

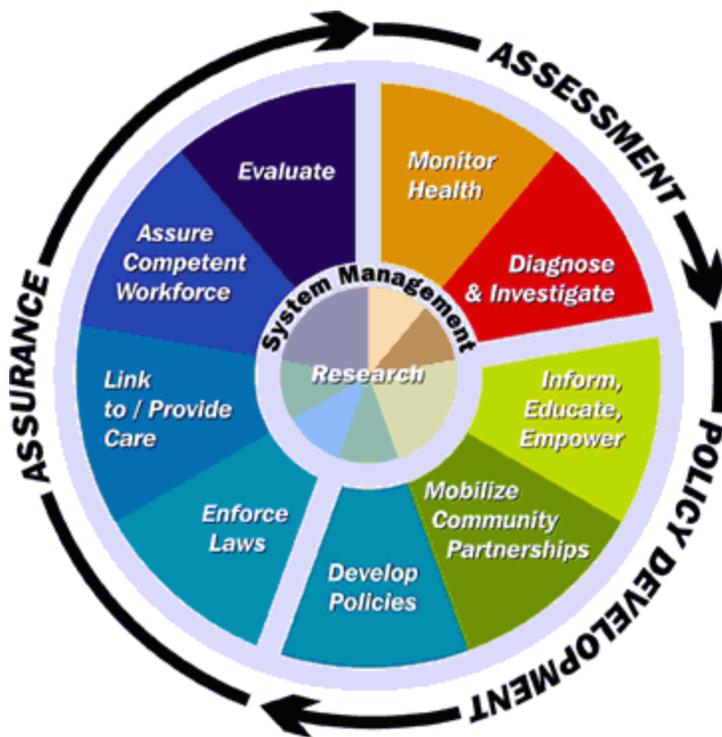


**Public Health**  
Prevent. Promote. Protect.

**Taney County Health Department**  
An Accredited Local Public Health Department

2013

# Taney County Health Department Annual Services Report



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TCHD

3/13/2013

## Table of Contents

Introduction .....	3
Environmental Health Services .....	4
Animal Control Services .....	10
Women, Infants, and Children (WIC) Program .....	12
Children’s Dental Services .....	13
Health Education Programs .....	15
Clinical Services Programs .....	16
Emergency Preparedness and Response .....	17
Epidemiology .....	18
Discussion .....	21

## Introduction

The Taney County Health Department (TCHD) works in close collaboration with local partners to strengthen and broaden public health initiatives that focus on communicable diseases, chronic diseases, environmental health, animal control, immunizations, community health education, emergency response and many other prevention efforts. The department works through various collaborative efforts with community leaders, businesses, hospitals, private practitioners, other agencies, and schools to identify the health status, needs, strengths, health concerns, gaps and assets in the community. Many community partners provide resources and engage in partnerships with the health department to address the public health issues in the county. Without these partnerships, much of the progress in addressing public health concerns that has been achieved in the county would not have been possible. The Taney County Health Department is committed to building healthier communities in Taney County and “making a positive difference”.

The purpose of this report is to provide an overview of the services provided to the residents and visitors of Taney County by the Taney County Health Department. These services represent some of the work accomplished by the department in 2012 and will help guide TCHD Program managers and board members as they review trends to determine future policy changes and budgetary issues. This report has a broad scope and reflects general program trends and issues. Identified trends should be used to initiate discussion among TCHD managers, staff, board members and community members as strategic planning considerations are reviewed.

## Environmental Health Services

Environmental Health Services include a variety of responsibilities to enforce city codes, state statutes, and county ordinances. These focus on inspections of food service, lodging, childcare, swimming pools and spas, mobile food vending, temporary food events, and massage/tattoo businesses. Environmental Health responsibilities also include investigation of sewage complaints, well water testing, West Nile mosquito and bird surveillance programs and other environmental hazards that could pose a risk to the public's health. The Environmental Health/Epidemiology Division at the Taney County Health Department (TCHD) also provide education on food safety, mold removal, radon, norovirus prevention, pool maintenance, bed bugs, communicable disease surveillance and investigations as well as other environmental health topics. The Environmental Public Health Specialists (EPHS) also have significant responsibilities responding to natural and man-made disasters or emergencies. In the past two years the EPHS have responded to local flooding, tornadoes, fires, power outages, disease outbreaks, and truck wrecks. The EPHS personnel also work closely with area food services to provide health advisories; food re-calls, and respond to truck wrecks.

The information below reflects the number of facilities operating in 2012 and the percent change compared to the previous year. The numbers for the facilities that are closed or inactive are not included.

