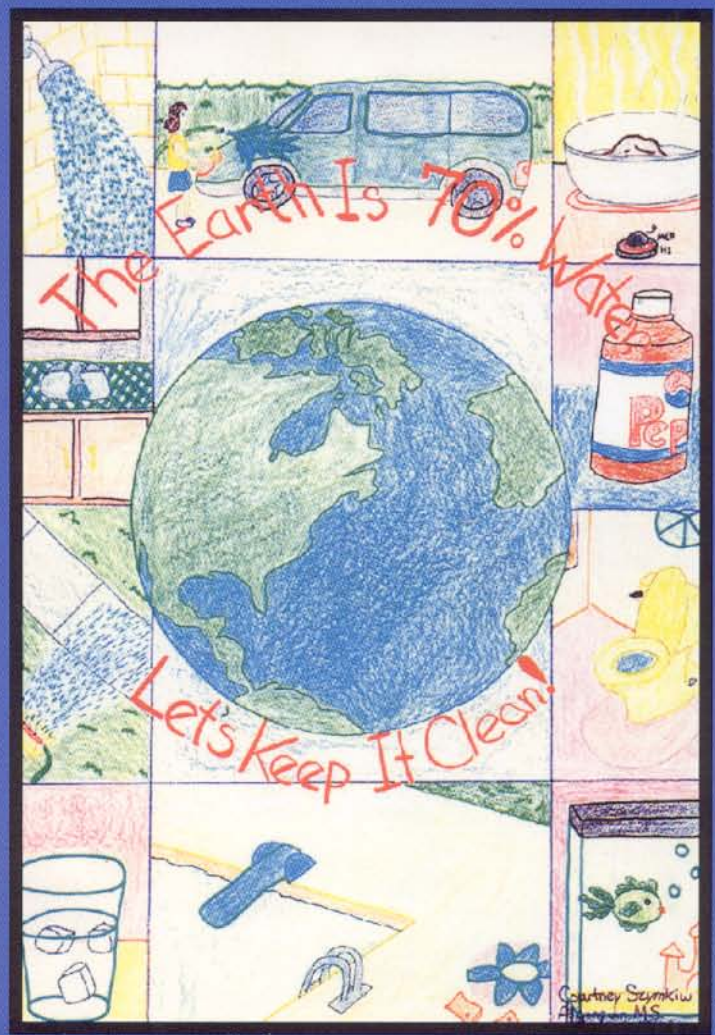
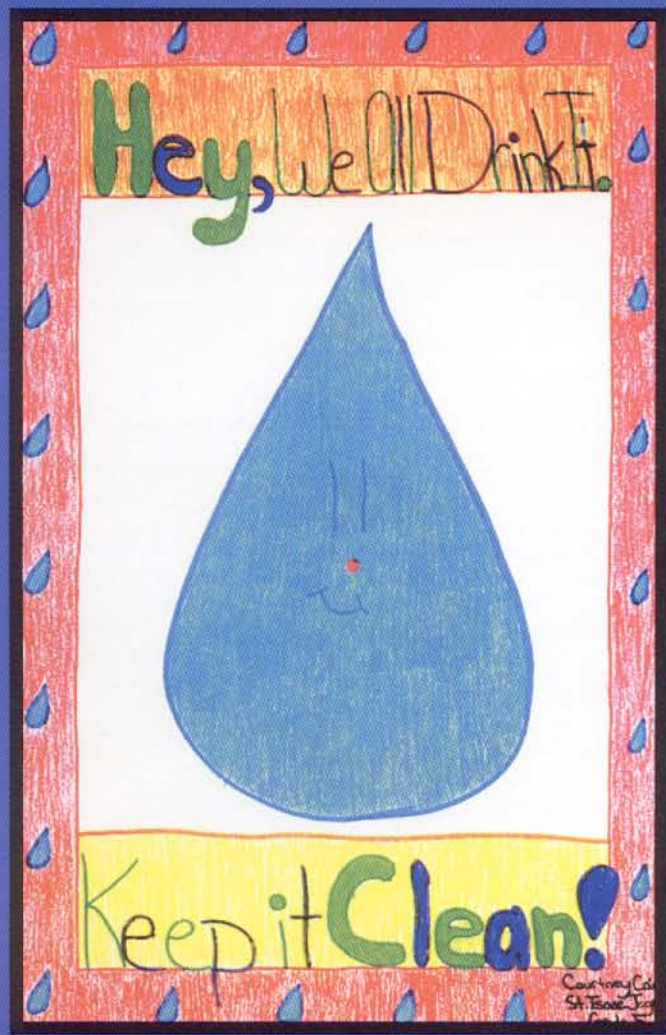
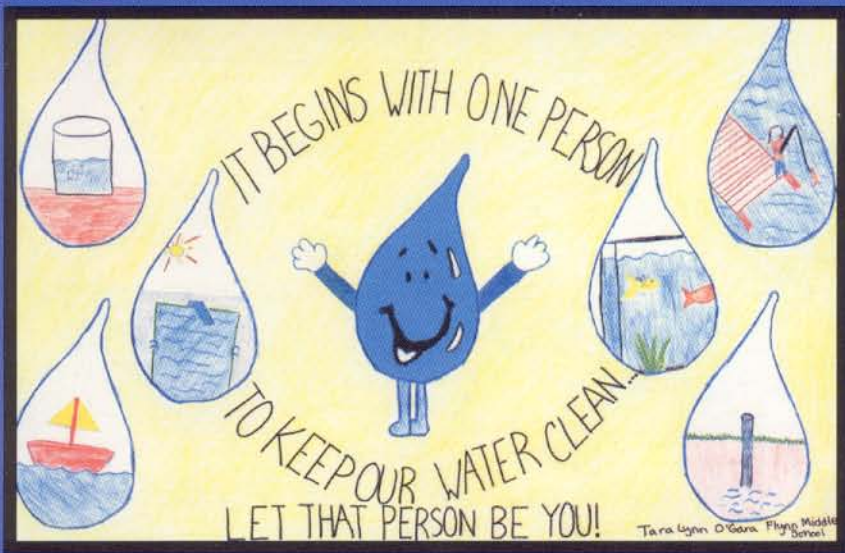


# Macomb County Health Department



## Macomb County Board of Commissioners



Top Left: Bobby L. Hill, James M. Perna, Kurt S. Kramer\*, Robert Mijac, Nicholyn A. Brandenburg\*, Phillip A. DiMaria, Don Brown, Leonard Haggerty\*, Ed Szczepanski, and William J. Revoir\*

