

**MOHAVE COUNTY DEPARTMENT OF PUBLIC HEALTH  
ANNUAL REPORT  
FISCAL YEAR 2009 - 2010**

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# **BOARD MEMBERS**

## **BOARD OF SUPERVISORS**

Tom Sockwell, Chairman  
District 2

Gary Watson, Member  
District 1

Buster Johnson, Member  
District 3

## **COUNTY MANAGER**

Ron Walker

## **BOARD OF HEALTH 2009 - 2010**

Phil Moon  
Chairman

Steve Greely  
Vice-Chairman

Gary Watson  
Board of Supervisor Member

Robin Gordon  
Member

Doug Haslan  
Member

Teri Wise  
Member

Margaret Nyberg  
Member

Kathy Bruck  
Member

Dr. Lehi Barlow  
Physician Member

## **HEALTH DIRECTOR**

Patty Mead, R.N., M.S.

## MOHAVE COUNTY PROFILE

Mohave County is geographically the second largest county in the state and has a population just over 200,000. Most of it is classified as desert, but of its 13,479 square miles, 186 square miles are water. The county has over 1,000 miles of shoreline and is a great water sports center with the Colorado River and Lake Mohave, Lake Havasu, and Lake Mead. Mohave County is situated in northwestern Arizona and is bordered by the states of Utah, Nevada and California and the counties of La Paz, Coconino and Yavapai. Mohave County has four incorporated cities: Bullhead City, Lake Havasu City, Colorado City, and Kingman (the County seat). The Mohave County Department of Public Health offices are located in Kingman, Bullhead and Lake Havasu with a senior nutrition site in Golden Shores and Nursing staff in Colorado City.

### July 1, 2009 Population Figures

(from Arizona Dept of Commerce Estimates)

Bullhead City	41,609
Colorado City	4,033
Kingman	29,189
Lake Havasu City	55,502
Unincorporated	76,429
<b>Total</b>	<b>206,762</b>

### 2009 Age Distribution

(from Arizona Vital Statistics)

<u>Age</u>	<u>Population</u>	<u>Percent of total</u>
<1-14	37,050	18.12%
15-19	11,977	5.86%
20-44	60,863	29.77%
45-64	52,468	25.66%
65+	42,111	20.59%
<b>TOTAL</b>	<b>204,469</b>	<b>100%</b>

## DISTRICT OFFICES

### Kingman

700 West Beale Street  
P.O. Box 7000  
Kingman, AZ 86402-7000

### Lake Havasu City

2001 College Drive  
Box 9, Suite 115  
Lake Havasu City, AZ 86403-1953

### Bullhead City

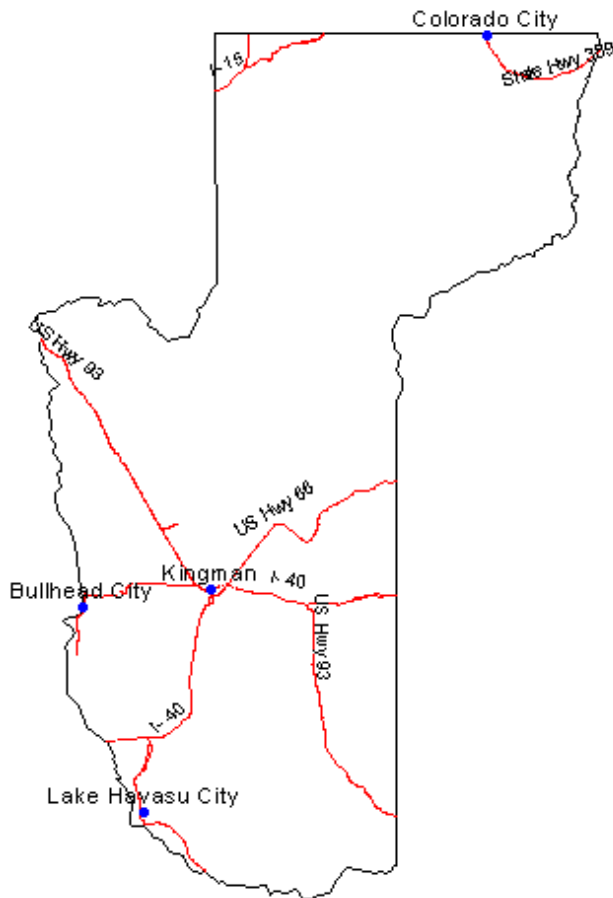
1222 Hancock Rd  
Bullhead City, AZ 86442-5940

1230 Hancock Rd  
Bullhead City, AZ 86442

## SATELLITE LOCATIONS

Golden Shores Senior Nutrition Site

Colorado City Clinic



## DEPARTMENT ORGANIZATION

The Mohave County Department of Public Health is administered through six divisions including Administration, Bioterrorism Defense and Emergency Response, Public Health Nursing, Environmental Health, Senior Programs, and Nutrition & Health Promotion. Each division (except Administration and BT Defense) has program sites in each of the County's major cities. The Department Director is responsible for the oversight of the department programs. The division managers are responsible for the implementation, management and operation of the programs in their division.

### **DIRECTOR**

Patty Mead

### **ASSISTANT DIRECTOR**

Jennifer McNally

Account Specialist – 2  
Office Specialist – 1  
*FROZEN* Office Assistant – 1  
*FROZEN* Office Clerk - .5

### **NURSING SERVICES MANAGER**

Christy Bronston

Nursing Supervisor – 2  
Nurse Midwife – 1  
Office Assistant – 5  
Public Health Specialist – 4  
Public Health Nurse, RN – 8.5  
Paraprofessional Temp – 1  
Community Health Educators – 1  
Clerical Temp - 2

### **ENVIRONMENTAL HEALTH MANAGER**

Rachel Patterson

Environmental Health Supervisor – 2  
Office Supervisor - 1  
Environmental Health Specialist I/II – 10  
Environmental Health Technician – 1  
Permit Technicians – 3  
*FROZEN* Permits Tech - 4  
*FROZEN* Env. Health Specialist I/II - 3  
*FROZEN* Env Health Technician – 2.5

### **BIOTERRORISM & EMERGENCY RESPONSE COORDINATOR**

Bruce Leeming  
Epidemiologist – 1  
Volunteer Coordinator – 1  
Professional Temporary - 1

### **SECRETARY SENIOR**

Krista Gunnoe

### **SENIOR PROGRAMS MANAGER**

Brad Bixler

Site Supervisor – 3  
Site Coordinator – 1  
Senior Programs Assistant – 4  
Cook - 3  
Prep Cook-3  
Labor/Trades Temp 7

### **NUTRITION/HEALTH PROMOTION MGR.**

Deborah Conter

Community Nutrition Specialist Sr – 1  
Community Health Education Spec. Sr - 1  
Community Health Education Spec. I - 4  
Community Health Education Spec. II - 1  
WIC Eligibility Worker – 9  
Office Specialist - 1  
Office Assistant Senior– 1  
Office Assistant - 1  
Part Time WIC Breast Feeding Peer Counselor - 4  
*FROZEN* Community Nutrition Specialist II - 1

## FINANCIAL INFORMATION

July 1, 2009 – June 30, 2010  
(from Mohave County Financial Services Budget Report)

