

Mohave County Department of Public Health

ANNUAL REPORT FY 2011



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Our Mission

To create and promote a safe and healthy community for our citizens and visitors



Our Strategic Priorities

- *Be prepared to respond to emergencies*
- *Support excellent customer service*
- *Enhance our ability to provide the ten essential public health services*
- *Provide effective public health communication*
- *Reduce disease and disability*

Our Vision

To be recognized as the most innovative, efficient, and effective public health agency in the State of Arizona

Our Values

- *Integrity*
- *Quality*
- *Fiscal Responsibility*
- *Responsibility (Accountability)*
- *Timeliness*
- *Professionalism*
- *Teamwork*
- *Resourcefulness*
- *Development*



Public Health
Prevent. Promote. Protect.



Our Challenge

The Mohave County Department of Public Health (MCDPH) works to protect our communities from a range of public health threats that include tuberculosis, HIV/AIDS, sexually transmitted diseases and other communicable diseases, food borne outbreaks, naturally occurring emergencies, and tobacco related disease.

MCDPH undertakes many activities in this challenge including: identifying health risks; detecting, investigating and preventing the spread of disease; promoting healthy lifestyles; preparing for and responding to public health emergencies; maintaining healthy communities through inspection and code enforcement; and informing the public on health issues.

The many programs in public health span environmental health to family planning; senior meals to immunizations; and emergency preparedness to nutrition for women, infants, and children. We participate in disaster planning and facilitate the staffing of shelters for people with special health care needs in the event of a disaster. We process the county's vital records for deaths, work with community groups for health projects, and educate the public regarding healthy behaviors such as nutrition and avoiding tobacco.

We have three district offices located in Kingman, Bullhead City, and Lake Havasu City and operate a part time office in Colorado City and a Senior Nutrition Center in Golden Shores.

In July 2010, we received the National Association of City and County Health Officials and Centers for Disease Control and Prevention recognition as being certified through Project Public Health Ready (PPHR). PPHR is a competency-based training and recognition program that assesses preparedness and enhances local health departments to ability to respond to emergencies.



Board of Health & Department Organization

Board of Health

Phil Moon

Gary Watson

Robin Gordon

Steve Greely

Doug Haslan

Kathy Bruck

Dr Lehi Barlow

JoAnn Unruh

Vacant

DIRECTOR

Patty Mead

ADMINISTRATION

Jennifer McNally - Assistant Health Director

Account Specialist - 2

Office Specialist - 1

PUBLIC HEALTH NURSING

Christy Bronston - Manager

Nursing Supervisor – 3

Nurse Midwife – 1

Office Assistant – 5

Public Health Specialist – 6

Public Health Nurse, RN – 8.5

Program Coordinator, RN - 1

Paraprofessional Temp – 1

Clerical Temp - 2

NUTRITION & HEALTH PROMOTION

Deborah Conter - Manager

Community Nutrition Specialist Sr - 1

Community Health Education Spec Sr - 1

Community Health Education Spec I - 3

Community Health Education Spec II - 1

WIC Eligibility Worker - 8

Office Specialist - 1

Office Assistant Senior - 1

Office Assistant - 1

Temp WIC Breast Feeding Peer Counselor - 3

SECRETARY

Krista Gunnoe

ENVIRONMENTAL HEALTH

Rachel Patterson - Manager

Environmental Health Supervisor – 2

Office Supervisor - 1

Environmental Health Specialist I/II –8

Environmental Health Technician – 1

Permit Technicians – 4

SENIOR PROGRAMS

Rena Arnold - Senior Programs Coordinator

Site Supervisor – 2

Site Coordinator – 1

Senior Programs Assistant – 3

Cook - 3

Prep Cook - 2

Labor/Trades Temp - 3

BIOTERRORISM & EMERGENCY RESPONSE

Bruce Leeming - Program Coordinator

Epidemiologist - 1

Volunteer Coordinator - 1

Professional Temp Planner - 1

Financial Information

July 1, 2010 – June 30, 2011

Revenues

Federal Grants	\$2,499,510
AHCCCS Reimbursement	122,792
Fees from Services	1,505,310
State Grants & Contracts	784,978
County General Funds	1,470,848
Miscellaneous & Donations	345,339

Total Revenues \$6,728,777

Expenditures

Personnel Services	\$4,896,588
Operating Supplies	758,680
Other Charges/Services	1,072,850
Capital Outlay	12,949

Total Expenditures 6,741,067

Department Programs

Health Administration
Environmental Health
Environmental Health Technology Fee
Environmental Health Clean Up
County Nursing
County Nutrition
TB Control
Health Dept. Donations
Tobacco
Family Planning Title V
Family Planning Title X
Family Planning Title X HIV
Arizona Nutrition Network (LIA)
Women Infants & Children (WIC)
Newborn Intensive Care Program
Sexually Transmitted Disease
Immunizations
Commodities Supplemental Food Program
Preventive

HIV Prevention
Child Care Health Consultant
Oral Health
WIC - Breast Feeding Peer Counseling Program
Health Start
Teen Pregnancy Prevention
Folic Acid
Senior Volunteer Recognition
Smoke Free Arizona
Ryan White
Bioterrorism
Homeland Security
Public Health Emergency Response
Senior Programs - County
Senior Programs - Kingman
Senior Programs - Lake Havasu
Senior Programs - Golden Shores
Senior Programs - Bullhead

Public Health Preparedness



Our program continues to conduct planning and preparedness activities for public health threats and emergencies. We work with local health care organizations, emergency management and public safety to build an integrated emergency response system to achieve a high level of response capabilities to protect residents and visitors of Mohave County and to better recover from disasters.



Training, Exercises, and Response

One key activity of health departments will be their ability to receive, stage, and deploy supplies in a disaster. To gain proficiency in this requirement, we conducted a Strategic National Stockpile (SNS) and Receipt Staging and Storage (RSS) exercise March 30 - 31, 2011. We utilized our Medical Reserve Corps (MRC) and department staff to transfer our cache of supplies from locations throughout the county to our new warehouse. In April we participated in an Arizona Department of Health Services exercise, "The Surge After". This exercise was designed to: test communication systems between our department and local hospitals; track bed availability; and coordinate volunteer management. We also participated in the county-wide Praxair exercise through activation of our Department Operation Center (DOC) and coordination of patient care with local hospitals.

Public Health staff responded to two incidents during the year. In December, there was flooding along the Beaver Dam Wash and Virgin River. Environmental Health inspectors were sent to the area due to public health issues associated with septic systems and drinking water safety. Our DOC was activated during the time staff were in the field to coordinate their activities with the Development Services Operation Center. In April, our department received notification of a suspicious substance in Golden Valley. The BT Coordinator and a Public Health Nurse responded to the scene in accordance with state and local plans for suspicious substance incidents.



Temporary Planner Funding and Activities

In June 2010, we received an Arizona Department of Homeland Security grant to fund a Professional Temporary Planner position that is responsible for the following emergency preparedness activities:

- coordinate the development of Alternate Care Facilities/Medical Shelters in the county;
- work with the Medical Examiners Office to update the Mass Fatality procedure;
- manage the Medical Surge program for the county;
- coordinate the Memorandum of Understanding (MOU) project with participating county hospitals to coordinate response activities during a disaster;
- coordinate the Hospital Preparedness Committee; and
- develop a Medical Surge Program and Response Plan for the Western Region (LaPaz, Mohave, and Yavapai Counties) of the Arizona State Homeland Security system

In addition to funding for the Planner position, we received funding from the Arizona Department of Homeland Security for medical surge equipment needs in the Western Region. During a disaster or emergency that overwhelms the capabilities of local hospitals, local health departments are responsible for coordinating alternate care facilities. The funding enables health departments in each county of the region to address critical functions should an Alternate Care Facility be opened to provide medical services to their population. Our planner continues to work with the local health departments in the region to develop a program to augment hospitals during disasters and emergencies.

The MOU project was completed for Mohave County in June, 2011 and the agreement is in place between Kingman Regional Medical Center, Western Arizona Regional Medical Center, Havasu Regional Medical Center, and Valley View Medical Center.

Medical Reserve Corps

Medical Reserve Corps volunteers participated at many emergency preparedness and community events during the year including: the Mohave County Fair, the Lake Havasu Winterfest, Kingman Regional Medical Center's Kids Day health fair and immunization clinic, the Kingman Unified School District Family Involvement Fair, and the Havasu Stick'em health fair and immunization clinic.

In July and August, MRC volunteers assisted at back to school immunization clinics throughout Mohave County. They also provided the nursing division with clerical assistance throughout the year, including immunization follow-up phone calls. The Mohave County MRC volunteers donated over 1,600 hours during fiscal year 2011.



Environmental Health

Environmental Health is responsible for inspection of public places, enforcement of environmental laws and response to public nuisances in order to protect our communities from disease. The Division oversees many programs including: food safety, public and semi-public pools, RV parks, hotels/motels, pet shops, grooming parlors and kennels, septic systems, public nuisance complaints, campgrounds/children's camps, and school buildings.