Center: Marvin E. Sauger, Elizabeth M. Slinde, Peggy A. Kennard\*, Kathy Vosburg, Sue Rocca\*, Diana J. Kolakowski\*, Susan L. Doherty, Michael C. Sessa\*, and Roland Frascetti

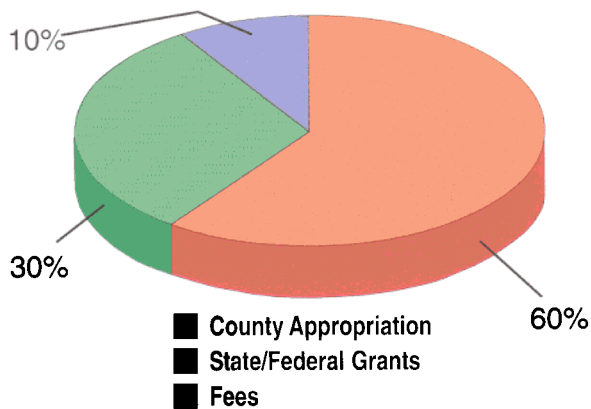
Seated: Ralph A. Liberato\* (Deceased, 3/15/04; Danny Sypniewski appointed to remainder of term), Philis DeSaele\*, Peter J. Lund\*, Nancy M. White\* \*\*, Joan Flynn\*, Mike Walsh\*, and Keith Rengert

\* Health Services Committee (Commissioner Philis DeSaele, Chairperson)

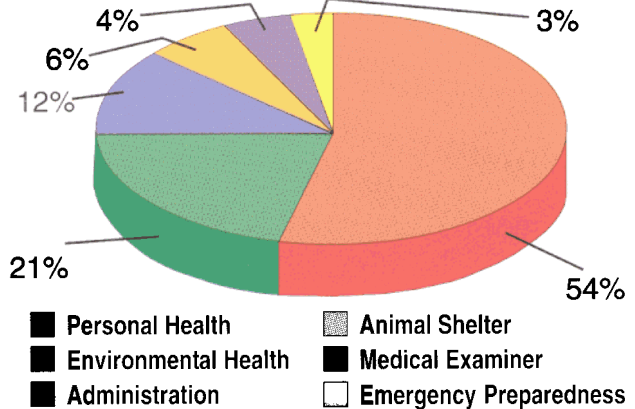
\*\* Chairperson, Macomb County Board of Commissioners

## Macomb County Health Department 2004 Budget

Revenues: \$25,484,753



Expenses: \$25,484,753



Cover: Environmental Health Water Quality Education Posters

## Introduction

### Dear Friends and Colleagues:

Please take the opportunity to read this report and note the variety and number of services delivered to the community by the dedicated employees of Macomb County Health Department.

The department continues offering traditional public health programs while moving forward to address new and emerging threats. We continue to address issues such as bioterrorism and bacteriological and chemical pollution in our rivers and lakes.

The department, as it has in the past, was able to mobilize to meet a new public health challenge this year. In October, Macomb County Health Department was informed of a severe nation-wide shortfall in the supply of flu vaccine. In response, the State Health Department issued an order restricting flu shots to high-risk persons only. With the assistance of the Board of Commissioners, the Parks and Recreation Administrator, the Sheriff's Office, several other departments and many employee volunteers, arrangements were made to provide flu clinics over three consecutive days at Freedom Hill County Park. Between November 3 and November 5, nearly 6,000 doses of vaccine were administered to elderly and other high-risk residents.

During this same period, the Health Department surveyed all Macomb County nursing homes and dispensed sufficient flu vaccine to protect both their elderly residents and the staff that cared for them. Later in the year the vaccine shortage eased, and the Health Department was able to immunize many more people and to assist Macomb County physicians to obtain their own supplies of vaccine. All in all,

the Health Department administered over 25,000 doses, dispensed over 10,000 doses, and helped physicians obtain over 12,000 doses, for a total of almost 50,000 doses. These efforts are another example of the commitment to protect the public.

We are very grateful for the support provided by Macomb County Board of Commissioners and our community partners. Their assistance is key to success.

I hope that you enjoy the report and welcome your comments.

Sincerely,



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



*Accredited with Commendation by the Michigan  
Public Health Accreditation Commission*

# Selected Health Indicators

## BIRTHS AND DEATHS IN MACOMB COUNTY

| 2003<br>MINOR CIVIL<br>DIVISION | Live Births   |              |            |            | Deaths       |              |            |           |
|---------------------------------|---------------|--------------|------------|------------|--------------|--------------|------------|-----------|
|                                 | TOTAL         | WHITE        | BLACK      | Other      | TOTAL        | WHITE        | BLACK      | Other     |
| <b>TOTAL</b>                    | <b>10,328</b> | <b>9,034</b> | <b>611</b> | <b>683</b> | <b>7,247</b> | <b>7,034</b> | <b>137</b> | <b>76</b> |
| ARMADA VILLAGE                  | 41            | 39           | 0          | 2          | 19           | 19           | 0          | 0         |
| CENTER LINE CITY                | 105           | 88           | 9          | 8          | 137          | 131          | 4          | 2         |
| EASTPOINTE                      | 400           | 341          | 47         | 12         | 352          | 338          | 12         | 2         |
| FRASER CITY                     | 155           | 147          | 0          | 8          | 145          | 143          | 1          | 1         |
| MEMPHIS-PT CITY                 | 21            | 21           | 0          | 0          | 3            | 3            | 0          | 0         |
| MT CLEMENS CITY                 | 211           | 154          | 49         | 8          | 206          | 173          | 30         | 3         |
| NEW BALTIMORE-PT CITY           | 284           | 267          | 10         | 7          | 77           | 76           | 0          | 1         |
| NEW HAVEN-PT VILLAGE            | 55            | 43           | 10         | 2          | 18           | 14           | 4          | 0         |
| RICHMOND CITY                   | 91            | 88           | 1          | 2          | 72           | 68           | 3          | 1         |
| ROMEO VILLAGE                   | 80            | 79           | 0          | 1          | 47           | 44           | 2          | 1         |
| ROSEVILLE CITY                  | 632           | 562          | 40         | 30         | 537          | 525          | 8          | 4         |
| ST CLAIR SHORES CITY            | 611           | 576          | 11         | 24         | 796          | 787          | 4          | 5         |
| STERLING HEIGHTS CITY           | 1,615         | 1,340        | 69         | 206        | 984          | 958          | 6          | 20        |
| UTICA CITY                      | 148           | 119          | 9          | 20         | 54           | 52           | 1          | 1         |
| WARREN CITY                     | 1,725         | 1,424        | 144        | 157        | 1,489        | 1,453        | 17         | 19        |
| ARMADA TOWNSHIP                 | 12            | 12           | 0          | 0          | 20           | 20           | 0          | 0         |
| BRUCE TOWNSHIP                  | 33            | 32           | 0          | 1          | 25           | 25           | 0          | 0         |
| CHESTERFIELD TOWNSHIP           | 557           | 522          | 19         | 16         | 232          | 227          | 2          | 3         |
| CLINTON TOWNSHIP                | 1,078         | 894          | 137        | 47         | 856          | 819          | 31         | 6         |
| HARRISON TOWNSHIP               | 271           | 251          | 15         | 5          | 225          | 222          | 2          | 1         |
| LAKE TOWNSHIP                   | 0             | 0            | 0          | 0          | 0            | 0            | 0          | 0         |
| LENOX TOWNSHIP                  | 56            | 55           | 0          | 1          | 39           | 38           | 1          | 0         |
| MACOMB TOWNSHIP                 | 1,184         | 1,087        | 25         | 72         | 287          | 279          | 5          | 3         |
| RAY TOWNSHIP                    | 31            | 31           | 0          | 0          | 31           | 30           | 0          | 1         |
| RICHMOND TOWNSHIP               | 35            | 35           | 0          | 0          | 23           | 23           | 0          | 0         |
| SHELBY TOWNSHIP                 | 684           | 623          | 15         | 46         | 456          | 451          | 3          | 2         |
| WASHINGTON TOWNSHIP             | 213           | 204          | 1          | 8          | 109          | 109          | 0          | 0         |
| UNKNOWN MCD                     | 0             | 0            | 0          | 0          | 8            | 7            | 1          | 0         |

