







**CUYAHOGA COUNTY  
CORONER'S STATISTICAL REPORT**

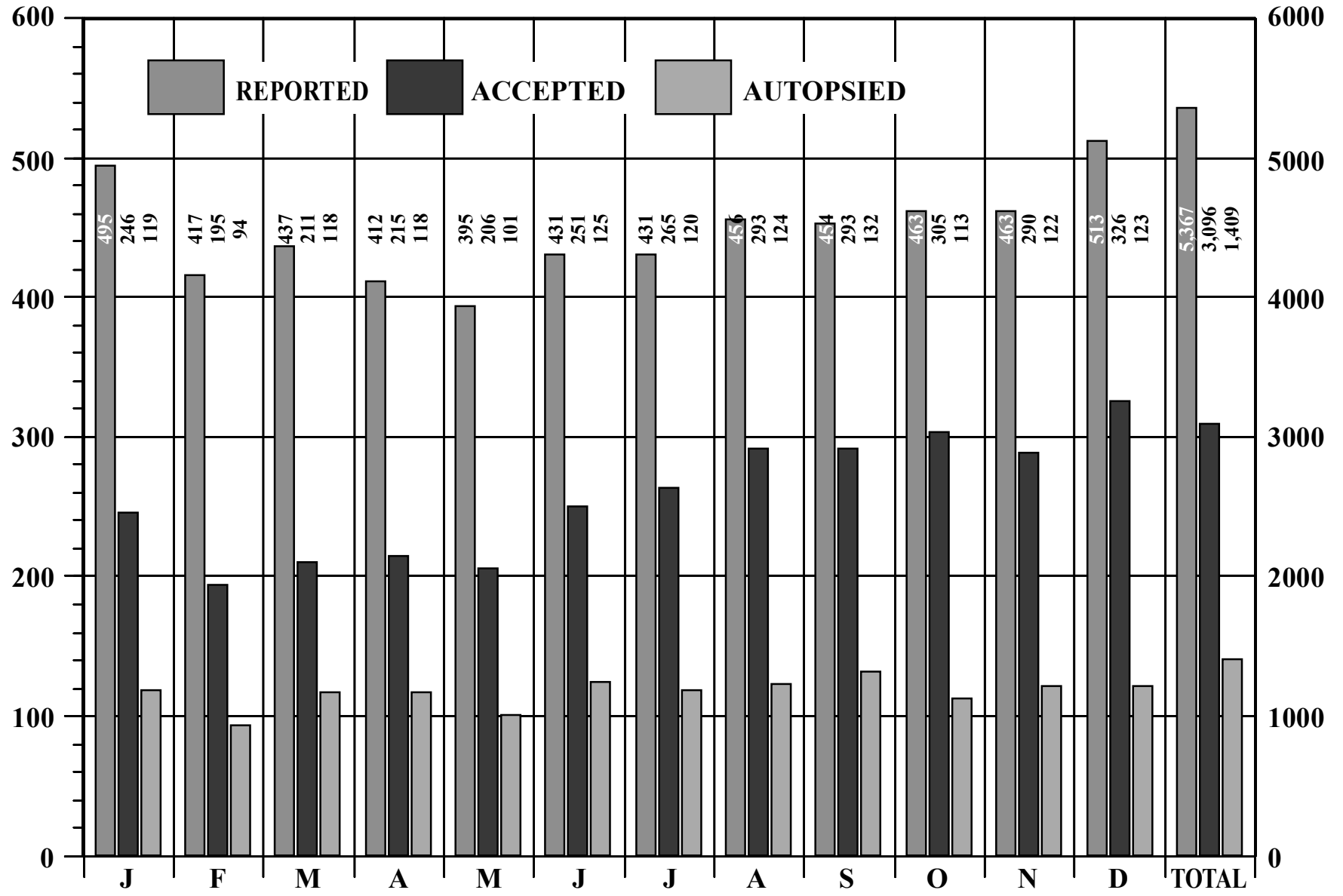
**1998**

**ELIZABETH K. BALRAJ, M.D.  
CORONER**

**SAMUEL R. GERBER BUILDING  
11001 CEDAR AVENUE, CLEVELAND, OHIO 44106**

# NUMBER OF CASES

## 1998 NUMBER OF CORONER'S CASES



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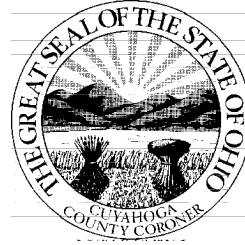
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**The COVER: The new building, housing the Cuyahoga County Coroner's Office since June 5, 1999 located at 11001 Cedar Avenue, Cleveland, Ohio 44106.**

**Coding is classified in Volume 1 and 2 - Ninth Revision of the International Classification of Diseases, World Health Organization.**





**Elizabeth K. Balraj, M.D.**  
Coroner

The Sixtieth Annual Report of the Cuyahoga County Coroner's Office has been prepared in accordance with our tradition of service to our Community. The year Nineteen Ninety-Eight is a memorable year in the history of the Cuyahoga County Coroner's Office because it marks the last year spent in its entirety at the address 2121 Adelbert Road in Cleveland, Ohio.

