2008

Macomb County Health Department

Annual Report

2008 Board of Commissioners

2008 Board of Commissioners

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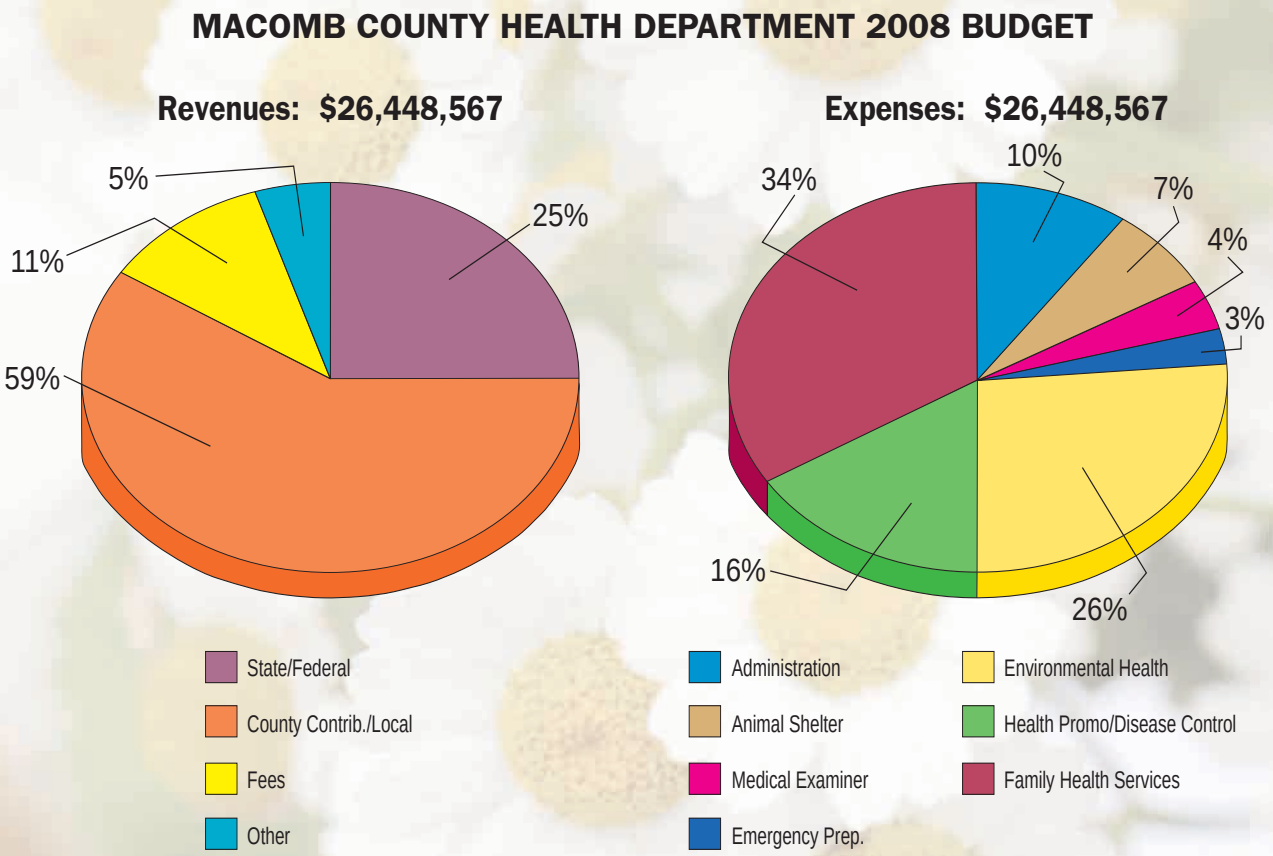
Macomb County Health Department 2008 Budget

Macomb County Health Department 2008 Budget



Letter From The Director

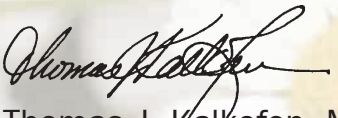
Dear Friends and Colleagues:

As Director of the Macomb County Health Department, it is my pleasure to present our Annual Report for the Year 2008. The department continues offering traditional public health programs while moving forward to address new and emerging threats.

- Our department successfully conducted a tuberculosis investigation involving approximately 750 students, faculty, staff and others in two high schools, identifying a number of persons at risk of active disease and thereby reducing the risk of a serious TB outbreak.
- We also saw an increase in our work related to Bioterrorism planning and programming. The Health Department has continued the Cities Readiness Initiative (CRI) program to provide oral medications to 100% of the county population within forty-eight (48) hours in response to an anthrax biological event.
- The Women, Infants, and Children Program (WIC) enrolled 2,800 pregnant and breastfeeding women, 3,150 infants and 9,000 children spending benefits worth $6,294,458 in health promoting foods, such as milk, iron-fortified cereals, juice, eggs, and infant formulas at local Macomb County grocery stores.
- Our Environmental Management and Risk Assessment Program (EMRAP) collected 252,755 pounds of household hazardous waste which included 1,895 pounds of unwanted medications, 378 pounds of mercury, 32,427 pounds of household batteries, 49,806 pounds of computer waste and 3,367 gallons of waste motor oil.
- The Health Department Immunization Clinics provided over 55,400 protective doses to Macomb County children and 19,636 protective doses to Macomb County adults last year.