## LEADING CAUSES OF DEATH

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

Leading Causes of Death and Age-Adjusted Death Rates,  
Macomb County Residents, Michigan Residents, 2003

| Rank in Michigan | Cause of Death                     | Number of Deaths |          | Rate of Deaths |          |
|------------------|------------------------------------|------------------|----------|----------------|----------|
|                  |                                    | Macomb           | Michigan | Macomb         | Michigan |
| 1                | Heart Disease                      | 2330             | 25845    | 256.4          | 252.4    |
| 2                | Cancer                             | 1740             | 19574    | 196.1          | 192.0    |
| 3                | Stroke                             | 423              | 5412     | 46.2           | 52.9     |
| 4                | Chronic Lower Respiratory Disease  | 361              | 4427     | 40.2           | 43.8     |
| 5                | Unintentional Injuries (Accidents) | 175              | 3278     | 20.6           | 32.3     |
| 6                | Diabetes Mellitus                  | 179              | 2620     | 20.1           | 25.8     |
| 7                | Alzheimer's Disease                | 112              | 2114     | 12.1           | 20.6     |
| 8                | Pneumonia/Influenza                | 139              | 1932     | 15.1           | 18.9     |
| 9                | Kidney Disease                     | 141              | 1655     | 15.5           | 16.3     |
| 10               | Intentional Self-Harm (Suicide)    | 92               | 1018     | 11.0           | 10.0     |
|                  | All Other Causes                   | 1555             | 18431    | 175.9          | 181.4    |
|                  | Total                              | 7247             | 86306    | 809.2          | 846.4    |

Age-adjusted death rates use a "standard" population with an age distribution equal to that of the total population of the United States for the year 2000

Source: 2003 Michigan Resident Death File, Division for Vital Records and Health Statistics  
Michigan Department of Community Health

# Selected Health Indicators

## MATERNAL AND INFANT HEALTH - 2003

Most maternal and infant health indicators for Macomb County compare favorably with Statewide figures.

| Maternal and Infant Indicators | Macomb County | Michigan     |
|--------------------------------|---------------|--------------|
| Total Births                   | 10328         | 130850       |
| Teen Births (<20 Yr. Of Age)   | 5.2%          | 9.5%         |
| Low Birthweight (1)            | 7.8%          | 8.2%         |
| Very Low Birthweight (2)       | 1.5%          | 1.7%         |
| Preterm (3)                    | 11.2%         | 11.2%        |
| Infant Mortality Rate (4)      | 5.8 +/- 0.9   | 8.2 +/- 0.3  |
| White Infant Mortality Rate    | 5.1 +/- 0.9   | 6.2 +/- 0.3  |
| Black Infant Mortality Rate    | 18.6 +/- 6.7  | 17.6 +/- 1.0 |
| Neonatal Mortality Rate (5)    | 4.1 +/- 0.7   | 5.6 +/- 0.2  |

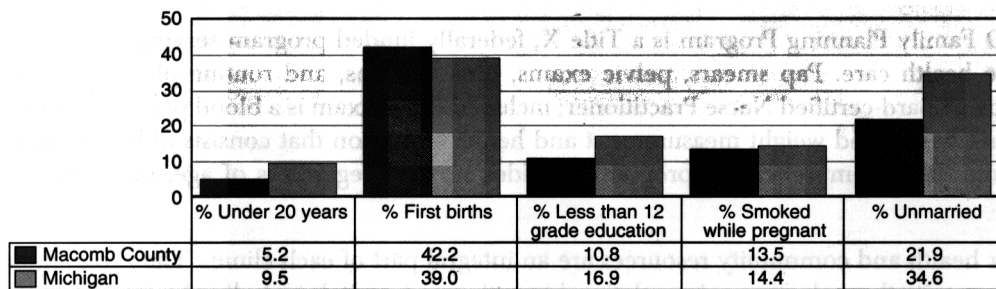
Notes:

- (1) Low weight births are less than 2,500 grams.
- (2) Very low weight births are less than 1,500 grams.
- (3) Preterm births are infants born prior to 37 completed weeks of gestation.
- (4) Infant deaths per 1,000 live births.
- (5) Infant deaths that occurred within the first 27 days of life per 1,000 live births.