### Revenues

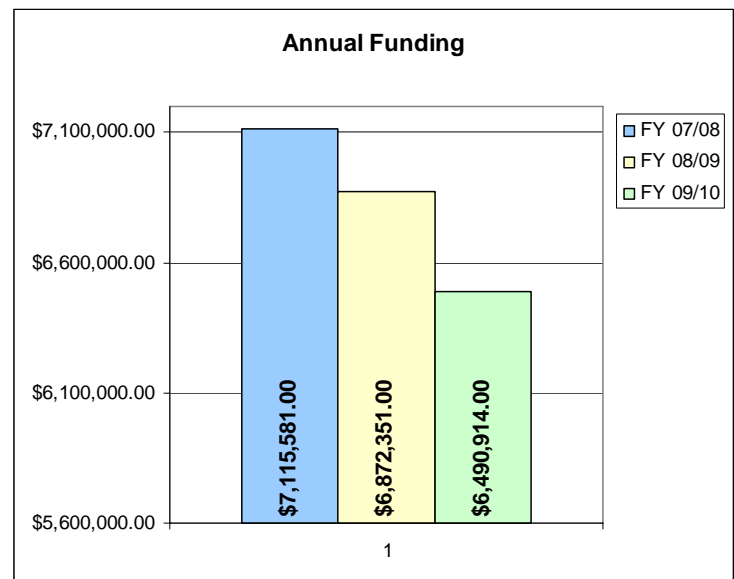
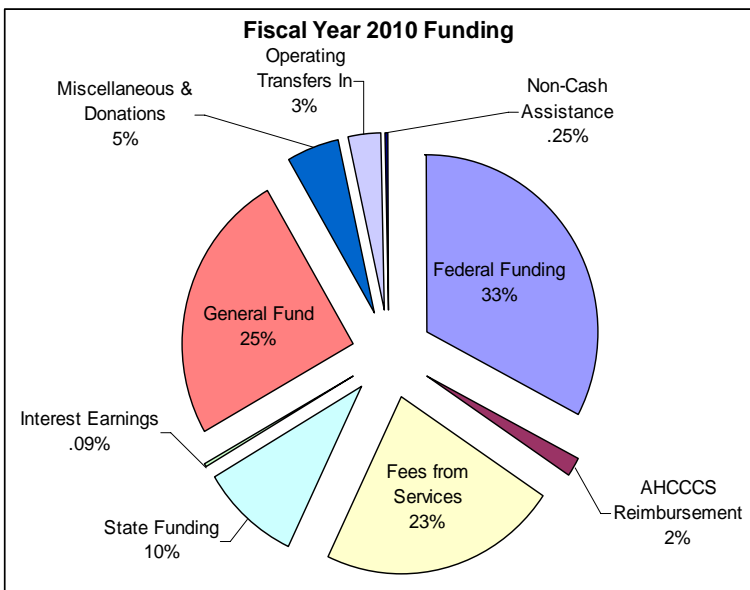
Federal Grants	\$2,123,969
AHCCCS Reimbursement	104,403
Fees from Services	1,461,294
State Grants & Contracts	624,685
County General Funds	1,628,133
Interest Earnings	6,102
Operating Transfers In	192,744
Non-Cash Assistance	16,686
Miscellaneous & Donations	332,898

**Total Revenues** \$6,490,914

### Expenditures

Personnel Services	\$4,926,197
Operating Supplies	741,655
Other Charges/Services	1,264,262
Debt Service	171,669
Capital Outlay	19,745

**Total Expenditures** 7,123,528



# DIVISION SUMMARIES

## ENVIRONMENTAL HEALTH

The Environmental Health Division (EHD) is responsible for inspection of public places, enforcement of various environmental laws and response to public nuisances. In addition, EHD is involved in the Mohave County Department of Public Health's (MCDPH) Emergency Response Team. EHD operates in accordance with the EH policies and procedures and receives authority through delegation agreements with the Arizona Department of Environmental Quality (ADEQ) and the Arizona Department of Health Services (ADHS). EHD's areas of responsibility include; food safety, public & semi-public swimming pools, RV parks, hotels/motels, pet shops, grooming parlors and kennels, septic pumper trucks, refuse haulers, on-site wastewater (septic systems), public nuisance complaints, wells, Smokefree Arizona, campgrounds/children's camps, and school buildings. As part of the food safety program, food handler education is offered.

During FY10 the on-site wastewater (septic) permits continued to drop in number. EHD issued 385 permits (compared with 484 last year) and performed 439 inspections. The Division has a total of 5.5 FTE positions frozen in the septic program due to the reduction in permits and to achieve some level of job security for existing staff. The food safety program has stayed consistent. This year 4,108 food handler cards were issued. 1,380 permits were issued, which is a 3% increase in permits over last year and 2,744 inspections were performed.

676 nuisance complaints for land use were received from members of the public; 1,551 inspections were conducted on these complaints with 54 cases taken to court. Complaints included nuisances associated with standing water, animal manure, trash/refuse, pigeon congregation and open sewage.

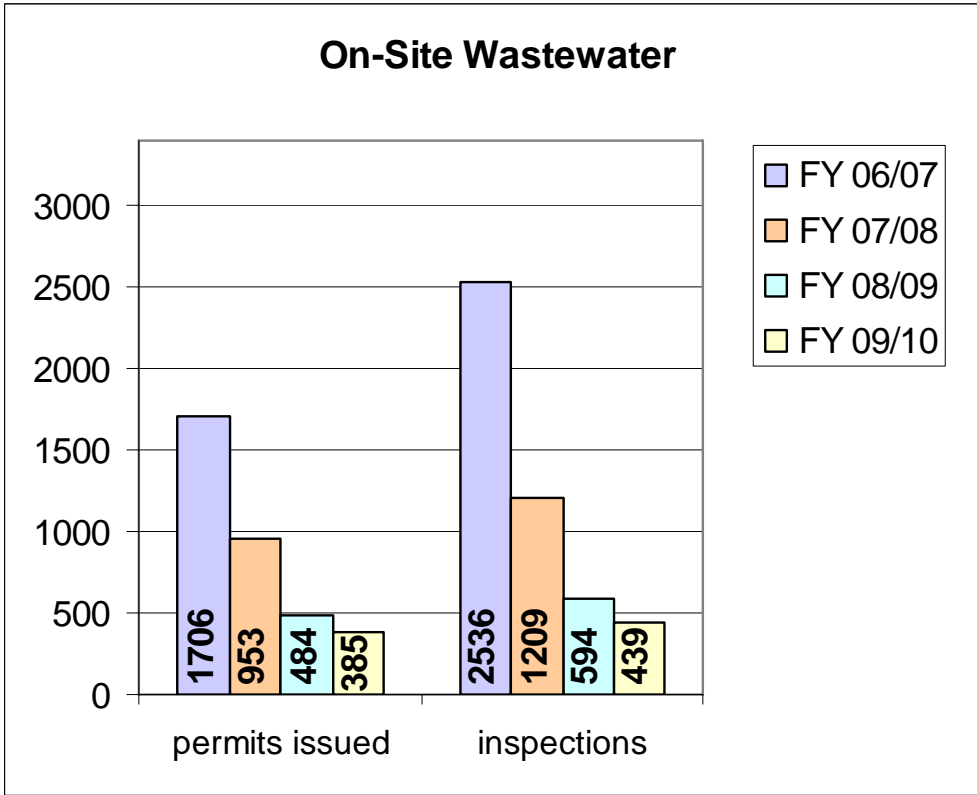
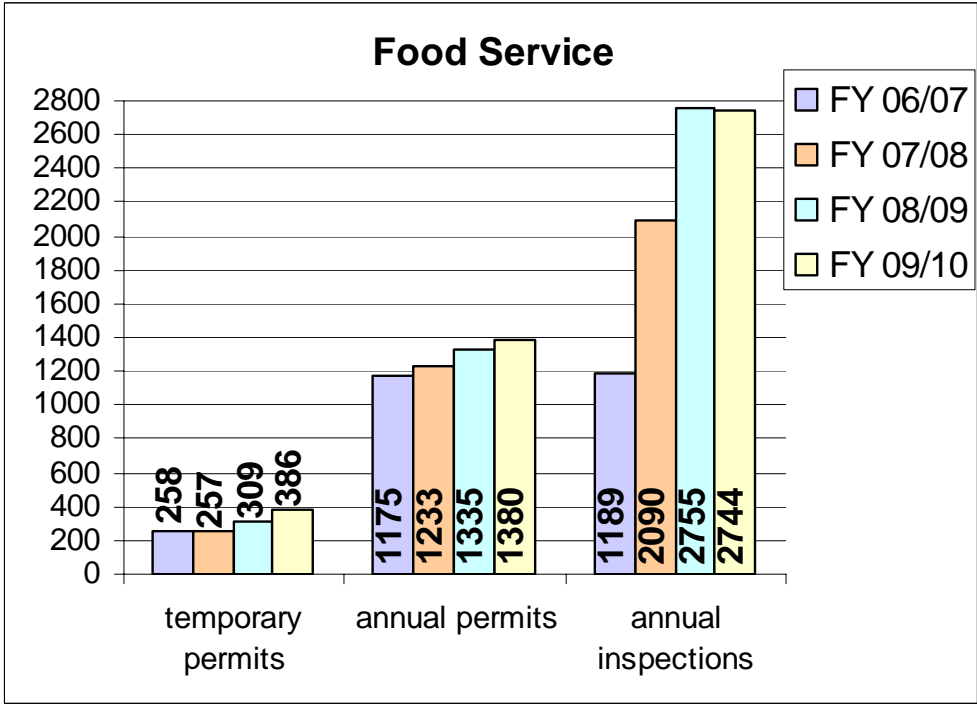
EHD is statutorily required to ensure abatement of public health nuisances. The division attempts to work with property owners to gain compliance on property clean ups. When this fails, the division arranges for clean up and places a lien on the property for the cost of the clean up plus civil penalties and any other associated costs. This year, EHD received approximately \$88,000 in lien payments which have been deposited in a fund for future clean-ups of properties. The fund balance was at \$126,056 at the end of FY10. Because response to public health nuisance complaints is an unfunded mandate, EHD has worked with Development Services, Public Works and the Office of Management and Budget to gain a funding source. This was achieved this past year with approval of a landfill surcharge (\$1.00/ton) of which the EHD received 50%. Staff time should be covered by this surcharge in the future.

