

MACOMB COUNTY HEALTH DEPARTMENT 2007 ANNUAL REPORT

Provided public health information through media relations

RESPONDED TO COMPLAINTS ON ENVIRONMENTAL ISSUES

Improved Nutritional choices *Provided immunizations* Prepared for emergencies

Monitored bacteria levels in recreational water

Inspected sewage and septic systems Inspected food service facilities for safety and sanitation

Reduced risks, incidents of lead exposure

Improved health and safety in childcare facilities **ASSURED WATER QUALITY**

Enhanced tobacco awareness

Tested for HIV and sexually transmitted disease (STD) Provided nursing services

Provided dental services **Monitored and investigated disease to control spread**

Empowered individuals with health education

Count the Ways Public Health Made a Difference in 2007

BOARD OF COMMISSIONERS

William A. Crouchman **
Chairman

Dana Camphous-Peterson **
Vice-Chair

Leonard Haggerty **
Sergeant-At-Arms

Andrey Duzyj
Jon M. Switalski **
Sue Rocca **
Ed Szczepanski
Keith Rengert **
Paul Gielegem **
Sarah Roberts
Don Brown

Marvin E. Sauger
Susan L. Doherty **
David Flynn
Peter J. Lund
Carey Torrice **
Kathy Tocco
Kathy D. Vosburg
Philis DeSaele **

Phillip A. DiMaria
Joan Flynn **
Robert Mijiac **
Brian Brdak **
Ed Bruley
Betty Slinde
Leon Drolet **

** HEALTH SERVICES COMMITTEE

Philis DeSaele **
Chairman

Leonard Haggerty **
Vice-Chair

Count the Ways Public Health Made a Difference in 2007

LETTER FROM THE DIRECTOR

Dear Friends and Colleagues:

It is my pleasure as Director of the Macomb County Health Department to present our 2007 Annual Report. The purpose of this report is to summarize some of the 450,000 public health services and activities provided to the citizens of Macomb County last year.

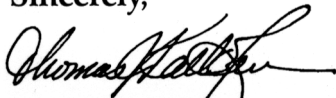
Highlights for 2007 include both new and ongoing health services in Macomb County

- The Emergency Preparedness Program signed Memoranda of Understanding with all the County's cities, villages, and townships to assure their cooperation in the City Readiness Initiative (CRI).
- The WIC (Women, Infants, and Children) Supplemental Food Program enrolled 2,500 new pregnant women and 3,200 new infants in the course of providing over 25,000 total services.
- With core funding of \$1 million from the United States EPA, matching funds of approximately \$800,000 from Macomb and St. Clair Counties and nine involved communities, and additional support from the State of Michigan, we installed real-time water sampling, monitoring, and notification equipment at all nine drinking water treatment plants from Port Huron to Mt. Clemens.

- We partnered with the Sheriff's Department and the Department of Senior Citizen Services to collect 71 pounds of unwanted over the counter medications and 10 pounds of controlled medications, preventing both accidental poisonings and pollution of our water supply.
- Our Environmental Management and Risk Assessment Program (EMRAP) collected 228,420 pounds of household hazardous waste from 2,937 Macomb County residents.
- We opened a new, state-of-the-art Medical Examiner Facility to provide high-quality professional services to its citizens in their time of need.

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

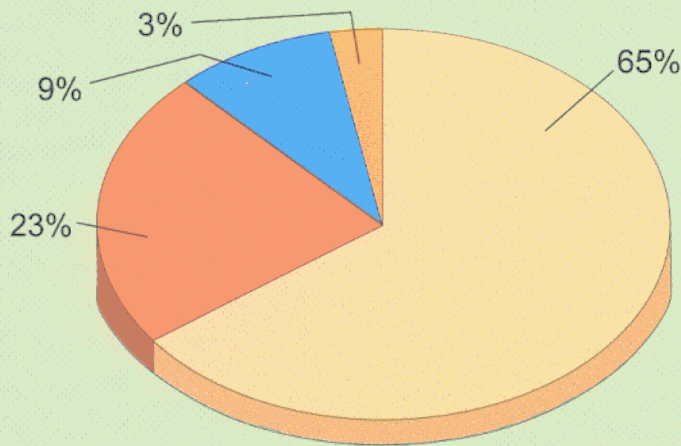
*Macomb County Health Department has received Accreditation
with Commendation from the Michigan Public Health
Accreditation Commission*