Source:

Michigan 2003 Resident Birth-Death Matched Files  
 Division for Vital Records and Health Statistics, Michigan Department of Community Health

## SELECTED MATERNAL CHARACTERISTICS - 2003



## TOP TEN COMMUNICABLE DISEASES IDENTIFIED IN MACOMB COUNTY - 2004

|                                      |        |
|--------------------------------------|--------|
| Influenza-Like Illness .....         | 62,532 |
| Chlamydia .....                      | 1,048  |
| Varicella (Chickenpox) .....         | 397    |
| Chronic Hepatitis C .....            | 337    |
| Gonorrhea .....                      | 240    |
| Chronic Hepatitis B .....            | 159    |
| Viral Meningitis .....               | 79     |
| Campylobacter .....                  | 64     |
| Salmonella .....                     | 63     |
| Giardia Lambia .....                 | 29     |
| Invasive Streptococcal Disease ..... | 20     |

Source: Michigan Department of Community Health,  
 Communicable Disease Epidemiology, 2004

# Personal Health Services

## PROGRAM SUMMARY, FISCAL YEAR 2003/2004

| PROGRAM                                       | PEOPLE SERVED | PROGRAM                                                | PEOPLE SERVED |
|-----------------------------------------------|---------------|--------------------------------------------------------|---------------|
| Breast & Cervical Cancer Screening .....      | 575           | Hearing & Vision Screening .....                       | 158,730       |
| Cardiovascular Disease Risk Reduction .....   | 6,026         | HIV/AIDS Counseling & Testing ..                       | 2,090         |
| Children's Special Health Care Services ..... | 997           | Nutrition Services .....                               | 3,139         |
| Child Passenger Safety Program .....          | 485           | Public Health Nursing .....                            | 7,310         |
| Communicable Disease Reporting .....          | 994           | Sudden/Unexpected Infant Death Syndrome (SIDS) .....   |               |
| Community Health Outreach Program .....       | 850           | Sexually Transmitted Disease Testing & Education ..... | 3,044, 732    |
| Dental .....                                  | 1,498         | Travel Information .....                               | 483           |
| Family Planning .....                         | 3,511         | Tuberculosis .....                                     | 63            |
| Health Education .....                        | 10,196        | Women, Infants and Children (WIC) Supplemental .....   | 8,064/mo.     |

### THE FAMILY PLANNING PROGRAM

The MCHD Family Planning Program is a Title X, federally funded program serving women and men for reproductive health care. Pap smears, pelvic exams, breast exams, and routine physical assessments are performed by a board-certified Nurse Practitioner; included in the exam is a blood pressure check (to rule out hypertension), height and weight measurement and health education that consists of health promotion and risk reduction. This comprehensive program provides services regardless of age, race, sex, residency or income.

Referrals for health and community resources are an integral part of each clinic. The Program collaborates with the community through an ongoing relationship with area hospitals including St. John Hospital and Troy Beaumont Family Practice (Sterling Heights).

Our client base represents a cross-section of the community. Many of these clients have a variety of issues and concerns that present an opportunity for referrals to other resources. Our experienced staff makes every effort to match community resources with client needs.

An innovative marketing strategy was implemented, in cooperation with the Women Infant and Children (WIC) Program, in an effort to reach clients who have complex needs. This strategy has increased WIC client access to Family Planning services and reinforces our overall programmatic goal of providing collaborative, community-based services, meeting the needs of Macomb County residents.

## *Personal Health Services*

### **TUBERCULOSIS CONTROL PROGRAM DIRECTLY OBSERVED THERAPY (DOT) PROGRAM**

The Macomb County Health Department provides medication for TB disease free of charge for Macomb County residents, along with diagnostic tests, pulmonary consultation, and management of TB cases. One of the main obstacles to successful treatment of TB is the number of antibiotics that must be taken and the length of time that these medications need to be taken, which can vary from six months to a year. Direct Observation Therapy (DOT) is a treatment technique that has been successful in decreasing TB case rates. The Health Department's TB Control Program employs public health nurses to manage clients on DOT. These nurses meet patients in county offices, at the Health Department, patient homes or workplaces, or other community settings in order to complete TB therapy.

During 2004 the TB Control Program identified fifteen (15) active cases of TB in county residents. Additionally, over forty (40) clients received treatment for latent or dormant TB infections and 3,700 Tuberculin skin tests were administered at the three health center clinics.

### **HEALTHY KIDS ~ HEALTHY HEARTS PROGRAM**

The National Center for Health Statistics reports that the number of students that are classified as overweight has almost tripled over the last 30 years. Currently, 11% of Michigan children are classified as overweight. Over one-half of overweight children will become overweight adolescents, and of these, 70% - 80% will remain overweight as adults. Unfortunately, Michigan ranks the third worst among the states for rates of obesity and has been among the 10 heaviest states for the past 14 years.

In response to this national crisis, the Macomb County Health Department developed the Healthy Kids ~ Healthy Hearts Program. It is a four-part program designed to teach 4<sup>th</sup> grade students healthy habits that will help prevent cardiovascular disease. The program targets key lifestyle elements including physical activity, nutrition, and tobacco use. Each week the staff meets with the students for one hour. During this time, the students are involved in interactive group activities addressing cardiovascular disease risk factors. Newsletters addressed to parents encourage family involvement. In class, students are separated into teams and participate throughout the week in the Healthy Hearts Challenge. This challenge enables them to earn individual points for healthy behaviors such as increasing physical activity and making healthy food choices. Incentive prizes are awarded to help motivate and encourage the students. The end result is a strong, cohesive unit of community, school, and family all providing the same important messages about heart health.

Created in 2002, Healthy Kids ~ Healthy Hearts has reached over 1,000 students. With the assistance of the school system and parents in the community, the Macomb County Health Department is aiming to empower youth with the ability to take control over their future health and well-being.

## *Personal 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's visits, hospitalizations, and even premature death.

During 2004, Macomb County Health Department Immunization clinics provided the following protective doses to our children:

- Measles/Mumps/Rubella – 5,314 doses
- Varicella (Chickenpox) – 3,489 doses
- Diphtheria/Tetanus/Pertussis (Whooping Cough) – 8,801 doses
- Haemophilus influenzae type b (HIB disease) – 4,991 doses
- Hepatitis B – 8,791 doses
- Polio – 7,762 doses
- Pneumococcal Conjugate – 5,499 doses

Children under 5 are especially susceptible to disease because their immune systems have not built up the necessary defense to fight infection. By immunizing on time (by age 2), parents can protect their children from disease and also protect others at schools or daycares.

It is also important for adults to continue getting immunized. Tetanus can only be prevented with immunization. Tetanus bacteria are widespread in the environment. If vaccination against tetanus were stopped, persons of all ages would be susceptible to this serious disease. Everyone needs a Td booster every 10 years. During 2004, Macomb County Health Department Immunization clinics provided the following protective doses to older children and adults:

- Adult Diphtheria/Tetanus – 5,035 doses
- Hepatitis A – 1,055 doses
- Hepatitis B – 1,366 doses
- Meningitis – 881 doses
- Pneumonia – 655 doses
- Rabies Post-exposure – 107 doses

### **CHILDREN'S HEALTH FAIR – 2004**

The third Saturday in October is Make a Difference Day and is America's largest day of service. On October 23<sup>rd</sup>, 2004, the Children's Health Fair provided 200+ professionals and volunteers the opportunity to help Macomb County families take the best care of their children. In addition to the "head to toe" health screenings, fun and laughter filled the Macomb County Community College Sports & Expo Center. Attendance was 1680, and over 20,000 health information brochures and services were provided.