In FY10, the EHD was requested to be on a kennel committee with the Sheriff's Office and Development Services. The goal of the committee was to bring all kennel regulations together with a new countywide kennel ordinance submitted to the Board of Supervisors in FY11.

Other activities EHD was involved in during FY10 include working on the Food and Drug Administration's Program Standards which is a food safety standardization program many jurisdictions take part in on a national level. Staff has completed three of the seven total standards. The Environmental Health Manager's participation in the subdivision committee and the General Plan committee was completed this fiscal year as well. The EHD was also able to move into the new Development Services building. This provided much larger workspaces for staff, a conference room and a lab which was not available in the past.

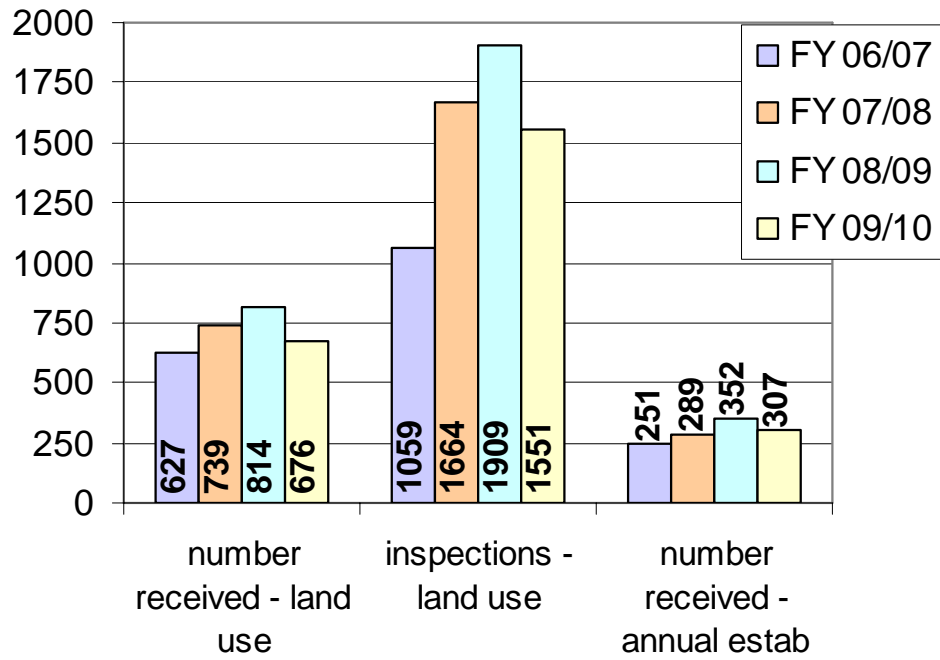
## STATISTICS BY CATEGORY

<b>Food Service</b>	FY 08/09	FY 09/10
Temporary Permits	309	386
Annual Permits	1335	1380
Annual Inspections	2755	2744
Food Handler Cards	4213	4108
<b>On-Site Wastewater</b>		
Permits Issued	484	385
Inspections	594	439
<b>Pools/Spas</b>		
Permits	271	271
Inspections	446	443
<b>Kennels/Grooming</b>		
Permits	61	63
Inspections	68	69
<b>Hotel &amp; Motel</b>		
Permits	90	92
Inspections	106	129
<b>Trailer Parks</b>		
Permits	106	108
Inspections	123	116
<b>Campgrounds/Children's Camps</b>		
Permits	4	3
Inspections	4	3
<b>School Buildings</b>		
Permits	53	56
Inspections	76	65
<b>Nuisance Complaints</b>		
Number Received – land use	814	676
Inspections – land use	1909	1551
Number Received – annually permitted establishments	352	307
Court hearings	80	54
<b>Septic Haulers</b>		
Permits	57	55
Inspections	56	61
<b>Refuse Haulers</b>		
Permits	90	93
Inspections	90	91
<b>Wells (recommendation of approvals given to ADWR)</b>		
Notice of Intent approvals	44	28
<b>Smokefree Arizona</b>		
Complaints	95	122
Inspections	100	181

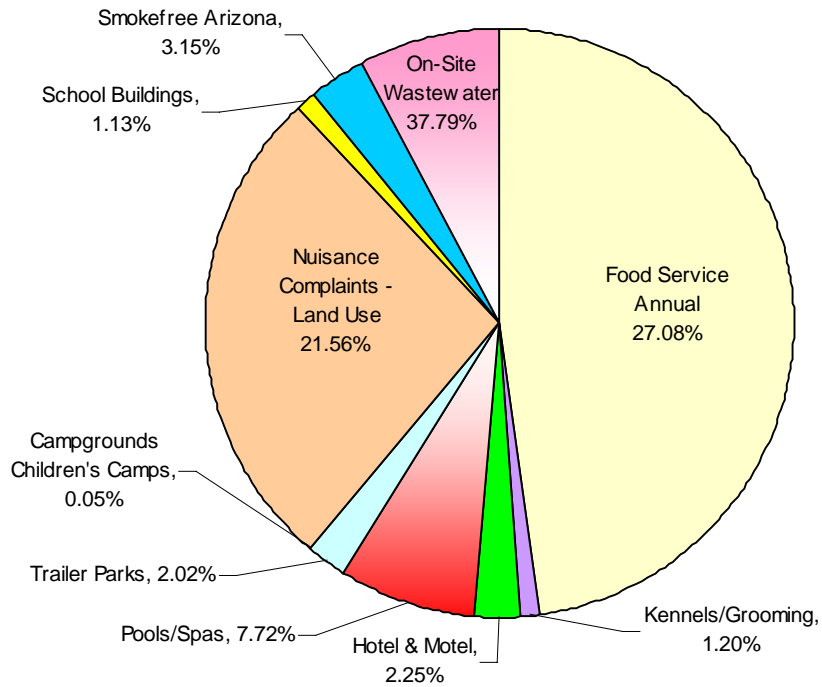


The number of on-site wastewater permits issued was corrected for fiscal years 06/07, 07/08 and 08/09 due to the inclusion of historical permit data entry in those years.

## Nuisance Complaints



## Inspection Percentage by Category



## **NUTRITION AND HEALTH PROMOTION**

The Nutrition and Health Promotion Division works to promote healthy lifestyle choices through a variety of food assistance programs, tobacco use prevention and cessation programs, nutrition education, and physical activity programs.