These efforts and the support of the Macomb County Board of Commissioners are another example of the commitment we make to protect the health of every resident in Macomb County. I hope you will take a moment to review the many services this report describes and contact me if you have any questions or comments. You may also wish to visit our enhanced and updated web site at www.macombcountymi.gov/publichealth for additional information.

Sincerely,



Thomas J. Kalkofen, M.P.H.
Director/Health Officer

Macomb County Health Department has received Accreditation from the Michigan Public Health Accreditation Commission

Selected Vital Statistics

BIRTHS AND DEATHS IN MACOMB COUNTY

2007	BIRTHS	DEATHS	Top 3 Causes of Death		
MINOR CIVIL DIVISION	TOTAL	TOTAL	HEART	CANCER	STROKE
TOTAL	**9,790**	**7,488**	**2,249**	**1,746**	**382**
ARMADA VILLAGE	20	31	7	7	1
CENTER LINE CITY	99	136	30	30	12
EASTPOINTE	430	338	95	76	16
FRASER CITY	124	170	48	41	9
GROSSE POINTE SHORES	3	0	0	0	0
MEMPHIS CITY	11	4	0	1	0
MOUNT CLEMENS CITY	232	187	45	33	10
NEW BALTIMORE CITY	211	90	21	32	2
NEW HAVEN VILLAGE	92	23	8	7	2
RICHMOND CITY	84	69	27	12	0
ROMEO VILLAGE	60	46	15	14	2
ROSEVILLE CITY	572	504	166	109	30
ST CLAIR SHORES CITY	624	826	262	200	54
STERLING HEIGHTS CITY	1,533	1,035	311	217	53
UTICA CITY	77	50	7	9	2
WARREN CITY	1,686	1,521	480	339	85
ARMADA TOWNSHIP	14	16	2	5	1
BRUCE TOWNSHIP	34	30	15	6	0
CHESTERFIELD TOWNSHIP	474	228	70	53	10
CLINTON TOWNSHIP	1,105	907	261	229	41
HARRISON TOWNSHIP	252	195	59	52	8
LAKE TOWNSHIP	0	2	0	1	0
LENOX TOWNSHIP	49	36	8	9	3
MACOMB TOWNSHIP	1,003	337	104	96	9
RAY TOWNSHIP	30	32	13	5	3
RICHMOND TOWNSHIP	17	27	6	10	1
SHELBY TOWNSHIP	719	510	153	118	20
WASHINGTON TOWNSHIP	235	137	36	35	8
UNKNOWN	0	1	0	0	0

Major causes of death in Macomb County are similar to those Statewide. The top three causes, heart disease, cancer, and stroke account for half of all mortality.

Leading Causes of Death and Cause-Specific Rates

Macomb County and Michigan Residents, 2007 and United States Residents, 2005

Michigan Rank	Cause of Death	Number of Deaths			Rate of Death		
		Macomb	Michigan	U. S.	Macomb	Michigan	U. S.
1	Diseases of the Heart	2,249	24,258	652,091	270.0	240.9	220.0
2	Cancer	1,746	20,060	559,312	209.6	199.2	188.7
3	Stroke	382	4,638	143,579	45.9	46.0	48.4
4	Chronic Lower Respiratory Diseases	349	4,616	130,933	41.9	45.8	44.2
5	Accidents	306	3,714	117,809	36.7	36.9	39.7
6	Diabetes Mellitus	235	2,825	75,119	28.2	28.0	25.3
7	Alzheimer's Disease	127	2,430	71,599	15.2	24.1	24.2
8	Pneumonia and Influenza	102	1,633	63,001	12.2	16.2	21.3
9	Kidney Disease	144	1,611	43,901	17.3	16.0	14.8
10	Suicide	112	1,123	32,637	13.4	11.1	11.0
	Sub Total	5,752	66,908	1,889,981	690.6	664.3	637.6
	All Other Causes	1,736	19,734	558,036	208.4	195.9	188.3
	Total	7,488	86,642	2,448,017	899.1	860.2	825.9

Note: Age-adjusted death rates are based on age-specific death rates per 100,000 population in specified group.

Sources: 2007 Michigan Resident Death File, Vital Records and Health Data Development Section, MDCH *Volume 56, Number 10, April 24,2008, National Vital Statistics Report,* National Center for Health Statistics.