Emergency "go-kits" were developed for field staff with funding from the BioTerrorism Program. These kits contain supplies that are necessary for emergency response including: disaster field manuals, first aid kits, flashlights, water purification tablets and filters, backpacks, coveralls, steel-toed boots, compasses, and many other items that are useful when responding to emergencies. Go-kits were utilized by staff who responded to the Beaver Dam/Littlefield flooding in December 2010.

In response to investigation of two rabid bats during the year, we obtained a DVD and developed information on bats that was sent to all schools in the county. The DVD is an educational video that the schools can use year after year.

Rating cards for food establishments were revised to make them color coded. This makes the rating cards stand out at establishments and easier for the public to recognize the rating a facility received.



EXCELLENT

This establishment was inspected by the Mohave County Environmental Health Division for compliance with the Arizona Food Code on

Date: _____ Permit # _____

At the time of inspection, no critical violations existed.

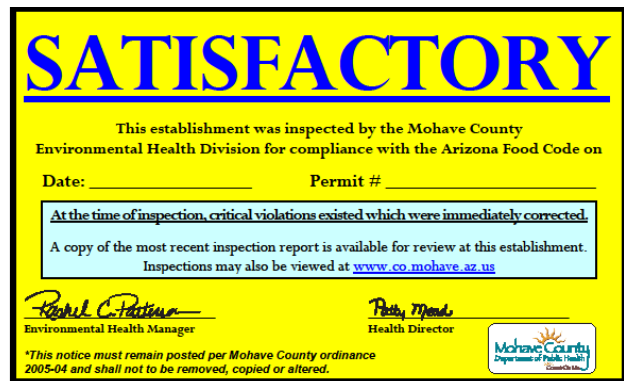
A copy of the most recent inspection report is available for review at this establishment. Inspections may also be viewed at www.co.mohave.az.us

Rebekah C. Patterson
Environmental Health Manager

Patsy Mendi
Health Director

Mohave County
Department of Public Health
Coconino, Mohave, Navajo, and Yavapai Counties

*This notice must remain posted per Mohave County ordinance 2005-04 and shall not to be removed, copied or altered.



SATISFACTORY

This establishment was inspected by the Mohave County Environmental Health Division for compliance with the Arizona Food Code on

Date: _____ Permit # _____

At the time of inspection, critical violations existed which were immediately corrected.

A copy of the most recent inspection report is available for review at this establishment. Inspections may also be viewed at www.co.mohave.az.us

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NEEDS IMPROVEMENT

This establishment was inspected by the Mohave County Environmental Health Division for compliance with the Arizona Food Code on

Date: _____ Permit # _____

At the time of inspection, critical violations existed that could not be immediately corrected. A follow up inspection will be conducted in accordance with the Arizona Food Code.

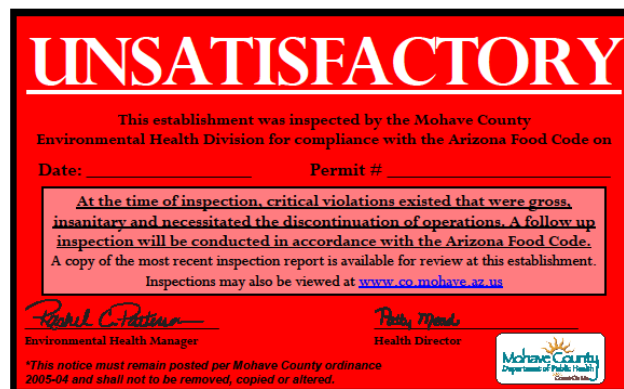
A copy of the most recent inspection report is available for review at this establishment. Inspections may also be viewed at www.co.mohave.az.us

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UNSATISFACTORY

This establishment was inspected by the Mohave County Environmental Health Division for compliance with the Arizona Food Code on

Date: _____ Permit # _____

At the time of inspection, critical violations existed that were gross, insanitary and necessitated the discontinuation of operations. A follow up inspection will be conducted in accordance with the Arizona Food Code.

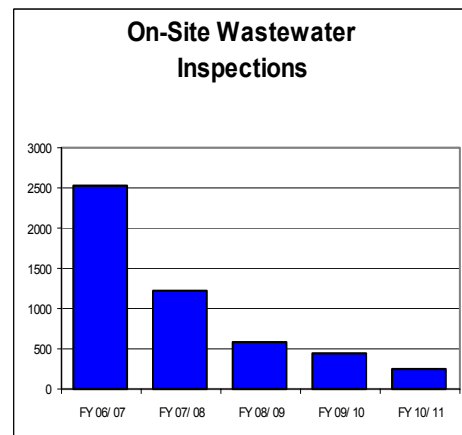
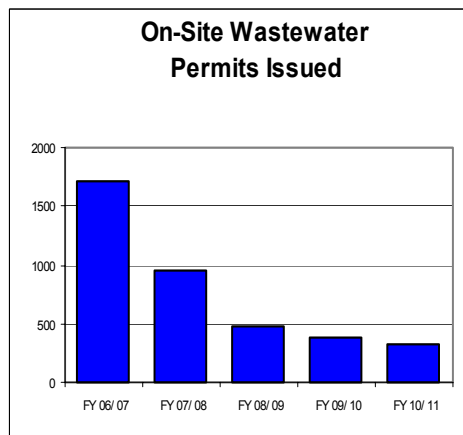
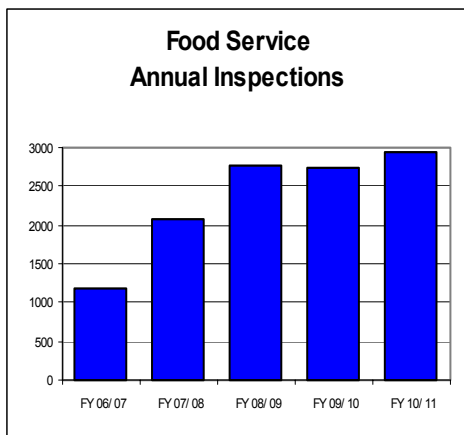
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In fiscal year 2011, the Division conducted 5,296 inspections in the various programs. While the number of annual food service permits has remained fairly constant, we have been able to increase the number of inspections conducted at these establishments. From 2008 to 2011, we have experienced a 41% increase in the number of food service inspections conducted annually.

The number of septic permits issued has continued to drop over the past several years. From 2008 to 2011, we have experienced a 66.3% reduction in septic permits (from 953 to 321). Due to the reduction in permits, we experienced a 78.5% reduction in inspections during the same timeframe (from 1209 to 260).

Nuisance complaints for land use have also continued to drop with a 31% reduction from 2008 to 2011 (from 739 to 508). Due to the reduced workload, the division has left 5.5 positions vacant and unfunded in these programs.

From 2010 to 2011, the Smokefree Arizona program experienced a 73% reduction in the number of complaints received (from 122 to 33) which has resulted in a 78% reduction in complaint inspections conducted (from 181 to 39). Therefore, our efforts have turned to education of the public and businesses. The division had a vacant inspector position in this program which was filled with a part-time employee who is responsible for conducting community outreach and education in accordance with the delegation agreement. From March - June 2011, 971 visits were made to businesses to explain the Smokefree rules, distribute signs and answer questions.

As part of the public health nuisance complaint program, the division conducted nuisance abatement at ten properties in the county at a cost of just over \$6,500. We received approximately \$30,281 in lien payoffs and \$38,165 in settlements; these were for liens placed prior to and including FY 11. A total of \$308,859 in liens remain against properties on which the division has conducted enforcement and abatement activities.

In efforts to make Division processes and requirements more clear and easily understood, we worked with legal counsel to revise legal notices for the nuisance complaint program. The Division also developed a brochure for the nuisance complaint program to help explain to property owners what steps need to be taken to resolve a nuisance. This brochure is included with all legal notices that are issued by the Division.

Environmental Health Statistics		
Food Service	FY 09/10	FY 10/11
Temporary Permits	386	340
Annual Permits	1380	1330
Annual Inspections	2744	2948
Food Handler Cards	4108	3239
On-Site Wastewater		
Permits Issued	385	321
Inspections	439	260
Pools/Spas		
Permits	271	263
Inspections	443	589
Kennels/Grooming		
Permits	63	58
Inspections	69	54
Hotel & Motel		
Permits	92	84
Inspections	129	92
Trailer Parks		
Permits	108	102
Inspections	116	115
Campgrounds/Children's Camps		
Permits	3	3
Inspections	3	3
School Buildings		
Permits	56	53
Inspections	65	74
Nuisance Complaints		
Number Received – land use	676	508
Inspections – land use	1551	995
Number Received – annually permitted establishments	307	243
Court hearings	54	40
Septic Haulers		
Permits	55	44
Inspections	61	20
Refuse Haulers		
Permits	93	92
Inspections	91	107
Wells (recommendation of approvals given to ADWR)		
Notice of Intent approvals	28	31
Smokefree Arizona		
Complaints	122	33
Inspections	181	39
Educational Visits		1393



Nutrition & Health Promotion

Special Supplemental Food Program for Women, Infants, and Children (WIC) & Breast Feeding Programs

Helping Families With Proper Nutritional Choices

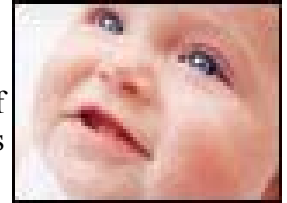
Eligible pregnant, breastfeeding and postpartum women, infants, and children to age 5 receive nutritional assistance. Benefits of the program include vouchers for specific nutritious foods, individual nutrition education and care plans, and referrals to health and social services.