**WIC, the Special Supplemental Food Program for Women, Infants, and Children** contracts with the Arizona Department of Health Services to serve 4900 participants per month in Mohave County. More than 55% of babies born in Mohave County are born to WIC mothers. About half of Mohave County infants and twenty five percent of children to age five are served by WIC. WIC is a supplemental food assistance program for pregnant, breastfeeding, and postpartum women, infants, and children to age 5. Income eligibility is met by families and clients enrolled in Food Stamps and AHCCCS or who are at 185% of poverty. In addition to vouchers for healthy foods, the WIC program also provides individual nutrition education care plans and referrals to health and social services.

This has been a year of change for WIC. On October 1, 2009, a new food package was introduced which more closely addresses the nutritional challenges of today including increased obesity in both children and adults. New foods available to participants include fresh fruits, vegetables, and whole grains. WIC has also changed the method of delivering nutrition education. The new format is more personalized for the individual participant and uses adult learning concepts.

Due to the lack of jobs in county, many families have left the area and WIC participation has dropped by approximately 300. We have lowered our requested caseload from the state to reflect this change. Unfortunately, it means a reduction in funding for grant year 2011 which begins October 1, 2010. We have been able to adjust the WIC budget so all staff remain in their positions and will have more time to provide individualized, one-on-one education and services to the participants.

### **WIC Breast Feeding Peer Counseling Program**

Mohave County WIC was awarded a grant to initiate a breast feeding peer counseling program for WIC clients in Lake Havasu City, Kingman, Bullhead City, and Littlefield. 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. A peer counselor is often the ideal advisor because she offers more credibility to the participant than a professional.

Mohave County now employs four part time peer counselors to work with pregnant and postpartum women interested in breastfeeding. Each pregnant woman entering the WIC program is offered an opportunity to attend a breastfeeding class led by the peer counselor. Counselors are also available by phone to assist with questions and problems new mothers may encounter.

**The Preventive Health and Health Services Block Grant** is funded to reduce coronary heart disease by increasing the number of Arizona residents who get at least 30 minutes of physical activity on most days of the week. Grant activities have targeted physical activity programs for youth. Program objectives include working with 4<sup>th</sup> through 8<sup>th</sup> graders enrolled at local schools to encourage daily, moderate intensity, physical activity. Walking clubs for adults have become part of the program in recent years.

The focus of this grant is in transition this year. Each county receiving the grant is being asked to look at a variety of programs and choose a focus that will work best in our county to reduce coronary heart disease in coming years.

**The Commodity Supplemental Food Program (CSFP)** provides 250 nonperishable food boxes to income eligible women, children to age 6, and seniors. We had a drastic cut in caseload statewide. We have been forced to use a waiting list because we have many more applicants than we can accommodate.

**The Local Incentive Award (LIA)** is funded with State and Supplemental Nutrition Assistance Program Administration dollars through matching federal financial participation from the United States Department of Agriculture (USDA). The program provides nutrition education in local schools, Supplemental Nutrition Assistance Program (SNAP) offices and Woman, Infant, Children (WIC) offices. Curriculum includes healthy breakfast & whole grains for kindergarten and 4<sup>th</sup> grade, Fruits and Veggies More Matters for 1<sup>st</sup> and 3<sup>rd</sup> grade, My Pyramid for 2<sup>nd</sup> grade, and Building Better Bones for 5<sup>th</sup> grade. The importance of hand washing and food safety is taught to all kindergarten through 5<sup>th</sup> grade classrooms. Last year, 2200 children in Mohave County received this education primarily in Kingman, Dolan Springs, Topock, and Littlefield. Bullhead City and Lake Havasu City schools conduct their own education under separate LIA grants.

In addition to curriculum taught in the classroom, food demonstrations to promote healthy meals and nutrition education is provided monthly to SNAP and WIC offices. We also participated in two community events stressing the importance of increased fruit and vegetable consumption in a healthy diet.

**The Mohave County Tobacco Use Prevention Program (MCTUPP)** promotes the prevention of youth from using tobacco, supports youth and adult tobacco users to quit including pregnant women who smoke, and educates the community on the hazards of tobacco use and exposure. Our services are provided through multiple sources and subcontractors including local school districts, charter schools, local hospitals, youth coalitions, city agencies and after school programs. MCTUPP also educates businesses on implementing written tobacco free worksite policies and promoting smoke free home environments. We taught intensive and booster tobacco education to 5,384 youth county-wide in 4<sup>th</sup> and 6<sup>th</sup> grade and brief education to 600 freshmen. We participated in 220 community events reaching more than 60,000 Mohave County residents.

Kingman and Lake Havasu City youth participated in the Attorney General's Merchant Compliance Program which identifies local merchants that sell tobacco to minors. Lake Havasu City youth checked 21 merchants and 5 sold tobacco to minors and failed. The youth conducted compliance in Kingman and Bullhead City on 51 merchants, only 3 failed. The Kingman High School adopted the Kingman Youth Coalition Beating Up Teen Tobacco (KYCBUTT) as a school club, as did Kingman Academy of Learning High School. These anti-tobacco youth members participate in local and statewide activities to develop their leadership and communication abilities and team building skills. They also develop and conduct Peer-to-Peer tobacco education presentations to teach elementary and middle school age youth about the dangers of tobacco. They reached more than 3,500 youth and 7,000 community members. They promote their anti tobacco messages through various media venues, parades, health fairs, fund raising activities and sporting events. KYCBUTT planned, developed and offered a Youth Leadership Summit in Kingman with more than 50 local and statewide attendees. Twelve youth attended the statewide leadership conference, with two of our students winning the t-shirt logo contest.

We launched and piloted an email cessation program, Quit Fit. Our target audiences were young to middle age adults, 18 to 50 year olds. Sixty-five participants enrolled in program, 29 quit at end of session. Mommy and Me, 0-3 pilot program continues to educate and assist pregnant women to quit and remain quit for themselves and their families. Curriculum was developed, health care provider presentations conducted and 108 women enrolled in the program with 45 establishing quit dates. Kingman and Bullhead offered limited on site intensive cessation classes, 130 enrolled, 85 completed four or more sessions and 52 were quit at the last class attended.

Countywide healthcare providers were trained and given education materials and referral information to the Arizona Smokers Helpline, a statewide toll free telephone cessation coaching service. We provided 29 Basic Skills Cessation Training Certifications to dental hygiene students and Corner Stone Mission employees/professionals.

## **PUBLIC HEALTH NURSING**

The Nursing Division of the Mohave County Department of Public Health provides professional nursing services for high risk populations and is responsible for communicable disease control activities throughout the county. Many services are mandated in order to protect the health and safety of Mohave County residents and are free, regardless of household income. Other services are provided on a sliding fee scale basis and others are available at a low, fixed cost. Funding for Public Health programs comes from state and federal grants, fees, donations, and local and state revenues.

Public Health Nursing conducted 1485 infectious disease investigations in FY 10. The investigations included interviewing individuals, families and groups to identify exposure to disease and offering medications for treatment or prophylaxis when appropriate.

This past year has proven to be one of the most challenging for Public Health Nursing. The Nursing Division played a vital role in the implementation of the Public Health response to the H1N1 Pandemic. This afforded us the opportunity to work with many departments and external agencies, including first responder agencies, to address the threat of this novel influenza virus. Staff took on roles and responsibilities that we have not previously encountered. We have also experienced, first hand, the significant challenges of continuity of operations. The experience and knowledge gained has prepared our team to more appropriately address issues during large-scale events.

### **Newborn Intensive Care Program:**

The Mohave County Department of Public Health has provided the Newborn Intensive Care Grant Program throughout Mohave County since 1991. Since 2006 we have had the ability to expand our services to the La Paz County community of Parker and those clients who live within twenty miles of the city limits. This home visitation program allows professional staff to visit high risk infants that have been in the newborn intensive care unit (NICU) unit for 72 hours or more following birth.