In 1953 the Coroner's Office was moved from Lakeside Avenue to a then state-of-the-art building situated on the Case Western Reserve University Campus at 2121 Adelbert Road. This then became the site of the Coroner's Office from 1953 through June 5th, 1999. After serving the community well for more than forty-six years it was realized that the time had come when this building would no longer be able to keep up with the gigantic strides that forensic science had taken. In order to meet the demands to keep up with progress, it has become necessary to make plans and preparations to find a new location for the Coroner's Office. The site that has been selected is located at 11001 Cedar Avenue on the Case Western Reserve University Campus. When the construction is completed and the move takes place in 1999 to the new state-of-the-art building it will mark the third time in its history that the Coroner's Office has moved.

The site where the Coroner's Office once stood at 2121 Adelbert Road will only hold memories of the hard work and dedication of the former Coroner and the current Coroner and of their employees past and present and of the numerous medicolegal death investigations that were conducted by them in that building. In remembrance of the past, the 1998 annual report is dedicated to Samuel R. Gerber, M.D., the former Coroner of Cuyahoga County who was instrumental in planning and designing the now "former" Office of the Cuyahoga County Coroner which was located at 2121 Adelbert Road, Cleveland, Ohio 44106.



This report is primarily a statistical summary of our experience. The information set forth conforms to the established patterns of previous reports so that comparisons can be made readily. The tabular format is identical with earlier reports. New tables, charts and maps have been added to further emphasize certain data.

All cases recorded here have been summarized from various aspects. Cases are basically classified according to the official Coroner's Verdict as to the manner of death. Thus, the following categories are used:

**ACCIDENTS IN THE HOME  
ACCIDENTS WHILE AT WORK  
VEHICULAR ACCIDENTS  
ACCIDENTS IN OTHER PLACES  
HOMICIDES  
SUICIDES  
VIOLENCE OF UNDETERMINED ORIGIN  
NATURAL CAUSES  
ABORTIONS  
NEONATAL AND INTRA-UTERINE DEATHS  
CAUSE AND ORIGIN UNDETERMINED**

Cases are further subdivided according to geographical location, monthly incidence, mode, sex-race-age of victims, alcohol incidence by month-sex-race-mode. Additional relationships are indicated through specific tables for various types of cases.

Persons desiring further information should direct their requests to the Coroner. Every effort will be made to supply data requested.



**WHAT IS A CORONER'S CASE?**

SECTIONS 313.11 AND 313.12  
REVISED CODE OF STATE OF OHIO

ō...any person (who) dies as a result of

**CRIMINAL** or other

**VIOLENT** means, or by

**CASUALTY**, or by

**SUICIDE**, or

**SUDDENLY** when in apparent health, or in any

**SUSPICIOUS** or **UNUSUAL** manner...ö

**THE CORONER SHALL KEEP A COMPLETE  
RECORD AS REQUIRED BY THE  
REVISED CODE OF THE STATE OF OHIO**

AVAILABILITY OF PUBLIC RECORD

**Section 149.43(A)** As used in this section:

(1) öPublic recordö means any record that is required to be kept by any governmental unit, including, but not limited to, state, county, city, village, township, and school district units, except medial records, records pertaining to adoption, probation, and parole proceedings, trial preparation records, confidential law enforcement investigatory records, and records the release of which is prohibited by state or federal law.

(2) öConfidential law enforcement investigatory recordö means any record that pertains to a law enforcement matter of a criminal,

quasi-criminal, civil, or administrative nature, but only to the extent that the release of the record would create a high probability of disclosure of any of the following:

(a) The identity of a suspect who has not been charged with the offense to which the record pertains, or of an information source or witness to whom confidentiality has been reasonably promised;

(b) Information provided by an information source of witness to whom confidentiality has been reasonably promised, which information would reasonably tend to disclose his identity;

(c) Specific confidential investigatory techniques or procedures or specific investigatory work product;

(d) Information that would endanger the life or physical safety of law enforcement personnel, a crime victim, a witness, or confidential information source.