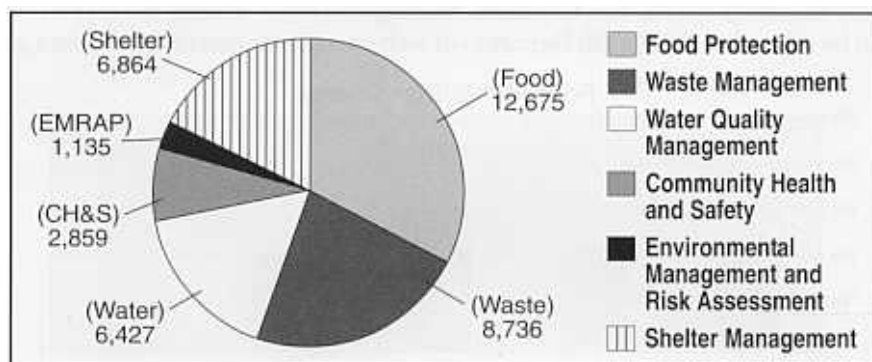
# Environmental Health Services

## SERVICE STATISTICS 2004

Environmental health is defined as the area of public health activity which deals with the protection of human health through the management, control and prevention of environmental factors which may adversely affect the health of individuals. Through the Environmental Health Services Division, the Macomb County Health Department provides a wide spectrum of prevention services for residents and visitors to Macomb County.

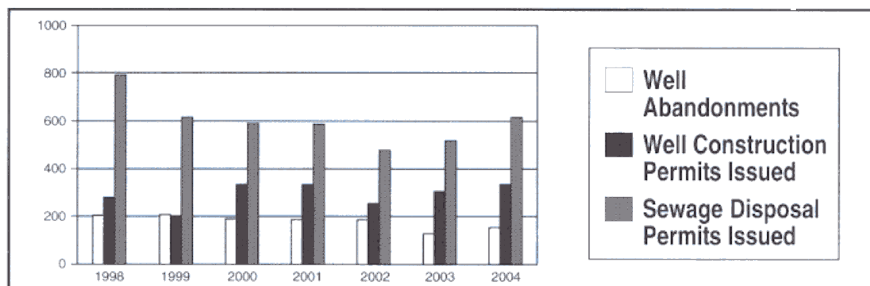
Primary services include Food Protection, Onsite Water Supply, Surface Water Improvement and Monitoring (SWIM) Team, and Environmental Management and Risk Assessment (EMRAP).

**General Environmental Health ..... 38,696**  
**Household Hazardous Waste Collections (pounds) ..... 131,089**  
**Foodborne Illness Complaints ..... 125**



## ONSITE SEWAGE AND WATER SUPPLY PROGRAM

Under this program area, Macomb County Health Department staff ensures that homes and businesses in areas not served by sanitary sewer and municipal water systems have adequate onsite facilities for these purposes. Sites proposed for onsite wells and sewage systems are evaluated for suitability, installation permits are issued where appropriate and inspections of new installations are conducted for compliance with regulations and design standards. These activities are also conducted in close consultation with owners when wells or sewage systems serving existing premises need to be repaired or replaced.



## REGULATIONS GOVERNING ON-SITE SEWAGE AND ON-SITE WATER SUPPLY EVALUATION AND MAINTENANCE

These regulations are designed to protect the quality of our surface water and groundwater resources by requiring owners to have onsite water supply and sewage disposal systems evaluated prior to sale. Evaluations may be conducted by certified evaluators or by Health Department staff. During 2004, 862 sewage disposal systems and 302 well water systems were evaluated. Of those, 133 sewage systems and 45 well systems failed to meet minimum standards and were corrected. Without these regulations, which were passed in 2002, such problems would go undetected and contribute to degraded water quality.

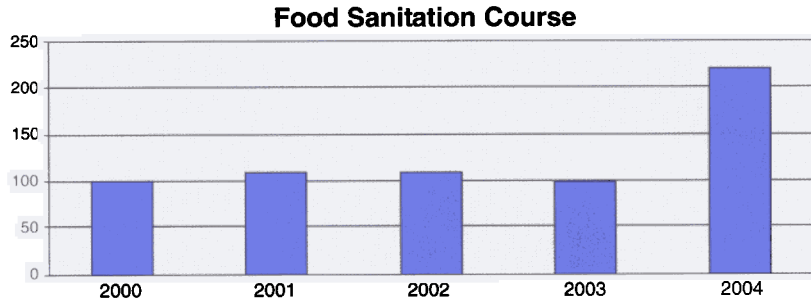
# *Environmental Health Services*

## FOOD SERVICE SANITATION PROGRAM

The "Regulations Governing Food Safety Training for Food Service Establishments", approved by the Macomb County Board of Commissioners, became effective January 1, 2004. The regulation establishes the requirement of a manager at each food service establishment that is certified in safe food handling practices, establishes how a food service manager can become certified, and establishes responsibilities of the licensee of the food service establishment.

In 2004, some 200+ food service managers successfully completed the certified manager course offered by the Macomb County Health Department. For information on becoming a certified manager and classes offered by the Macomb County Health Department, contact the Environmental Health Services Division at 586-469-5236.

A copy of the regulation may be obtained at the Environmental Health office of the Macomb County Health Department, 43525 Elizabeth Road, Mt. Clemens, Michigan, 48043, during normal business hours. The regulation can also be viewed on the Health Department web site at [www.macombcountymi.gov/publichealth/](http://www.macombcountymi.gov/publichealth/)



Total licensed food service facilities in Macomb County = 2,269

| Number Of Inspection Services Performed In 2004 |       |
|-------------------------------------------------|-------|
| Food Service Inspections .....                  | 4,307 |
| Follow-up Inspections .....                     | 1,531 |
| Temporary Food Inspections .....                | 385   |
| Food Service Construction Plans Reviewed .....  | 160   |
| Food Borne Illness Investigations .....         | 125   |
| Food Service Complaints Investigated .....      | 313   |

## WEST NILE VIRUS MONITORING

In 2004, the Environmental Health Services Division continued to monitor the county for West Nile Virus activity. Surveillance began the first week of June and ended the first week of September. Mosquito traps were set out at several locations and were rotated around the county each week. One mosquito pool tested positive for West Nile Virus on August 10, 2004.

