Fatality Team District 8, and United Way Healthier by 2020 Initiative. Kristin Wright RN and Christina Barbour RN, both sit on the Vigo County Immunization Task Force, which meets quarterly with other medical professionals, school nurses, and childhood development members to collaborate and create new ways to increase immunization rates for Vigo County. In December the Indiana Immunization Coalition awarded the Vigo County Immunization Task Force with the Immunization Innovator Award.



## LEAD SCREENING

In 2015, approximately 187 children were screened for lead poisoning by the Vigo County Health Department Clinic. We held many lead screening outreach clinics throughout the county such as Head Start, Early Head Start, and ISU Early Childhood Center. Lead poisoning case management and environmental lead risk assessment consists of patient cases that are over the level of 10 mg/dl for blood lead levels. We followed 11 patient cases that were over the lead level of 10 mg/dl and 48 patient cases that were over the lead level of 5mg/dl in 2015.



**Chelsea Kizer, RN and Jane Keyes, RN prepare for a lead screening**

## INDIANA STATE IMMUNIZATION GRANT

In 2015 the Vigo County Health Department Nursing division was awarded a grant from the Indiana State Immunization Division for \$95,283.00. Funds from this grant were used in various ways to increase immunization rates, and promote services offered at the health department clinic. We were able to purchase billboards and newspaper advertisements, along with various supplies and equipment that the health department clinic needed. We also purchased equipment that would allow for us to hold off site vaccine clinics as needed. We continued to set up contracts with various insurance companies and we were able to start billing Medicaid for the administration of VFC vaccines. Starting in 2015, every patient seen was enrolled in MyVaxIndiana in CHIRP, which allows the patient to access their immunization record whenever they need to. We also conducted a reminder/recall focusing on the completion of the HPV vaccine series. We saw a dramatic increase in the start and completion of the HPV vaccine. Our immunization rates for Vigo County increased from 28% to 44% for the 2015 year, which still leaves us with much work to be done. In September 2015, we were notified that we had been awarded the grant again for the upcoming 2016 year.



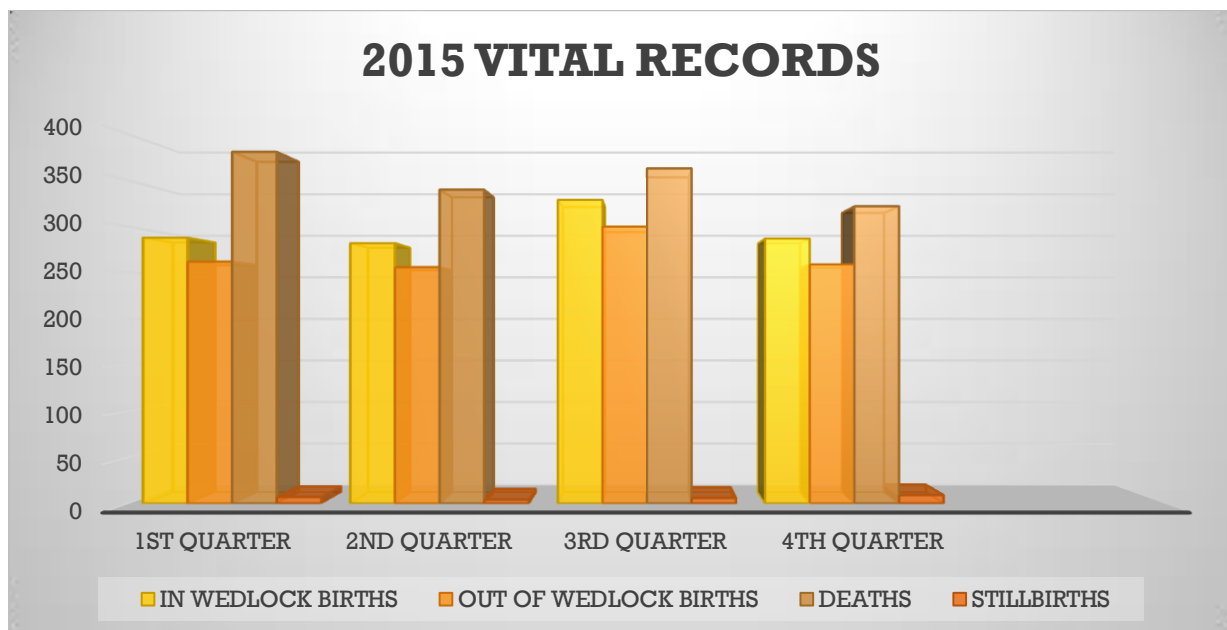
## VITAL STATISTICS DIVISION



Left to Right: Kirsten McGrew, Brandie Draser, Loretta Nicoson,  
Connie Malooley and Terri Manning

