



Utah County

HEART of UTAH

Health Department



FROM THE EXECUTIVE DIRECTOR

Dear Utah County Residents and Community Leaders,

During the summer of 2016, the Health Department responded to a toxic algal bloom in Utah Lake that was unprecedented in size and scope. Past algal blooms had generally been limited to smaller harbor type areas on the lake. This bloom was massive and required the closure of the entire lake for weeks due to the risk to the public's health. The effort required coordination with over 20 partner agencies. This event created massive media attention, including national media, with coverage for much of the summer. Toxic algal blooms in the lakes commonly called Payson Lakes also required cautionary and closure action by the Department.

For many years now, in cooperation with the Utah County Solid Waste Districts, the Utah County Health Department has sponsored a Household Hazardous Waste Collection day where residents can bring in their household hazardous wastes to be recycled where possible or safely disposed of when recycling or reuse is not possible. In 2016 the Utah County Board of Health passed a regulation that will allow this effort to continue and even expand in the coming year. The intent was to establish collection sites at the area transfer stations where much of this waste can be taken year-round for proper handling without a charge to the resident disposing of the waste.

The year 2016 brought the world the Summer Olympic Games in Brazil. Due to an outbreak of the Zika virus in Brazil and other areas, alerts were issued about the disease with the largest concern being for the babies born to infected mothers. Microcephaly in infants has been connected to the Zika virus infection in pregnant women. While the virus is not currently in the mosquito populations here in Utah, we did end up with the responsibility to track cases of individuals with the Zika virus coming into the state from the areas where the Zika virus was present. This is important for tracking health outcomes for infants from infected mothers as well as possible cases that come from sexual transmission as it has been shown the virus can be transmitted sexually. With the addition of the Zika virus tracking to our workload, we are now responsible for tracking and doing the epidemiological investigations on 84 different communicable diseases.

Our county continues to be rated as a very healthy community. The Robert Wood Johnson Foundation and the University of Wisconsin Population Health Institute gather annual county health rankings through a collaborative effort (see www.countyhealthrankings.com). Utah County is currently ranked as the 3rd healthiest county in the state and the only heavily urbanized county with a population over 125,000 in the top three in the state. Utah County rated number one for Health Behaviors, number two for Quality of Life, number three for both Health Outcomes and Health Factors, and number four for Social and Economic Factors.

It requires the effort of all citizens to keep Utah County a healthy place to live and grow. We appreciate so very much the support of our County Commission, the Board of Health, involved citizens and community leaders, as well as our very outstanding employees.

Sincerely,
Ralph L. Clegg, EHS, MPA
Executive Director
Utah County Health Department



Ralph Clegg
Executive Director

2016 Budget

Revenues



Contracts: 7,307,350 Fees: 9,158,155

Taxes: 3,264,727 Fund Balances/ Interest/ Other: 2,163,582

Expenditures



Personnel: 14,391,202 Operating Costs: 7,464,486

Capital Costs: 38,126

ADMINISTRATION



Utah Lake Algal
Bloom Response

An algal bloom in Utah Lake, unprecedented in size and scope requiring Utah County Health Department, along with the Utah Department of Health to close the entire lake, which had never been done previously, in order to protect the health of the public. The algal bloom required a tremendous response from department staff over the course of several months.



American Fork/
Tibble Fork Response

Utah County Health Department staff coordinated with partnering agencies in responding to the Tibble Fork Reservoir Sediment Release. UCHD assured the development and posting of accurate signage to notify recreators of heavy metals in the sediment in the creek.



Response to Multiple,
Concurrent Urgent Issues

Multiple concurrent urgent issues during the summer required significant staff multi tasking. Issues responded to included:
*Algal Bloom in Utah Lake
*Tibble Fork Reservoir Sediment Release
*Hantavirus Death
*Zika virus in a Pregnant Woman
*Multiple Rabid Bats



Groundbreaking of New
Multi-Service Health Clinic

Ground was broke on a new multi-service health clinic in Payson. Immunizations and Women, Infants and Children (WIC), will be provided, in addition to other health services.



Strategic Plan Approval
& Implementation

The five-year strategic plan developed through community and partner input was approved and implemented. Plan objectives reflect the highest priority issues and offer opportunities for measurement and accountability. Approximately 32% of the plan has been completed as of February 1, 2017.



Intern Volunteer Hours
Nearly Double 2015

Volunteer hours (not including those of senior volunteers) donated to the Utah County Health Department = 8,235, equaling four full time employees, with a contribution of \$196,981. Hours for 2016 are nearly double that of 2015.