The Health Department tracked reports of dead crows and blue jays and sent birds in good condition to the state for testing. In early August, the department received notification that a dead crow collected in Fraser tested positive for West Nile Virus.

In April 2004, the Board of Commissioners approved the re-establishment of the West Nile Virus Assistance Fund in the amount of \$250,000 to be utilized by county municipalities. Fifteen municipalities requested financial assistance to conduct mosquito control activities such as larvaciding and habitat reduction in addition to educational activities. No human cases were reported in Macomb County in 2004.

Residents can reduce their risk of exposure to West Nile Virus by avoiding contact with mosquitoes:

- Avoid shaded area where mosquitoes are present
- Use insect repellent that contains DEET
- Limit outdoor evening activities
- Maintain window and door screens
- Wear long-sleeved shirts and long pants

In addition, homeowners can reduce the mosquito population by eliminating standing water in their yards. Examples include clogged rain gutters, swimming pools and children's wading pools that are not maintained, standing water in outside containers, in old tires, and on boat covers.

## *Environmental Health Services*

### **LAKE ST. CLAIR REGIONAL MONITORING PROJECT**

In late 2003, the Michigan Legislature allocated \$2.5 million for water quality monitoring in Lake St. Clair, the St. Clair River and the Clinton River Watershed. This three-year project is being administered at the state level by the Michigan Department of Environmental Quality and locally by the Macomb County Board of Commissioners through the Macomb County Health Department, with Oakland, St. Clair and Wayne Counties as partners.

The Lake St. Clair Regional Monitoring Project acquired streamflow and water and sediment quality data during the 2004 sampling season, with emphasis on the effects of major storm events. This included continuous water quality monitoring at 13 fixed stations; automatic and manual grab sampling for one wet weather event (10 events are planned for the entire project); continuous and manual streamflow measurements at 23 locations and rainfall monitoring at five locations. This will continue in 2005.

Samples are being analyzed for numerous physical, chemical and biological parameters. Application of mathematical modeling and statistical analyses will lead to scientifically sound findings and conclusions about conditions of the lake and its major tributaries. Project data will be available on a project web site and will be analyzed for preparation of a comprehensive final report set to be released in 2005.

#### **Progress Made in 2004:**

- Environmental consultants and other contractors were selected and retained through a Request for Proposal process;
- Streamflow and continuous water quality monitoring, at project specified locations, is underway by the USGS;

Planning and design of the project's web site, with an embedded database, are underway by the designated project contractor;

MDEQ's approval of the project's work plan and authorization to begin sampling were received August 23, 2004;

Four sets of dry weather samples, out of 16 planned sets, were collected in September and October 2004;

One wet weather sampling event, out of 10 planned events, was conducted in November 2004;

The project's independent quality control consultant has begun review of the available analytical results data prior to authorization for loading onto the database;

Concurrent with these monitoring efforts, the Macomb County Health Department continued its seasonal Lake St. Clair Assessment for the seventh consecutive year; and resulting water and sediment data will become part of the project database.

## *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 utilization of 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 both wild and domestic animals, removal of deceased animals from roadways, and placement services for exotic animals.

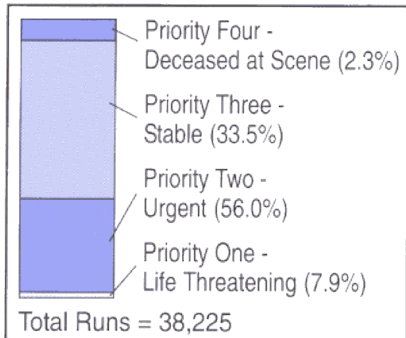
|                               | <u>2000</u> | <u>2001</u> | <u>2002</u> | <u>2003</u> | <u>2004</u> |
|-------------------------------|-------------|-------------|-------------|-------------|-------------|
| Total Animals Processed ..... | 12,441      | 12,691      | 12,908      | 12,350      | 12,906      |
| Returned to Owners .....      | 1,359       | 1,433       | 1,487       | 1,261       | 1,441       |
| Total Adoptions .....         | 1,694       | 1,769       | 1,627       | 1,445       | 1,443       |
| Dogs/Puppies .....            | 769         | 848         | 808         | 760         | 704         |
| Cats/Kittens .....            | 856         | 893         | 764         | 611         | 666         |
| Others .....                  | 69          | 28          | 55          | 74          | 73          |

## *Emergency Preparedness*

With ongoing funding from the Centers for Disease Control and Prevention (CDC) the Macomb County Health Department continued to participate in regional emergency preparedness planning activities with Oakland and St. Clair Counties, area hospitals, and other community partners. The department developed response plans for various bioterrorism agents which included backup generators at department facilities, purchased a mass fax system, and developed plans to renovate the county morgue. These activities will allow the department to continue operations in the event of a power outage, rapidly communicate with community partners such as schools, hospitals, and physicians in the event of a public health emergency, and better manage mass fatalities that could be associated with a terrorist attack. The department also participated in a statewide smallpox exercise and a full-scale regional plague exercise with Oakland and St. Clair Counties, area hospitals, and Selfridge Air National Guard Base. Additional funds were received in 2004 as part of the Federal Cities Readiness Initiative (CRI). These funds will be used to develop a plan in collaboration with county municipalities to dispense antibiotic medications to residents of the county within a period of 48-72 hours in the event of an intentional release of anthrax.