### THE VITAL RECORDS DIVISION'S OBJECTIVE IS TWO-FOLD:

- Carry out uniform procedures
- Maintain and protect the integrity of the Vital Records Systems



## THE DIVISION HAS THE RESPONSIBILITY TO:

- Maintain a system that accurately records all births, deaths and fetal deaths
- Efficiently issue certified copies of records
- Issue provisional notification of death-burial transit permits
- Process paternities when they come to us from the courts
- Type and process paternities when people schedule appointments to come in to our office
- Type affidavits of amendment and schedule appointments for people to make corrections to their birth record
- Work with funeral homes in filing death certificates
- Verify birth records for the Military, Social Security and Division of Family and Children
- Assist citizens who wish to inspect permanent birth and death records
- Assist customers in doing genealogy

## VITAL STATISTICS ANNUAL REPORT 2015

<u>Births Reported</u>	
In-Wedlock	1186
Out-of-Wedlock	1077
<b>Total Births</b>	<b>2263</b>
<u>Stillbirths</u>	26
<u>Deaths Reported</u>	1406
<u>Corrections Processed</u>	
Affidavit of Amendments	39
Adoption	125
Paternity Affidavit	223
<b>Total Corrections</b>	<b>387</b>
<u>Birth Certificates Issued</u>	7759
<u>Death Certificates Issued</u>	9283
<u>Certificates Issued for Free</u>	485
<u>Searches</u>	64

## ENVIRONMENTAL HEALTH DIVISION



**Front row, left to right: Amanda Bales, Travella Myers and Rhonda Coombs  
Back row, left to right: Vicky Barish, Mark McClintock, Theresa Jackson, Steve Thompson and Marci Shaw**

The Environmental Health Division is focused on the prevention of injury and disease by controlling the links between humans and their environment. Our programs seek to minimize or eliminate risk factors in the human environment that may threaten life and overall health.



## DRINKING WATER PROGRAM



The drinking water program includes the review of water sampling results from daycares, mobile home parks, and retail food establishments that utilize well water; education on proper care and shocking of wells, and guidance when flooding is an issue.

## FOOD SAFETY PROGRAM

The Food Safety Program involves the planning of new and remodeled retail food establishments, planning of fairs and festivals in Vigo County, and the licensing and inspecting of all retail food establishments. We work closely with the state department of health on any food recalls and food borne illnesses.



## IN 2015 THE FOOD SAFETY PROGRAM

### Inspections Conducted:

- 987 routine inspections
- 27 follow-up inspections
- 38 plan reviews
- 3 pre-opening inspections
- 32 opening inspections
- 12 food complaints

### Licensed:

- 490 Retail food establishments
- 78 Temporary food stands
- 19 Mobile units
- 16 Farmer's Market



## WASTEWATER MANAGEMENT PROGRAM



The planning, installation, and repair of on-site sewage disposal systems must be reviewed and inspected by one of our full-time environmental health specialist. This includes the reviewing of soil scientist reports, drawing of installed systems for department records, and giving recommendations for proposed subdivisions.

### **In 2015 a total of:**

- 42 New installations of on-site sewage disposal systems
- 3 Additions to on-site sewage disposal systems
- 32 Replacements of on-site sewage disposal systems
- 4 Repairs of on-site sewage disposal systems
- 45 Subdivisions

## RECREATIONAL WATER PROGRAM



Recreational water includes the inspection and review of bacteriological reports of swimming and wading pools, spas, therapy pools, and public access beaches. The inspection entails an evaluation of the pool area, water quality, safety equipment, and mechanical room.

### **In 2015:**

- 146 Regular inspections were performed
- 8 Follow-up inspections
- 37 Closings

## BODY ART SAFETY PROGRAM

Through the Body Art Safety program the Environmental Health Specialist works to ensure the safe and proper operation of the licensed body art establishments in Vigo County. We educate operators, evaluate plan reviews, and perform opening inspections on new or remodeled body art establishments. We also ensure general safety and sanitation standards, and proper disposal methods of infectious waste.