In 2009, a total of 78 infants were enrolled in the NICP program in Mohave County, 36 live in Kingman, 16 in Bullhead City, 18 in Lake Havasu City, and 8 in La Paz County. Critically ill pregnant women and critically ill newborns were transported to appropriate level of care.

We have established partnerships with Good Samaritan Hospital in Phoenix, Phoenix Children's Hospital, Banner Health Medical Centers, St. Joseph's Hospital, and Sunrise Children's Hospital in Las Vegas Nevada. Through the partnerships, these hospitals refer NICP eligible children born at their facilities, whose family resides in Mohave or La Paz Counties, to our program. Unfortunately, the NICP program has been negatively impacted by recent budget cuts from ADHS. Additionally, in 2009, the nurse staff was allocated to respond to the H1N1 pandemic allowing only the extreme high risk infants to be evaluated during this period, thus reducing the number of visits we were able to conduct in FY 10.

### **Immunization Program:**

Free immunizations are provided to all children and adolescents that are seen during weekly immunization clinics in each of our four sites. These sites include Bullhead City, Lake Havasu City, Kingman, and Colorado City with children's immunization clinics held one day per week. Bi-monthly immunization clinics are also held in Littlefield-Beaver Dam in northern Mohave County.

The immunizations that are provided during these clinics include all vaccines that are recommended by the Advisory Committee on Immunization Practices and the American Academy of Pediatrics. The vaccine is provided to us through the Vaccines for Children program which is a federally funded immunization grant. This grant also helps to support the staff and supplies needed to provide these services.

As a public health department, we are often the provider of last resort and the fall back for children that either have no medical insurance, no medical home, a provider that does not give immunizations, and sometimes for children that have private insurance; however, their well child benefit has run out. In some cases we see children who are unable to get in to their private physician for an appointment and need immunizations for school or to ensure vaccines are received on time.

Our health department immunization clinics continue to see a large increase in children needing immunizations to enter school in the fall. Clinic numbers begin to increase in July and taper off towards the end of August. We have also seen a large increase in numbers in October for the last two years due to children being referred to our clinics by schools that are preparing for their annual school immunization reports.

Public Health Nursing continues to educate the community, parents, school health staff, and private medical providers about the importance of childhood immunizations. This education is provided during clinic visits, community health fairs, home visits, and with our private providers during disease investigation and requests for help from the providers on immunization issues.

Mohave County Department of Public Health performs assessments in the Spring and Fall each year which shows the percentage of children age 2 years of age that have completed all recommended vaccinations by their second birthday. As of September 1, 2009 the rate for Mohave County is 47%. This rate reflects those children seen in our clinics for the last recorded vaccine visit. Many of these children have seen other providers before attending our clinic or have never received any vaccines. Depending on the age of the child when they first attend our clinics it may not be possible to complete all recommended vaccinations before their second birthday.

We have a very aggressive reminder/recall program that we use to keep these children up to date and current. All children under 2 years of age receive one reminder post-card, two recall post-cards and follow-up phone calls from our staff and volunteers.

The completion rate for all children attending Kindergarten in Mohave County is also assessed each year. This percentage reflects the summary of all schools in Mohave County that submit an annual report in November each year. The rate is based on the required vaccines for Kindergarten entry for the state of Arizona. The current Mohave County rate for the school year 2009/2010 is 94%.

**Adults:** Tetanus-diphtheria vaccine is recommended every ten years and Hepatitis B, Hepatitis A, Varicella, MMR, and pneumonia are also available for a minimal fee. Meningococcal is available and recommended for those entering into college or universities. Zostavax and Gardasil vaccines are also available for adults.

**Influenza Vaccine:**

The Public Health Division offers free “flu” vaccine to children 6 months – 18 years. Typical flu season begins in November and runs through April in the western region of the United States. Clinics are held in Kingman, Bullhead, and Lake Havasu and usually begin early November. Pneumonia vaccine is also provided for a minimal fee for those with serious medical conditions and those over the age of 65.

**Communicable Disease Program:**

Registered Nurses and Epidemiologist coordinate with local physicians, Arizona Department of Health Services, and the Centers for Disease Control & Prevention to limit exposure and control the spread of infectious diseases. This includes identifying those who are infectious and their contacts, conducting laboratory testing, and providing immunization, medications and other disease control interventions when necessary. The public health nursing division also provides information to the public on health issues that may pose a public health risk.

During FY 09/10 year, communicable disease staff investigated 1,485 communicable disease reports, excluding Tuberculosis. In addition to the “typical” disease activities there were a number of special investigations conducted.

**Ryan White Care Program:**

Since 1996 Mohave County received Ryan White Title II funds to provide medical and supportive services to People Living with HIV/AIDS (PLWHA). The Ryan White Program allows clients who are positive for HIV/AIDS to receive medical care and medications to optimize and sustain quality of life. In 1999, MCDPH was awarded Ryan White Title I funding through the Las Vegas Eligible Metropolitan Area. This Title I funding has allowed Mohave County to expand the services available to eligible PLWHA. Las Vegas is the closest metropolitan area where clients can receive specialized care and a multitude of HIV/AIDS services. Providers of Mental Health and Substance Abuse Counseling are available through Ryan White Title I, which include the Community Counseling Center in Las Vegas. During this period we served 76 clients in this program.

**Tuberculosis Control and Treatment:**

Tuberculosis is on the decrease in other states, but Arizona continues with the steady number of TB cases each year. To help combat this disease, the Public Health Nursing Division, with assistance from the Mohave County TB Control Officer, provides one-on-one case management for each case of active Tuberculosis. This includes Direct Observed Therapy to ensure the health and safety of the public. Treatment for active Tuberculosis is recommended for 6-12 months.

During this past fiscal year, public health nurses responded to a large scale investigation of TB exposure. This investigation required a considerable number of nursing hours to control the disease outbreak in the exposed facility and community.

TB skin testing is provided for screening purposes and offered for a minimal fee. Those with positive skin tests receive counseling, a chest x-ray, and free medication, if necessary. A Registered Nurse and TB Control Officer closely monitor the progress of each patient on medication.

**Pregnancy Testing:**

Pregnancy testing is offered at all MCDPH clinics on a sliding fee-scale basis as early as fourteen days after a missed menstrual period. If not pregnant, clients are encouraged to return for family planning counseling. If pregnant, clients are offered options counseling regarding pregnancy and given appropriate referrals.

### **Reproductive Health (RH):**

Mohave County Department of Public Health has provided Reproductive Health services since 1995. The program is currently funded by Title V with funds from the Arizona Department of Health Services, Title X funds through the Arizona Family Planning Council and in kind support from Mohave County. The reproductive health services are offered through the southern part of the County including Bullhead City, Lake Havasu City, and Kingman. In 2009, we served 1,328 unduplicated clients at 100% of the Federal Poverty Level or below. Intervention approaches in our family planning clinic include counseling to guide appropriate contraceptive choices, counseling to minors about coercion, pregnancy testing and option counseling, standardized case management of pre-conceptional health and folic acid awareness to prevent birth defects.

The program is run in conjunction with other nursing health department programs including STD, HIV, Health Start, and Communicable Disease programs. We are able to refer clients to other Health Department programs such as WIC, Smoking Cessation, and to Community Development as needed. We also refer clients to Mohave Mental Health, private physicians, Well Woman Health Check, Havasu Trust, and Community Health Centers.

Mohave County has faced numerous obstacles that have plagued the rest of the state with the economic downturn. The closure of state labs, the labs not accepting specimens, the contracting of a new laboratory and IPP only funding testing for its target population has impacted our practice and our clientele. The H1N1 pandemic impacted our RH clinic as we had to close our extra Monday reproductive health clinics to help work at the H1N1 clinics.

### **Sexually Transmitted Disease Clinic:**

Chlamydia infection rates in Mohave County have increased. In 2000, Mohave County had a rate of Chlamydia of 81.3 per 100,000. In 2008, the rate increased to 161.0 per 100,000. Gonorrhea and Syphilis rates have remained consistent with the state averages.