(3) öMedical recordö means any document or combination of documents, except births, deaths, and the fact of admission to or discharge from a hospital, that pertains to the medical history, diagnosis, prognosis or medial condition of a patient and that is generated and maintained in the process of medial treatment.

(4) öTrial preparation recordö means any record that contains information that is specifically compiled in reasonable anticipation of, or in defense of, a civil or criminal action or proceeding, including the independent thought processes and personal trial preparation of an attorney.

(B) All public records shall be promptly prepared and made available to any member of the general public at all reasonable times for inspection. Upon request, a person responsible for public records shall make copies available at cost, within a reasonable period of time. In order to facilitate broader access to public records, governmental units shall maintain public records in such a manner that they can be made available for inspection in accordance with this division.

(C) Chapter 1347. of the Revised Code does not limit the provisions of this section.

**Section 313.09.** The coroner shall keep a complete record of and shall fill in the cause of death on the death certificate, in all cases coming under his jurisdiction. All records shall be kept in the office of the coroner, but, if no such office is maintained, then such records shall be kept in the office of the clerk of the court of common pleas. Such records shall be properly indexed, and shall state the name, if known, of every deceased person as described in section 313.12 of the Revised Code, the place where the body was found, date of death, cause of death, and all other available information. The report of the coroner and the detailed findings of the autopsy shall be attached to the report of each case. The coroner shall promptly deliver, to the prosecuting attorney of the county in which such death occurred, copies of all necessary records relating to every death in which, in the judgment of the coroner or prosecuting attorney, further investigation is advisable. The sheriff of the county, the police of the city, the constable of the township, or marshal of the village in which the death occurred may be requested to furnish more information or make further investigation when requested by the coroner or his deputy. The prosecuting attorney may obtain copies of records and such other information as is necessary from the office of the coroner. All records of the coroner are the property of the county.

RECORDS TO BE PUBLIC;  
CERTIFIED COPIES AS EVIDENCE

**Section 313.10** (2855-11). The records of the coroner, made by himself or by anyone acting under his direction or supervision are public records, and such records, or transcripts, or photostatic copies thereof, certified by the coroner, shall be received as evi-

dence in any criminal or civil court in this state, as to the facts contained in such records.

All records in the coroner's office shall be open to inspection by the public, and any person may receive a copy of any such record or part thereof upon demand in writing, accompanied by payment of the transcript fee, at the rate of fifteen cents per hundred words, or a minimum fee of one dollar.

WHO REPORTS THE DEATH TO THE  
CORONER'S OFFICE?

AS REQUIRED BY THE  
REVISED CODE OF THE STATE OF OHIO.

**Section 313.11** (A) No person shall, without an order from the coroner, purposely remove or disturb the body of any person who has died in the manner described in section 313.12 of the Revised Code, or purposely and without such an order disturb the clothing or any article upon or near such a body or any of the possessions which the coroner has a duty to store under Section 313.14 of the Revised Code.

(B) It is an affirmative defense to a charge under this section that the offender attempted in good faith to rescue or administer life-preserving assistance to the deceased person, even though it is established he was dead at the time of the attempted rescue or assistance.

(C) Whoever violates this section is guilty of unlawfully disturbing a body, a misdemeanor of the fourth degree.

**Section 313.12.** When any person dies as a result of criminal or other violent means, or by casualty, or by suicide, or suddenly when in apparent health, or in any suspicious or unusual manner, the physician called in attendance, or any member of an ambu-

## WHAT IS A CORONER'S CASE? (continued)

lance service, emergency squad, or law enforcement agency who obtains knowledge thereof arising from his duties, shall immediately notify the office of the coroner of the known facts concerning the time, place, manner, and circumstances of such death, and any other information which is required pursuant to sections 313.01 to 313.22 of the Revised Code. In such cases, of a request is made for cremation, the funeral director called in attendance shall immediately notify the coroner.

### WHAT AUTHORITY DOES THE CORONER HAVE IN REGARD TO THE BODY?

#### AS REQUIRED BY THE REVISED CODE OF THE STATE OF OHIO

**Section 313.13.** The coroner or deputy coroner may go to the dead body and take charge of it. If, in the opinion of the coroner, or, in his absence, in the opinion of the deputy, an autopsy is necessary, such autopsy shall be performed by the coroner, deputy coroner, or pathologists. A detailed description of the observations written during the progress of such autopsy or as soon after such autopsy as reasonably possible, and the conclusions drawn therefrom shall be filed in the office of the coroner. If he takes charge of and decides to perform, or performs, an autopsy on a dead body under this section, the coronary, or in his absence, the deputy coroner, may, under division (E) of section 2108.02 of the Revised Code, waive his paramount right to any donated part of the dead body.