Health Promotion / Disease Control

HEALTH EDUCATION PROGRAM

Health Educators conduct presentations to schools, worksites, local community/ professional groups, and Health Department staff on a variety of health topics. This year over 9,000 students and community members received information on health education topics.

- 200 students received training to reduce incidence of domestic violence in adolescent relationships.
- 1,400 pre-teen students educated on dental and personal hygiene practices in low socio-economic districts of Macomb County.
- 340 children's car seat inspections conducted. 81% were installed incorrectly.

Tobacco Prevention

- Over 300 high school and/or college students informed on the dangers of hookah (water pipe with loose tobacco) use.
- 1,600 Macomb County students received tobacco prevention presentations.
- Distribution of flyers on the dangers of secondhand smoke to all childcare centers and pre-school programs in Macomb County.
- Maintain current list of 100% smoke-free restaurants in Macomb County on Tobacco Prevention Coalition website, www.macombtobaccoprevention.com.

Childhood Obesity

- Maintain website, www.healthykidshealthyfutures.com to promote healthy nutrition choices and physical activity behaviors among Macomb County children.
- Sponsored "Fun & Fitness Day 2008" at Dodge Park in Sterling Heights.
- 30,000 copies of booklet "Out and About in Macomb – A Guide to Fun Physical Activities for You and Your Family" distributed through schools, libraries, health fairs, and community events.

NUTRITION PROGRAM

A broad range of nutrition interventions and community-wide health promotion and prevention services are available to Macomb County residents, community groups, schools and allied health professionals.

- 5,680 individuals received nutrition education
- 101 nutrition education presentations to community groups
- 92 parents of high-risk infants and children provided with therapeutic diet instruction
- 2,683 Macomb County residents reached in 26 health fairs

Nutrition Education for Seniors

- Over 1,000 seniors provided with Type 2 diabetes prevention information
- 7 senior health fair promotions for healthy eating and exercise
- 10 presentations on early and regular colorectal cancer screenings and the dietary implications for cancer prevention

Health Promotion / Disease Control

CARDIOVASCULAR DISEASE RISK REDUCTION PROGRAM

Heart disease and stroke are the first and third leading causes of death in Macomb County. The Macomb County Health Department offers comprehensive disease risk reduction services for residents.

Cardiovascular Disease Risk Factor Screening

- 1,989 residents had measurement of blood pressure performed at 113 community sites. Of these:
  - 21% of persons screened were found to have high blood pressure
  - 25 residents were in the Urgent or Emergency High Blood Pressure Category
  - 73% were overweight or obese
  - 18% were smokers
  - 22% were physically inactive
- 1,529 residents had combined blood pressure and cholesterol screening at 23 community sites. Of these:
  - 22% were found to have borderline or high total cholesterol
  - 22% were found to have high blood pressure
  - 11 residents were in the Urgent High Blood Pressure Category
  - 65% were overweight or obese
  - 7% were smokers
  - 18% were physically inactive
- 435 residents discovered to be at-risk received follow-up services

Student Cardiovascular Education

- 2,726 - 4th grade student contacts in 100 presentations of the "Healthy Kids Healthy Hearts" program
- 478 students in kindergarten through 5th grade classrooms received 20 "Macomb in Motion" and "Be Smart, Eat Smart" sessions

HEARING AND VISION PROGRAM

The Hearing and Vision Program provides free hearing and vision screening, referrals and follow-up for preschool (ages 3-5 years) and school age children.

Vision Services

- 54,785 children had their vision screened in grades 1, 3, 5, 7, 9 in schools
- 7,019 children referred for further evaluation
- 11,210 preschool children had a vision screening
- 494 preschool children referred for further evaluation

Hearing Services

- 33,797 children had their hearing screened in kindergarten, second and fourth grade
- 1,068 of those screened were referred for further evaluation
- 11,225 preschool children had their hearing screened
- 651 preschool children were referred for further evaluation
- 528 children received a diagnostic evaluation by an Ear, Nose and Throat Doctor and were rechecked by an Audiologist at Otology Clinics

Health Promotion / Disease Control

BREAST AND CERVICAL CANCER SCREENING PROGRAM

The Macomb County Health Department provides no-cost breast and cervical cancer screening services to Macomb County residents who meet simple eligibility criteria. Services include pelvic exams, pap smears, clinical breast exams, mammograms and patient education.

- Provided breast and cervical cancer screening for 564 women and 1 man.
- 47 breast biopsies for Macomb County residents.
- 5 cases of breast cancer were diagnosed.
- All of these women qualified for special Medicaid coverage for the costs of their cancer care.
- 1 client with early cervical cancer received special Medicaid coverage for her treatment.

DISEASE CONTROL PROGRAMS

Public Health Nurses and Disease Specialists investigate communicable diseases and provide services to Macomb residents. The Macomb County Health Department operates 6 laboratory sites that performed 16,089 tests in 2008.