The Artist licensing program ensures the individuals that are performing the body art are knowledgeable and competent.

### In 2015:

- 6 Body Art establishments licensed
- 7 Routine inspections
- 1 Opening inspections
- 21 Regular Artist License
- 8 Temporary Artist License



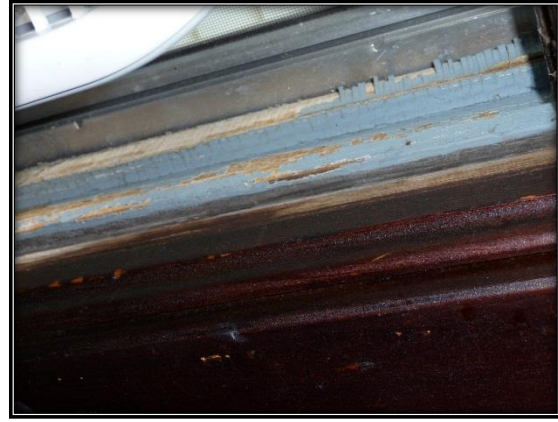
## PUBLIC HEALTH COMPLAINT PROGRAM

Housing and property complaints filter through this program. Some of the problems addressed are: mold, rodents, roaches, animal feces, meth lab clean up, surfacing sewage, and human feces.



- 25 surfacing sewage complaints
- 2 trash and garbage complaints
- 2 animal feces complaints
- 22 bed bug complaints
- 20 mold complaints

## LEAD POISONING PREVENTION PROGRAM



The state of Indiana mandates the local health department to follow children with elevated blood lead levels of 10  $\mu\text{g}$  or more and to follow up services to provide parent education and blood testing of children with elevated blood lead levels of 5  $\mu\text{g}/\text{dL}$  of blood or more. This includes educating the parents and conducting a risk assessment on the home.

- 43 open cases
- 5 new cases
- 6 risk assessments
- 2 clearance exams

In 2016 the department will continue lead poisoning prevention through community outreach events that increased educational awareness about the risks of lead to children, and increased the number of children tested for exposure to lead.

### LEAD POISONING: WHERE IT IS FOUND

- Lead-based paint
- Contaminated dust
- Contaminated dirt
- Contaminated drinking water from older plumbing fixtures
- Toys and furniture with lead-based paint
- Jewelry, new and old
- Dishes and pottery from other countries
- Vitamins from other countries
- Old pipes
- House Keys and Car Keys
- Houses built before 1978



## VECTOR CONTROL DIVISION



**Left to right, front row: Logan Edwards, Warren Sweitzer, and David Higgins**  
**Left to right, back row: Mike Grayless, Kim Edwards and Tony Grayless**

The primary goal of the Vector Control Division is to reduce the risk of disease and death from pathogens carried by animals and/or vectors. The Vector Control Division also repairs and maintains all Health Department vehicles and spraying equipment.

A “vector” is an agent capable of transmitting a pathogen from one organism to another. (I.e. mosquito, rodent). The Vector Control Division devotes its time primarily to:

1. Vector control
2. West Nile surveillance
3. Dead animal removal
4. Fleet maintenance and repairs



## MOSQUITO CONTROL

The spraying for adult mosquitoes in Vigo County was as diligent as the weather would allow in 2015. The adulticiding program consists of five ½ ton pickup trucks and three ATVs (equipped with ultra-low volume cold aerosol fog machines) to spray insecticides throughout the county, as well as the city of Terre Haute, for the control of adult mosquitoes. The ATV mounted ULV makes most sites accessible. All eight ultra low volume-fogging machines must be certified for droplet size and calibrated for flow rate prior to each spraying season. Calibration is monitored daily throughout the spraying season. Adult mosquito control is accomplished using four insecticides, Mosquitomist 1.5 and Bio-Mist 4+12, Pyrethos and Kontrol 4X4.



**Chris Novak with Clarke Mosquito Control  
checking droplet size**

All ULV units are fitted with GPS compatible "Smart Flow" systems. This enables Vector Control staff to preset and record calibration, time of spraying, flow rate and vehicle speed.



**Vector Control Specialist  
Logan Edwards**

Vector Control staff prepares and updates 26 maps that are 40-45 miles of County and city roads. The 26 maps show the areas to treat and also areas that we do not treat, which we consider no spray zones. Some of the areas that are considered no spray zones might be areas with organic gardens, beekeepers, large bodies of water or persons who have requested no spraying be done in the area they live, either for health or personal reasons. The 26 maps are treated weekly, biweekly or monthly depending on adult mosquito population and weather conditions.