Count the Ways Public Health Made a Difference in 2007

BUDGET

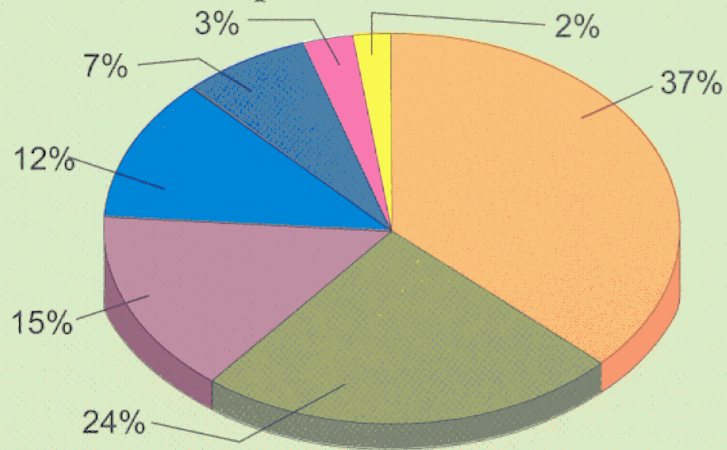
MACOMB COUNTY HEALTH DEPARTMENT 2007 BUDGET

Revenues: \$28,348,457



- County Contribution
- State/Federal Grants
- Fees
- Other

Expenses: \$28,348,457



- Family Health Services
- Environmental Health
- Administration
- Health Promotion / Risk Reduction
- Animal Shelter
- Emergency Preparedness
- Medical Examiner

Count the Ways Public Health Made a Difference in 2007

PUBLIC HEALTH INFORMATION

EASIER SURFING, A-Z INDEX, ENHANCED SEARCH CAPACITY, AT THE NEW HEALTH DEPARTMENT WEB SITE

- Animal Shelter / Pet Adoptions
- On-line Restaurant Inspections
- Beach / Water Quality Reports
- County, City, and Township Birth & Death Stats
- Public and Environmental Health Services
- 1999, 2002, and 2005 Behavior Risk Factor Surveys
- County Medical Examiner's Office
- Child & Adult Immunizations



www.macombcountymi.gov/publichealth

Count the Ways Public Health Made a Difference in 2007

HEALTH INDICATORS

MATERNAL & INFANT CHARACTERISTICS (2006)

Live Births	10,128
White	8,602
Black	918
All Others	608

First Births	4,145
White	3,542
Black	349
All Others	254

Low Birth Weight (Below 2500 GRMS)

Total	817
White	641
Black	131
All Others	45

Very Low Birth Weight (Below 1500 GRMS)

Total	139
White	98
Black	34
All Others	7

Infant Deaths

Total	51
White	38
Black	11
All others	2

Infant Death Rates

Total	5.0
White	4.4
Black	12.0
All Others	3.3

Count the Ways Public Health Made a Difference in 2007

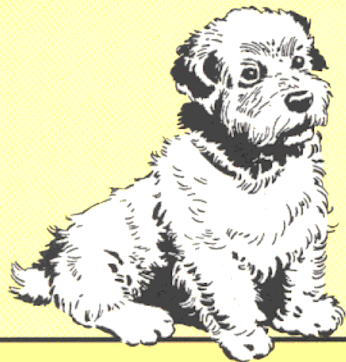
HEALTH INDICATORS

LEADING CAUSES OF DEATH IN MACOMB COUNTY (2006)