Other risk factors that contribute to the need for these services through the reproductive health clinic include the rate of uninsured persons requesting services for STD and RH. In 2009, 100% of MCDPH clientele were uninsured. With 87% of this population falling at or below 100% of the federal poverty level and reporting sexual activity, substance abuse and other risk factors, there is a need for HIV screening services that are at no cost to this population.

### **HIV Testing and Counseling:**

Mohave County has been involved in HIV/AIDS Prevention and Surveillance since 1989. MCDPH has been the sole provider of HIV testing and counseling in Mohave County. This testing and counseling is provided in three locations: Lake Havasu City, Bullhead City, and Kingman. Funding for this program has continued to decline over the last decade leaving little funding for community outreach activities. Funding currently provides a "safety net" of service that allows those who have been exposed or concerned about exposure to be tested for a nominal fee. Appointment availability is limited due to few personnel and resources allocated to this program due to reduction of funds.

HIV testing and counseling is provided by appointment only for a minimal fee. Registered Nurses are trained and certified by the Arizona Department of Health Services to provide risk reduction counseling and testing for HIV. Testing is conducted using strict confidential procedures to ensure patient privacy. MCDPH has implemented rapid testing services which allow same-day results. Each testing session lasts approximately 20-30 minutes. Blood specimens are submitted to Arizona State Laboratory for confirmation testing only, with results provided within two weeks.

### **Health Start Program:**

The Health Start Program was started in Mohave County in 2001. This is a neighborhood outreach program that works with women who are pregnant, or think they may be pregnant, and their families to help them improve their health and the health of their families.

The purpose of the MCDPH Health Start Program is to optimize prenatal health, improve birth outcomes, enhance positive family interaction, and enhance and support child health, safety and development. The Health Start program provides services under the model of utilizing a Community Health Worker (CHW), or "Promotora" who provides access to information, resources, high-quality social support for pregnant families (teens and adults) and families with infants through 24 months of age. Home environment assessment tools are utilized to identify health and safety hazards as well as to enrich the family environment by ensuring age appropriate toys, books, and other resources are available for children.

Developmental screening is also provided in the program utilizing the Ages to Stages Questionnaire. The Health Start program provides the opportunity to refer clients and their families to preventive services like immunizations and family planning to address health disparities. Birth defects, infant mortality, and low birth weight babies can be reduced by encouraging pregnant women to eat healthier, seek medical attention earlier in their pregnancy, and stop smoking. The program offers services to families without charge regardless of family income and includes a follow-up period that is currently up to two years after the birth of the child.

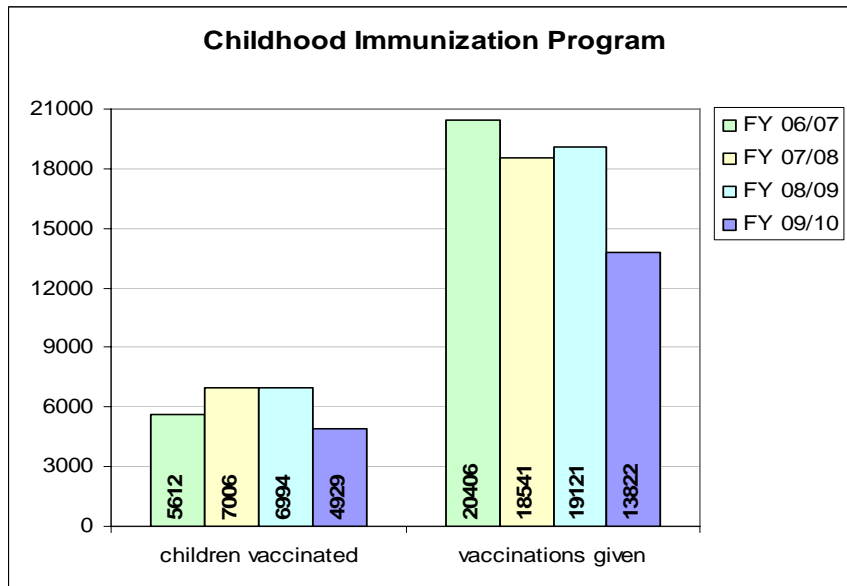
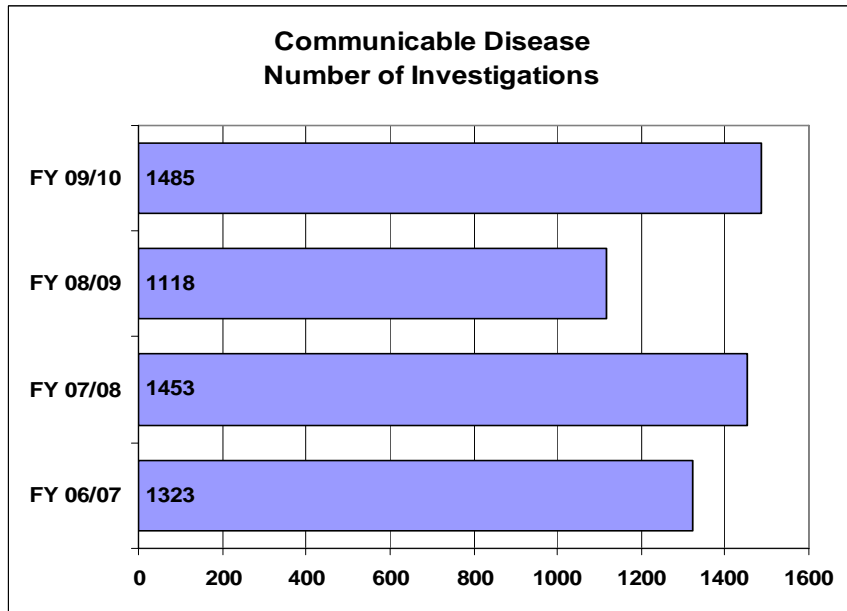
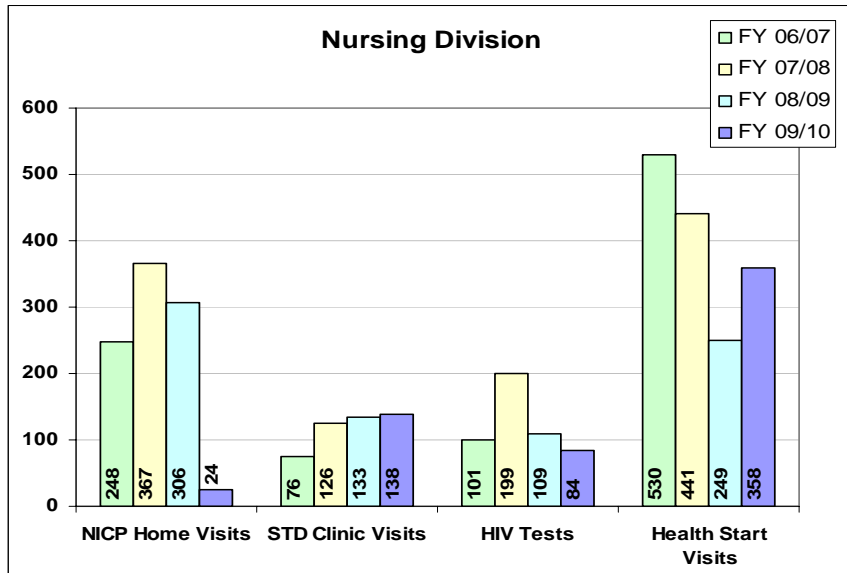
#### **Teen Pregnancy Prevention Program:**

The Teen Pregnancy Prevention Program has provided education to 1,962 students during this year. The program was established in 2008 to address the growing teen pregnancy rates in Arizona and in Mohave County. Each community has an established advisory board comprised of community members and leaders. These boards meet on a quarterly basis and provide a pulse of the need for services, feedback on effective strategies and resources, and advocate for the program within their communities. Currently, the program is providing instruction for teens in the local schools, juvenile detention center and presenting parent workshops at the Ft. Mojave Indian Social Service facility. Four teen curricula are available: "Making a Difference!", "Making Proud Choices!", "Be Proud! Be Responsible!" and "Reducing the Risk". "Can We Talk" is the parent curriculum offered.