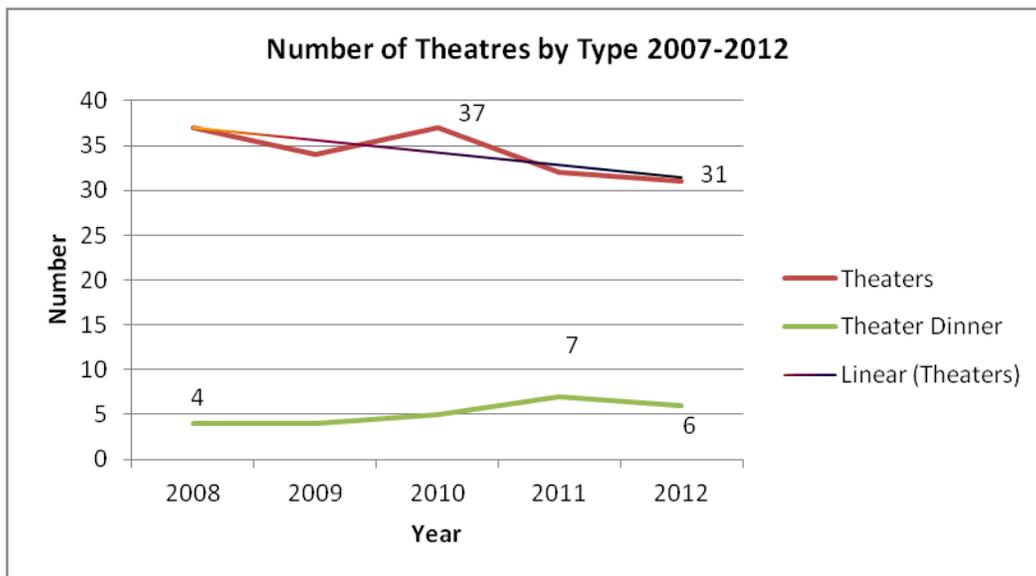
Type of Facility	2011	2012	Percent Change Compared to 2011
Theater/Dinner Theaters	39	36	-7.7
Restaurants/Food Service	296	283	-4.4
Lodging	140	130	-7.1
Continental Breakfast	96	89	-10.4
<b>Total</b>	<b>571</b>	<b>538</b>	<b>-5.8</b>

Source: TCHD, Environmental Health Division/Epidemiology Division, 2013

From 2011 to 2012 a number of facilities have ended operations in Taney County. This decrease in the number of facilities has resulted in fewer required inspections due to economic or the February 29, 2011 tornado.

In the following graphs, a declining trend is observed in the number of facilities requiring inspections. The numbers of theaters, restaurants, lodging facilities, and swimming pools have all decreased since 2008. This trend is counter to what had been experienced prior to the economic downturn that occurred around 2008. Lost some theatres to the tornado that occurred in Branson on February 29, 2012 but they are currently being rebuilt.

Theaters:

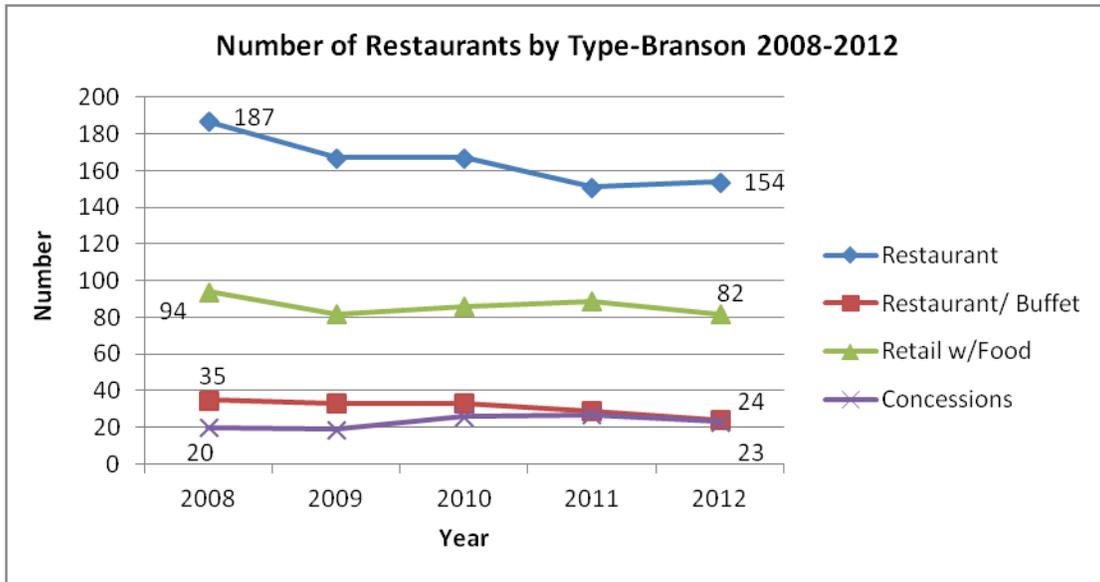


Source: TCHD, Environmental Health Division/Epidemiology Division, 2013

Type	2008	2009	2010	2011	2012	Capacity	2008	2009	2010	2011	2012
<b>Theaters</b>	<b>37</b>	<b>34</b>	<b>37</b>	<b>32</b>	<b>30</b>		<b>44,463</b>	<b>38,588</b>	<b>43,413</b>	<b>40,856</b>	<b>39,584</b>
<b>Theater Dinner</b>	<b>4</b>	<b>4</b>	<b>5</b>	<b>7</b>	<b>6</b>		<b>3,021</b>	<b>2,621</b>	<b>3,211</b>	<b>3,345</b>	<b>3,142</b>
<b>Total</b>	<b>41</b>	<b>38</b>	<b>43</b>	<b>39</b>	<b>36</b>		<b>47,209</b>	<b>41,209</b>	<b>46,624</b>	<b>44,201</b>	<b>42,726</b>