Vector Control employees spend an extended amount of time treating stagnant water for mosquito larvae. Several brands of insecticide targeting several species are employed to kill the larvae. One type of insecticide (Golden bear) can last for seven days in stagnant low area water, covering the surface of the water denying the mosquito larvae access to air. All “catch basins” or dry wells are treated with Altosid



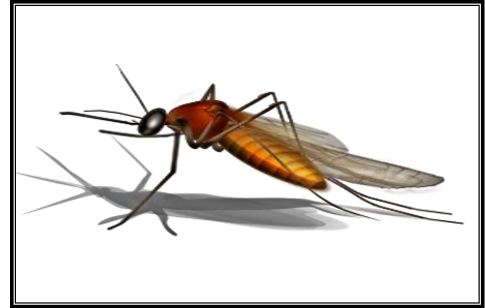
briquettes and Bactimas briquettes which lasts 30 or 150 days. Altosid Briquettes inhibit the growth of the larvae preventing them from becoming adults. Catch basins have been identified as one of many ideal habitats for the Vector (*Culex pipiens*), a mosquito, notoriously known for the transmission of West Nile. *Culex* mosquito larvae love the stagnant dirty water left behind from rain that doesn't soak into the ground but runs off into catch basins, retention ponds, and roadside ditches.



In 2015, approximately 1380 catch basins were treated. That number will continue to increase due to community growth. Parking lots and subdivisions will install retention ponds and or catch basins to contain water run-off. Catch basins and larvaciding sites are mapped out using the County’s GIS system. Larvae samples are examined for identification of species to insure proper insecticide treatment.

The following table contains a list of the amount and types of insecticide used in Vigo County to control adult mosquitoes and larvae in 2015.

	INSECTICIDE	AMOUNT USED
55 Gallon Drum	Biomist 4 + 12	19 Drums
55 Gallon Drum	Pyrofos	15 Drums
55 Gallon Drum	Golden Bear	30 Gallon
220 Per Case	Altosid Briquettes (150 Day)	8.5 Cases
100 Per Case	Bactimas Briquettes	17 Cases
400 Per Case	Altosid Briquettes (30 Day)	1 Case



## WEST NILE VIRUS SURVEILLANCE

We use two different types of light traps. One type of light trap (CDC -CO<sub>2</sub>-Baited trap) uses dry ice or an attractant called “octonol” which simulates the exhaled respiratory gases of birds or mammals. The other is a gravid trap that uses alfalfa pellets mixed with water. The fermentation of these pellets releases an odor, similar to a livestock barn, and creates dirty, stagnant water that attracts gravid culex mosquitoes.

Light traps were set out at numerous locations throughout Vigo County with 4378 mosquitoes being collected between June and October 2015. Once the mosquitoes are collected they are separated into groups ranging in number from 5 to 100 and are then labeled as pools of mosquitoes, which are sent to the Indiana State Department of Health for West Nile testing. A total of 93 pools were sent in for testing in 2015. The Indiana State Department of Health reported 18 positive pools for Vigo County. Vector control specialists will continue to set, maintain and collect mosquito pools for ISDH West Nile Virus testing in the upcoming year.