PROGRAMS	INDIVIDUALS SERVED
Communicable Disease Investigations	1,503
HIV/AIDS Counseling and Testing	1,893
Sexually Transmitted Disease Testing	3,399
Sexually Transmitted Disease Education	2,977
Foreign Travel Information	511
Tuberculosis Control	161
School Immunization Program Assessments	53,048

REPORTABLE COMMUNICABLE DISEASES IN MACOMB COUNTY

COMMUNICABLE DISEASES	2008	2007	2006	2005	2004
Influenza-like Illness	58,801	64,963	62,393	73,803	62,532
Chlamydia	1,540	1,635	1,380	1,297	1,048
Hepatitis C (chronic)	509	389	386	334	337
Gonorrhea	446	446	468	398	240
Varicella (Chickenpox)	224	260	462	395	397
Hepatitis B (chronic)	145	157	175	188	337
Viral Meningitis	94	79	87	94	79
Invasive *Streptococcus pneumonia* Disease	73	64	63	20	20
Campylobacter	71	49	69	58	64
Salmonellosis	63	88	72	77	63

Environmental Health

FOOD SERVICE SANITATION PROGRAM

The "Food Safety Training for Food Service Establishments" regulation, approved by the Macomb County Board of Commissioners, requires a manager at each food service establishment who is certified in safe food handling practices. The purpose of the regulation is to reduce the incidence of foodborne illness associated with food obtained from food service establishments.

In 2008, 149 food service managers completed the certified manager course and 19 renewed their certification through the Macomb County Health Department.

Total licensed food service facilities in Macomb County = 2,388

For more information visit:
http://www.macombcountymi.gov/publichealth/EH/FoodInspections.htm

NUMBER OF SERVICES PERFORMED	2008	2007	2006	2005	2004
Food Service Inspections	4,423	4,460	4,419	4,168	4,307
Follow-up Inspections	1,287	1,734	1,500	1,578	1,531
Temporary Food Inspections	281	372	390	395	385
Food Service Construction Plans Reviewed	157	142	156	164	160
Food Borne Outbreak Investigations	4	16	18	18	-
Food Service Complaints Investigated	397	401	395	362	313

PUBLIC SWIMMING POOL PROGRAM

The Environmental Health Services Division performs yearly inspections of all licensed public swimming pools and spas in Macomb County. Inspections address the condition of the pool structure, the enclosure area, water filtering equipment and safety equipment. Pool water quality is monitored throughout the swimming season by requiring pool owners to contract with a laboratory to conduct weekly testing and send the results to the Health Department. The Health Department now offers laboratory bacteriological water testing services to public pool owners.

Total licensed public swimming pools in Macomb County = 339

BODY ART ESTABLISHMENT REGULATION

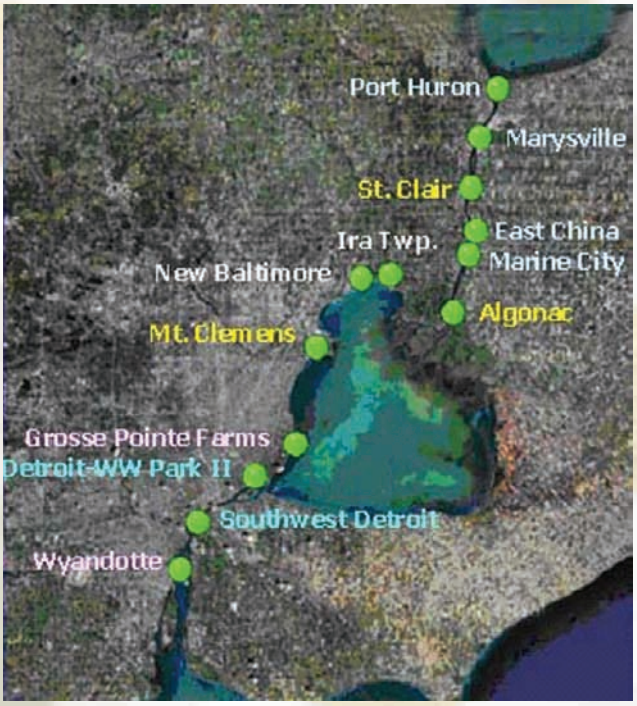
In 2008, the Macomb County Board of Commissioners approved a regulation governing body art operations in Macomb County. The regulation is to protect the health of the public and prevent disease transmission by establishing sanitation, construction and equipment standards along with an inspection schedule to verify compliance.

All body art facilities in Macomb County are required to be in full compliance with the regulation by May 2009.

Environmental Health

ST. CLAIR RIVER/LAKE ST. CLAIR DRINKING WATER PROTECTION PROJECT

The St. Clair River-Lake St. Clair Drinking Water Protection system continued to make good progress in 2008. The plant operators, health departments and others can now view the data from the monitors in real-time.



Three additional water treatment plants, Grosse Pointe Farms, Southwest Detroit and Wyandotte were incorporated into the monitoring system late this year. The drinking water monitoring system now includes all 13 water plant intakes from Port Huron to the City of Wyandotte.