**Section 313.14.** The coroner shall notify any known relatives of a deceased person who meets death in the manner described by section 313.12 of the Revised Code by letter or otherwise. The next of kin, other relatives, or friends of the deceased person, in

the order named, shall have prior right as to disposition of the body of such deceased person. If relatives of the deceased are unknown, the coroner shall make a diligent effort to ascertain the next of kin, other relatives, or friends of the deceased person. The coroner shall take charge and possession of all moneys, clothing, and other valuable personal effects of such deceased person, found in connection with or pertaining to such body, and shall store such possessions in the county coroner's office or such other suitable place as is provided for such storage by the board of county commissioners. If the coroner considers it advisable, he may, after taking adequate precautions for the security of such possessions, store the possessions where he finds them until other storage space becomes available. After using such of the clothing as is necessary in the burial of the body, in case the cost of the burial is paid by the county, the coroner shall set at public auction the valuable personal effects of such deceased persons, found in connection with or pertaining to the unclaimed body, except firearms, which shall be disposed of as provided by section 313.141 of the Revised Code, and he shall make a verified inventory of such effects. Such effects shall be sold within eighteen months after the burial, or after delivery of such body in accordance with section 1713.34 of the Revised Code. All moneys derived from such sale shall be deposited in the county treasury. A notice of such sale shall be given in one newspaper of general circulation in the county, for five days in succession, and the sale shall be held immediately thereafter. The cost of such advertisement and notices shall be paid by the board upon submission of a verified statement therefore, certified to the coroner.

This section does not invalidate section 1713.34 of the Revised Code.

SECTION 313.141 FIREARMS

**Section 313.141.** If firearms are included in the valuable personal effects of a deceased person who met death in the manner described by section 313.12 of the Revised Code, the coroner shall deliver the firearms to the chief of police of the municipal corporation within which the body is found, or to the sheriff of the county if the body is not found within a municipal corporation. The firearms shall be used for law enforcement purposes only or they shall be destroyed. Upon delivery of the firearms to the chief of police or the sheriff, the law enforcement officer to whom the delivery is made shall give the coroner a receipt for the firearms that states the date of delivery and an accurate description of the firearms.

**Section 313.15.** All dead bodies in the custody of the coroner shall be held until such time as the coroner, after consultation with the prosecuting attorney, or with the police department of a municipal corporation, if the death occurred in a municipal corporation, or with the sheriff, has decided that it is no longer necessary to hold such body to enable him to decide on a diagnosis giving a reasonable and true cause of death, or to decide that such a body is no longer necessary to assist any such officials in his duties.

**Section 313.16.** In counties where no coroner's laboratory has been established, the coroner may request a coroner of a county in which such a laboratory is established to perform necessary laboratory examinations, the cost of which shall be no greater than the actual value of the services of technicians and the materials used in performing such examination. Money derived from the fees paid for these examinations shall be kept in a special fund, for the use of the coroner's laboratory, from which fund replacements can be made. Such funds shall be used to purchase necessary supplies and equipment for the laboratory.

WHAT AUTHORITY DOES THE CORONER HAVE  
IN REGARD TO INVESTIGATION INTO  
THE CIRCUMSTANCES OF THE DEATH?

AS REQUIRED BY THE  
REVISED CODE OF THE STATE OF OHIO.

**Section 313.17.** The coroner or deputy coroner may issue subpoenas for such witnesses as are necessary, administer to such witnesses the usual oath, and proceed to inquire how the deceased came to his death, whether by violence to self or from any other persons, by whom, whether as principals or accessories before or after the fact, and all circumstances relating thereto. The testimony of such witnesses shall be reduced to writing and subscribed to by them, and with the findings and recognizance's mentioned in this section, shall be kept on file in the coroner's office, unless the county fails to provide such an office, in which event all such records, findings and recognizance's shall be kept on file in the office of the clerk of the court of common pleas. The coroner may cause such witnesses to enter into recognizance, in such sum as is proper, for their appearance at the succeeding term of the court of common pleas, to give testimony concerning the matter. He may require any such witnesses to give security for their attendance, and, if any of them fails to comply with his requirements he shall commit such person to the county jail until discharged by due course of law. In case of the failure of any person to comply with such subpoena, or on the refusal of a witness to testify to any matter regarding which he may lawfully be interrogated, the probate judge, or a judge of the court of common pleas, on application of the coroner, shall compel obedience to such subpoena by attachment proceedings as for contempt. A report shall be made from



## WHAT IS A CORONER'S CASE? (continued)

the personal observation by the coroner or his deputy of the corpse, from the statements of relatives or other persons having any knowledge of the facts, and from such other sources of information as are available, or from the autopsy.