Source: TCHD, Environmental Health/Epidemiology Division, 2013

## Restaurants/Food Service:

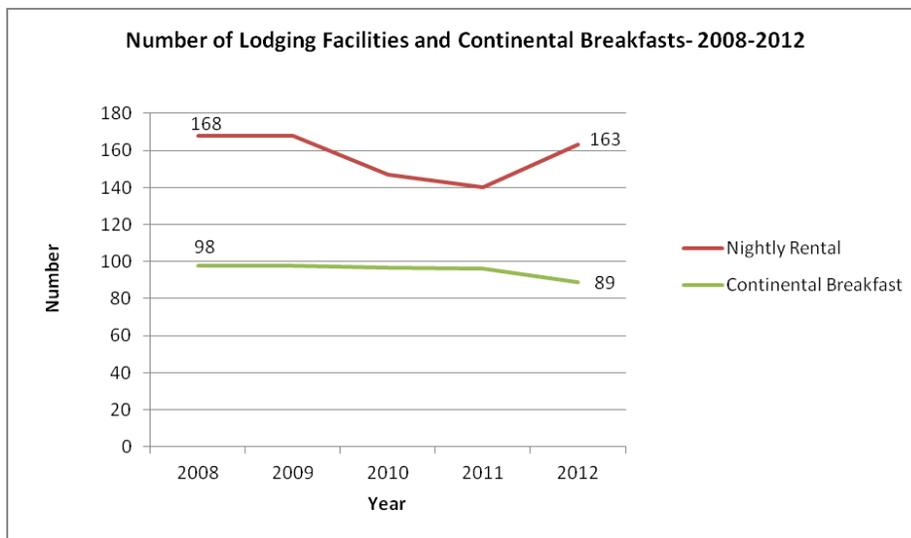


Source: TCHD, Environmental Health/Epidemiology Division, 2013

Type	2008	2009	2010	2011	2012	Capacity	2008	2009	2010	2011	2012
Restaurant	187	167	167	151	154		22,803	19,885	19,885	18,056	16,837
Restaurant/ Buffet	35	33	33	29	24		9,323	8,939	8,939	7,897	6,736
Retail w/Food	94	82	86	89	82		420	330	330	306	637
Concessions	20	19	26	27	23		0	0	0	0	0
<b>Total</b>	<b>316</b>	<b>301</b>	<b>312</b>	<b>296</b>	<b>283</b>		<b>32,546</b>	<b>29,166</b>	<b>29,154</b>	<b>26,259</b>	<b>24,210</b>

Source: TCHD, Environmental Health/Epidemiology Division, 2013

**Lodging/Continental Breakfast** (Does not include time share rooms):

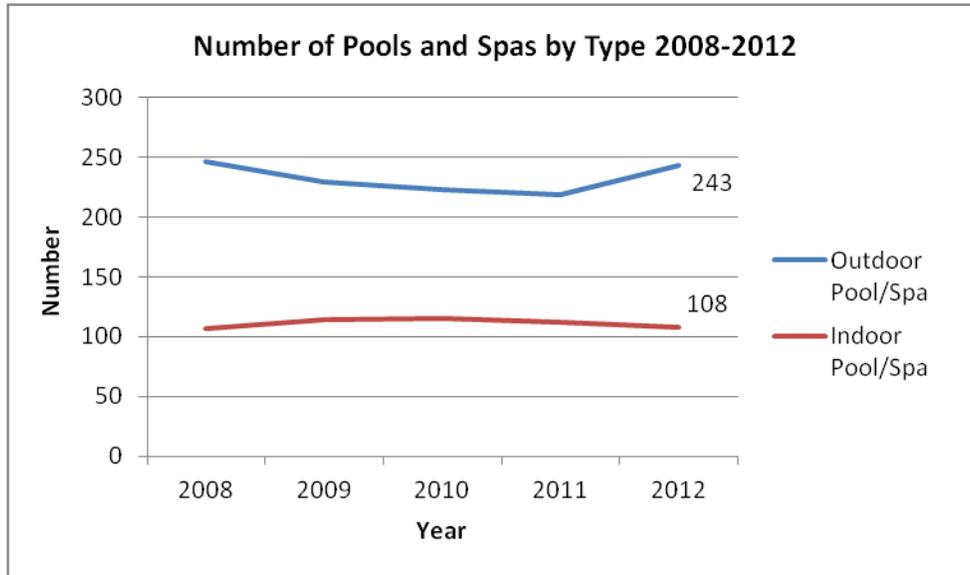


Source: TCHD, Environmental Health/Epidemiology Division, 2013

Type	2008	2009	2010	2011	2012	Capacity	2008	2009	2010	2011	2012
Nightly Rental	168	168	147	140	130		16,260	16,000	14,394	13,649	12,544
Continental Breakfast	98	98	97	96	89		4,199	4,218	4,230	4,231	3,850

Source: TCHD, Environmental Health/Epidemiology Division, 2013

## *Swimming Pools/Spas Indoor and Outdoor:*



Source: TCHD, Environmental Health Division/Epidemiology Division, 2013

Type	2008	2009	2010	2011	2012
<b>Outdoor Pool/Spa</b>	<b>247</b>	<b>229</b>	<b>223</b>	<b>219</b>	<b>243</b>
<b>Indoor Pool/Spa</b>	<b>107</b>	<b>114</b>	<b>115</b>	<b>112</b>	<b>108</b>
<b>Total</b>	<b>354</b>	<b>343</b>	<b>338</b>	<b>331</b>	<b>351</b>