# Emergency Medical Services

## E.M.S. Runs By Priority Level

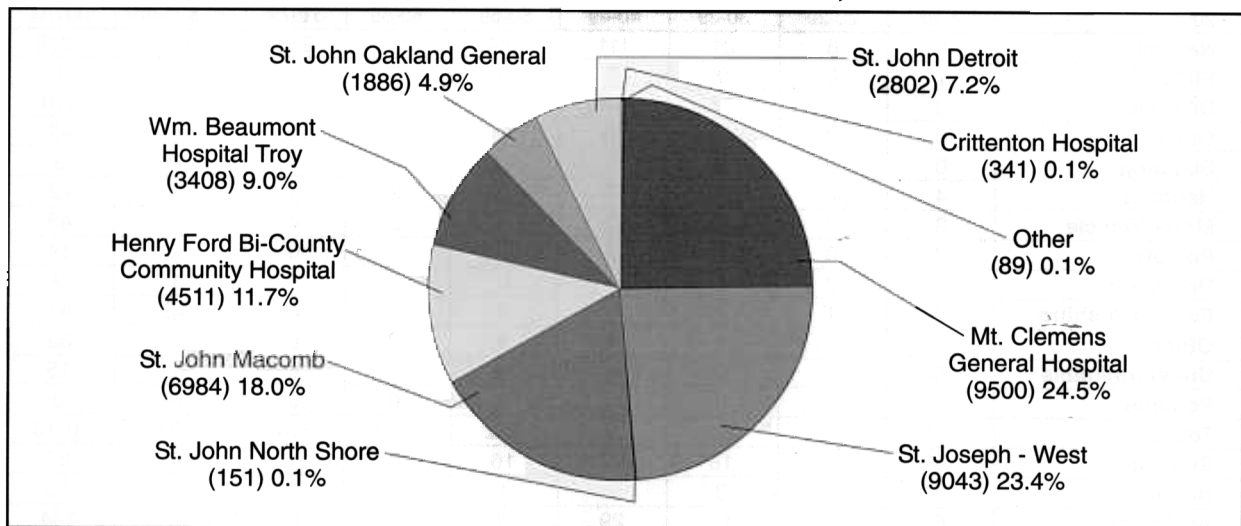


Emergency Medical Services operates under the Public Health Code and is under the jurisdiction of the Macomb County EMS Medical Control Authority/Board. This Authority/Board is charged by law to oversee the provision of EMS in the county and holds accountable prehospital providers and personnel, to policies/protocols adopted by the Authority/Board.

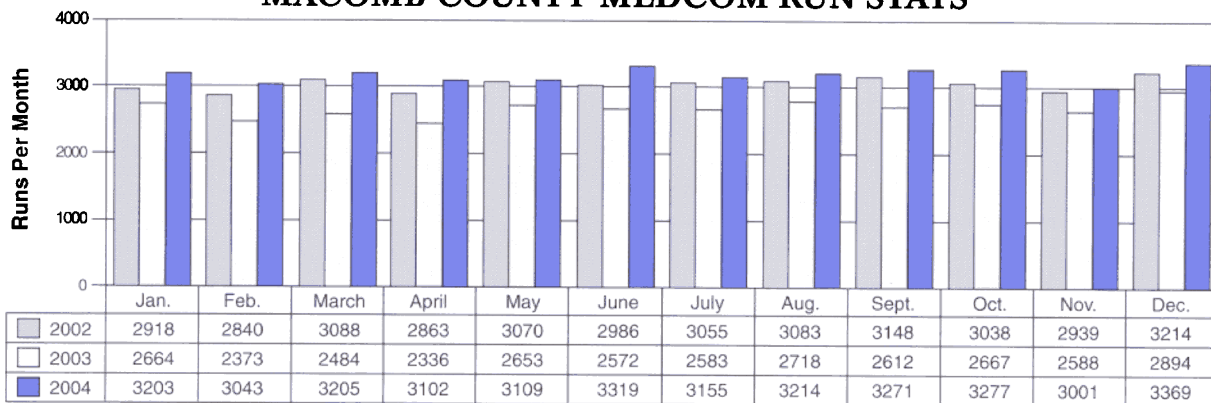
The Authority/Board consists of participating hospitals, prehospital providers both public and private, and representatives of police, fire, consumer and public health. The Authority/Board acts as an advisory to the Macomb County Board of Commissioners who also has a representative on the board.

The Emergency Medical Services system provides a quick response to all citizens in crisis with an advanced system covering the entire county. Through radio communications, prehospital personnel have access to emergency facility physicians for necessary medical direction and transport to the closest appropriate facility.

## MACOMB COUNTY EMERGENCY MEDICAL RUN DESTINATIONS BY HOSPITAL, 2004



## MACOMB COUNTY MEDCOM RUN STATS



Source: Macomb County EMS Statistics

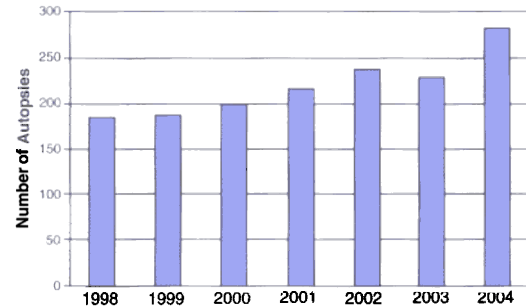
## Office Of the Medical Examiner

Operating administratively under the Macomb County Health Department, 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 issuance of death certificates for these cases. This investigation provides information relative to criminal prosecution in appropriate cases, settlement of estates, and public health statistics on communicable disease and other mortality data.

In 2004, the Office of the Medical Examiner performed 283 autopsies and issued 2,211 cremation permits. In September of 2004, the Office of the Medical Examiner began taking reports of home hospice deaths. These deaths are tracked separately from regular Medical Examiner cases. From September through December 2004, 340 home hospice deaths were reported.

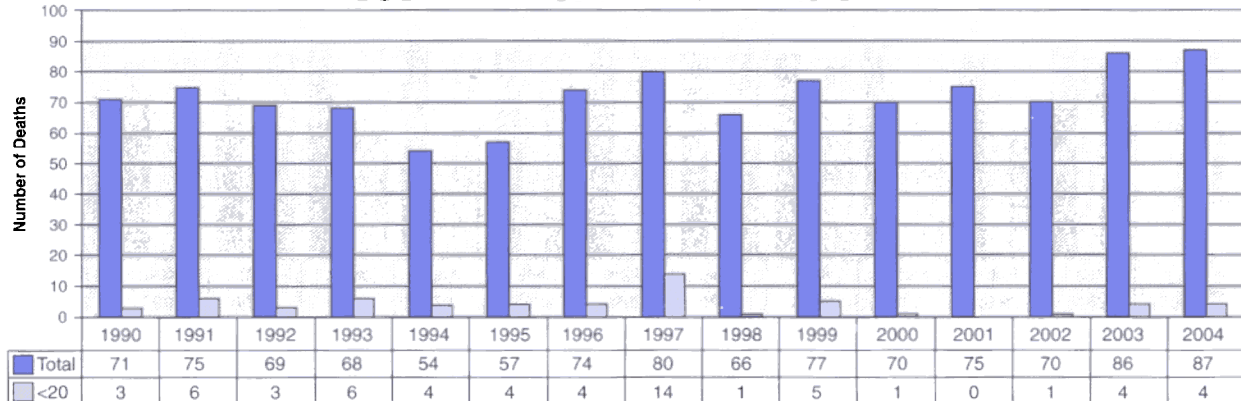
A Medical Examiner Investigator is available at all times to respond to calls from the police, hospital personnel or hospice personnel.