In 2011, our program served approximately 4,500 clients per month. More than half of babies born in Mohave County are born to WIC mothers and about half of Mohave County infants and twenty five percent of children to age five are served by WIC. From October 1, 2010 to July 31, 2011, WIC vouchers redeemed at local stores totaled \$3,098,828.



Breastfeeding helps lower the risk of health problems for babies

According to the Centers for Disease Control and Prevention, research shows that if 90 percent of mothers breastfed exclusively for 6 months, nearly 1,000 deaths among infants could be prevented.



Breast feeding rates have traditionally been low in Mohave County and we would like to move closer to the Healthy People 2010 goals of 75% of women breastfeeding their babies at birth, 50% of women breastfeeding their babies at 6 months of age, and 25% of women breastfeeding their babies at one year of age. Through our Breastfeeding Peer Counseling Program, classes are available to clients along with the services of a board certified Lactation Consultant and peer counselors in Kingman, Bullhead City and Lake Havasu City.

Mohave County employs peer counselors to work with pregnant and postpartum women interested in breastfeeding. Each pregnant woman entering the WIC program is offered the opportunity to attend a breastfeeding class. Counselors are also available by phone to assist with questions and problems new mothers may encounter. In the last nine months, peer counselors have made 1,515 contacts with pregnant and breastfeeding women and 151 women attended breastfeeding classes.



Nutrition & Physical Activity Education
The Nutrition Network (formerly LIA)

Nutrition education is important to shape food consumption in a positive way, to promote health, and to reduce disease. Families who are eligible for the SNAP Program (food stamps) are provided with nutrition education in local schools, SNAP and WIC offices.

The program provided nutrition education to 6,600 children and their teachers. We also provide food demonstrations to promote healthy meals and food choices. These demonstrations were given to approximately 500 people during the year.

Commodity Supplemental Food Program (CSFP)

Proper nutrition is key to a healthy life. Through this program we provide 350 nonperishable food boxes to income eligible women, children to age six, and seniors 60 and older in efforts to improve their health. There is great demand for this program and we are currently serving the maximum number of clients.

Preventive Health and Health Services Block Grant

This program targeted youth to increase the amount of physical activity they received. However, this grant ended March 31, 2011 due to cuts in CDC funding.



Healthy Outcomes
Folic Acid Program

Folic acid is very important because it can help prevent some major birth defects of a baby's brain and spine by 50 - 70%. Since about 50% of pregnancies are unplanned, it is important that all women of childbearing age have sufficient folic acid in their body before they become pregnant and during pregnancy.

This program educates women on the importance of folic acid and provides vitamins to women at WIC clinics and at Nursing offices for Well-Woman check-ups. To date, the program has provided 1,900 bottles of vitamins to women of childbearing age.



Oral Health

This goal of this grant program is to provide more dental services to the underserved population in Mohave County. We contract with a registered dental hygienist to educate local dental providers about teledentistry and Affiliated Practice.

In August, 2011, the dental hygienist hosted a seminar for dental professionals in the county and an Oral Health Coalition has been formed which meets quarterly in Bullhead City to address the needs of our populations in the county.

Mohave County Tobacco Use and Chronic Disease Prevention Program

This year the Mohave County Tobacco Use Prevention Program's focus shifted to include chronic disease prevention and is now the Mohave County Tobacco Use and Chronic Disease Prevention Program. Two staff members attended training for the Stanford University chronic disease self-management program and will be offering a series of classes to county residents suffering from chronic conditions. The classes teach individuals to self-manage their condition through diet, physical activity, attitude and adhering to their medication schedule. Self-management programs have been shown to decrease medical costs and provide the patient with a better quality of life.

This year was a "phase-out" of our direct tobacco education in the schools with a shift to implement peer led education throughout the school districts. We began a planning phase for chronic disease assessment in our communities to determine our highest chronic disease rates. It was determined that we will first focus on training staff to teach self management techniques to improve chronic conditions and research data sets to monitor our local populations.

Mohave County Youth Anti Tobacco Coalitions

- ◆ Kingman Youth Coalition Beating Up Teen Tobacco (KYCBUTT) at Kingman High School, Kingman Academy of Learning
- ◆ Lake Havasu High School Youth Health Club
- ◆ Bullhead City's Fox Creek Junior High School (planning phase)

The goal is to reduce the early onset of youth tobacco use and exposure to second hand smoke. The youth coalitions participate in executive officer elections and are recognized as an official school club. The Mohave County Tobacco Use and Chronic Disease Prevention Program co-sponsors the clubs with a school club teacher. The students provide peer led education to elementary and middle school students on the dangers of tobacco use and secondhand smoke. Students participate in community events and activities such as parades, health fairs and sports events. They also participate in fund raising activities to support the club.

Other activities of the youth coalitions include: supporting the Arizona Attorney Generals Office by participating in the merchant compliance checks and education; adopting blocks within the city limits to maintain and keep trash free with pick up four times a year; and attending an annual statewide leadership conference. 14 youths and 3 chaperones attended the statewide leadership conference and two Mohave County students hold offices on the statewide youth leadership board. Mohave County Youth Coalitions are model programs that are mentoring the newly formed statewide youth coalition, Join the Movement.



KYBUTT teaching youth about the hazards of tobacco ingredients.



50 pairs of shoes represents the number who will die while the students are at lunch.



Signing PLEDGE WALL to be tobacco free.



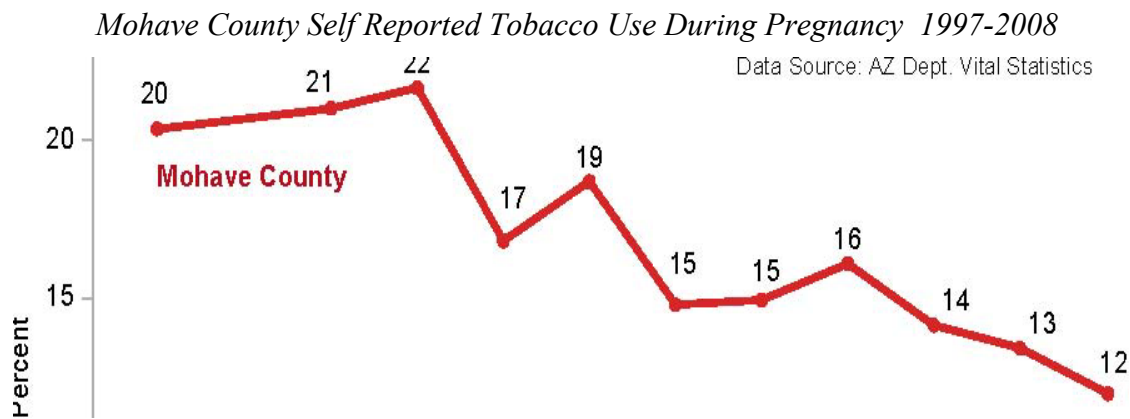
LHC High School Health Career Club attend statewide tobacco youth summit.

Smoke Free Mommy and Me (SFM)

The program promises healthier families today and tomorrow. SFM targets moms with babies to age three who are trying to quit and struggling to stay quit. It addresses the health risks of smoking during pregnancy, avoiding postpartum relapse, and lifestyle changes that promote healthy families. SFM offers a wide variety of educational sessions in nutrition, physical activities, and feeding and caring for children. There is both group and individual cessation coaching for pregnant women, postpartum women, spouses and other family members.



SFM offers diapers for incentives to stay quit. The program also supports and advances a collaborative relationship with ASHLine (Arizona Smokers Helpline), Mohave County healthcare providers and family health programs.



Mohave County had the highest rate of women who report smoking during pregnancy; 14.8% in 2003. Although our rates have gone down over the years, in 2005 we continued to have the highest rate in all of Arizona's 15 counties according to the Arizona Department of Health Services. Our county rate continues to remain elevated in comparison to other counties in the state.

Annual Smoke Free Mommy and Me results:

- 137 participants enrolled
- 33 attended one coaching session
- 71 attended two sessions
- 35 attended three or more sessions
- 58 recorded quit-date participants

Annual Activities

- ◆ 53 clients enrolled in the Quit Fit e-mail cessation program. They receive tips on how to quit smoking through e-mail. 24 reported they had quit smoking at the end of their program.
- ◆ 99 residents enrolled in on-site intensive cessation classes with 65 completing four or more sessions and 36 reporting they had quit at the final class.
- ◆ 12 healthcare professionals and 18 dental hygienists received Basic Skills Counseling training.
- ◆ Approximately 2,500 children in 4th - 6th grade received tobacco education and 250 9th graders were educated on the health risks of tobacco use.

Public Health Nursing

The division provides professional nursing services and programs for high risk populations. Many services are mandated in order to protect the health and safety of Mohave County residents and are free, regardless of household income.

The division experienced both grant and core public health nursing position vacancies throughout the year. These vacancies resulted in changing work priorities to ensure that the division was able to conduct the most critical functions, such as Tuberculosis Control and Communicable Disease Control, to prevent the spread of disease. As a result, some programs saw a reduction in the number of activities conducted.