Source: TCHD, Environmental Health/Epidemiology Division, 2013

### Environmental Public Health Services Inspections, Taney County, 2012

Type of Inspection	Routine	Follow-up/Complaints	Total 2012	Total 2011	Percent Change Compared to 2011
<b>Food</b>	1060	385	1445	1,420	1.76
<b>Temp Food</b>	107	0	107	107	0.0
<b>Lodging</b>	156	210	366	357	2.52
<b>Pools</b>	834	253	1087	1,218	-10.76
<b>Childcare</b>	27	7	34	37	-8.11
<b>Massage/Body Art</b>	32	1	33	32	3.13
<b>Animal Acts</b>	26	0	26	32	-18.75
<b>Total Inspections</b>	<b>2242</b>	<b>856</b>	<b>3098</b>	<b>3,203</b>	<b>-3.28</b>

Source: TCHD, Environmental Health Division/Epidemiology Division, 2013

Approximately 38% of the routine inspections conducted in 2012 had follow up inspections completed compared to 44% in 2011.

Water samples are routinely analyzed by the Taney County Health Department Certified Drinking Water Laboratory. This laboratory is certified by the Missouri Department of Health and Senior Services and the Missouri Department of Natural Resources. Water tests are routinely conducted to determine levels of Total Coliform and E.Coli that are present. The table below provides information on the number of tests performed by year and the percent change. A 0.9% decrease was observed in the number of water test performed compared to 2011.

<b>Water Laboratory Tests-January through December, 2012</b>				
	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>Percent Change Compared to 2011</b>
<b>Private Water Tests Performed</b>	230	251	237	-5.9
<b>Public Water Tests Performed</b>	192	193	196	1.6
<b>Total Number</b>	422	444	440	-0.9

Source: TCHD, Environmental Health/Epidemiology Division, 2013

## Animal Control Services

The TCHD provides animal control services for the City of Branson and the unincorporated areas of Taney County through contractual agreements with these jurisdictions. Other cities in the county contract with the TCHD Animal Control shelter to house animals. The services provided by animal control include: responding to field calls such as abandoned animals, animal abuse, animal at large, vicious animals, animal bite investigations, injured animals, lost animals, and mutual aid requests from law enforcement and fire. The Animal Control Officers (ACOs) also assist law enforcement routinely as they perform their duties and encounter situations with animals that require animal handling training and expertise. The ACOs also have responsibility for transporting animals, responding to emergencies, inspecting facilities in the City of Branson for animal establishment permits, animal temporary event permits, and facility inspections where animals are located. The Taney County Animal Shelter provides animal sheltering, adoptions, and animal quarantine services. The Animal Shelter staff work closely with area veterinarians, humane societies, and rescue organizations to ensure a high rate of animal adoptions. Euthanasia services are not performed at the TCHD Animal Control Shelter.

In 2012, a total of 1,640 animals (dogs and cats) were impounded by the TCHD animal control program. This was a 9.5% increase over the previous year.

Shelter Services Provided, Taney County Animal Control 2009-2012					
	2009	2010	2011	2012	Percent Change 2011-2012
<b>Dogs Impounded</b>	1,195	1,095	964	1110	15.15
<b>Cats Impounded</b>	323	296	543	522	-3.87
<b>Total Animals Impounded</b>	<b>1,518</b>	<b>1,391</b>	<b>1,507</b>	<b>1,640</b>	<b>8.83</b>

Source: TCHD, Animal Control, 2013

Percent of Dogs and Cats Adopted/Redeemed or Transferred to Joplin By Jurisdiction, 2012					
Jurisdiction	Adopted or Redeemed (%)		Animals Transferred to Joplin (%)		Total Number*
	Dogs	Cats	Dogs	Cats	
Branson	42	31	78	9	160
Taney County	64	15	66	0	145
Hollister	10	7	20	0	37
Forsyth	3	3	5	0	11
Merriam Woods	2	0	17	1	20
<b>Total (Number)</b>	<b>121</b>	<b>56</b>	<b>186</b>	<b>10</b>	<b>373</b>

Source: TCHD, Animal Control, 2013

During 2012, over 32% of dogs and 15% of cats were adopted or redeemed through the animal control program. The remaining animals were transferred to the Joplin Humane Society where they were provided additional adoption or rescue opportunities.

<b>Number of Incoming Dogs and Cats By Jurisdiction, 2012</b>				
<b>Jurisdiction</b>	<b>Number of Dogs</b>	<b>Number of Cats</b>	<b>Total Number</b>	<b>Percent of Total</b>
<b>Branson</b>	<b>330</b>	<b>249</b>	<b>579</b>	<b>38%</b>
<b>Taney County</b>	<b>551</b>	<b>134</b>	<b>685</b>	<b>45%</b>
<b>Hollister</b>	<b>71</b>	<b>44</b>	<b>115</b>	<b>8%</b>
<b>Forsyth</b>	<b>47</b>	<b>37</b>	<b>84</b>	<b>6%</b>
<b>Merriam Woods</b>	<b>50</b>	<b>8</b>	<b>58</b>	<b>4%</b>
<b>Total</b>	<b>1049</b>	<b>472</b>	<b>1521</b>	

Source: TCHD, Animal Control, 2013

In 2012, a total of approximately 1,694 field complaints were answered by the animal control officers. The City of Branson accounted for 26% of the field complaints while the county accounted for 62% of calls. These estimates are considered to be low compared to actual field complaint calls.