RANKING	CAUSE OF DEATH	NUMBER	RATE
1	Diseases of the Heart	2,256	270.9
2	Cancer	1,750	210.1
3	Stroke	420	50.4
4	Chronic Lower Respiratory Disease	375	45.0
5	Accidents	281	33.7
6	Diabetes Mellitus	236	28.3
7	Alzheimer's Disease	130	15.6
8	Kidney Disease	122	14.6
9	Pneumonia and Influenza	114	13.7
10	Suicide	88	10.6

Count the Ways Public Health Made a Difference in 2007

ANIMAL SHELTER



- ▶ pet adoptions
- ▶ shelter for lost or unwanted animals
- ▶ animal cruelty investigations
- ▶ enforcement of State dog laws
- ▶ dog & cat licensing

	2004	2005	2006	2007
Animals Received	12,935	11,700	14,300	12,856
Returned to Owners	1,456	1,179	1,198	1,043
Adopted	1,459	1,370	1,354	1,167
Received Stray	6,169	5,317	5,677	5,371
Given Up by Owners	4,299	4,238	4,975	2,902
Exotic / Other (pocket pets)	239	115	126	324
Wild	1,612	1,487	2,940	3,399
Received Deceased	625	561	577	882

Count the Ways Public Health Made a Difference in 2007

ENVIRONMENTAL HEALTH

ONSITE SEWAGE DISPOSAL AND ONSITE WATER SUPPLY PROGRAMS

Of the **570** property transfer evaluations processed, **92** sewage systems and **35** water supply systems were found to be substandard, requiring corrections prior to transfer.

On-site sewage permits issued	
New Residential	49
Residential Replacement	232
On-site water supply permits issued	
New	65
Replacement / Repair	76
Property Transfer Evaluations	
Sewage Disposal	420
Water Supply	150

ENVIRONMENTAL MANAGEMENT AND RISK ASSESSMENT PROGRAM (EMRAP)

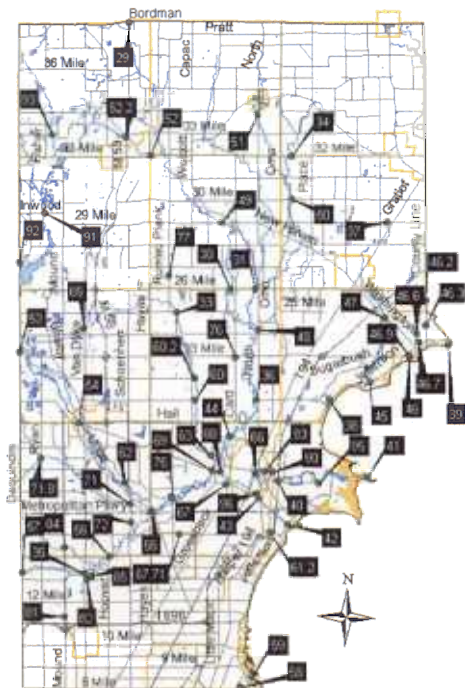
2,937 Macomb County residents delivered **228,420** pounds of household hazardous waste (HHW) which included:

- 883 pounds of unwanted medications
- 718 pounds of mercury
- 37,793 pounds of household batteries
- 16,583 pounds of computer waste
- 3,141 gallons of waste oil

Count the Ways Public Health Made a Difference in 2007

ENVIRONMENTAL HEALTH

SURFACE WATER IMPROVEMENT & MONITORING TEAM (SWIM)



From April through September each year water samples are collected twice weekly at six public beaches as part of the beach monitoring program; weekly surface water sampling continues year round at over 60 sites around the county.