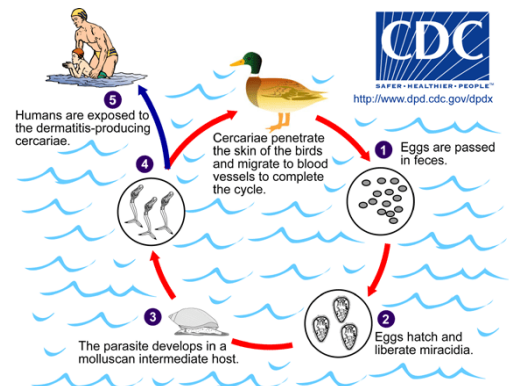
Communicable Disease

Communicable disease reporting is the cornerstone of public health surveillance and disease control. It allows us to locate and prophylax or treat exposed contacts, ensure effective treatment and follow up of cases, and alert the health provider community as necessary. The goal is to interrupt the disease transmission and contain outbreaks. During the year we conducted 1,241 communicable disease investigation; not including Tuberculosis.

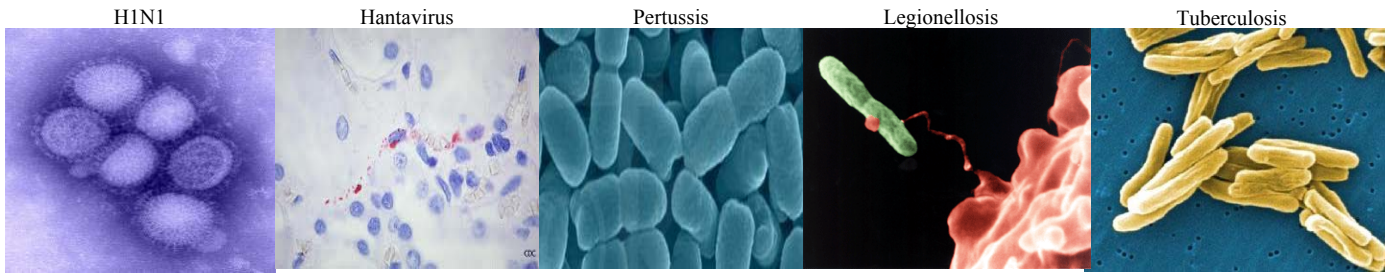
Special disease investigations

In addition to the “typical” disease investigations conducted by the Nursing Division, there were numerous special investigations including the following.

Complaints were received of visitors to Lake Havasu developing itchy rashes. Investigation into these complaints revealed that the individuals had swam in the same area of Lake Havasu during a certain span of time and many of the cases were believed to be swimmer’s itch (Cercarial Dermatitis). Swimmer’s Itch is a parasitic infection that manifests itself as tingling, burning or an itchy rash in areas of skin that have been exposed to infested waters. The symptoms appear within minutes or days after swimming, wading, or playing in the water. Swimmer’s itch is found throughout the world and is more frequent during summer months. Most cases do not require medical attention and are treatable with over-the-counter creams, lotions, or anti-itch remedies.



Rabies risk assessments and nursing guidance were provided to a number of people who contacted potentially rabid animals. Two bats at the center of two different investigations proved to be infected with the rabies virus. One bat was found “downed” and handled and cared for by a concerned 14 year old. The other bat was behaving unusually and bit an 11 year old. Post exposure prophylaxis was recommended in both cases and both required substantial coordination with respective local health departments in California.



There were numerous reports and health alerts regarding California’s historically notable outbreak of pertussis (whooping cough). MCDPH public health nurses investigated twenty suspect cases of pertussis in county residents. During the same time period in 2009, we investigated three suspect cases. Two of the twenty cases investigated were confirmed to be *Bordetella pertussis* infections by lab tests carried out at the Arizona State Public Health Laboratory. Both individuals had extensive contact with pertussis cases living in California.

During the fiscal year, public health nurses gained experience investigating lab-confirmed illness rarely reported in Mohave County. Malaria was confirmed in a member of the military who had served in the Middle East. Tetanus disease was also investigated in two residents. On average, 29 cases of tetanus are reported in the United States each year. Both Mohave County cases exhibited many of the signs and symptoms of generalized tetanus and both were hospitalized in the ICU. Almost all reported cases of tetanus in the U.S. are in persons who have either never been vaccinated, or who completed a primary series, but did not receive a booster in the preceding 10 years.

HIV Testing and Counseling

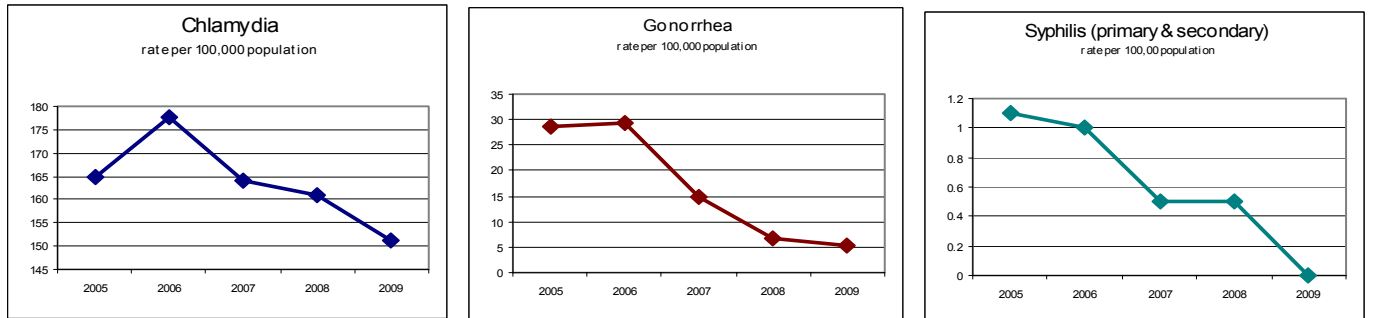
Funding for this program has been reduced 64.4% over the last decade; in 2003 we received \$55,649 and today we receive \$19,805 annually. Due to the current amount of funding, our program provides a “safety net” of service that allows those who have been exposed or concerned about exposure to be tested for a nominal fee.

Rapid testing services have been utilized for the past two years which allows for results in approximately 20 minutes. For individuals who test positive on the rapid test, blood specimens are collected and submitted to the Arizona State Laboratory for confirmation testing only. Results from ASL are typically provided within two weeks.

Sexually Transmitted Disease Program

Medical providers throughout Mohave County report cases of Gonorrhea, Chlamydia and Syphilis as required by Arizona Revised Statutes. Public Health Nurses contact clients to ensure completion of appropriate treatment and to refer contacts to local providers for testing, treatment and follow up.

Sexually transmitted disease rates in Mohave County have decreased in recent years. Case rates per 100,000 population from 2006 to 2009 have reduced 8.4% for Chlamydia, 81.2% for Gonorrhea, and 100% for Syphilis.



Tuberculosis (TB) Control and Treatment

TB disease is caused by a bacterium called *Mycobacterium tuberculosis* that usually attack the lungs, but it can attack any part of the body such as the kidney, spine, and brain. If not treated properly, TB disease can be fatal. To combat this disease, we work with a TB Control Officer to provide one-on-one case management for 6 to 12 months on every active TB case.

Case management includes Direct Observed Therapy (DOT) by nursing personnel whereby personnel watch the TB patient actually take their medication. It is extremely important that people with TB disease take their medicine exactly as prescribed and that they finish the medicine. If they stop taking it too soon, they can become sick again and if they do not take it correctly, the germs that are still alive may become resistant to those drugs. TB that is resistant to drugs is harder and more expensive to treat.

Public health nurses also respond to suspect cases of TB that result in considerable staff time to rule out active disease. Suspect cases are investigated and often receive medications for several months until the disease can be ruled out. During the fiscal year, 33 suspect cases were investigated with 22 of those cases on medication.

Maternal and Child Health

Reproductive Health (RH)

Reproductive health services are offered to both males and females in Bullhead City, Lake Havasu City, and Kingman.



In 2010, 91.3% of our clients were female and 8.7% were male. Services for men include sexually transmitted disease testing, counseling and treatment; testicular exams; and treatment for HPV. Most of the clients served were between the ages 15-44, 3% of our clientele were 45 or older, and 1.2% were 14 or younger.

HIV testing is provided to all reproductive health clients unless they opt out of the service. Rapid test kits are used for the testing to allow results prior to the clients leaving. This allows nursing staff to conduct timely counseling as necessary and to appropriately refer for necessary services.

Over the past four years we have seen a 52.65% increase in the number of unduplicated clients in our clinics (from 885 to 1351). The greatest area of increase has been in Lake Havasu and we have been able to offer two additional clinic days per month at that office.