<b>Number of Field Complaints By Jurisdiction, 2012</b>			
<b>Jurisdiction</b>	<b>2011</b>	<b>2012</b>	<b>Percent Change</b>
<b>Branson</b>	<b>500</b>	<b>630</b>	<b>26.0</b>
<b>Taney County</b>	<b>549</b>	<b>887</b>	<b>61.6</b>
<b>Hollister***</b>	<b>0</b>	<b>22</b>	<b>2100.0</b>
<b>Forsyth</b>	<b>82</b>	<b>105</b>	<b>28.0</b>
<b>Merriam Woods</b>	<b>61</b>	<b>50</b>	<b>-18.0</b>
<b>Total</b>	<b>1,192</b>	<b>1,694</b>	<b>42.1</b>

Source: TCHD, Animal Control, 2013

In 2012, the animal control officers also responded to the aftermath of the February 29, 2012. Following the tornado the shelter facility had to increase its sheltering capacity to assist with the emergency response. Both the animal control officers and shelter staff worked long hours to ensure that animals were provided care and re-united with their owners.

## Women, Infants, and Children (WIC) Program

The Women, Infants & Children (WIC) program is a nutrition education, health promotion and supplemental food program that helps mothers and young children eat well and stay healthy. The United States Department of Agriculture, Food & Nutrition Service provides Federal grants to states for the WIC program. The program provides supplemental foods, health care referrals, and nutrition education for low-income pregnant, breastfeeding, and non-breastfeeding postpartum women, and to infants and children up to age five who are found to be at nutritional risk.

All applicants must meet income guidelines. Individuals who meet income and category guidelines will be assessed for nutritional risk factors during the certification process. The WIC program is provided at no cost to the participant. Benefits of the WIC Program include: nutrition education and counseling, breastfeeding education and support, breast pumps, checks to buy nutritious foods to keep women and their children healthy, referrals for other health programs.

In 2012, the average monthly caseload of participants provided services through the TCHD in the WIC program was 2,047. This was a slight increase compared to the previous year's average monthly caseload. During the year, it was observed that other WIC programs in Missouri also experienced a decrease in services provided.

WIC Clients Receiving Services Fiscal Year (October –September) 2009-2012					
	FY 2009	FY 2010	FY 2011	FY2012	Percent Change 2009 and 2012
<b>Total Number of WIC Clients Receiving Services</b>	23,938	25,922	24,460	24,565	2.62
<b>Average Monthly Caseload</b>	1,996	2,306	2,038	2,047	2.56

Source: TCHD, Women's, Infants, and Children Program, 2013

## Children's Dental Services

The Children's Dental Clinic is available for children under the age of 18 and pregnant women with active Medicaid/MO HealthNet and is limited to Taney county residents only. The purpose of the Children's Dental Clinic is to treat, prevent and educate. The Dental Clinic is funded by Medicaid reimbursement and Taney County tax dollars. Medicaid reimburses on average 50% of normal and customary fees. The overhead is low because the TCHD provides the space and utilities.

Services provided through the TCHD Dental Clinic include: Cleanings, x-rays, fluoride, oral hygiene education, sealants, restoration, space maintainers, stainless steel crowns, root canals, and extractions. The Clinic is open five days a week and staffed with a full-time dentist, two full-time assistants and a clinic manager.

Children's Dental Clinic-Taney County Health Department, 2012				
	2010	2011	2012	Percent Change Compared to 2011
<b>Total Visits</b>	2,545	2,451	2,687	9.6
<b>Total Extractions</b>	279	248	272	9.7
<b>Total Sealants</b>	358	137	128	-6.6
<b>Oral Hygiene Instructions Given</b>	1,456	1,396	1,646	17.9
<b>Fluoride Treatments</b>	1,440	1,439	1,392	-3.3
<b>OACAC</b>	150	150	150	0.0
<b>Total Toothbrushes</b>	1456	1400	1500	7.1
<b>Total Toothpastes</b>	1456	1400	1500	7.1

Source: TCHD, Children's Dental Clinic, 2013





In 2012 the Children's Dental Clinic had a total of 2,687 office visits. The Dental clinic also provided toothbrushes, tooth paste and fluoride treatments to 1,500 children in Taney County; and provided on-site dental screening for the Ozarks Area Community Action Corporation (OACAC) which includes 150 Head Start children.

The Dental Clinic continues to refer several young patients a year to pediatric dentists in Springfield, MO for hospital sedation. Multiple referrals for teenagers are made to the oral surgeons for wisdom teeth removal. And, children that qualify for braces covered by MoHealthNet and based on medical needs are referred orthodontists.

## Health Education Programs

The Taney County Health Department provides a variety of important health education programs to the community and to specific groups. In 2012, the health education provided the following programs and presentations:

- Tobacco Use Prevention in area schools
- Community Health
- Car Seat Safety
- Hand washing
- Ready-in 3
- Disease Prevention
- General Public Health
- Media Releases
- Health Advisories
- Fact Sheets

Increasing awareness of healthy lifestyles to prevent debilitating chronic diseases, such as obesity and heart disease will continue. Collaboration between the Taney County Health Department and community partners has provided some initial success by illustrating the willingness among community members to participate in efforts addressing these problems. The health priorities identified through the Community Health Assessment process have impacted many residents of Taney County. Many other health problems such as diabetes, heart disease, cancer, and stroke can be decreased in the county by addressing behaviors and lifestyle choices related to tobacco use, substance abuse, nutrition, and exercise.