### MANNER OF DEATH: 2004 AGE BREAKDOWN OF MEDICAL EXAMINER CASES

| 2004             | < 20      | 20-29     | 30-39     | 40-49      | 50-59      | 60-69      | 70-79      | 80 & Older | TOTAL       |
|------------------|-----------|-----------|-----------|------------|------------|------------|------------|------------|-------------|
| Natural          | 5         | 8         | 21        | 111        | 184        | 211        | 283        | 455        | 1278        |
| SIDS             | 1         | 0         | 0         | 0          | 0          | 0          | 0          | 0          | 1           |
| Drug OD          | 3         | 15        | 31        | 34         | 22         | 2          | 2          | 1          | 110         |
| Guns             | 0         | 3         | 10        | 12         | 5          | 6          | 2          | 4          | 42          |
| Stabbing         | 0         | 0         | 0         | 0          | 0          | 0          | 1          | 2          | 3           |
| Hanging          | 4         | 2         | 2         | 5          | 6          | 2          | 1          | 0          | 22          |
| Motor Vehicle    | 3         | 7         | 4         | 8          | 7          | 2          | 4          | 8          | 43          |
| Poison           | 0         | 0         | 4         | 4          | 5          | 0          | 0          | 1          | 14          |
| Drowning         | 1         | 2         | 1         | 4          | 0          | 0          | 0          | 1          | 9           |
| Fall or Crushing | 0         | 1         | 3         | 3          | 7          | 6          | 8          | 13         | 41          |
| Other            | 7         | 1         | 6         | 7          | 4          | 2          | 0          | 5          | 32          |
| Undeterminable   | 5         | 1         | 0         | 5          | 2          | 1          | 0          | 1          | 15          |
| Pending          | 0         | 0         | 0         | 0          | 0          | 0          | 0          | 0          | 0           |
| <b>Totals</b>    | <b>29</b> | <b>40</b> | <b>82</b> | <b>193</b> | <b>242</b> | <b>232</b> | <b>301</b> | <b>491</b> | <b>1610</b> |
| <b>Suicides</b>  | <b>4</b>  | <b>4</b>  | <b>18</b> | <b>23</b>  | <b>16</b>  | <b>12</b>  | <b>4</b>   | <b>6</b>   | <b>87</b>   |
| <b>Homicides</b> | <b>5</b>  | <b>3</b>  | <b>3</b>  | <b>1</b>   | <b>1</b>   | <b>0</b>   | <b>1</b>   | <b>1</b>   | <b>15</b>   |
| <b>Accidents</b> | <b>6</b>  | <b>15</b> | <b>17</b> | <b>29</b>  | <b>28</b>  | <b>9</b>   | <b>13</b>  | <b>27</b>  | <b>144</b>  |

### SUICIDES IN MACOMB COUNTY, 1990 THRU 2004 TOTAL AND UNDER 20 YEARS OLD



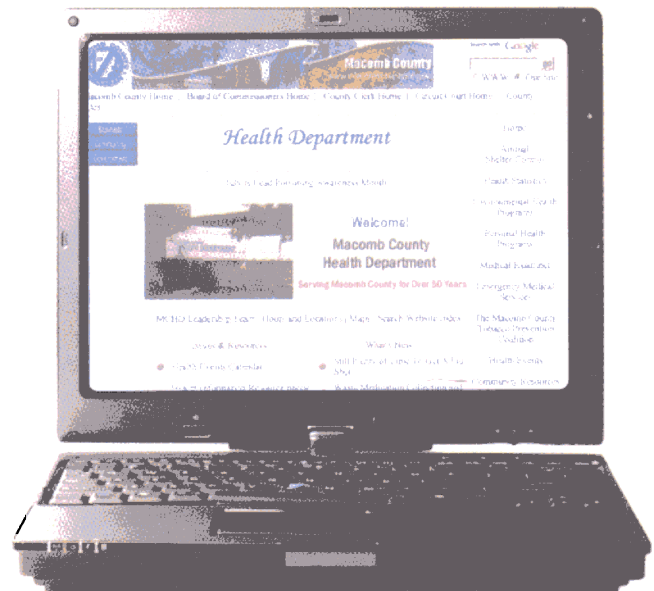
## *Come visit us on the web...*

Do you have questions about your communities 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](http://www.macombcountymi.gov/publichealth)

The Macomb County Health Department Website contains information including such services as:

- **Animal Shelter/Control**
- **Restaurant Inspections**
- **Personal and Environmental Health**
- **The Macomb County Tobacco Prevention Coalition**
- **1999, 2002 Macomb County Behavioral Risk Factor Survey**
- **County Medical Examiners Office**
- **Emergency Medical Services**

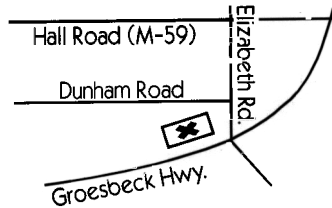


In addition, the website also contains a **“What’s New”** section, a health calendar and links to other community resources.

**For further information call  
(586) 469-5699**

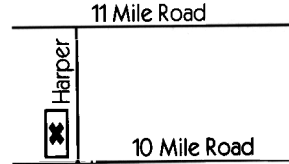
## CENTRAL HEALTH SERVICE CENTER

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



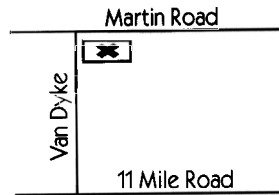
## SOUTHEAST HEALTH CENTER

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



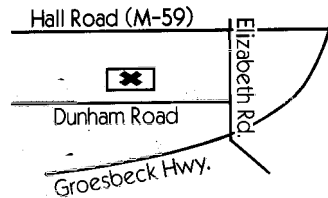
## SOUTHWEST HEALTH CENTER

27690 Van Dyke  
Warren,  
Michigan 48093  
(586) 573-2210



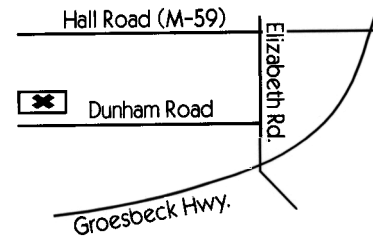
## WIC/(WOMEN, INFANTS & CHILDREN)

Verkuilen Building  
21885 Dunham Road  
Clinton Township,  
Michigan 48036  
(586) 469-5471



## MACOMB ANIMAL SHELTER

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



## KNOLLWOOD OFFICE CENTER

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



## NINE MILE FACILITY

6800 E. 9 Mile Road  
Warren,  
Michigan 48091