**Section 313.20.** The coroner may issue any writ required by sections 313.01 to 313.22 of the Revised Code, to any constable of the county in which a body is found as described in section 313.12 of the Revised Code, or if the emergency so requires, to any discreet person of the county, and such person is entitled to receive for the services rendered the same fees as elected constables. Every constable, or other person so appointed, who fails to execute any warrant directed to him, shall forfeit and pay twenty-five dollars, which amount shall be recovered upon the complaint of the coroner, before any court having jurisdiction thereof. All such forfeitures shall be for the use of the county.

### USE OF LABORATORY FOR EMERGENCY OR LAW ENFORCEMENT PURPOSES

**Section 313.21** (A) The coroner may use or may allow the use of the coroner's laboratory and facilities for tests in an emergency involving suspected toxic substances or for law enforcement-related testing, and may direct his assistants and other personnel to perform such testing in addition to testing performed in execution (sic) of their duties as set forth in section 313.01 to 313.22 of Revised Code. Nothing in this division shall permit such testing except in compliance with state and federal certificate of need and quality assurance requirements for medical laboratories.

(B) The coroner shall keep a complete record of all chemical tests and other tests performed each fiscal year pursuant to division (A) of this section, the public agency, hospital, or person for whom the test was performed, and the cost incurred for each test.

This record shall be kept in the office of the coroner.

### SECTIONS OF THE CODE PERTAINING TO RELEASE OF INFORMATION

#### PERSONAL INFORMATION SYSTEMS

##### EXEMPTIONS

**Section 1347.04.** (A) Any state or local agency or part of an agency that performs as its principal function of any activity relating to the enforcement of the criminal laws, including police efforts to prevent, control, or reduce crime or to apprehend criminals, the criminal courts, prosecutors, or any agency that is a correction, probation, pardon, or parole authority is exempt from the provisions of this chapter except from the revisions of section 1347.03 of the Revised Code. A part of an agency that does not perform, as its principal function, an activity relating to the enforcement of criminal laws is not exempt under this section.

(B) The provisions of Chapter 1347. of the Revised Code shall not be construed to prohibit the release of public records, or the disclosure of personal information in public records, as defined in section 149.43 of the Revised Code, or to authorize a public body to hold an executive session for the discussion of personal information if the executive session is not authorized under division (G) of section 121.22 of the Revised Code.

The disclosure to members of the general public record, as defined in section 149.43 of the Revised Code, is not an improper use of personal information under this chapter.

(C) After the initial filing of notice required by section 1347.03 of the Revised Code, the department of administrative services and the Ohio privacy board may, by rule adopted pursuant to Chapter 119. of the Revised Code, exempt any personal information

system from the provisions of Chapter 1347. of the Revised Code for a period of five years, if either of the following applies:

(1) The system maintains a small amount of personal information of such a nature that personal privacy would not be endangered if the use of that information was not regulated or controlled by this chapter.

(2) The system is comprised of investigatory material compiled for law enforcement purposes by agencies not described in division (A) of this section.

RIGHTS OF SUBJECTS, OR  
POSSIBLE SUBJECTS, TO INSPECTION

**Section 1347.08** (A) Every state or local agency that maintains a personal information system, upon the request and the proper identification of any person who is the subject of personal information in the system, shall:

(1) Inform the person of the existence of any personal information in the system of which he is the subject;

(2) Except as provided in divisions (C) and (F) (S) of this section, permit the person, his legal guardian, or an attorney who presents a signed written authorization made by the person, to inspect all personal information in the system of which he is the subject;

(3) Inform the person about the types of uses made of any such personal information, including the identity of any users usually granted access to the system.

(B) Any person who wishes to exercise a right provided by this section may be accompanied by another individual of his choice.

(C) An agency, upon request, shall disclose medial, psychiatric, or psychological information to a person who is the subject of the information or to his legal guardian, unless a psychiatrist, or psychologist determines for the agency that the disclosure of the

information is likely to have an adverse effect on the person, in which case the information shall be released to a physician, psychiatrist, or psychologist designated by the person or by his legal guardian.

(D) A person may request to inspect any personal information of which he is the subject and that is maintained by an agency only once in every calendar year, unless rules of the department of administrative services or the Ohio privacy board adopted pursuant to section 1347.06 of the Revised Code permit more frequent inspection.

(E) Each agency may establish reasonable fees to be charged a person who requests to copy personal information, including the identity of any users usually granted access to the system.