The Taney County Health Department will continue to work with community partners to strengthen and implement needed local programs and policy changes. Additionally, the process will continue as updated information is provided to the community to increase awareness, encourage discussion and gather feedback.

The Community Outreach Division works closely with community partners to identify health priorities and develop health improvement action plans to guide the community when addressing these priorities.

## Clinical Services Programs

The Taney County Health Department provides many clinical services for members of the community. These services include: child and adult immunizations, travel immunizations, family planning, pandemic Influenza Response/Mass Vaccination Clinics, pregnancy testing, pre-natal case management, blood pressure checks, TB case management, breast and cervical cancer screening, communicable disease investigation and prevention, health education, blood lead screening, laboratory tests through the State Public Health Laboratory, and STD testing and treatment.

In 2012, 5,576 vaccinations were provided which was a 0.54% increase compared to 2011. Decreases were seen in services provided in pre-natal case management, well women's visits, and family planning. Many of the increases observed in the immunization have been due to changes in vaccination requirements for school attendance, the addition of travel vaccine that were not available locally before, as well as a decrease in the number of physicians providing vaccinations. Pre-natal case management and Well Women visits had decreased due to a re-evaluation of the program and changes that were made to those who qualify for the program. Decreases in Family Planning and Well Women visit services may be attributed to changes in other local programs which have decreased local family planning service availability. Another attributing factor could be referral of woman to Mo Health Net for woman's health services which allows them to use other providers.

Clinical Services Provided-Taney County, 2009-2012					
	2009	2010	2011	2012	Percent Change Compared to 2011
<b>Total Vaccinations</b>	6,475	6,767	5,546	5,576	0.54
<b>Number of People Vaccinated</b>	3,610	3,194	2,915	2,860	-1.92
<b>Prenatal Case Management</b>	108	84	188	151	-24.50
<b>Well Women's Visits</b>	1,555	1,178	1,392	1,075	-29.49
<b>Family Planning Clients</b>	--	841	1,043	975	-6.97

Source: TCHD, Clinical Division, 2013

TCHD nurses provided tetanus vaccine to those affected by the Branson tornado in February.

# Emergency Preparedness and Response

The Taney County Health Department is an active partner with other emergency response agencies in the community. The Health Department is a member of the Local Emergency Planning Committee (LEPC), Southwest Missouri Emergency Services Organization (SMESO), Missouri Food Safety Task Force, and the Tri-lakes Health Care Coalition. These groups meet regularly to discuss issues, review plans, participate in exercises, and provide updates regarding current activities. This exercise involved multiple agencies in the area from the hospital, law enforcement, fire, Emergency Medical Services, the health department, and emergency management. This exercise was a tremendous success and allowed area responders to gain valuable information regarding responding to large-scale Hazmat incidents.

In 2012, the TCHD emergency preparedness and response activities included the following:

- One outbreak investigations
- Norovirus outbreaks among motor coach Tours
- Branson Tornado Response
- Disease Surveillance
- Full-scale HAZMat Exercise with response partners
- Annual Reports and Assessments
- Annual updates of Emergency Response Plan
- Completion of Pandemic Improvement Planning

The emergency response provided during the Branson tornado February 2012 utilized personnel from the animal control, nursing, environmental health and epidemiology programs. These natural disaster events were unprecedented and impacted areas significantly. The staff members who responded directly to the events were supported by the staff members who took on additional responsibilities and workloads to cover necessary services in both offices and the animal shelter in Taney County. The response effort was coordinated well and clearly demonstrated the emergency response capabilities of the department.

# Epidemiology

Communicable disease surveillance is a multi-component system that monitors and analyzes data that includes – but is not limited to – demographic, geographic, and disease/condition-specific information. Accurate identification and timely reporting are integral parts of successful disease control, enabling public health agencies to:

- Identify contacts who may be infected or other individuals at risk for infection,
- Determine the incidence and prevalence of disease in a specific area of the state,
- Assist physicians and hospitals in evaluating illnesses in their patients and communities, and
- Assist the public in making better decisions regarding their health and lifestyle.

Successful communicable disease surveillance enhances control efforts; such as developing prevention/intervention strategies and policies, and responding to events involving potential exposure to communicable disease.

Gastrointestinal (GI) illnesses affect the digestive tract and may include symptoms such as nausea, vomiting, diarrhea (watery and/ or bloody), cramping, headache, chills, malaise or fever.

People become infected through fecal-oral route and may occur as food or water becomes contaminated as a result of contact with improperly prepared or cooked foods, unpasteurized milk or untreated water source. Food may also become contaminated if individuals do not properly wash their hands after using the toilet or prior to preparing, handling or eating food.