BOARD OF HEALTH

Clyde Nielson,
RPh, Chair
Gaye L. Ray,
RN, FNP-C
Jeff Acerson,
Lindon Mayor

Teresa Tavares,
Vice-Chair
Henry M. Yeates,
MD
Superintendent
Keith C. Rittel

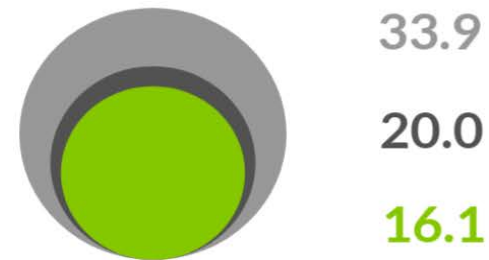
Dianne C. Carr,
RD, CD
Commissioner
Larry Ellertson
Diane Lohner

VITAL RECORDS

BIRTH

Birth Certificates **17,593**

Birth of Twins Per 1,000



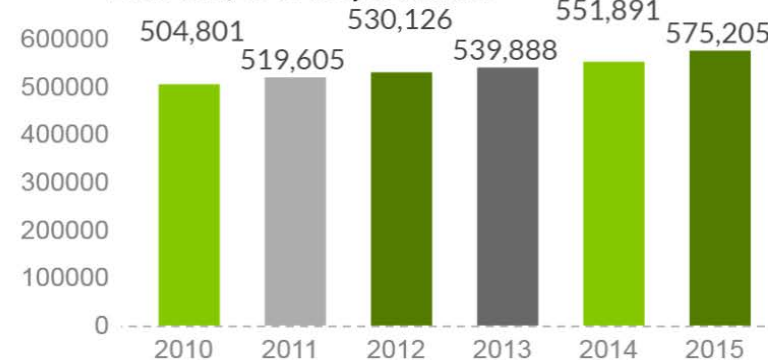
■ U.S. ■ Utah County ■ Utah

Births by Year



Population

*2015 data, 2016 not yet available



Information gathered from UCHD Vital Records, the Utah Indicator-Based Information System for Public Health, the Utah Governor's Office and the United States Census Bureau.

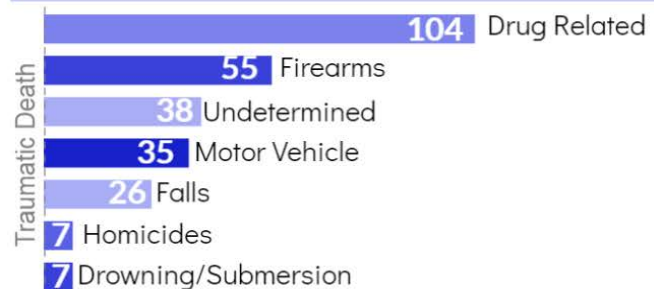
DEATH

Death Certificates **2,693**

Leading Causes of Death

Heart Disease.....	555
Cancers.....	439
Unintentional Injuries.....	160
Strokes.....	136
Alzheimer's Disease.....	121
Diabetes/Mellitus.....	97
Suicide.....	93
Chronic Lung Disease.....	89
Birth Complications/Defects.....	62
Kidney Disease.....	55
Pneumonia/Influenza.....	53
Parkinson's Disease.....	45

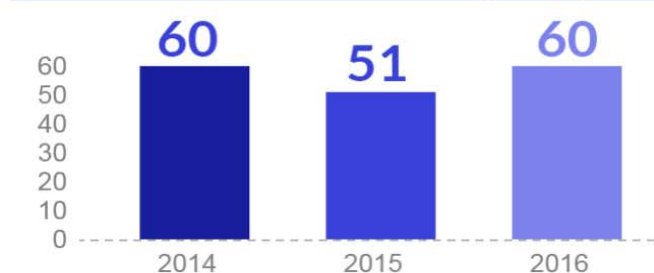
Traumatic Death



Infant Mortality Rate Per 1,000 live births

*2015 data, 2016 not yet available
Utah County = **4.6** Utah = **4.9** U.S. = **6.0**

Fetal Deaths (20 weeks or more gestation)



MOSQUITO ABATEMENT

Catch basins treated

34,281

Cost per resident estimate

\$1.49

Of the 321 mosquito pools tested, 0 tested positive for West Nile Virus

0

Mosquitoes trapped, fewest in the last 11 years

11,569

620

137,075

q-PCR testing equipment

Local testing capability allows for local timely testing of West Nile Virus and other mosquito-borne diseases

Service requests responded to by staff, all within 24 hours of request

Acres treated for mosquitoes



Utah County students educated

SENIOR VOLUNTEERS

Foster Grandparents

72 foster grandparents volunteered **47,612** hours, assisting **689** children.



Foster Grandparent volunteer Annie being interviewed by the the Daily Herald in the classroom where she volunteers.

Foster Grandparent volunteer Marie, the oldest and longest serving volunteer, being honored at the Foster Grandparents Recognition Event.



Marie is 93 and has served for 23 years!