The **Illicit Discharge Elimination Program (IDEP)** involves elimination of illicit discharges to the county's waterways through sampling and investigations. This was accomplished by:

- Surveying over 745 miles of open drains, rivers and streams
- Identifying and testing more than 5,130 outfalls
- Performing investigations at 7,134 residential, commercial, industrial and institutional facilities
- Approximately 17% were found to have an illicit discharge that required correction

Count the Ways Public Health Made a Difference in 2007

ENVIRONMENTAL HEALTH

SHELTER MANAGEMENT

97 inspections of child care and adult foster care facilities

2,858 residential housing maintenance inspections on a contractual basis and

4,911 follow-up inspections

PUBLIC SWIMMING POOL PROGRAM

Yearly inspections address the condition of the pool structure, the enclosure area, water filtering equipment and safety equipment for all licensed public swimming pools and spas in Macomb County.

Licensed public swimming pools in
Macomb County = 344

Inspections Conducted = 492 Samples Collected = 612

FOOD SERVICE SANITATION PROGRAM

The **Food Safety Training** regulation reduces the incidence of foodborne illness associated with food obtained from food service establishments. **223** food service managers completed the certified manager course and **61** renewed their certification.

Total licensed food service facilities in Macomb County = 2,384

Food Service Inspections	4,460	Food Service Construction Plans Reviewed	142
Follow-up Inspections	1,734	Food Borne Outbreak Investigations	16
Temporary Food Inspections	372	Food Service Complaints Investigated	401

Count the Ways Public Health Made a Difference in 2007

EMERGENCY PREPAREDNESS PROGRAM

Over **563** National Incident Management System (NIMS) certified programs have been completed by health department staff and & community members

21,136 staff and community members were educated on how to prepare for an influenza pandemic

- Emergency Site Plans for 14 schools and designated Distribution Node (Warehouse Operations) were completed
- 1,100 trained volunteers from federal, state and local organizations support the efforts of the Macomb County Health Department / Macomb County Emergency Management Department

EMERGENCY PREPAREDNESS PROGRAM

In the event of a public health emergency, the health department can:

- Issue health advisories, alerts and guidelines
- Coordinate the dispensing of medications and/or vaccines

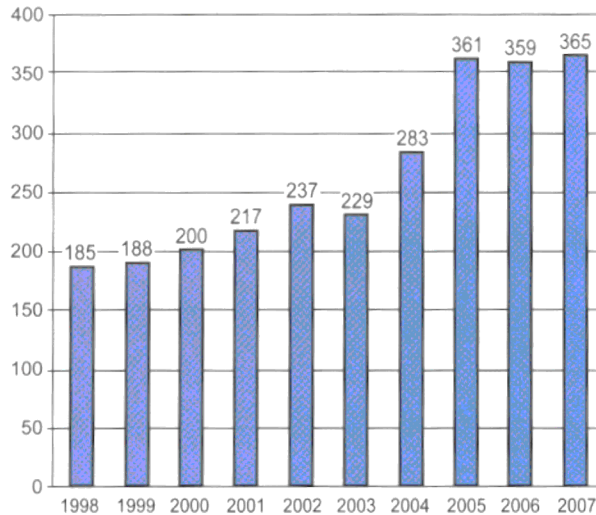
Health Department EPP participates in:

- Macomb County Office of Emergency Management
- Urban Area Security Initiative
- Region 2 North Bioterrorism Response Network
- Safe Macomb

Count the Ways Public Health Made a Difference in 2007

OFFICE OF THE MEDICAL EXAMINER

AUTOPSIES PERFORMED PER YEAR



The Office of the Medical Examiner investigated:

1,596 deaths

501 examinations

365 autopsies

142 external exams

1,157 home hospice death reports

Issued 2,467 cremation permits

Count the Ways Public Health Made a Difference in 2007

DISEASE CONTROL

Public health nurses investigate communicable disease reports

Disease Control Program	Individuals Served
Communicable Disease Investigations	1,432
HIV / AIDS Counseling and Testing	1,689
Sexually Transmitted Disease Testing	3,238
Sexually Transmitted Disease Education	2,545

**Macomb County Health
Department has 6
laboratory sites that
performed over 17,000
tests in 2007**

and provide information to Macomb residents regarding disease transmission.