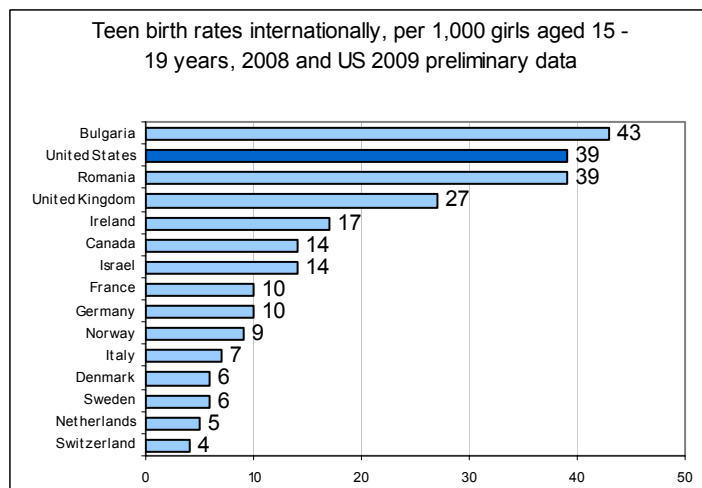
In order to ensure comprehensive services are provided to clients, the RH program coordinates with the STD, HIV, Health Start and Communicable Disease programs. We provide referrals to other county programs such as WIC, Smoking Cessation, and Community Development. As appropriate, we also refer clients to Mohave Mental Health, private physicians, Well Woman Health Check, Havasu Trust, and Community Health Centers.

Teen Pregnancy Prevention Program

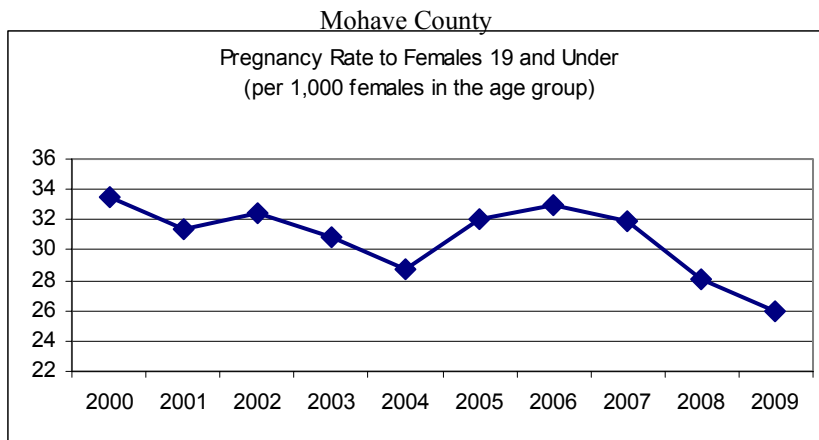
According to the Centers for Disease Control and Prevention (CDC), a total of 409,840 infants in the U.S. were born to 15 - 19 year olds in 2009, for a live birth rate of 39.1 per 1,000 women in this age group. Having a child during the teen years carries high costs - emotional, physical, and financial - to the mother, father, child, and community. Nearly two-thirds of births to women younger than age 18 and more than half of those among 18 - 19 year olds are unintended.

The CDC also cites that:

- Teen births represent 10% of the 4 million births each year.
- Teen birth rates in the U.S. are up to 9 times higher than in most other developed countries.
- Girls born to teen parents are almost 33% more likely to become teen parents themselves, continuing the cycle of teen pregnancy.
- About 50% of teen mothers get a high school diploma by age 22 compared with 90% of teen girls who do not give birth.
- Teen childbearing costs U.S. taxpayers about \$9 billion each year.



The Teen Pregnancy Prevention Program was established in 2008 to address teen pregnancy rates in Arizona and Mohave County. Communities in the county have an established advisory board that meets quarterly to provide insight on the need for services, feedback on effective strategies and resources, and advocate for the program within their communities. The program provides instruction for teens in local schools, the juvenile detention center and presents parent workshops at the Ft. Mojave Indian Social Service facility. The Teen Pregnancy Prevention Program has provided education to 2,000 students during the year.



Newborn Intensive Care Program

This home visitation program allows professional staff to visit high risk infants who have been in a newborn intensive care unit (NICU) unit for 72 hours or more following birth. We were previously able to expand our services to the LaPaz County community of Parker and to those clients who lived within 20 miles of the city limits. However, in 2010, we had a reduction in program funding and could no longer accommodate the travel expenditures to cover LaPaz County.



Immunization Program

Free immunizations are provided to children and adolescents seen during weekly immunization clinics. Immunizations provided include all vaccines recommended by the Advisory Committee on Immunization Practices and the American Academy of Pediatrics. The vaccine is provided through the Vaccines for Children program which is a federally funded immunization grant.

Childhood immunization clinics continue to experience large numbers of children requiring multiple vaccinations to enter school and/or daycare. Clinic numbers increase tremendously in the late summer as families prepare to send children back to school. On average, we see 65 - 85 children per day during these clinics.

The addition of the Immunization Nurse position in October, 2010, has enabled us to hold additional vaccination clinics in the community throughout the year. These additional clinics help to ease the influx of families requiring vaccinations at the county clinics. The additional clinics included:

- School located vaccine clinics for 6th grade students at five Bullhead City/Fort Mohave area schools in which over 110 students were vaccinated.
- Kingman Kids Day event at Kingman Regional Medical Center. In addition to vaccinations, we offered immunization record review and guidance and education on vaccine preventable diseases.
- Havasu Stick 'Em in Lake Havasu City. Over 300 immunization records were reviewed and 56 children received immunizations.
- Spring kindergarten registration events in the Mohave Valley area. Updated recommendations and education were provided to RN/Health Attendant staff, teachers and parents.
- School located vaccine clinics to a high school and elementary/middle school in the Mohave Valley area that was experiencing low immunization rates.
- We collaborated with our WIC program to focus on providing free Tdap immunizations for parents and caregivers of infants under six months of age and participating in the WIC program. WIC staff provided screening to potential vaccine recipients during WIC appointments in Kingman, Bullhead, and Lake Havasu and made referrals as appropriate.



	FY 04/05	FY 05/06	FY 06/07	FY 07/08	FY 08/09	FY 09/10	FY 10/11
Newborn Intensive Care Program							
Home visits	231	207	248	367	306	24	88
Communicable Disease							
Disease investigations	1,393	1,234	1,323	1,453	1118	1485	1241
Childhood Immunization Program							
Children vaccinated	5,816	3,898	5,612	7,006	6,994	4929	4159
Vaccinations given	13,955	13,090	20,406	18,541	19,121	13,822	13,921
Adult Immunizations Program							
Tetanus-Diphtheria	296	243	189	169	186	92	61
Hepatitis B	468	305	336	359	325	292	206
Hepatitis A	262	171	132	66	73	72	30
Varicella	8	25	43	17	41	24	69
MMR	108	179	147	115	201	85	118
HPV	--	--	1	4	44	21	3
Zostovax	--	--	10	155	157	63	26
Meningococcal	--	--	17	14	14	8	2
Influenza / H1N1	8,950	5,959	3,031	2,969	845	13,232	606
Pneumonia	650	1,016	328	620	41	15	26
Tuberculosis Control							
TB skin tests	1,712	1,149	1,207	1,657	1304	812	696
Latent TB infection	252	179	107	568	733	240	331
Active case visits	513	291	321	113	407	303	120
Active case	4	7	3	4	3	3	4
Chest x-ray/clinics	158	162	139	322	305	70	69
Primary Reactor Visit	88	60	59	164	114	37	45
Reproductive Health							
Pregnancy Tests	1,638	316	708	710	869	756	680
New/Annual visits *	1,185	971	889				1155
Unduplicated clients				885	1220	1376	1351
Sexually Transmitted Disease							
Clinic visits	394	150	76	126	133	138	86
HIV Counseling and Testing							
HIV tests	139	146	101	199	109	84	126
HIV post counsel	97	112	95	143	109	84	126
Health Start							
Visits	259	236	530	441	249	358	315
Teen Pregnancy Unduplicated Students						1962	2000
Ryan White						76	76
CCHC November 2010 thru June 2011							86

Senior Programs



Senior Programs provides congregate meals at senior center sites and home delivered meals via the “meals on wheels” program. The centers also provide support services, socialization, and education including: bridge, tax aide, legal aide, yoga, crafts, and exercise classes. Four senior centers served Mohave County with sites in Bullhead City, Golden Shores, Kingman and Lake Havasu City.