Senior Companions

43 senior companions volunteered **37,412** hours, to **337** frail elderly residents.

Commissioner Lee and Executive Director Clegg present awards at the Senior Companions' Recognition Event



Senior Companion volunteer and recipient participate in media interview about the Senior Companions program.

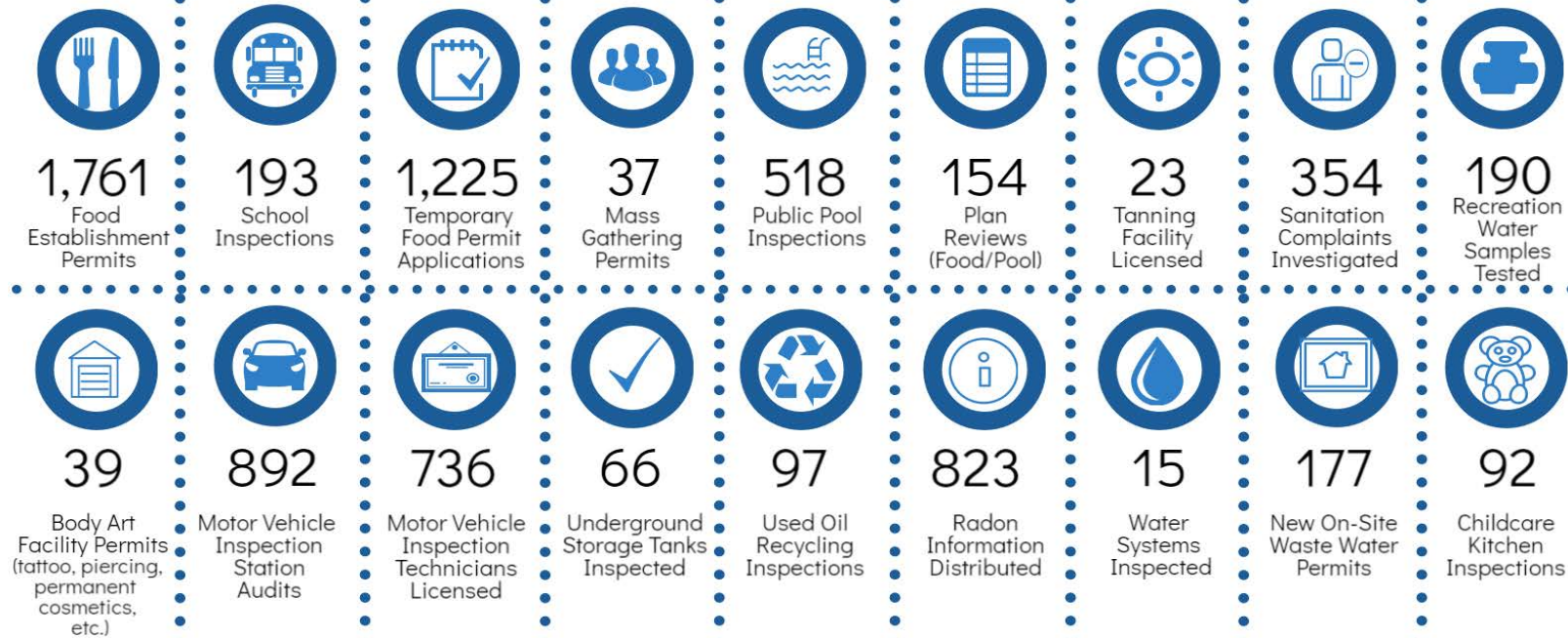
Senior volunteers provide

\$2,203,774.08

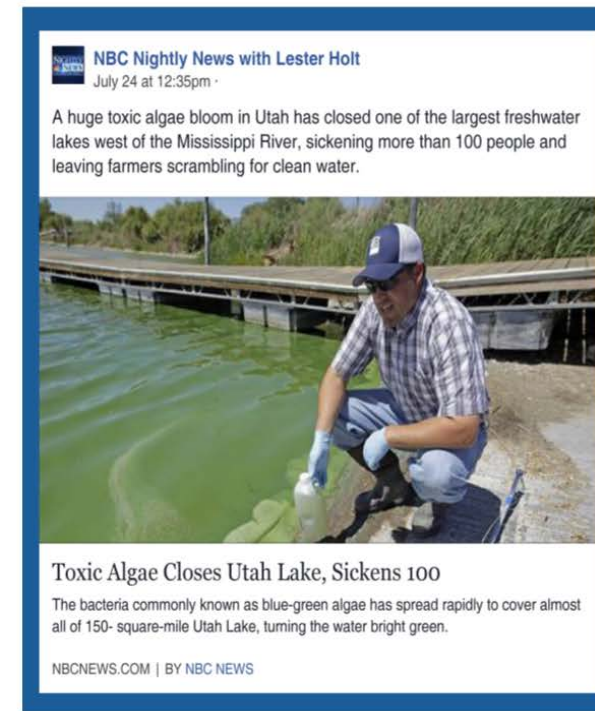
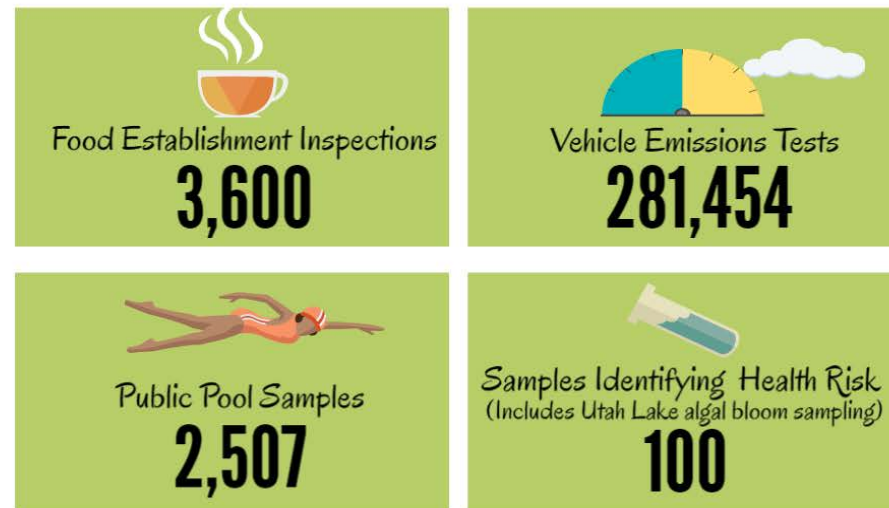
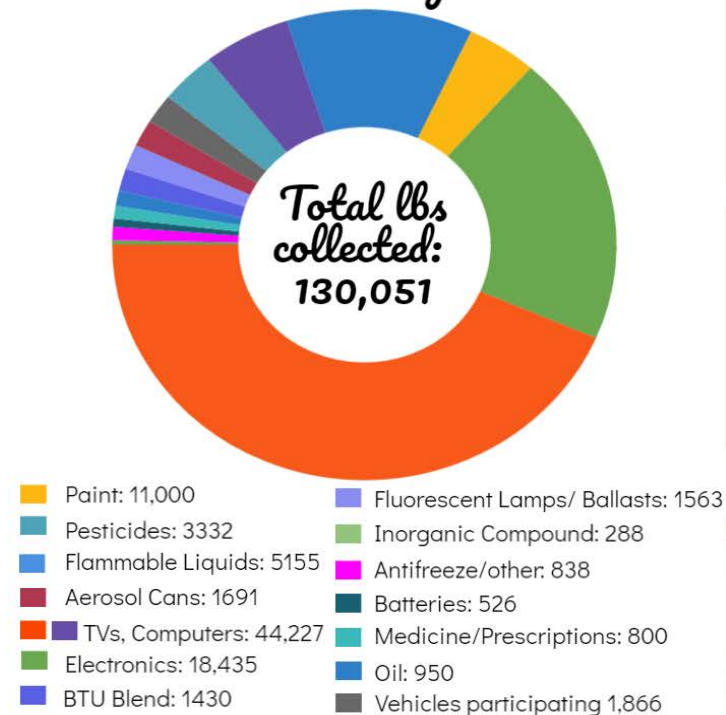
in contribution to Utah County