A companion project, the Regional Water Quality Information Management System (RWQIMS) provides drinking water system data available to the public through the Internet within 48 hours. This project stores and provides web based public access to data from multiple water quality projects throughout southern Michigan.
http://www.RWQIMS.com

These projects are currently funded by a variety of sources, including Federal and state grants, as well as county and municipal appropriations. The MCHD has assumed the role of funding fiduciary for the project. A governance structure framework to manage the operation of the network and the RWQIMS is currently being developed, including various options for a local funding stream to allow the network to operate into the future.

ENVIRONMENTAL MANAGEMENT AND RISK ASSESSMENT PROGRAM (EMRAP)

EMRAP is a local approach to managing the environmental and public health threats posed by hazardous and polluting materials in Macomb County. EMRAP staff responds to incidents involving the use, storage, transportation and disposal of hazardous and polluting materials from residents and industry.

In 2008, EMRAP responded to 65 complaints involving the intentional or unintentional release, spill and abandonment of hazardous materials and pollutants which threaten public health and the environment.

In 2008, 3,655 Macomb County households delivered 252,755 pounds of household hazardous waste (HHW) which included 1,895 pounds of unwanted medications, 378 pounds of mercury, 32,427 pounds of household batteries, 49,806 pounds of computer waste and 3,367 gallons of waste motor oil.

SURFACE WATER IMPROVEMENT & MONITORING TEAM (SWIM)

The Surface Water Improvement and Monitoring (SWIM) Team Program encompasses three important aspects of water quality: monitoring, investigations and education. Each week, samples are collected at over 60 sites from tributaries of the six subwatersheds in Macomb County. Essential information on the water quality is gathered from these weekly samples. Samples are also collected twice weekly at the six public beaches in the county as part of the beach monitoring program. The beach monitoring program runs from April through September each year. Residents can view data on the internet at http://www.macombcountymi.gov/publichealth/EH/SurfaceWaterMonitoring.htm

The SWIM Team also continued to complete investigations in the southern section of the county as part of a Clean Michigan Initiative IDEP Grant.

Through the efforts of the SWIM Team, 70 million gallons per year of sewage and wastewater have been diverted away from Lake St. Clair and its tributaries and into an approved disposal/treatment system. This has been accomplished by:

- Surveying over 745 miles of open drain, rivers and streams;
- Identifying and testing more than 5,130 outfalls;
- Conducting investigations at 8,084 industrial, commercial, residential and institutional facilities since 1998. Approximately 17% of these facilities were found to have an illicit discharge that required correction.

ONSITE SEWAGE DISPOSAL AND ONSITE WATER SUPPLY PROGRAMS

Areas of Macomb County that do not have municipal water and/or sewer available must rely on onsite septic systems and water wells for their sewage disposal and water supply needs. The Macomb County Environmental Health Division administers Public Health Regulations to ensure water supplies and sewage disposal systems are adequately installed and maintained to serve these residents. Septic and water supply systems also are required to be evaluated for adequate functionality at such time the property is transferred to another owner. The table below summarizes activities for these programs in 2008.

WATER SUPPLY AND SEWAGE DISPOSAL RELATED INSPECTION SERVICES

	2008	2007	2006	2005	2004
Septic Permits Issued	211	299	407	499	573
Well Permits Issued	102	146	178	277	324
Well & Septic Permit Inspections	1,319	2,669	3,550	4,541	1,620
Water Samples Collected for Analysis	381	689	1,577	957	234
Septic System Evaluations for Property Transfer	345	420	545	730	846
Well Water System Evaluations for Property Transfer	149	150	239	311	309

Family Health Services

DISEASE PREVENTION

Vaccines have reduced or eliminated many infectious diseases that once routinely killed or harmed many infants, children, and adults. However, the viruses and bacteria that cause vaccine-preventable disease and death still exist and can be passed on to people who are not protected by vaccines. Vaccine-preventable diseases have many social and economic costs: sick children miss school and parents lose time from work. These diseases also result in doctor visits, hospitalizations, and even premature death.

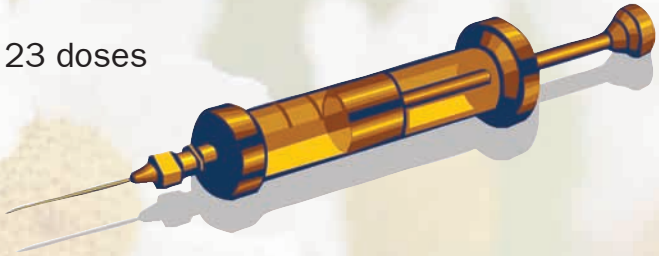
During 2008, Macomb County Health Department Immunization clinics provided the following protective doses:

CHILD IMMUNIZATIONS

- Measles/Mumps/Rubella – 3,586 doses
- Varicella (Chickenpox) – 6,037 doses
- Diphtheria/Tetanus/Pertussis (Whooping Cough) – 9,157 doses
- Haemophilis influenzae type b (HIB disease) – 3,028 doses
- Hepatitis A – 9,470 doses
- Hepatitis B – 4,109 doses
- Influenza – 5,761 doses
- Meningitis – 1,934 doses
- Polio – 5,589 doses
- Pneumococcal – 4,812 doses
- Rotavirus – 1,917 doses

OLDER CHILDREN & ADULT IMMUNIZATIONS

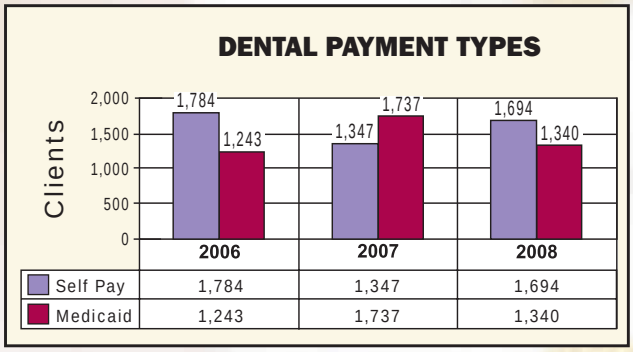
- Adult Diphtheria/Tetanus – 2,123 doses
- Hepatitis A – 1,839 doses
- Hepatitis B – 2,196 doses
- Influenza – 9,932 doses
- Meningitis – 285 doses
- Measles, Mumps, Rubella – 217 doses
- Pneumonia – 515 doses
- Polio – 137 doses
- Rabies Pre/Post-exposure – 23 doses
- Varicella – 528 doses
- Shingles – 1,841 doses



Family Health Services

DENTAL SERVICES

Complete dental services to Medicaid, MIChild clients are provided through the Health Department's Dental Clinic. Examinations, cleaning, x-rays, and fillings are examples of services provided through the clinic.



	2006	2007	2008
Self Pay	1,784	1,347	1,694
Medicaid	1,243	1,737	1,340

	2008	2007	2006
Total Client Visits	2,411	2,465	2,411
Number of Services	6,553	6,650	6,423
Fluoride Treatments	257	287	263

FAMILY PLANNING PROGRAM

The MCHD Family Planning Program is a Title X, Federally funded program serving women and men for reproductive health care. In 2008, the Family Planning Program provided reproductive education, pelvic exams, Pap smears, and contraceptives at reduced cost to 3,148 clients. Two full-time Nurse Practitioners and one part-time Gynecologist perform exams while providing direction to clients on how to proceed with their health care. The expertise of these three practitioners, with support from both nursing and clerical staff, provides high quality services to all clients, regardless of their circumstances. Through collaboration with community agencies, 171 clients with abnormal Pap smears had access to additional diagnostic testing and treatment when necessary.

For additional information, visit:
www.macombcountymi.gov/publichealth/ClinicServices/fhs_famplan.htm

MATERNAL/CHILD HEALTH SERVICES

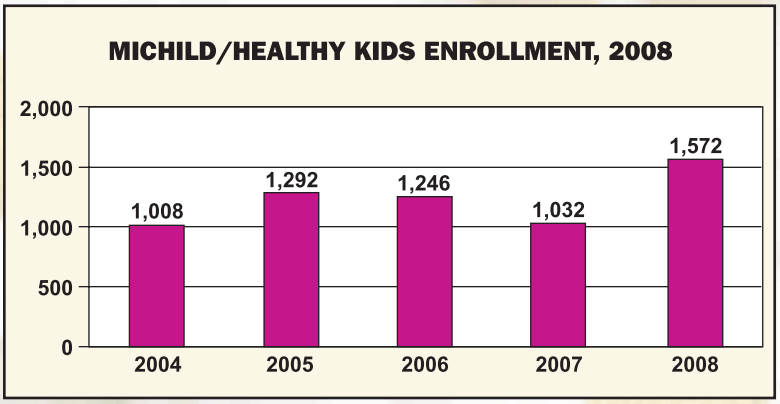
The Maternal/Child Health Services program provides preventive and primary health care services to Macomb County residents. The mission is to improve, promote and protect the health status of county citizens through health screening, assessment, anticipatory guidance, education and referral as needed. Services are delivered in homes, schools, clinics, and community outreach sites.

	2008	2007	2006	2005
Home Visits	1,199	1,200	1,153	1,362
Phone Services	9,336	9,519	7,760	7,631
Immunization Hours	2,738	3,425	2,284	1,799
Community Contacts	626	607	708	517
Total # People Served	8,565	7,988	7,884	7,935
Total # of Services Provided	21,307	20,134	19,840	21,100

Family Health Services

MICHILD/HEALTHY KIDS

During 2008, 1,572 low-income Macomb County children and pregnant women received MIChild/Healthy Kids health insurance through public health outreach and case finding efforts, providing them with a medical home and access to quality well child care, immunizations, screening tests, and sick care supervision. This reflects a 52% increase in clients from the previous year. We have also experienced an increase in the number of clients needing assistance with follow-up service after their application reached the Department of Human Services.