(F) (1) This section regulates access to personal information maintained in a personal information system by persons who are the subject of the information, but does not limit the authority of any person, including a person who is the subject of personal information maintained in a personal information system by persons who are the subject of the information, but does not limit the authority of any person, including a person who is the subject of personal information maintained in a personal information system, to inspect or have copied, pursuant to section 149.43 of the Revised Code, public record as defined in that section.

(2) This section does not provide a person who is the subject of personal information maintained in a personal information system, his legal guardian, or an attorney authorized by the person, with a right to inspect or copy, or require an agency that maintains a personal information system to permit the inspection or copying of a confidential law enforcement investigatory record or trial preparation record, as those terms are defined in divisions (A)(2) and (4) of section 149.43 of the Revised Code.

(G) This section does not apply to the papers, records and books pertaining to an adoption, which under section 3107.17 of the Revised Code are subject to inspection only upon consent of the

**WHAT IS A CORONER'S CASE? (continued)**

court.

**GIFT OF BODY OR PART:  
RIGHTS OF NEXT OF KIN TO DONATE**

**Section 2108.02.** (A) Any individual of sound mind and eighteen years of age or more may give all or any part of his body for any purpose specified in section 2108.03 of the Revised Code the gift to take effect upon his death.

(B) Any of the following persons, in the order of priority stated, when persons in prior classes are not available at the time of death, and in the absence of actual notice of contrary indications by the decedent or actual notice of opposition by a member of the same or a prior class, may give any part of the decedent's body for any purpose specified in section 2108.03 of the Revised Code:

- (1) The spouse;
- (2) An adult son or daughter;
- (3) Either parent;
- (4) An adult brother or sister;
- (5) A guardian of the person of the decedent at the time of his death;
- (6) Any other person authorized or under obligation to dispose of the body.

(C) The donee shall not accept the gift if he has actual notice of contrary indications by the decedent or that a gift by a member of a class is opposed by a member of the same or a prior class. The persons authorized in division (B) of this section may make the gift after or immediately before death.

(D) A gift of all or part of a body authorizes any examination necessary to assure medical acceptability of the gift for the purpose intended.

(E) The rights of the donee created by the gift are paramount to the rights of others except that a coroner, or in his absence, a deputy coroner, who has, under section 313.13 of the Revised Code,

taken charge of the decedent's dead body and decided that an autopsy is necessary, has right to the dead body and any part that is paramount to the rights of the donee. The coroner, or in his absence, the deputy coroner, may waive this paramount right and permit the donee to take a donated part if the donated part is or will be unnecessary for successful completion of the autopsy or for evidence. If the coronary or deputy coroner does not waive his paramount right and later determines, while performing the autopsy, that the donated part is or will be unnecessary for successful completion of the autopsy or for evidence, he may thereupon waive his paramount right and permit the donee to take the donated part, either during the autopsy or after it is completed.

**2108.30.** Determination that death has occurred; immunity of physician.

An individual is dead if he has sustained either irreversible cessation of circulatory and respiratory functions or irreversible cessation of all functions of the brain, including the brain stem, as determined in accordance with accepted medical standards. If the respiratory and circulatory functions of a person are being artificially sustained, under accepted medical standards a determination that death has occurred is made by a physician by observing and conducting a test to determine that the irreversible cessation of all functions of the brain has occurred.

A physician who makes a determination of death in accordance with that section and accepted medical standards is not liable for damages in any civil action or subject to prosecution in any criminal proceeding for his acts or the acts of others based on that determination.

Any person who acts in good faith in reliance on a determination of death made by a physician in accordance with this section and accepted medical standards is not liable for damages in any civil action or subject to prosecution in any criminal proceedings for his actions.

REMOVAL OF DONOR EYES  
FOR CORNEAL TRANSPLANTS

**Section 2108.60.** (A) As used in this section:

(1) "Cornea" or "corneas" includes corneal tissue.

(2) "Eye bank" means a nonprofit corporation that is organized under the laws of this state, the purposes of which include obtaining, storing, and distribution corneas to be used for corneal transplants or other medical or medial research purposes, and that is exempt from federal taxation under subsection 501 (c) of the Internal Revenue Code.

(3) "Eye bank official" means a person authorized by the trustees of an eye bank to make requests for corneas to be used for corneal transplants or other medical or medial research purposes.

(4) "Eye technician" means a person authorized by the medical director of an eye bank to remove the corneas of a decedent.

(5) "Internal revenue code" means the "internal revenue code of 1954," 68A STAT. 3, 26 U.C.S. 1, as amended.