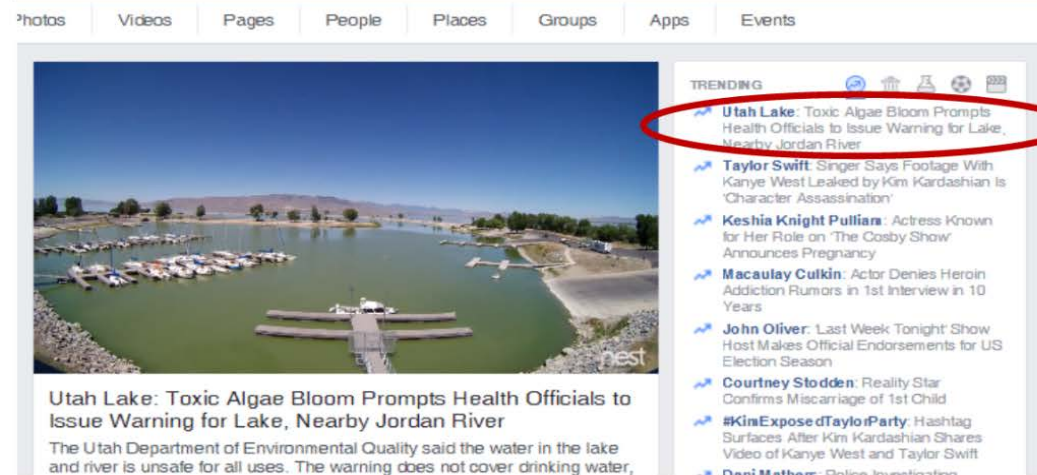
ENVIRONMENTAL HEALTH



Household Hazardous Waste Collection Day Event



#1 trending topic on Facebook for over 1/2 a day



Environmental Health Division recognized as the

Recycle Partner of the Year

by Habitat for Humanity



UTAH LAKE ALGAL BLOOM

Media Coverage
July 22nd

UCHD mentioned in

360+

news stories, not including social media



The algal bloom affected 90% of the nearly 100,000 acre Utah Lake.

Cyanobacteria levels tested almost **4x** the limit recommended for closure by the World Health Organization.

Over 30 Health Department staff participated in the Utah Lake response.



Event at Provo Mayor John Curtis' home to retest for radon, after he installed a radon mitigation system. The event was well attended by media and featured on the Mayor's blog.



WOMEN, INFANTS & CHILDREN (WIC)



Clients Served

Average number of clients served per month = **10,996**
2016 Total = **131,949**



Breastfeeding Rest Stop

45 mothers and babies used the new breast feeding "rest stop" at the Utah County Fair, a **31%** increase from 2015!



Reading Partnership

Partnership with Scholastic book program to provide books for families as they enroll or re-enroll in WIC, to encourage reading



Certified Staff

1 Lactation consultant
3 Peer counselors
22 Lactation educators
10 Registered dietitians



Multiple Gestation

Higher than state average for mothers pregnant with multiples



Immunizations

Orem WIC office started offering immunizations on Monday afternoons



Parent Education

7,392 parents educated
Community Classes:
~Happiest Baby on the Block
~Nutrition Education
~Infant Massage
~Baby Wearing
~Breastfeeding

92%

Breastfeeding

92% of Utah County WIC clients mothers start breastfeeding - higher than the state average!

Utah County WIC received the U.S. Department of Agriculture's Loving Support of Excellence Award for Exemplary Support and Breastfeeding Practices



WIC Lactation Coordinator,
Amanda Ottley
accepted the award on behalf of Utah County WIC

FAMILY/PERSONAL HEALTH SERVICES

Home Visit Programs

Home Visit Programs

322 Baby Your Baby (New Clients)

370 Welcome Baby - United Way (Visits)

860 Welcome Baby - Spanish (Visits)

1,904 Nurse Family Partnership (Visits)

Welcome Baby - Medicaid (Visits) **2,916**

Welcome Baby - Prenatal (Visits) **3,678**
(prenatal to age 5)



Home Visit Success Quotes - from staff

- Client decided to vaccinate baby and family members after being in program (previously anti-vaccinate)
- ...baby is meeting all developmental milestones
- The teen mom stayed in school!
- The mother started breastfeeding
- I was able to identify depression and link to resources
- It is great to see clients learn to set and reach goals
- The family felt empowered through the Baby Your Baby program to change their circumstances
- She now knows how to communicate openly...
- She is learning to make decisions that are the best for her baby

Zika Virus

surveillance for **113** individuals

2 zika cases

consultation with **500+** individuals/medical providers

Reportable Infectious Diseases

	2011-2015 Average	5 YR AVG	2016		5 YR AVG	2016		5 YR AVG	2016
Amebiasis	1.6	1	Hepatitis B	14.8	23	Pertussis	228.4	34	
Campylobacter	81	88	Hepatitis B - perinatal	13.6	6	Salmonella	63	63	
Chlamydia	868.8	1058	HIV (new cases) -	8	16	Shigella	4.2	10	
Cryptosporidium	18.4	48	Influenza - activity	329.6	486	Syphllis	13	21	
E. coli	22.4	26	Influenza - hospitalized	127	157	Tuberculosis - active	2.2	1	
Giardia	41.2	22	Legionellosis	2.2	4	Tularemia	0.4	0	
Gonorrhea	70.4	167	Lyme	7.6	2	Varicella (chicken pox)	61.6	61	
Hepatitis A	1.4	2	Measles	0.6	0	West Nile Virus	0.2	2	

Communicable disease staff track and investigate **84** reportable conditions

Immunization and Wellness Clinics

Cholesterol Screenings	2,038	Be Wise Heart Disease Screenings	2,012
Family Planning Visits	116	Malaria Prescriptions	533
Fluoride Prescriptions	390	Pregnancy Tests	249
General Health Exams	241	Sexually Transmitted Disease Screening	712
HIV Screenings	259	Skin Cancer Screening	254
HIV Screening (Travel)	39	Tuberculosis clients on preventative medication	76
Immigration Exams	946	Tuberculosis Skin Tests	4,914
Laboratory Tests	9,161	Women's Cancer Screening	2,034