**Warren Sweitzer**

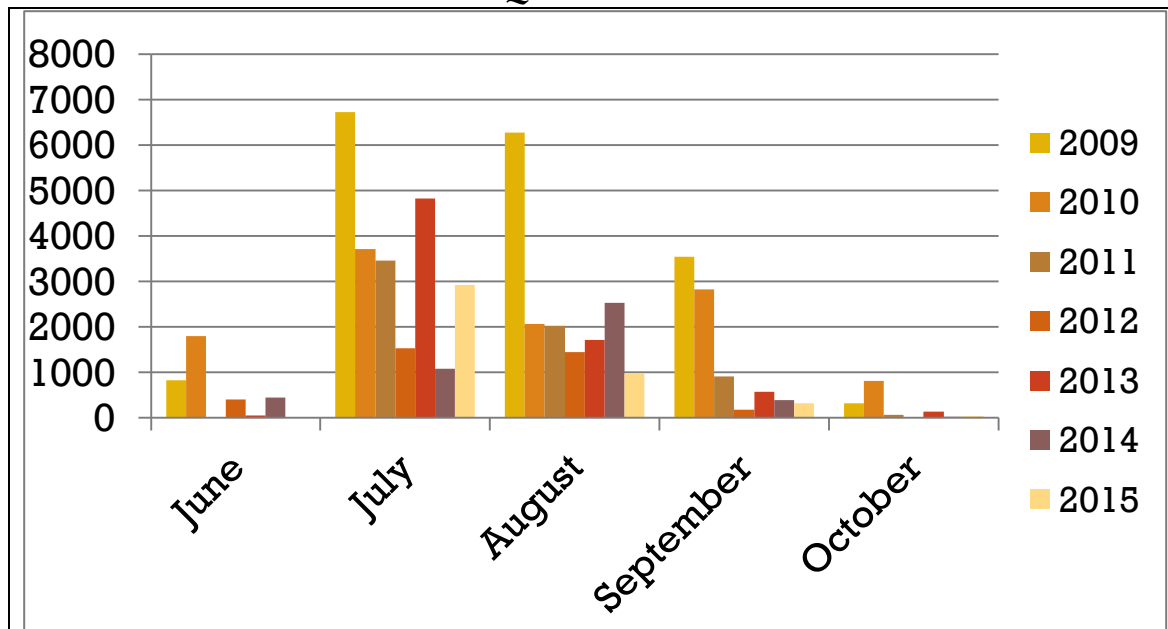


**Gravid Trap**

## MOSQUITO BORNE DISEASE PREVENTION ACTIVITIES FOR 2015

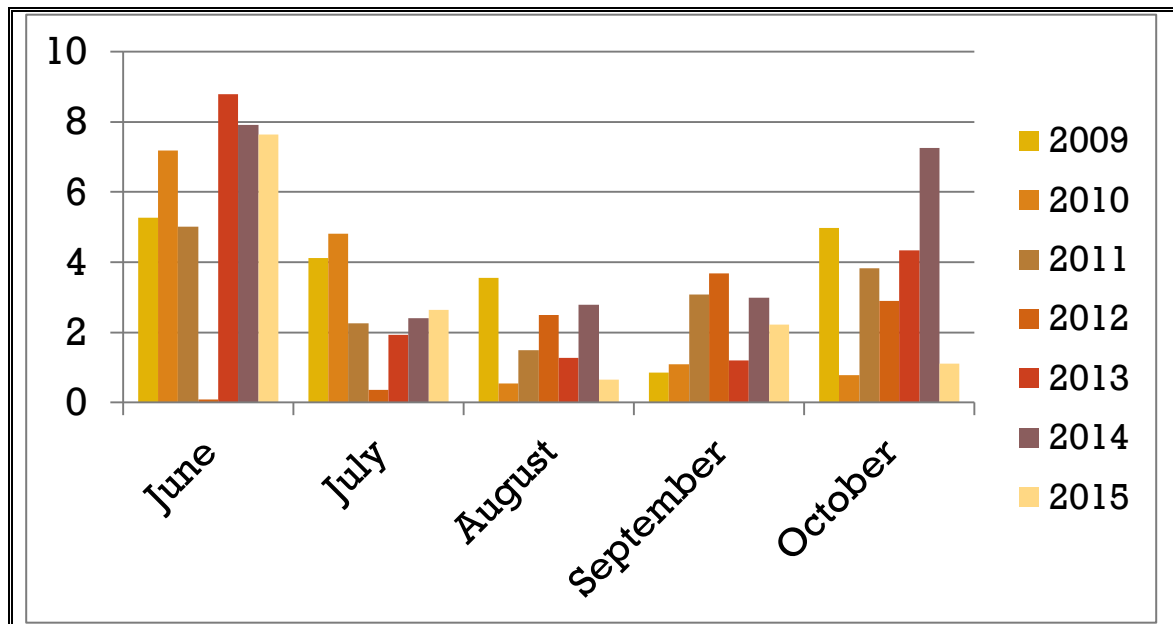
1. Distributed 5600 "Skeeter Beater" coloring books to pre-school through 3<sup>rd</sup> grade Vigo County School children on preventing and identifying prime breeding areas for mosquitoes.
2. Distributed "Skeeter Beater" coloring books to Saint Patrick's School and CASY (Community Alliance & Services for Young Children, Inc.).
3. Worked with Home Owners (high grass, weeds, swimming pools, fishponds, standing water).
4. Sent out Notice to Abate letters to all Vigo County cemetery caretakers.
5. Worked with Terre Haute Street Department to remove standing water from alleys.
6. Participated in National Night Out and distributed "Skeeter Beater" coloring books.
7. Participated in Clean up Terre Haute program in May and September 2015.
8. Continued to monitor home owners, tire retailers and salvage yards to ensure compliance with the Tire Storage Ordinance.