(B) A county coroner who performs an autopsy pursuant section 313.13 of the Revised Code, may remove one or both corneas of the decedent, or a coroner may authorize a deputy coroner, physician or surgeon licensed pursuant to section 4731.14 of the Revised Code, embalmer authorized under section 2108.071 of the Revised Code to enucleate eyes, or eye technician to remove one or both corneas of a decedent whose body is the subject of an autopsy performed pursuant to section 313.13 of the Revised Code, if all of the following apply:

(1) The corneas are not necessary for the successful completion of the autopsy or for evidence.

(2) An eye bank official has requested the removal of corneas and certified to the coroner in writing that the corneas will be used only for corneal transplants or other medial research pur-

poses;

(3) The removal of the corneas and gift to the eye bank do not alter a gift made by the decedent or any other person authorized under this chapter to an agency or organizing other than the eye bank;

(4) The coroner at the time he removes or authorizes the removal of the corneas, has no knowledge of an objection to the removal by any of the following:

(a) The decedent, as evidenced in a written document executed during his lifetime;

(b) The decedent's spouse;

(c) If there is no spouse, the decedent's adult children;

(d) If there is no spouse and no adult children, the decedent's parents;

(e) If there is no spouse, no adult children, and no parents, the decedent's brothers or sisters;

(f) If there is no spouse, no adult children, no parents, and no brothers or sisters, the guardian of the person of the decedent at the time of death;

(g) If there is no spouse, no adult children, no parents, no brothers or sisters, no guardian of the person of the decedent at the time of death, any other person authorized or under obligation to dispose of the body.

(C) Any person who acts in good faith under this section and without knowledge of an objection, as described in division (B) (4) of this section, to the removal of corneas is not liable in any civil or criminal action based on the removal.

PHYSICAL ABUSE AND NEGLECT OF CHILDREN  
(BATTERED CHILD SYNDROME)

PERSONS REQUIRED TO REPORT INJURY OR  
NEGLECT: PROCEDURES ON RECEIPT OF REPORT

## WHAT IS A CORONER'S CASE? (continued)

**Section 2151.421** Any attorney, physician, including a hospital intern or resident, dentist, podiatrist, practitioner of a limited branch of medicine or surgery as defined in section 4731.15 of the Revised Code, registered or licensed practical nurse, visiting nurse, or other health care professional, licensed psychologist, speech pathologist or audiologist, coroner, administrator or employee of a certified child daycare center, or administrator or employee of a certified child care agency or other public or private children services agency, school teacher or school authority, social worker, or person rendering spiritual treatment through prayer in accordance with the tenets of a well recognized religion, acting in his official or professional capacity, having reason to believe that a child less than eighteen years of age or any crippled or otherwise physically or mentally handicapped child under twenty-one years of age has suffered any wound, injury, disability, or condition of such a nature as to reasonably indicate abuse or neglect of the child, shall immediately report or cause reports to be made of such information to the children services board or the county department of welfare exercising the children services function, or a municipal or county peace officer in the county in which the child resides or in which the abuse or neglect is occurring or has occurred.

Anyone having reason to believe that a child less than eighteen years of age or any crippled or otherwise physically or mentally handicapped child under twenty-one years of age has suffered any wound, injury, disability, or other condition of such nature as to reasonably indicate abuse or neglect of the child may report or cause reports to be made of such information to the children services board or the county department of welfare exercising the children services function, or to a municipal or county peace officer.

The reports shall be made forthwith by telephone or in person forthwith, and shall be followed by a written report, if requested by the receiving agency or officer. The written report shall contain:

(A) The names and addresses of the child and his parents or person or persons having custody of such child, if known;

(B) The child's age and the nature and extent of the child's injuries, abuse, or neglect, including any evidence of previous injuries, abuse, or neglect;

(C) Any other information which might be helpful in establishing the cause of the injury, abuse, or neglect.

Any person who is required to report cases of child abuse or neglect may take or cause to be taken color photographs of areas of trauma visible on a child and, if medically indicated, cause to be performed radiological examination of the child.

When the attendance of the physician is pursuant to the performance of services as a member of the staff of a hospital or similar institution, he shall notify the person in charge of the institution or his designated delegate who shall make the necessary reports.

Upon the receipt of a report concerning the possible abuse or neglect of a child, the municipal or county peace officer shall refer such report to the appropriate county department of welfare or children services board.

No child upon whom a report is made shall be removed from his parents, step parents, guardian, or other persons having custody by a municipal or county peace officer without consultation with the children services board or the county department of welfare exercising the children services function unless, in the judgment of the reporting physician and the officer, immediate removal is considered essential to protect the child from further abuse or neglect.