5,350 healthy coaching sessions

725 health fairs attended by

7,545 offsite immunizations

39,315 onsite immunizations

27 School Nurses served F.T.E.

129,000+ students in

146 schools

School Nursing



41 School vaccine clinics
1,987 Vaccines distributed

Student to nurse ratio:



Alpine school district **1:6,397**
Nebo school district **1:4,812**
Provo school district **1:9,809**



Track and assist students with:
Diabetes **458** Asthma **2,338**
Seizures **545** Severe Allergies **1,687**
Other **2,270**



6,303+ Care plans completed
120,165 Immunization records reviewed



75,339 Student vision screenings
1,267 Prescribed glasses



602 Students with low income or no insurance assisted to receive FREE glasses with VSP coupons.

Immunization Records as of the First Day of School, by District*

	ALPINE		NEBO		PROVO	
	Adequately Immunized	Total Exemptions	Adequately Immunized	Total Exemptions	Adequately Immunized	Total Exemptions
Kindergarten School Entry	5465 / 97%	396 / 3%	2,426 / 95 %	96 / 3.8 %	1,081 / 96%	45 / 4%
2nd Dose of Measles (MMR)	77,586 / 99.6%	3,289 / 4.2%	33,853 / 99.9%	1,276 / 3.7%	14,353 / 99.8%	526 / 3.7 %
7th Grade Entry Boosters	5,852 / 94%	579 / 9%	2,446 / 99%	143 / 5.8 %	998 / 96%	43 / 4.1%

*At the end of the school year, 99.8 % of all students are compliant with immunization requirements.

Utah County student immunization exemption rate

4.8%

Emergency Response Planning

Trained clinical staff on responding to pediatric needs during disasters

Zika assessment and response plan completed

Critical response to algal bloom on Utah Lake

Counseling of individuals that have traveled to Zika affected areas

Assistance and support to prepare local hospitals for highly infectious diseases such as Ebola

Health department staff participate in an exercise testing dispensing and "throughput" capabilities

Public Information Officers and partners hold mock news conference during the Utah Transit Authority exercise



PUBLIC INFORMATION/COMMUNICATION



Public Information Officer, Aislynn Tolman-Hill, in the studio at ABC4 for a live interview

Established highly sought after student internship focused on health public information and communication



BYU intern, Chelsea preparing for flight over Utah Lake to take photos during algal bloom

Responded to multiple urgent concurrent response needs, including:



Utah Lake Algal Bloom
Zika Virus
Viral Meningitis
Hantavirus Death
Multiple rabid bats

Published over **1500** public health social media messages

Social media reach = **1,000,000+**

Produced the department's first professional quality video - about the algal bloom response. The 30 minute video is being used to educate public health staff, the public and decision makers.

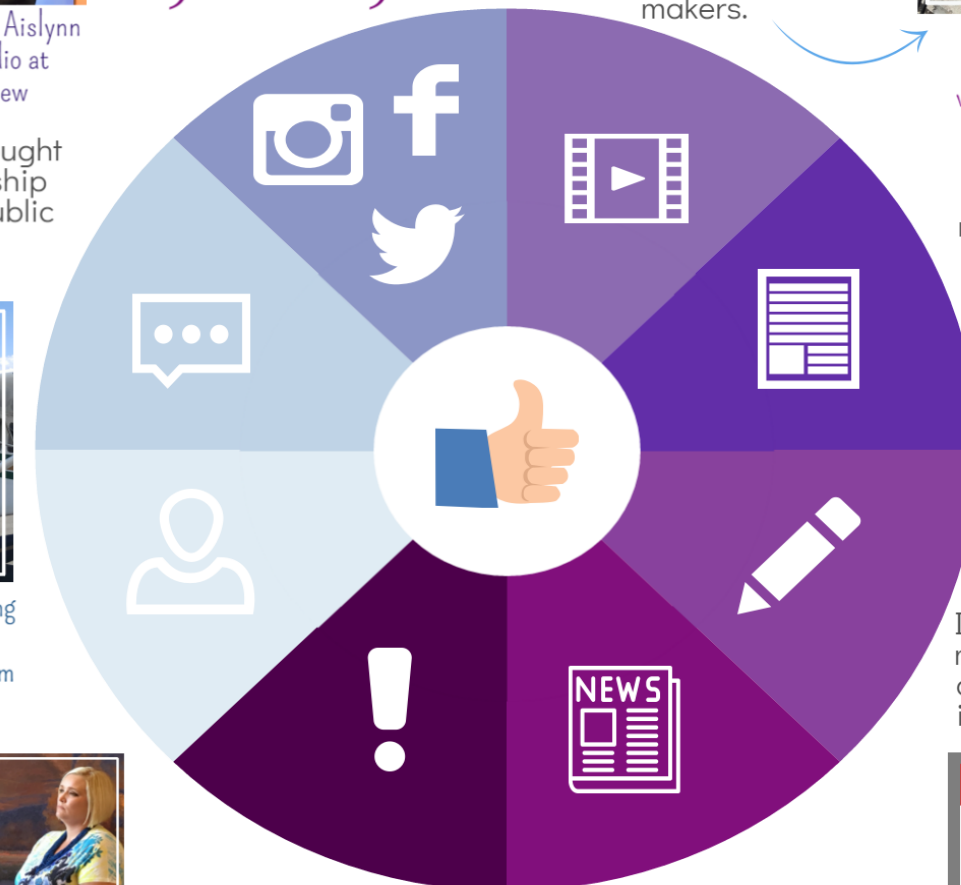
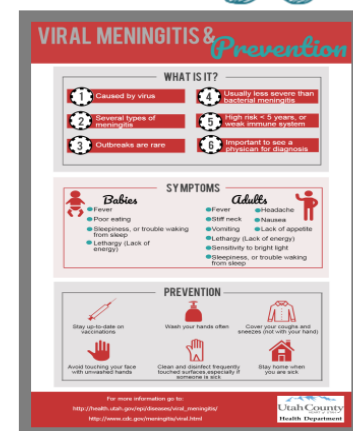