Gastrointestinal Illnesses Rate Per 10,000-By, 2011 & 2012				
County	Taney			
	2011		2012	
Condition	Cases	Rate	Cases	Rate
CAMPYLOBACTERIOSIS	7	1.35	1	0.19
CRYPTOSPORIDIOSIS	1	0.19	0	0
E COLI SHIGA TOXIN POS	3	0.58	1	0.19
E. COLI O157:H7	1	0.19	1	0.19
GIARDIASIS	1	0.19	3	0.57
SALMONELLOSIS	6	1.16	4	0.76
SHIGELLOSIS	0	0.00	0	0
LISTERIOSIS	0	0.00	0	0

Source: Websurv, 2013

## Hepatitis Surveillance

The word "**hepatitis**" means inflammation of the liver and also refers to a group of viral infections that affect the liver. Viral hepatitis is the leading cause of liver cancer and the most common reason for liver transplantation. The most common types of Hepatitis in the U.S. are Hepatitis A, B, or C. In the United States, an estimated 1.2 million Americans are living with chronic Hepatitis B and 3.2 are living with chronic Hepatitis C.

Viral Hepatitis Cases, Rate per 10,000 -2012		
	Taney	
	Number	Rate
HEPATITIS A ACUTE	0	0
HEPATITIS B (PREGNANCY) PRENATAL	1	0.89
HEPATITIS B ACUTE	0	0
HEPATITIS B CHRONIC INFECTION	1	0.89
HEPATITIS C CHRONIC INFECTION	57	10.8

Source: Websurv, 2013

**Seasonal influenza** is a highly contagious viral disease that usually affects the respiratory system. Symptoms include fever, cough, sore throat, headache, runny nose, body aches, chills, and sometimes diarrhea and vomiting. Influenza can range from mild to severe illness and may sometimes lead to death. It can lead to pneumonia, dehydration, ear and sinus infections, and worsening of previous medical conditions. Those aged 65 years and older, children under age 2, and persons of any age with chronic medical conditions are at highest risk for serious complications of flu. In Missouri, influenza and pneumonia are associated with approximately 1,500 - 3,000 deaths per year (DHSS,2012). The economic impact of influenza illness is staggering.

Summary Table of the Total Influenza Cases by Type and Age Group To Date							
Influenza Type	< 2 YRS	2 - 4 YRS	5 - 14 YRS	15 - 24 YRS	25 - 44 YRS	45 - 64 YRS	OVER 65 YRS
Influenza A	1	10	23	7	16	2	17
Influenza B	2	5	14	1	6	1	4
Untyped/Unknown	0	0	1	0	0	0	0
TOTAL	3	15	38	8	22	3	21

**Tuberculosis(TB)** is a disease caused by a bacterium called *Mycobacterium tuberculosis*. It is transmitted person-to-person through air droplets when someone who is sick with active TB. Not everyone who ingests the germs becomes sick. Two results can happen from exposure to a person with active TB, both are treatable and curable. Person can develop active TB or latent TB infection (LTBI). With latent TB infection you will have no symptoms and TB cannot be spread to others and will usually have a positive skin test reaction. TB may develop later in life if they do not receive treatment for LTBI.

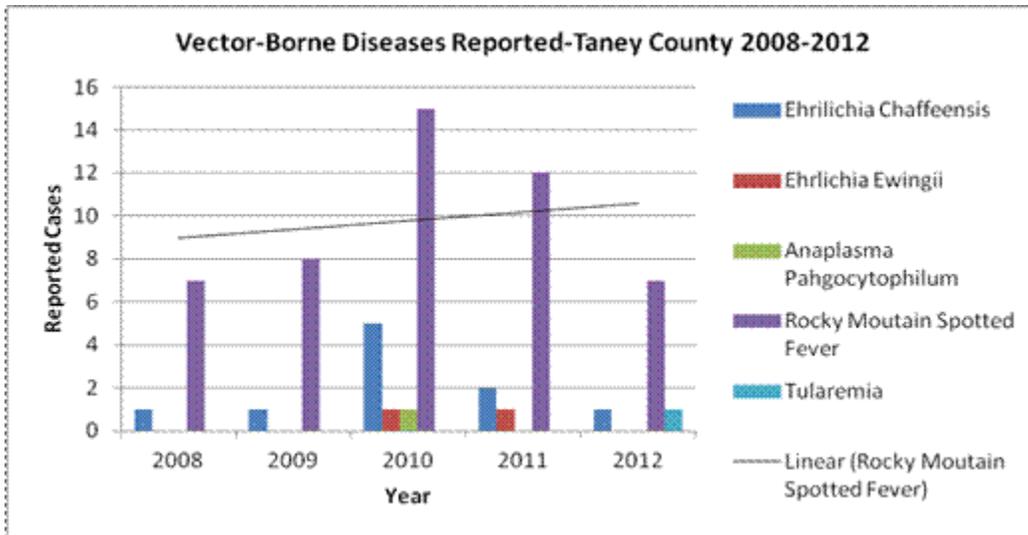
Number of Reported Tuberculosis Infections and Disease, 2011-2012				
	Infection		Disease	
	2011	2012	2011	2012
Taney	11	9	1	0
Missouri	2496	15	101	0

Source: Websurv, 2013

**Vector-borne Diseases**

Vector-borne diseases are those diseases that are transmitted to humans or other animals by an insect or other arthropod. Vectors of human disease in Missouri are typically ticks or mosquitoes. Some species of mosquitoes and ticks are able to transmit viruses, rickettsiae, bacteria, or parasites to humans.