WOMEN, INFANTS & CHILDREN (WIC) NUTRITIONAL PROGRAM

WIC provides Federal grants to States for supplemental foods, health care referrals, and nutritional education for low-income pregnant, breastfeeding, and non-breastfeeding postpartum women, and infants and children up to age five who are found to be at nutritional risk.

- In August, the Macomb County WIC Program successfully eliminated the paper vouchers it had been using for 30 years. WIC food benefits are now loaded onto a WIC Bridge Card, a special EBT card with a magnetic strip. WIC participants can now swipe their cards on debit machines at local grocery stores. The change brings tremendous cost savings due to increased staff efficiency, decreased wear and tear on printers, and the elimination of handling thousands of pounds of paper per year.
- In the summer of 2008, the WIC program participated in Project Fresh, a joint effort between the Michigan Department of Community Health WIC Program and Michigan State University Extension. WIC families were issued special vouchers for Michigan-grown fruits and vegetables that are redeemed at the Mt. Clemens Farmer's Market. This year, $13,200 worth of vouchers were issued to purchase produce grown in Macomb County.
- In 2008, WIC participants spent benefits worth $6,294,458 at Macomb County grocery stores. Participants purchase only health promoting foods, such as milk, iron-fortified cereals, juice, eggs, cheese, peanut butter, carrots, tuna & infant formulas.
- In 2008, the WIC Program enrolled 2,800 pregnant and breastfeeding women, 3,150 infants and 9,000 children.

For more information visit:
http://www.macombcountymi.gov/publichealth/ClinicServices/fhs_wic.htm

Emergency Preparedness

Emergency Preparedness

The Emergency Preparedness program was initiated to strengthen capacity at State, County and local levels for terrorism preparedness and emergency public health responses. The Health Department, in conjunction with the Macomb County Emergency Management Office, receives its mandate through the Office of Public Health Preparedness (OPHP) directly from the Centers for Disease Control (CDC). The following represents some of the activity over the last year.

- Emergency site plans were developed for the fourteen (14) Neighborhood Emergency Help Centers/Dispensing Sites. The sites represent the locations throughout the county where residents will go to receive oral medications and vaccinations when needed. The sites are activated for pandemic influenza or a biological event.
- Eighty-five (85) Macomb County Health Department personnel were trained to respond to a public health emergency. The Strike Teams will respond when notified to one of the fourteen (14) different Neighborhood Emergency Help Centers/Dispensing sites for purposes of setting up equipment for the volunteer staff awaiting the arrival of residents.

For more information go to:
http://www.macombcountymi.gov/publichealth/EPP/EmergencyPreparednessProgram.htm

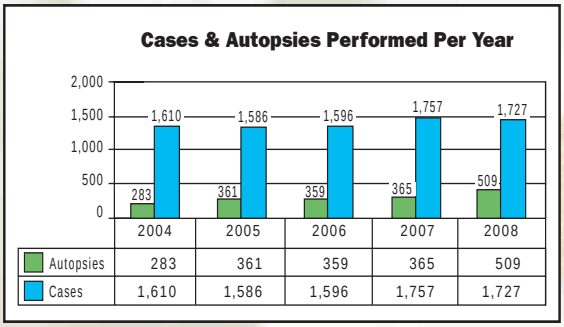
Office Of The Medical Examiner

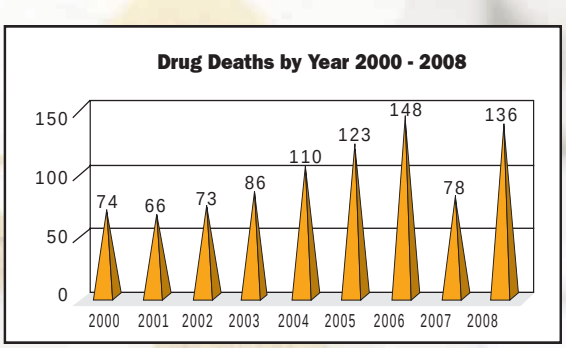
Office Of The Medical Examiner

The Office of the Medical Examiner investigates the cause and manner of deaths involving violence, accidents, and deaths not attended by a physician.

The investigation includes an examination of the scene, an autopsy where necessary to determine the cause and manner of death, and the certification of death certificates for these cases. In 2008, the Office of the Medical Examiner investigated 1,727 deaths and performed 509 autopsies. A Medical Examiner Investigator is available at all times to respond to calls from the police, hospital personnel or hospice personnel.