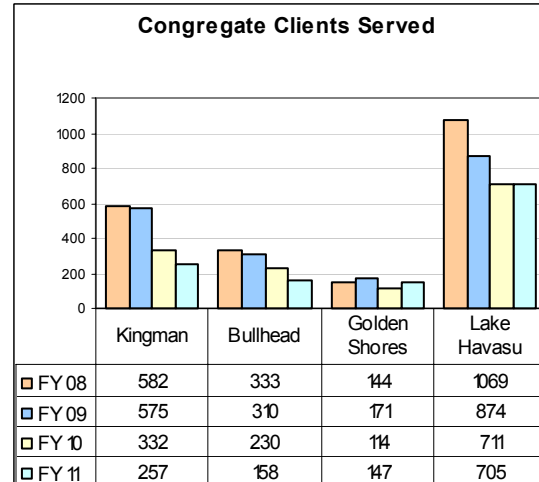
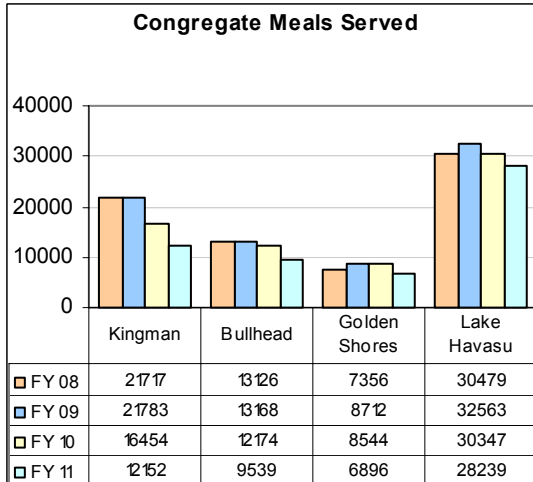
The Kingman site council obtained their non-profit status and was able to open a thrift store at the Kingman center during the year. The Bullhead and Lake Havasu non-profit organizations continued to operate thrift shops at those centers. The revenues are used to help pay for program expenses such as utilities, food, office supplies, equipment and repairs and are considered in-kind donations. The total amount of in-kind received in FY 2011:

1st quarter	\$16,678.57
2nd quarter	\$30,853.68
3rd quarter	\$42,947.75
4th quarter	\$39,557.51
<u>Total</u>	<u>\$130,037.51</u>

The general fund transfer to Senior Programs was reduced by 50% at the start of the fiscal year. This resulted in a reduction in funding of \$250,218 and a reorganization of the division. The Senior Programs Manager and temporary driver positions were eliminated, vacant positions were frozen, and hours were reduced for remaining positions at the centers. The reduction in staffing and staff hours resulted in the Kingman, Bullhead, and Golden Shores centers closing two hours earlier each day. The Lake Havasu Site Supervisor position was reclassified to Senior Programs Coordinator and assigned the responsibility of supervision of the other site supervisors as well as day-to-day operation oversight at the centers. Other managerial duties were distributed to the Health Director and Assistant Health Director.

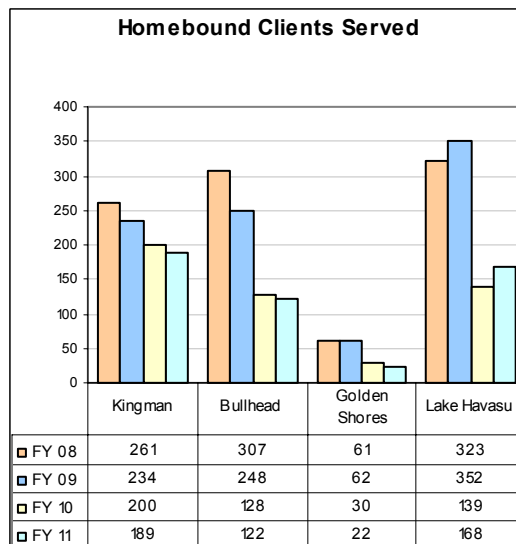
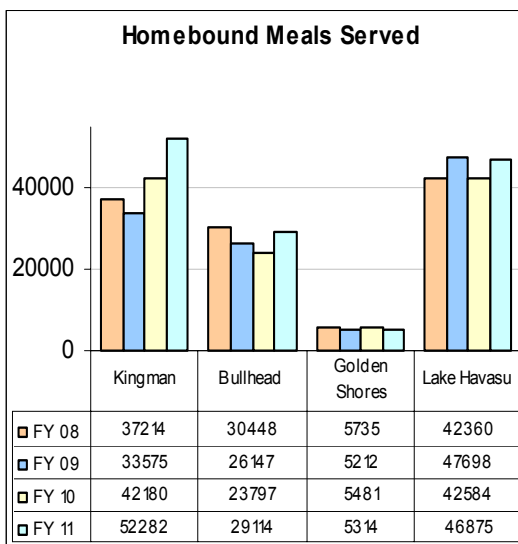
In addition to staffing changes in the program, other operational costs had to be reduced. The food budget was the main operational area that was reduced. This resulted in placing a cap on the number of congregate meals that could be served at the senior centers and the creation of waiting lists for congregate meals. The Lake Havasu Senior Center Non-Profit provided additional in-kind support to the center in order to avoid waiting lists for congregate meals at their center.

The Kingman, Bullhead, and Golden Shores centers saw a reduction in the number of congregate meals served by 26%, 22%, and 19% respectively compared to the previous fiscal year. The Lake Havasu center also saw a 7% reduction in congregate meals as some individuals (especially volunteers) opted not to receive a meal so others could.



While congregate meals declined, the number of home delivered meals increased. The Kingman, Bullhead, and Lake Havasu centers increased 24%, 22%, and 10% respectively. The WACOG grant provided an additional \$114,266.00 in funding during the fiscal year that enabled the program to handle the increase in home delivered meals and eliminate the waiting list for congregate meals at the centers.

Senior Programs served 190,411 meals to a total of 1,768 clients during fiscal year 2010-2011.



Socioeconomic* and Health Indicators

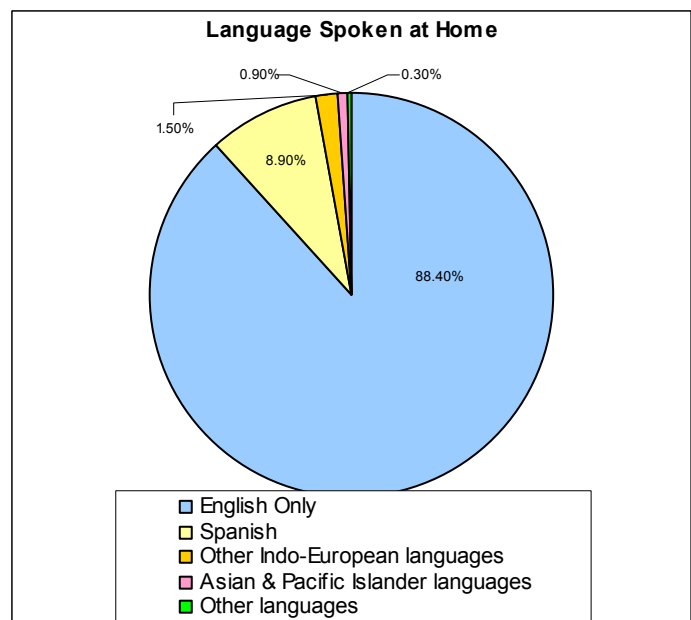
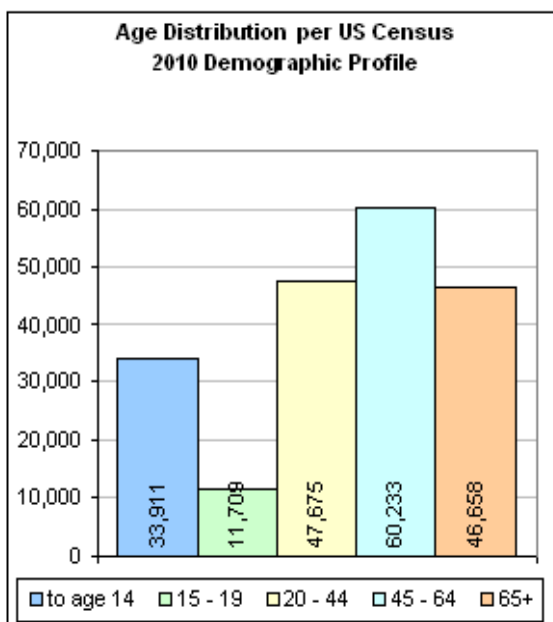
Mohave County Population

Bullhead City	39,540
Colorado City	4,821
Kingman	28,068
Lake Havasu City	52,527
Unincorporated	75,230
Total	200,186

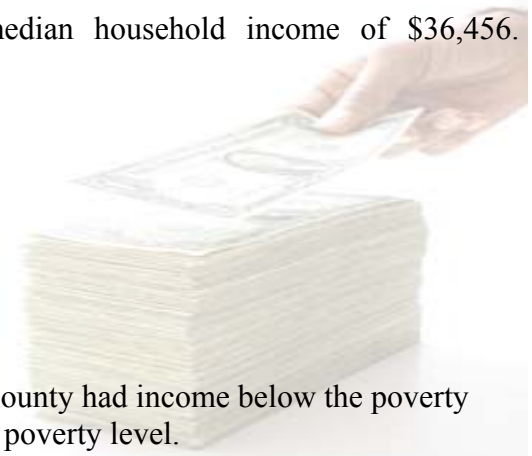
Of the total county population, 194,693 individuals reported they were of one race and 5,493 reported they were of two or more races. Those who reported one race were:

- White 173,878
- Black or African American 1,882
- American Indian & Alaskan Native 4,500
- Asian 2,103
- Native Hawaiian & other Pacific Islander 341
- Some Other Race 11,989

29,569 individuals reported they were Hispanic or Latino. Of these, 24,760 were Mexican, 721 Puerto Rican, and 272 Cuban and 3,816 Other.