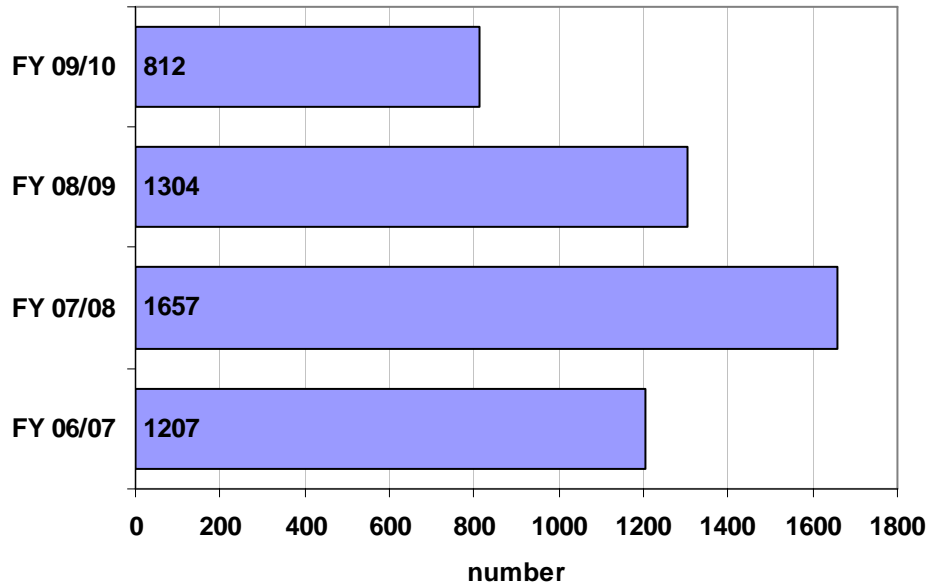
Outreach activities were conducted at various community events around the county. Teens and parents were provided written information, educational activities and surveys. Since the programs implementation in 2008, the teen pregnancy rate in Mohave County has been reduced from 27.3 to 25.6.

**Mohave County Department of Public Health  
Nursing Division Statistics**

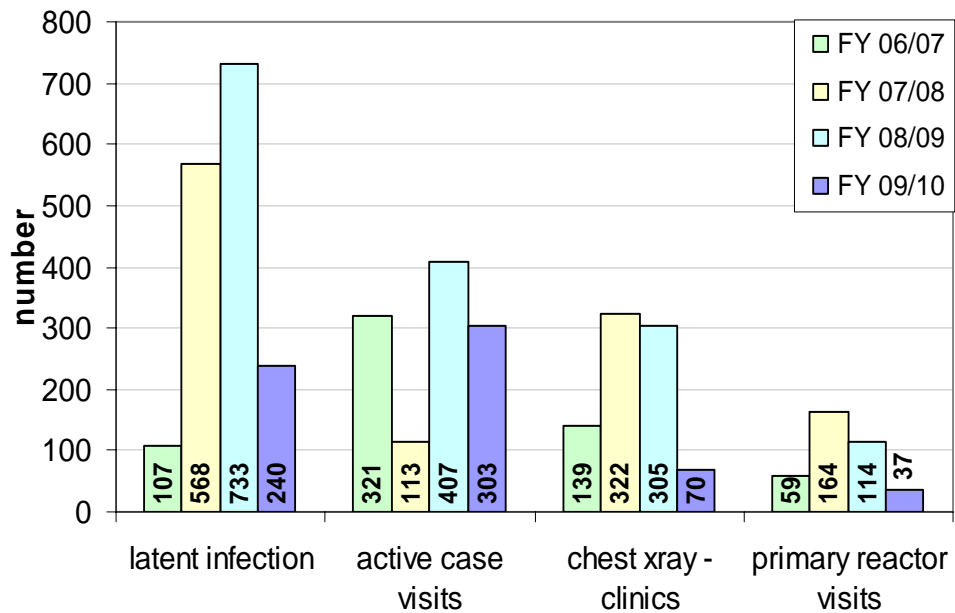
	FY 04/05	FY 05/06	FY 06/07	FY 07/08	FY 08/09	FY 09/10
<b>Newborn Intensive Care Program</b>						
Home visits	231	207	248	367	306	24
<b>Communicable Disease</b>						
Disease investigations	1,393	1,234	1,323	1,453	1118	1485
<b>Childhood Immunization Program</b>						
Children vaccinated	5,816	3,898	5,612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



### Tuberculosis Control Program Number of Skin Tests Conducted



### Tuberculosis Control Program



## SENIOR PROGRAMS

The main purpose of Mohave County Senior Programs is to provide hot, nutritious meals to seniors and disabled citizens within the county. This is accomplished by providing congregate meals at senior center sites and by providing homebound seniors a hot meal and welfare check via the "meals on wheels" program. Due to an increase in fuel, food prices and units of service, some remote areas receive one hot meal with the remaining meals frozen. This reduces fuel and personnel expenses as a result. Senior Programs conducts daily phone checks in these instances and continues to call until we connect with the senior receiving frozen meals.

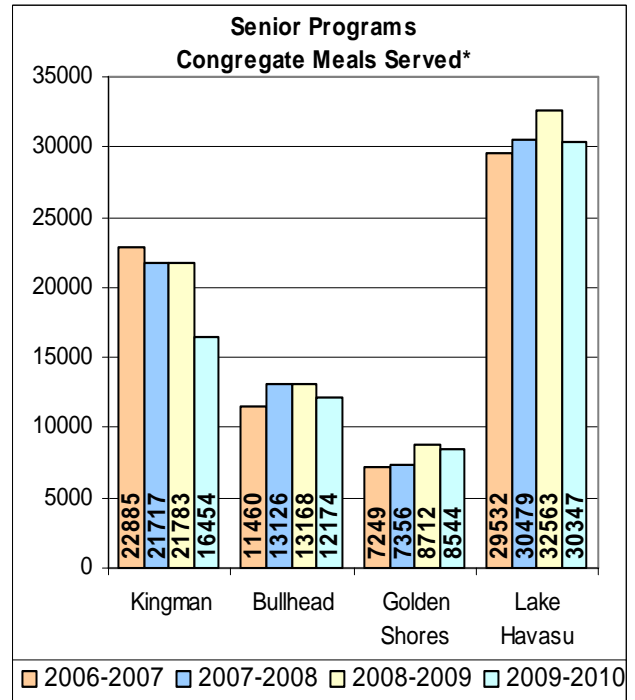
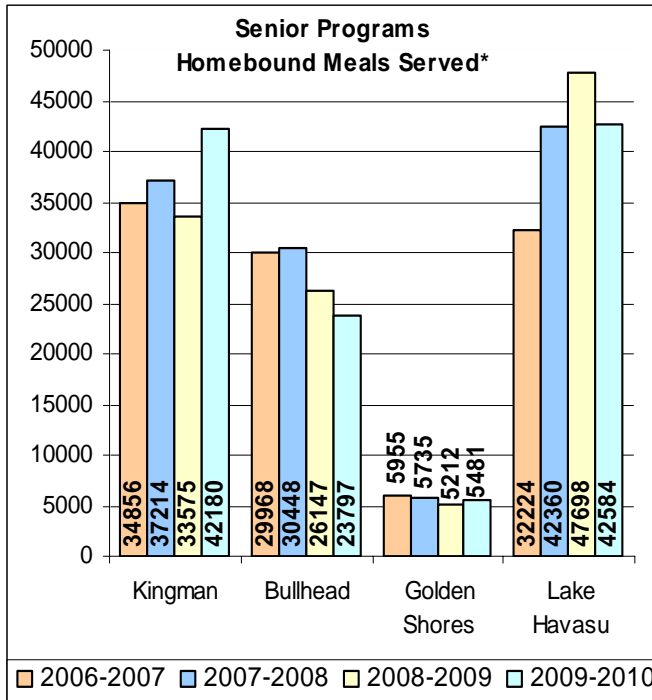
Senior Programs offers other programs such as socialization, education, and support services at each of the senior centers. These services range from Social Security and Attorney General satellite offices located within several of the senior centers to activities such as bridge, tax aide, legal aide, yoga, crafts, parties, and exercise classes. The Senior Centers have volunteers who help seniors with problems related to Medicare Part D. Four senior centers exist within Mohave County with sites in Bullhead City, Golden Shores, Kingman and Lake Havasu City.