Foreign Travel Information	605
Tuberculosis Control Program	225
School Immunization Program	28,800

Count the Ways Public Health Made a Difference in 2007

DISEASE CONTROL

TOP TEN COMMUNICABLE DISEASES IN MACOMB COUNTY

	2005	2006	2007
Influenza-like Illness	73,803	62,393	64,963
Chlamydia	1,297	1,380	1,635
Chronic Hepatitis C	334	386	389
Gonorrhea	389	468	446
Varicella (Chickenpox)	395	462	260
Chronic Hepatitis B	188	175	157
Salmonella	77	72	88
Viral Meningitis	94	87	79
Invasive Streptococcus Disease	46	63	64
Campylobacter	58	69	49

Count the Ways Public Health Made a Difference in 2007

FAMILY HEALTH SERVICES

People Served

Children's Special Health Care Services	1,900
Public Health Nursing	8,030
Dental	2,447
Women, Infants and Children (WIC)	9,851

MICHILD / HEALTHY KIDS

1,032 low-income Macomb County children and pregnant women received health insurance

VACCINES FOR CHILDREN

The Department **distributed 86,217 doses** of childhood recommended vaccines to **94 VFC** private physicians for their eligible clients under the age of 19 years.

FAMILY PLANNING

The Family Planning Program serviced **3,284 clients**, providing reproductive education, preventive health information, pelvic exams, Pap smears, and contraceptives at reduced cost.

Count the Ways Public Health Made a Difference in 2007

FAMILY HEALTH SERVICES

Child Immunizations (Birth thru 18)

- Measles/Mumps/Rubella - 3,842 doses
- Varicella (Chickenpox) - 7,029 doses
- Diphtheria/Tetanus/Pertussis - 10,324 doses
- Haemophilus influenzae type b - 4,250 doses
- Hepatitis A - 7,974 doses
- Hepatitis B - 5,047 doses
- Influenza - 6,190 doses
- Polio - 6,236 doses
- Meningitis - 2,685 doses
- Human Papillomavirus - 2,064 doses
- Pneumococcal Conjugate - 5,766 doses

Adult Immunizations (19 Years and Older)

- Hepatitis A - 1,421 doses
- Hepatitis B - 2,168 doses
- Diphtheria/Tetanus/Pertussis- 1,779 doses
- Human Papillomavirus - 807 doses
- Influenza - 9,606 doses
- Meningitis - 327 doses
- Pneumonia - 217 doses
- Shingles Vaccine (Zoster) - 615 doses
- Polio - 117 doses
- Varicella - 641 doses
- Rabies Pre/Post-exposure - 31 doses

84% of all 19-36 months old Health Department clients were completely immunized

74% of all 19-36 month old children in Macomb County were completely immunized

Count the Ways Public Health Made a Difference in 2007

HEALTH PROMOTION

PROVIDED 67,996 CHILDREN VISION SERVICES

- ❖ **49,607** Children had their vision screened in grades 1, 3, 5, 7, and 9
- ❖ **6,164** Of those screened, were referred for further evaluation
- ❖ **11,443** Preschool children had a vision screening
- ❖ **563** Preschool children were referred for further evaluation
- ❖ **219** Special education students completed a vision screening

AND PROVIDED 50,689 CHILDREN HEARING SERVICES

- **36,209** Children had their hearing screened in grades kindergarten, 2, and 4
- **1,296** Of those screened were referred for further evaluation
- **12,330** Preschool children had their hearing screened
- **196** Special education students completed a hearing screening
- **658** Children received evaluations by an ENT physician