Environmental Health Bureau Director, Jason Garrett and videographer during interview filming for algal bloom video.

Developed innovative new annual report design



Implemented infographic marketing strategy, creating over **60** infographics



Provided

130+

media interviews



HEALTH PROMOTION

INJURY PREVENTION

Child Passenger Safety 35 car seat classes 206 car seats distributed 465 car seat checks 500 parents educated	Concussion Prevention 38 Key partners educated through prevention (coaches, nurses, rec centers)	Fall Prevention 110 older adults educated in 9 workshops	Hispanic Outreach 129 car seat checks 15,000+ estimated outreach
Utah County Safe Kids 17 activities 1200+ educated through various events	Poison Prevention 669 educated	Suicide Prevention 261 educated through training	

TOBACCO CONTROL & PREVENTION

Healthcare Providers 35 trained Health Fairs 2,304 educated Retailer Education 198 educated Youth END Classes (End Nicotine Dependence) 22 classes educated 138 youth	Baby Steps 12 "actively quit" women per month graduated from program  OUTRAGE! youth host Opinion Leader Dinner	Adult Cessation Classes 60 classes attended 184 attended Retail Compliance 560 compliance checks done with youth Other Outreach 4,180 educated	Policy 11 cities added electronic cigarettes to their parks codes 
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CHRONIC DISEASE PREVENTION

Living Well with Diabetes Workshops 61 participants educated in 5 workshops Partnered with Santaquin Pharmacy and Diabetes Center/Payson Rx Express Pharmacy, to start offering the National Diabetes Prevention Program.	Chronic Conditions Workshops 4 workshops educated 32 participants Worked with Provo City's Bicycle Committee which helped get Provo city recognized as Silver level bicycle friendly-community.	Top Star Program 3 new daycare centers endorsed ★★ ★★ ★★ 2 ★ 1 	Health Presentations Diabetes 16 educated Blood Pressure 15 educated Cholesterol 17 educated
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HEALTH PROMOTION

WORKSITE WELLNESS

Health Screening 533 participated Select Health Core Challenges 58% participation Awards Fit Friendly Platinum Worksite Award - American Heart Association Platinum Healthy Worksite Award - Utah Worksite Wellness Councils	Brown Bag Seminars 9 hosted Well 4 Life Recognition 40+ employees received the recognition from their directors	Select Health Share Program 50% participation 7th Annual Employee 5K 189 participated 
	NEW 1 Zumba class 1 Softball team 2 Volleyball teams	

ENVIRONMENTAL

Air Quality Award from EPA recognizing Air Quality Flag Program outreach  Provo fire stations featured on EPA's homepage for flag program 	Asthma Education 194 Attended "What to do if a Student has an Asthma Attack" Asthma Home Visit Program 30 families enrolled 65 home visits Participant Quotes "This is the best I have seen his asthma in the 16 years since we have been married." "We are happier! Life is different." "This program has made such a huge difference my my life...without it would I still feel lost."	Radon 460+ educated 320 home kits sold 41 in-home radon tests with NEW continuous radon monitor
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NATIONAL OLYMPIC DAY

		National Olympic Day event at Peaks arena for Utah County staff and families 	
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AMERICAN FORK OFFICE

Injury Prevention

Provided **101** car seat checks

Hosted **11** car seat classes

Vital Records

Provided **5,379** birth certificates

Provided **5,949** death certificates

Women Infants & Children

Served nearly **30,000** clients

Environmental Health

Served **400+** clients

Immunizations

Served **7,200+** clients

American Fork Office

Celebrates 5 years!!