The funds to run the senior center nutrition programs come from federal funds via the "Older Americans Act" and a contract with the Western Arizona Council of Governments, Mohave County general fund, and donations from participants. AHCCCS/ALTCS also contracts for services for home delivered meals for their clients. There are thrift shops at the Bullhead City and Lake Havasu Senior Centers. The thrift shops are operated by senior non-profit organizations and the revenues are used to help pay for a portion of program expenses such as utilities, food purchases, equipment purchases and emergency repairs.

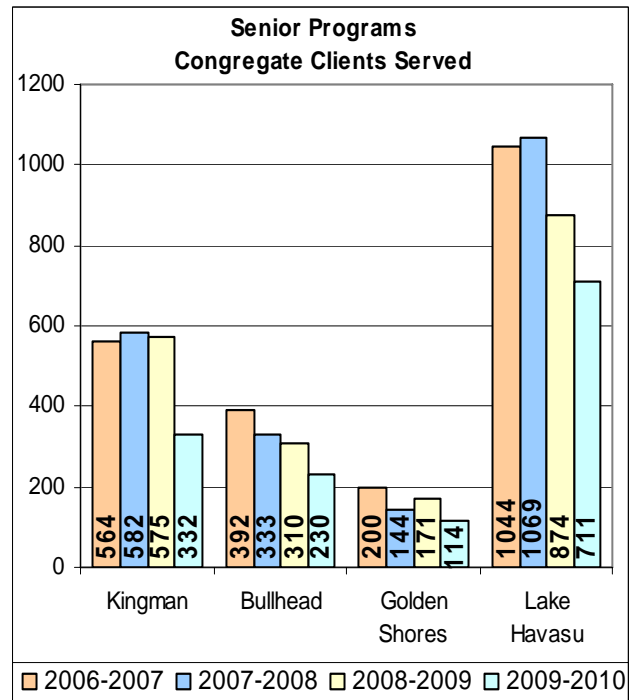
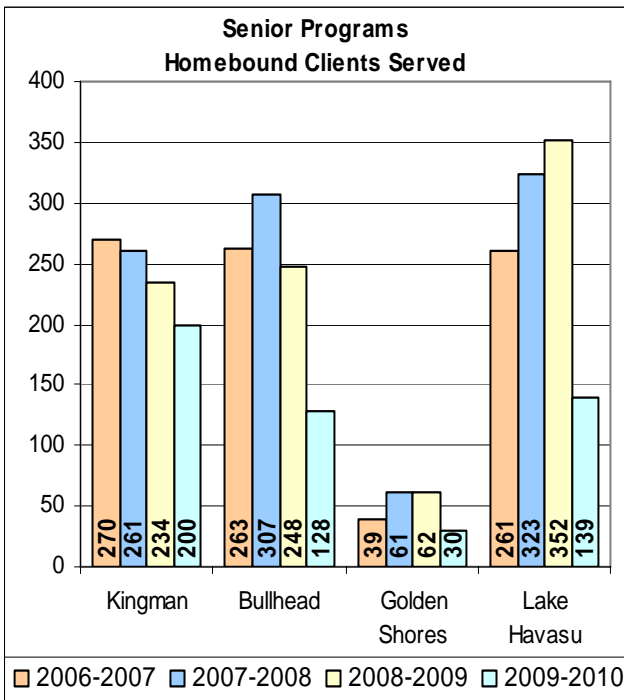
Senior Programs served 181,561 meals to a total of 1,884 people during fiscal year 2009-2010.

Number of Meals Served (figures include meals served due to in-kind contributions from site council non-profit organizations):

FY 09/10	<u>Home Delivered</u>	<u>Congregate</u>
Bullhead City	23,797	12,174
Golden Shores	5,481	8,544
Kingman	42,180	16,454
Lake Havasu	42,584	30,347
<b>Total</b>	<b>114,042</b>	<b>67,519</b>



\* The number of meals served includes those provided due to the in-kind contributions of the site council non-profit organizations.



## BIO TERRORISM DEFENSE AND EMERGENCY RESPONSE

In June, the Health Department was officially notified that we had received Project Public Health Ready (PPHR) recognition. This project began in August 2008 and is a competency-based training and recognition program that assesses preparedness and prepares health departments to respond to emergencies. PPHR maintains emergency preparedness criteria that are divided into three main goals:

- All Hazards Preparedness Planning
- Workforce Capacity Development
- Exercises/responses to real events to evaluate preparedness

The NACCHO news release titled “Mohave County earns public health emergency preparedness recognition,” states “Mohave County Department of Public Health Services met the comprehensive preparedness benchmarks required by Project Public Health Ready (PPHR), a unique partnership between NACCHO and Centers for Disease Control and Prevention (CDC).”

The recognition reads, “Project Public Health Ready Oversight Council and National Association of County and City Health Officials recognize Mohave County Department of Public Health Services Arizona as meeting the project criteria and for its outstanding contribution to local public health preparedness efforts.”

“NACCHO commends Mohave County Department of Public Health Services for being a model of public health emergency preparedness,” Robert Pestronk, NACCHO executive director, said in the news release. “The public health system is making great strides thanks to the good work of leaders in local public health preparedness such as Mohave County Department of Public Health.”

**2009 – 2010 H1N1 Pandemic Response:** The H1N1 activation was the longest and most complex in the history of the Mohave County Department of Public Health. Our response ran in two phases to coincide with the pandemic waves. Phase I ran for 20 days, from April 24, 2009 to May 13, 2009. Phase II ran for 284 days from August 24, 2009 to June 3, 2010. From our Department Operations Center in Kingman, our command team activated several response functions to include mass dispensing, risk communications, phone bank operations, epidemiological surveillance and volunteer mobilization. Our receipt of the Strategic National Stockpile was tested along with mass dispensing via partnerships with retail pharmacies, local medical providers and outreach to schools.

By the end of the activation:

- A majority of the 100 MCDPH staff, 85 MRC Volunteers (including 15 MRC school nurses) and emergency management partners contributed to the response.
- 10,585 vaccinations were given by MCDPH as of May 31, 2010 (5101 in the schools, 5480 in the clinics)
- MCDPH oversaw allocation of 61,000 doses of vaccine into Mohave County
- MCDPH hired 25 additional temporary support staff and nurses
- Our phone bank responded to over 1,000 calls for information

- We investigated 349 confirmed cases of H1N1, 40 hospitalizations and 7 deaths of county residents
- MCDPH held 100+ vaccination clinics devoted specifically to H1N1 (not counting school clinics)

**Medical Reserve Corps:** Our Medical Reserve Corp (MRC) volunteers participated at many emergency preparedness and community events during 2009 such as the Lake Havasu Winterfest, the Mohave County Fair, the Bullhead City Safety Fair, and the "Havasus Stick'em" Health Fair, Immunization clinics and the department's response to the 2009 – 2010 H1N1 pandemic.

During July, August and September 2009; MRC volunteers assisted at back to school immunization clinics around Mohave County, Arizona.

MRC volunteers also operated the health department H1N1 phone bank in April and October 2009; they assisted at H1N1 flu vaccination clinics; assisted in the assembly of 25,000 H1N1 consent form packets, this all to support a response for the H1N1 (swine flu) out break. The Mohave County Medical Reserve Corps volunteers participated in activities, responses or events during 2009 donating over 3,600 hours.

# PATTERNS IN HEALTH, MORBIDITY, AND MORTALITY