Count the Ways Public Health Made a Difference in 2007

HEALTH PROMOTION

HEALTH EDUCATION EMPOWERED INDIVIDUALS

- Educated **21,136** residents, businesses, and first responders on how to prepare for an influenza pandemic
- Screened **2,089** residents for cardiovascular disease risk factors at **106** community sites with follow-up on **633** residents discovered to be at-risk
- Furnished **988 pedometers** at **8** “Moving in Macomb” events promoting good nutrition and exercise
- Provided **84** presentations and **2,147** student contacts for the “**Healthy Kids Healthy Hearts**” program
- Counseled **525** seniors on Type 2 diabetes intervention and prevention
- Provided **300** car seat inspections in which over **75%** had been installed incorrectly

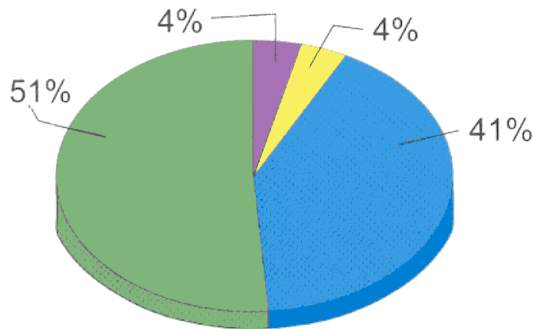
www.healthykidshealthyfutures.com
promotes healthy nutrition and
physical activity behaviors in kids

www.macombtobaccoprevention.com
sponsors of Tobacco Free Macomb

Count the Ways Public Health Made a Difference in 2007

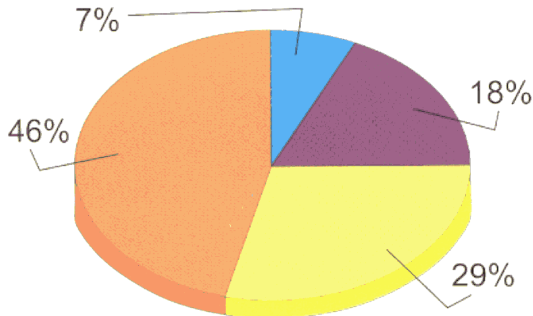
EMERGENCY MEDICAL SERVICES

EMS calls by severity



- Priority One – Life Threatening
- Priority Two – Urgent
- Priority Three – Stable
- Priority Four – Deceased at Scene

EMS calls by age group



- 0 to 17
- 18-35
- 36-54
- 55+

► **Emergency Medical Services** operates under the Public Health Code and is under the jurisdiction of the Macomb County EMS Medical Control Authority/ Board

The **Macomb County EMS Medical Control Authority/ Board** consists of prehospital providers, and representatives of area hospitals, police, fire, and public health

Count the Ways Public Health Made a Difference in 2007
TELEPHONE DIRECTORY OF SERVICES

ANIMAL SHELTER
(586) 469-5115

KNOLLWOOD OFFICE CENTER
(586) 412-3387

SOUTHEAST HEALTH CENTER
(586) 466-6800

**Macomb County
Health
Department**

SOUTHWEST HEALTH CENTER
(586) 465-8090

Central Office
(586) 469-5235

**WIC /(WOMEN, INFANTS
& CHILDREN)**
(586) 469-5471

**OFFICE OF THE
MEDICAL EXAMINER**
(586) 469-5214

Count the Ways Public Health Made a Difference in 2007

TELEPHONE DIRECTORY OF SERVICES

**CHILDREN'S SPECIAL HEALTH
CARE SERVICES**
(586) 466-6855

DENTAL SERVICES
(586) 465-9152

FAMILY PLANNING
(586) 469-5491

IMMUNIZATIONS
Mt. Clemens (586) 469-5372
St. Clair Shores (586) 466-6800
Warren (586) 465-8537

FAMILY HEALTH SERVICES

**MICHILD / HEALTHY KIDS/
PRENATAL CARE HEALTH
INSURANCE**
(586) 469-5492

PUBLIC HEALTH NURSING
Mt. Clemens (586) 469-5520
St. Clair Shores (586) 466-6800
Warren (586) 465-8090