FRIENDS OF PUBLIC HEALTH

Since 1995, when the first full week of April was declared National Public Health Week (NPHW), communities across the United States have observed NPHW as a time to highlight issues important to improving the health of the public.

As part of NPHW, Utah County Health Department and the Board of Health traditionally honor one individual and one organization for their efforts and dedication to the health and welfare of the citizens of Utah County. The 2016 honorees are Deanne Francis and the Brigham Young University Department of Health Science Department.



Deanne Francis

Commissioners Graves, Ellertson, Lee, Deanne Francis and Ralph Clegg

The Utah County Health Department and Utah County Board of Health would like to recognize Deanne Francis with our "Friend of Public Health Award" for her many years of dedicated and energetic service to the health of the residents of Utah County. A few of her numerous accomplishments include being the first prenatal educator in Utah County and the first advocate in Utah for getting fathers into the delivery room. She worked in the NICU for over 40 years, including many years serving as the Lactation Services Coordinator and as a member of the Intermountain Healthcare Corporate Lactation Standards Committee.

Deanne has also served as:

- Nursing Director for Utah County Volunteer Medical Care Outpatient Clinic.
- Medical Advisory Board for Utah March of Dimes
- Family Support Center Advisory Board
- Member of three Missionary Medical Advisory Committees in Pharmacy/Nutrition, Public Health, and Correlation for the LDS Church.
- For the last 8 years, she has served as the Chair of the Nurse Health Specialist Committee for the LDS Church. Oversee nursing committee responsible for maintaining contact with 300 nurses world-wide who are caring for 80,000 young and senior missionaries, many of whom are Utah residents.
- She has taught with her husband in Venezuela at 5 medical schools for the LDS Church Welfare Department.
- She has served humanitarian missions to 7 nations.
- Member of task force to open milk bank in Utah (Mountain West Mother's Milk Bank). Was very instrumental in getting a human milk bank established in Utah.
- Developed protocol for use of pasteurized human milk for gastric priming and the grant to cover the cost for four years. To show her dedication to the cause she even purchased, out of her own pocket, the first pasteurized human milk used in Utah County.
- Developed a power point presentation for insurance companies and was instrumental in getting insurance coverage for breast pumps and pasteurized human milk for hospitalized infants.

In 2008 Deanne received the Utah Perinatal Association for Outstanding Service to Women and Newborns. In 2015 she received the Guardian Angel Award from Intermountain Healthcare.

For these efforts and many more, we are honored to recognize Deanne Francis with our Friend of Public Health Award for 2016.



BYU - Department of Health Science

Commissioners Graves, Ellertson, Lee, Rosemary Thackeray, and Ralph Clegg

The Utah County Health Department and Utah County Board of The Utah County Health Department and Utah County Board of Health recognizes the Brigham Young University Department of Health Science of with the "Friend of Public Health Award" for their many years of support of public health efforts in Utah County.

The BYU Health Science program has a long history of providing substantial support to the Health Department through committed, dedicated collaborative efforts. Professors provide professional development workshops to staff, graduate students provide valuable evaluation and analysis of programs and services. Undergraduate students devote thousands of productive hours as interns.

Graduate students meet with staff annually to review, plan and create evaluations for programs. They have suggested improvements for asthma, air quality, physical fitness, tobacco cessation, and injury prevention; suggestions that save valuable staff time. One project studied was the Baby Steps program, which helps pregnant women and their partners quit smoking.

Through collaboration with BYU, the program was able to innovate and make technological advances, allowing for improvements in program implementation, significantly increasing outreach to the target population and paving the way for others to do the same. In the Baby Steps program, where efforts directly affect the number of healthy babies being born, advances like these have a curative effect that will touch the lives of many as the program continues.

By understanding participants' views regarding program strengths and weaknesses, Baby Steps program staff can further tailor an already successful program to better meet the needs of Utah County's pregnant and postpartum women desiring smoking cessation services.

Graduate student work proved invaluable to the Utah Tobacco Free Alliance. All first year students conducted Health Impact Assessments geared toward the 2016 legislative session and tobacco cessation efforts. Students also met with individuals with opposing views. Information provided in assessments was extremely beneficial. Results were utilized to educate the policy leaders in our community.

We are honored to recognize Brigham Young University's Department of Health Science with our "Friend of Public Health Award" for the past support and look forward to a long relationship going forward.

CONTACT US!

Follow Us
www.Utahcountyhealth.org

Utah County Health Department complies with applicable Federal civil rights laws and does not discriminate on the basis of race, color, national origin, age, disability, or sex.