### TOTAL MOSQUITOES COLLECTED





## PRECIPITATION AMOUNTS



## 2016 MOSQUITO & LARVAE CONTROL STRATEGIES

- Intensify local culex and aedes mosquito larval control to prevent the emergence of adult mosquitoes that feed on birds and contribute to the virus amplification transmission cycle.
- Continue active West Nile surveillance to determine the presence of new or expanding West Nile transmission. (Light traps-Adult mosquito testing).
- Reinforce public education and outreach programs to reduce mosquito- breeding sites around homes.
- Educate on personal protective measures (long sleeves, insect repellent) with the use of the media (TV, radio and newspapers).
- Implement local mosquito control to reduce the number of virus infected mosquitoes, thus reducing the immediate risk to humans.
- Monitor adult and larval mosquito control efforts to ensure that the local programs are effectively reducing mosquito densities and virus infection rates.
- Conduct inspections of local tire retailers and junkyards for tire storage ordinance compliance.

## **REMOVAL OF DECEASED ANIMALS**

In 2015 a total of 791 deceased animals were taken to the county landfill. 664 were removed from private properties as well as city and county roadways. An additional 127 were removed from the Terre Haute Humane Shelter.

### **RODENTS**

Rodents (i.e. rats, mice) are another source of disease transmission. Rodents must have adequate food, shelter, and water in order to survive. For these reasons, a large majority of rodent complaints are located within the city of Terre Haute.



A vector control specialist investigates complaints about rodents and proceeds to make recommendations to the property owner on findings and rodent control (i.e. removal of debris, animal feces). In some cases, the vector control specialist may set out bait and remove dead rodents, but the majority of the extermination is usually the responsibility of the property owner. A vector control specialist will continue to make follow up inspections to insure the property owner is correctly handling the problem. One rodent complaint was investigated in 2015.

### **RABIES**

In 2015 Vector Control staff sent in eight bats to the ISDH for rabies testing. All tests results were negative for rabies virus. Night surveillance was performed by Vector Control staff at two homes in Terre Haute to assist the homeowners in bat proofing their homes.



**Little brown bat**

### **VEHICLE MAINTENANCE**

During the winter months the Vector Control Division is busy with repairing, cleaning and inspection of all vehicles and equipment. All ULV spray units must be cleaned and broken down during the winter months, checked, repaired and parts replaced as needed. Along with routine maintenance, all trucks and cars are thoroughly inspected and repaired. All Health Department vehicles and equipment have routine maintenance throughout the year.

## TIRE CLEAN-UP PROGRAM

In 2015 Vigo County Health Department employees removed discarded tires from the alleys and streets of Terre Haute and surrounding communities. A total of 12308 tires, filling ten semi-trailers, were collected. Residents that had tires stored outside were given information on our Tire Storage Ordinance informing them that the tires must be stored inside or removed from the property.



Jane Keyes and Mandy Bales



Warren Sweitzer and Logan Edwards

## HEALTHIER BY 2020

The Vigo County Health Department and the United Way of the Wabash Valley work together on a health initiative called "*Healthier by 2020.*" The intent is to make an impact on obesity by approaching it through a healthy eating and a physical activity plan. Healthier by 2020 has three components:

- Family Teaching Kitchens
- Iwalkwabashvalley
- Wabash Valley Mobile Market



In 2015 the Wabash Valley Mobile Market won two awards in the state of Indiana:

- Indiana Campus Compact Service Engagement Award
- Indiana Public Health Association Hulman Award for Innovative Public Health Programming

## TOYS FOR TOTS

In 2015 Vigo County Health Department employees donated money to purchase toys for the Toys for Tots program in Vigo County, \$2030 was collected. \$560 was donated to CASA for their Angel Tree Program and the toys purchased with the remaining balance were given to the Marine Corp for distribution. The mission of the U. S. Marine Corps Reserve Toys for Tots Program is to collect new, unwrapped toys during October, November and December each year, and distribute those toys as Christmas gifts to less fortunate children in our community so they can experience the joy of Christmas.





# The End



**Public Health**  
Prevent. Promote. Protect  
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Public Health

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