**SUDDEN / UNEXPECTED INFANT
DEATH SYNDROME (SIDS)**
(586) 466-6800

**WOMEN, INFANT & CHILDREN
SUPPLEMENTAL NUTRITION
PROGRAM (WIC)**
(586) 469-5471

Count the Ways Public Health Made a Difference in 2007

TELEPHONE DIRECTORY OF SERVICES

COMMUNITY HEALTH AND SAFETY

- Inspection of public swimming and spa pools
 - Campgrounds
 - Environmental incident consultation
 - West Nile virus and encephalitis surveillance

SHELTER MANAGEMENT

- Group care facilities monitoring
- Contract housing inspections in Warren

ENVIRONMENTAL HEALTH SERVICES

Mt. Clemens (586) 469-5236
Warren (586) 465-8030

FOOD PROTECTION

- Food-borne illness investigations
- Restaurant inspections
 - Food service manager training

WASTE MANAGEMENT

- Toxic and hazardous materials
- On-site sewage treatment
- Property transfer evaluations
 - Household hazardous waste collection

WATER QUALITY MANAGEMENT

- Well water sample collection and analysis
- Well construction permits
- Surface water monitoring and improvement
- Bathing beach monitoring

Count the Ways Public Health Made a Difference in 2007

TELEPHONE DIRECTORY OF SERVICES

**BREAST AND CERVICAL
SCREENING PRGRAM**
(586) 412-3384

**CARDIOVASCULAR DISEASE
RISK REDUCTION PROGRAM**
(586) 412-3387

CHILD PASSENGER SAFETY
(586) 412-3398

**COMMUNICABLE DISEASE
INVESTIGATION**
(586) 469-5473

**COMMUNITY HEALTH
OUTREACH PROGRAM**
Clinton Township (586) 792-8846
Mt. Clemens (586) 469-7694

**Health
Promotion /
Disease
Control Program**

HEALTH EDUCATION
(586) 412-3399

**HIV / AIDS COUNSELING
& TESTING**
(586) 465-8434

NUTRITION SERVICES
(586) 412-3396

**SEXUALLY TRANSMITTED
DISEASES**
(586) 465-9217

TUBERCULOSIS CONTROL
(586) 469-5421

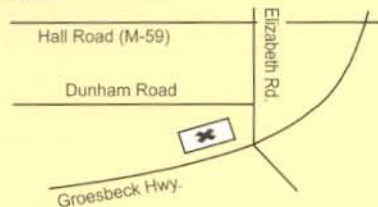
VISION AND HEARING
(586) 412-5945

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FACILITY LOCATION

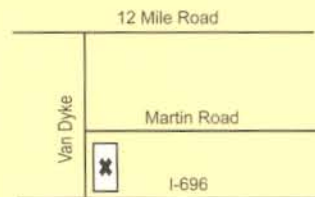
CENTRAL HEALTH CENTER

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



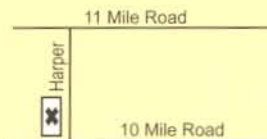
SOUTHWEST HEALTH CENTER

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



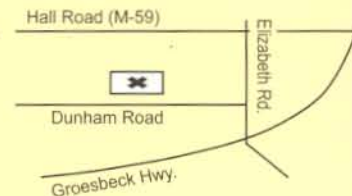
SOUTHEAST HEALTH CENTER

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

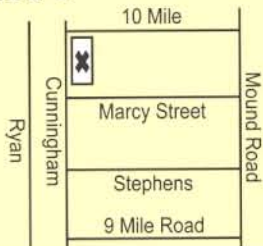


Count the Ways Public Health Made a Difference in 2007

FACILITY LOCATION

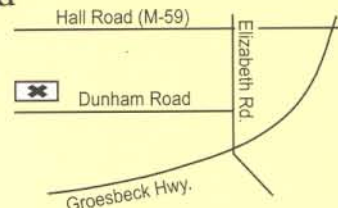
CENTER LINE FACILITY

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