In the United States, ticks are responsible for more human disease than any other insect. Tick-borne diseases are also known as zoonotic diseases. A zoonotic disease is an infectious disease that can be transmitted between animals and humans. Ticks are very effective transmitters of disease because most ticks take blood from a large variety of small and large mammals, reptiles, and even birds. In general, ticks must ingest a blood meal before they can molt and move to the next stage in their life cycle. Ticks become infected with a disease-causing agent by feeding on infected mammals or birds. For example, a tick can pick up Lyme disease from a field mouse, and later in its life transmit bacteria to a deer, dog, or human.



Source: Websurv, 2013

## Discussion

The Taney County Health Department programs provide services to clients throughout Taney County. The majority of the clients live in Western Taney County where Branson and Hollister are located. The Table below provides an overview of the percent of clients by location and program. Clients from the Branson area make up 43% to 47% of clients that participate in programs.

<b>Public Health Services, By Client Place of Residence- Taney County, 2012</b>			
	<b>WIC Clients- FY12 (%)</b>	<b>Dental Services (%)</b>	<b>Clinical Services (%)</b>
Bradleyville	1.3	0.003	1.3
Branson	47.2	0.4	43.8
Cedar Creek	0.1	0.007	0.9
Forsyth	9.2	0.1	14.0
Hollister	0.4	0.2	11.4
Kirbyville	17.8	0.09	5.4
Kissee Mills	6.0	0.03	3.6
Powersite	1.3	0.008	1.9
Protem	0.8	0	0.4
Point Lookout	0.2	0.0	1.0
Ridgedale	0.2	0.02	0.0
Rockaway Beach/ Merriam Woods	1.2	0.11	8.4
Taneyville	9.1	0.03	4.7
Walnut Shade	2.0	0.02	1.6
Out of County	2.15	0.01	1.4

Source: TCHD, 2013

Trends observed in the data from the various programs indicated that some programs have experienced increasing trends in the services provided. Services provided through the Clinical Division, Animal Control, and the water lab demonstrated an increase in demand for these services. Other programs such as the Dental Clinic, WIC, and Environmental Health inspections have demonstrated decreasing trends in the amount of services provided. These decreases have been due to a number of reasons. The TCHD engages in a rigorous Continuous Quality Improvement and Program Evaluation program to identify these trends throughout the year. This allows for program adjustments as needed.

One of the leading health indicators for Health People 2020 is Clinical Preventive Services, which includes routine disease screening and scheduled immunizations that are key to reducing death and disability and improving the Nation’s health. These services both prevent and detect illnesses and diseases—from flu to cancer—in their earlier, more treatable stages, significantly reducing the risk of illness, disability, early death, and medical care costs. Below is the Healthy People 2020 goal and where Taney and Barry County stand within those goals. STEC and Tuberculosis did not make the HP 2020 goal for Taney County but with more education on prevention this number should decrease. Barry County did not make goal for Campylobacter, STEC or Salmonella for 2012 but with increased efforts in education and prevention this goal is achievable.

Healthy People 2020 Goal (Rate per 100,000)		
Communicable Disease	2012 Taney	Healthy People 2020
Campylobacter	1.9	8.5
E.coli (STEC)	1.9	0.6
Listeria Monocytogenes	0.0	0.2
Salmonella	7.6	11.4
Tuberculosis (new cases)	1.9	1.0

Source: HP2020, TCHD, 2013

The Missouri County-level Study (CLS) was conducted in 2002-2003, 2007 and 2011 to produce county-specific prevalence estimates of chronic diseases, conditions, and risk factors. For each of the studies, Missouri Department of Health and Senior Services (MDHSS) staff was responsible for overseeing the study design and making the data available on the MDHSS Community Data Profiles web site. The University of Missouri-Columbia Health and Behavioral Risk Research Center was contracted to conduct interviews with Missouri adults age 18 and older for each study. The 2007 and 2011 studies were funded by the Missouri Foundation for Health.

For the 2011 CLS, a total of 47,261 adults were interviewed via randomly selected landline telephone numbers. Additionally, 4,882 randomly selected cell phone-only adult users were interviewed. Below you will find a table that represents Taney County as well as surrounding counties and Missouri rates.

2011 County Health Rankings				
Health and Preventive Practices	Taney	Christian	Stone	Missouri
Current cigarette smoking	<b>29.8</b>	27.4	24.7	23.0
No leisure-time physical activities	20.7	22.2	<b>25.7</b>	23.7
Less than 5 fruits and vegetables per day	78.0	<b>87.9</b>	87.2	87.4
Overweight	27.9	34.0	32.6	<b>34.3</b>
Obese	28.8	27.4	28.7	<b>30.2</b>
High blood pressure	30.9	30.5	<b>46.8</b>	34.3
Ever had blood cholesterol checked	90.9	<b>91.0</b>	86.4	89.5
Current diabetes	<b>13.5</b>	7.0	9.3	10.7
No Mammogram or Breast Exam in Last Year-Women Age 40 and Older	<b>43.6</b>	34.0	32.1	10.0
Never Had a Pap Smear-Women Age 18 and Older	<b>12.0</b>	5.0	4.0	7.6
Never had a sigmoidoscopy or colonoscopy-Men and Women age 50 and older	<b>42.2</b>	38.1	30.9	33.9

Source: MoDHSS, 2013