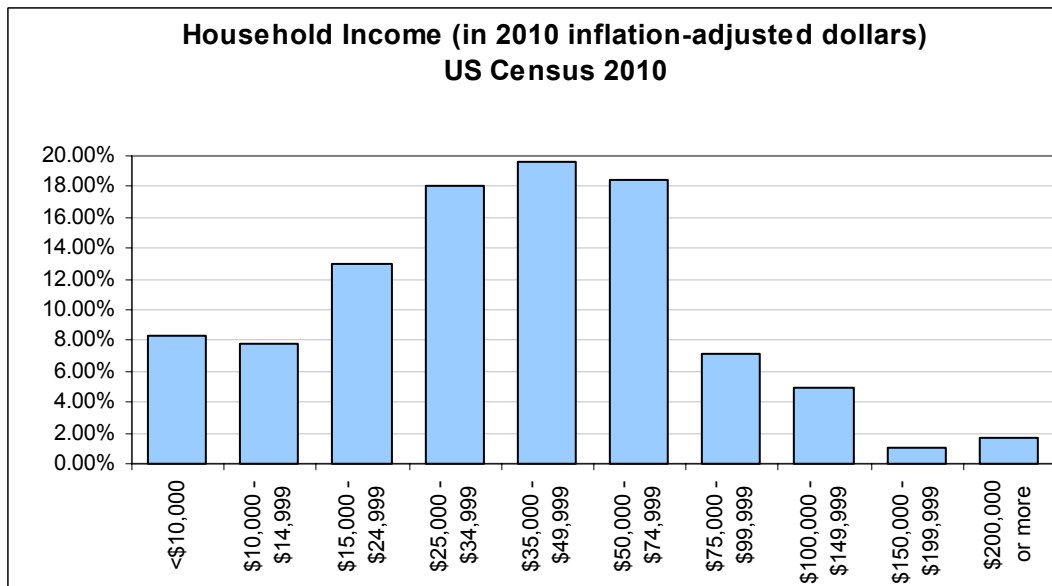


There are 82,166 households in Mohave County with a median household income of \$36,456. Households received their income from the following sources:



- Earnings 64.4%
- Social Security 45.7%
- Retirement 29%
- Supplemental Security Income 5.1%
- Cash Public Assistance 2.9%
- Food Stamps 15.1%

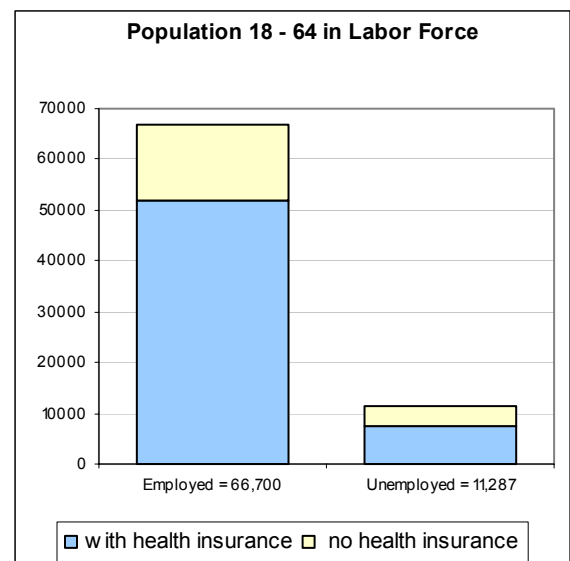
During the 12 months prior to the census, 12% of *families* in the county had income below the poverty level and 17.7% of all *people* in the county had income below the poverty level.



Health Insurance

Census data presents a “civilian noninstitutionalized population” of 198,223 in the county. 83.4 % of these individuals had health insurance coverage and 16.6% did not.

There are 77,987 county individuals ages 18 - 64 in the labor force. The chart on the right represents the employed and unemployed individuals in the labor force with and without insurance coverage:



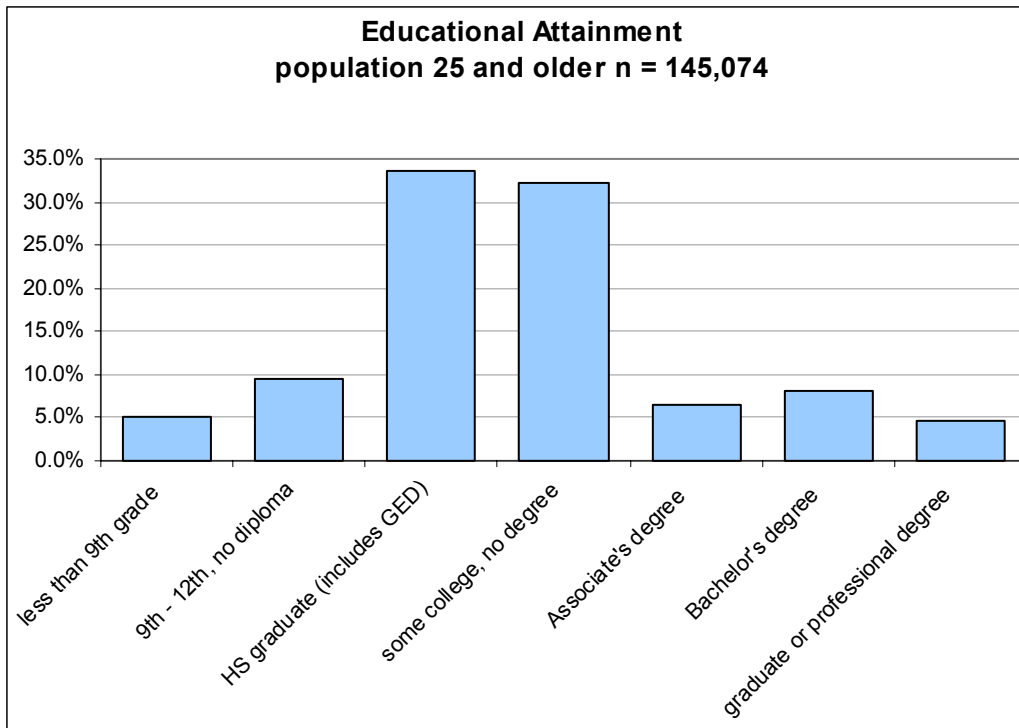


Education

There are 44,841 county residents 3 years of age or older and enrolled in school.

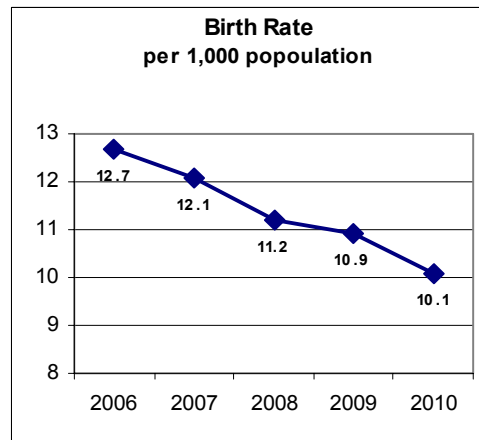
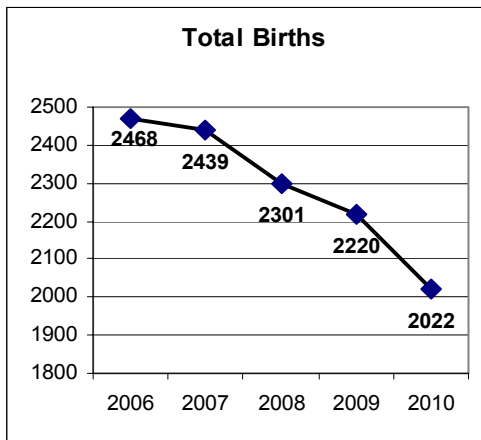
Enrollment	Percentage of Population
nursery school, preschool	6.30%
kindergarten	4.50%
elementary school (1- 8)	40.70%
high school (9 - 12)	21.40%
college or graduate school	27.00%

The population of the county age 25 and older is 145,074 and the educational attainment of these individuals is depicted in the chart below.