For more information go to:
http://www.macombcountymi.gov/publichealth/Medical-Examiner/medicalexaminer.htm





Animal Shelter

The Animal Shelter is committed to ensuring the safety of Macomb County residents with regard to animal related issues, while providing appropriate and humane treatment of the animals. The Shelter's animal placement services have been expanded to include Adopt a Pet Services, approved animal rescue leagues and donation of dogs to various service organizations including Leader Dogs, Paws With a Cause, and the U.S. Customs Service.

The Animal Shelter provides a wide range of animal related services, including pet adoptions, shelter for lost or unwanted animals, animal cruelty investigations, enforcement of State dog laws, dog licensing, animal bite reports, and quarantine follow up, rescue services for wild and domestic animals, removal of deceased animals from roadways, and placement services for exotic animals. See www.macombcountymi.gov/publichealth/animal.htm

	2008	2007	2006	2005	2004
Animals Received	13,571	12,856	14,300	11,700	12,935
Returned to Owners	1,003	1,043	1,198	1,179	1,456
Adopted	1,373	1,167	1,354	1,370	1,459
Received Stray	5,750	5,371	5,677	5,317	6,169
Given Up by Owners	3,249	2,902	4,975	4,238	4,299
Exotic/Other (pocket pets)	362	324	126	115	239
Wild	3,036	3,399	2,940	1,487	1,612

Animal Shelter

Health Department Web Site

The redesigned Web site features expanded information about the Health Department's programs and services, and navigating the site is straightforward and more appealing.

The redesigned Web site provides visitors with multiple ways to access information including Google searches, drop-down lists and A-Z alphabetical keyword indexes. New buttons on the home page include "Forms", where visitors can download and print 15 commonly requested Environmental Health forms, and "Fees", where visitors will find accurate fee information for a variety of Health Department services.

In addition, visitors may subscribe to many of the Health Department Web pages and receive automatic notification by e-mail when content changes on the pages.

Do you have questions about health statistics or environmental issues in Macomb County; want to know more about the pet adoptions and dog licensing, beach closings or how to protect yourself against the flu? One quick and easy way is to click onto the Macomb County Health Department on the Internet.

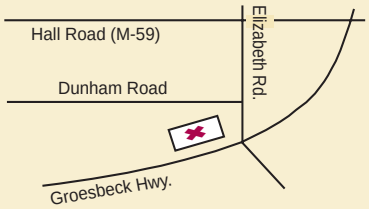
www.macombcountymi.gov/publichealth

For further information call (586) 469-5699

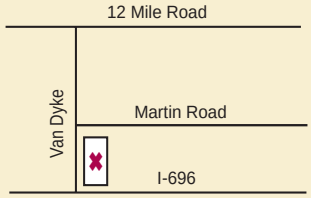
Health Department Web Site

Facility Locations

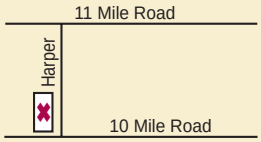
CENTRAL HEALTH CENTER
43525 Elizabeth Road
Mt. Clemens,
Michigan 48043
(586) 469-5235



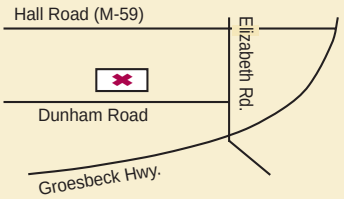
SOUTHWEST HEALTH CENTER
27690 Van Dyke
Warren,
Michigan 48093
(586) 465-8090



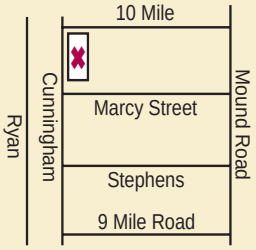
SOUTHEAST HEALTH CENTER
25401 Harper Avenue
St. Clair Shores,
Michigan 48081
(586) 466-6800



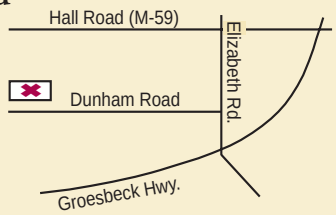
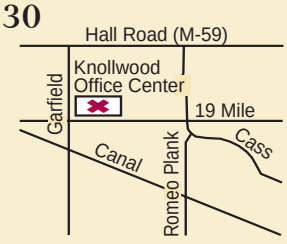
WIC (Women, Infants & Children)
Verkuilen Building
21885 Dunham Rd.
Clinton Township,
Michigan 48036
(586) 469-5471



CENTER LINE FACILITY
Centerline Public School
Early Childhood Center
24580 Cunningham
Warren,
Michigan 48091
(586) 469-5471



MACOMB ANIMAL SHELTER
21417 Dunham Road
Clinton Township,
Michigan 48036
(586) 469-5115



KNOLLWOOD OFFICE CENTER
16931 19 Mile Road, #130
Clinton Township,
Michigan 48038
(586) 412-3387