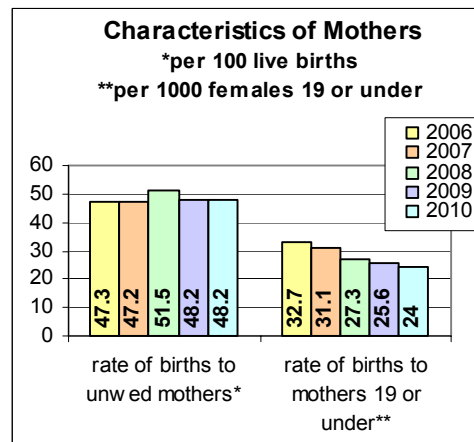
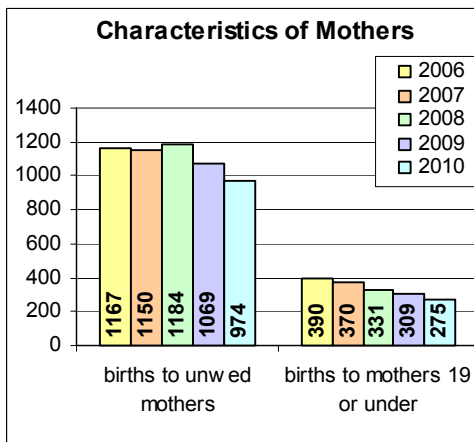


Health Indicators

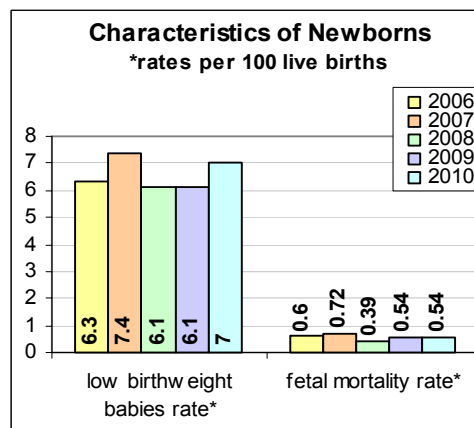
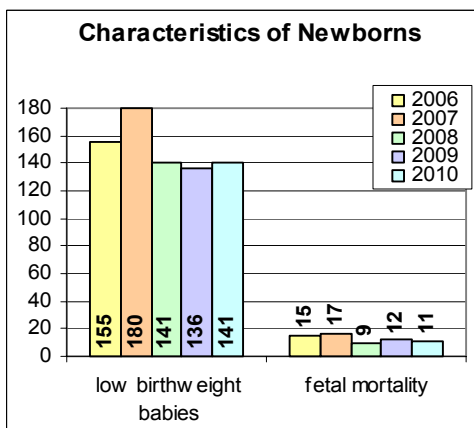
The total number of births and the birth rate in Mohave County have continued to decline over the past five years. The number of births has declined 18.07% and the birth rate has declined 20.47%.



While the *number* of births to unwed mothers had declined, the *rate* of births to unwed mothers has remained fairly constant. The number of births to mothers 19 or under, as well as the rate of births for this group, has decreased over the past five years; 29.49% and 26.61% respectively.



While the number of low birthweight babies has decreased over the past five years, the rate has increased; 9.03% decrease and 11.1% increase respectively. Although the overall numbers are low, both the number and rate of fetal mortality have decreased over the past five years; 26.66% and 10% respectively.

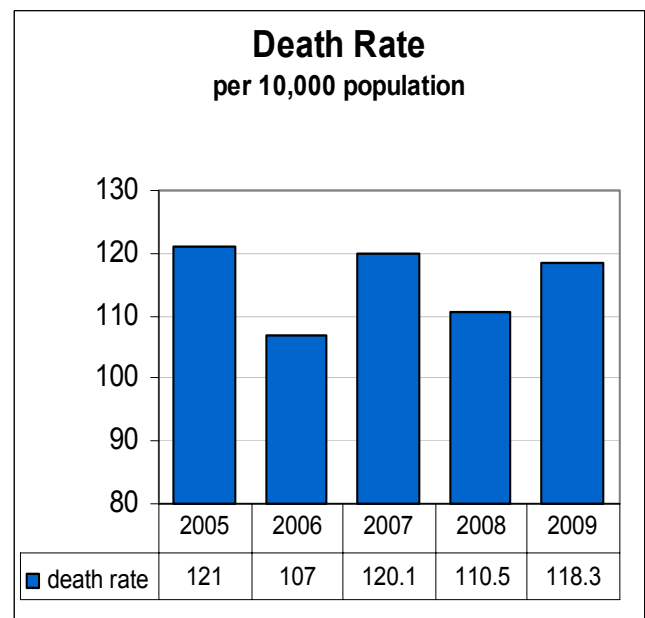
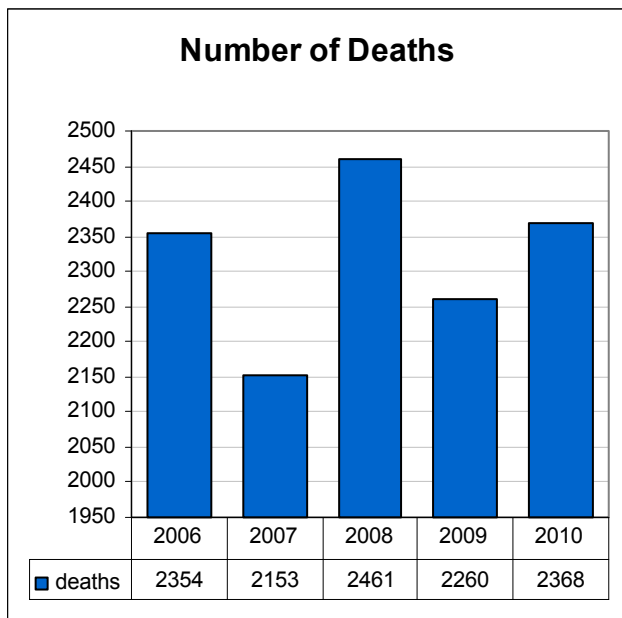


Patterns in Mortality

Vital Records

The Administration Division provides certified copies of death certificates for deaths that occurred from 2008 to present. We provide services to all county funeral homes for deaths that occurred in the county and provide mail and walk-in service to individuals who need certified copies of death certificates for deaths that occurred in Arizona.

There were 2,368 deaths in Mohave County in calendar year 2010 and staff processed 18,175 certified copies of death certificates.



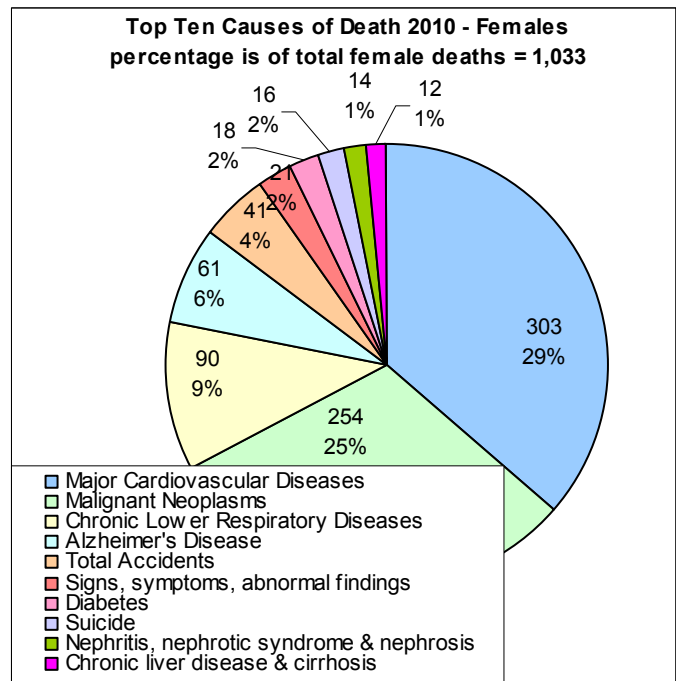
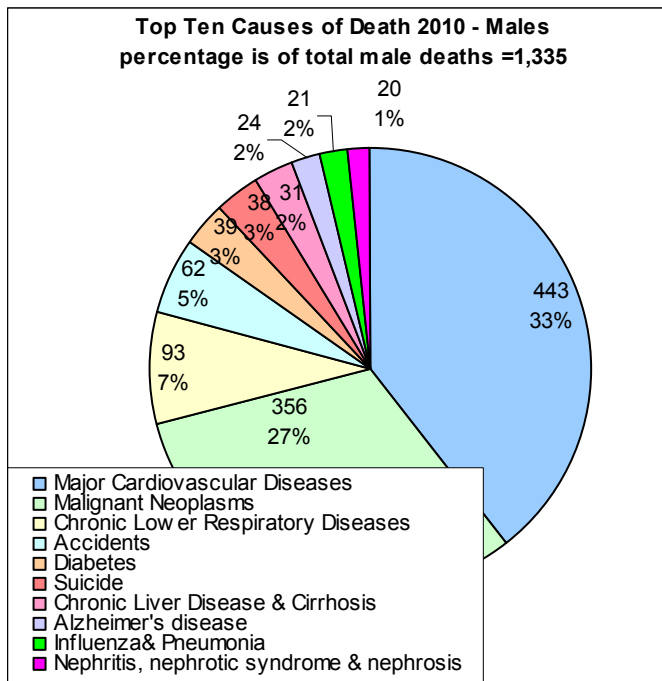
Of the 2,368 deaths in Mohave County in 2010, the top ten causes of death were:

	number	% of total deaths
major cardiovascular diseases	746	32%
malignant neoplasm	610	26%
chronic lower respiratory diseases	183	8%
accidents	103	4%
Alzheimer's disease	85	4%
diabetes	57	2%
chronic liver disease & cirrhosis	43	2%
symptoms, signs, abnormal findings	38	2%
nephritis, nephrotic syndrome & nephrosis	34	1%
influenza & pneumonia	32	1%

Of the 610 deaths related to malignant neoplasms in the county, the top five types were:

1. Trachea, bronchus, lung 31%
2. All other and unspecified 11%
3. Lymphoid, hematopoietic & related tissue 9%
4. Colon, rectum, anus 7%
5. Breast 6%

The top three causes of death of males and females in the county were the same: major cardiovascular disease, malignant neoplasm, and chronic lower respiratory diseases. Of the remaining top ten causes of death, the areas in which males and females differed were: males included influenza and pneumonia and females included a category of signs, symptoms, abnormal findings.





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