The county department of welfare or children services board shall investigate, within twenty-four hours, each report referred to it under this section to determine the circumstances surrounding the injury or injuries, abuse, or neglect, the cause thereof, and the person or persons responsible. The investigation shall be made in cooperation with the law enforcement agency. The county de-

partment of welfare or children services board shall report each case to a central registry which the state department of public welfare shall maintain in order to determine whether prior reports have been made in other counties concerning the child or other principals in the case. The department or board shall submit a report of its investigation, in writing, to the law enforcement agency.

The county department of welfare or children services board shall make such recommendations to the county prosecutor or city director of law as it deems necessary to protect such children as are brought to its attention.

Anyone or any hospital, institution, school, health department, or agency participating in a judicial proceeding resulting from the reports, shall be immune from any civil or criminal liability that might otherwise be incurred or imposed as a result of such actions. Notwithstanding section 4731.22 of the Revised Code, the physician-patient privilege shall not be a ground for excluding evidence regarding a child's injuries, abuse, or neglect, or the cause thereof in any judicial proceeding resulting from a report submitted pursuant to this section.

Nothing in this section shall be construed to define as an abused or neglected child any child who is under spiritual treatment through prayer in accordance with the tenets and practice of a well recognized religion in lieu of medical treatment, and no report shall be required as to the child.

Any report made under this section is confidential, and any person who permits or encourages the unauthorized dissemination of its contents is guilty of a misdemeanor of the fourth degree.

Reports required by this section shall result in protective services and emergency supportive services being made available by the county department of welfare or children services board on behalf of children about who (sic) the reports are made, in an effort to prevent further neglect of abuse, to enhance their welfare, and whenever possible, to preserve the family unit intact. The

department of public welfare shall exercise rule-making authority under Chapter 119. of the Revised Code to aid in the implementations of this section.

There shall be placed on file with the juvenile court in each county and the department of public welfare an initial plan of cooperation jointly prepared and subscribed to by a committee consisting of the county peace officer, all chief municipal peace officers within the county, the prosecuting attorney of the county and the director of law of each city, and the children services board or county welfare department exercising the children services function as convened by the county welfare director. The plan shall set forth the normal operating procedure to be employed by all concerned officials in the execution of their respective responsibilities under this section and section 2151.41 of the Revised Code. The plan shall include a system for cross-referral of reported cases of abuse and neglect as necessary, and shall also include the name and title of the officially directly responsible for making reports to the central registry.

**Section 2921.22.** (A) No person, knowing that a felony has been or is being committed, shall knowingly fail to report such information to law enforcement authorities.

(B) No physician, limited practitioner, nurse, or person giving aid to a sick or injured person, shall negligently fail to report to law enforcement authorities any gunshot or stab wound treated or observed by him, or any serious physical harm to persons which he knows or has reasonable cause to believe resulted from an offense of violence.

(C) No person who discovers the body or acquires the first knowledge of the death of any person shall fail to report such death immediately to any physician known by such person to be treating the deceased for a condition from which death at such time would not be unexpected, or to a law enforcement officer, ambulance service, emergency squad, or the coroner in a political subdivi-

**WHAT IS A CORONER'S CASE? (continued)**

sion in which the body is discovered, death is believed to have occurred, or knowledge concerning it is obtained.

(D) No person shall fail to provide upon request of the person to whom he has made a report required by division (C) of this section, or to any law enforcement officer who has reasonable cause to assert the authority to investigate the circumstances surrounding such death, any facts within his knowledge that may have a bearing on the investigation of such death.

(E) Division (A) or (D) of this section does not require disclosure of information, when any of the following applies:

(1) The information is privileged by reason of the relationship between attorney and client, doctor and patient, licensed psychologist or licensed school psychologist and client, priest and penitent, or husband and wife.

(2) The information would tend to incriminate a member of the actor's immediate family.

(3) Disclosure of the information would amount to revealing a news source, privileged under section 2739.04 or 2739.12 of the Revised Code.

(4) Disclosure of the information would amount of disclosure by an ordained clergyman of an organized religious body confidential communication made to him in his capacity as such by a person seeking his aid or counsel.

(5) Disclosure would amount to revealing information acquired by the actor in the course of his duties in connection with bona fide program of treatment of services for drug dependent persons or persons in danger of drug dependence, which program is maintained or conducted by a hospital, clinic, person, agency, or organization registered pursuant to section 5122.51 of the Revised Code.

(F) No disclosure of information pursuant to this section gives rise to any liability or recrimination for a breach of privilege or confidence.

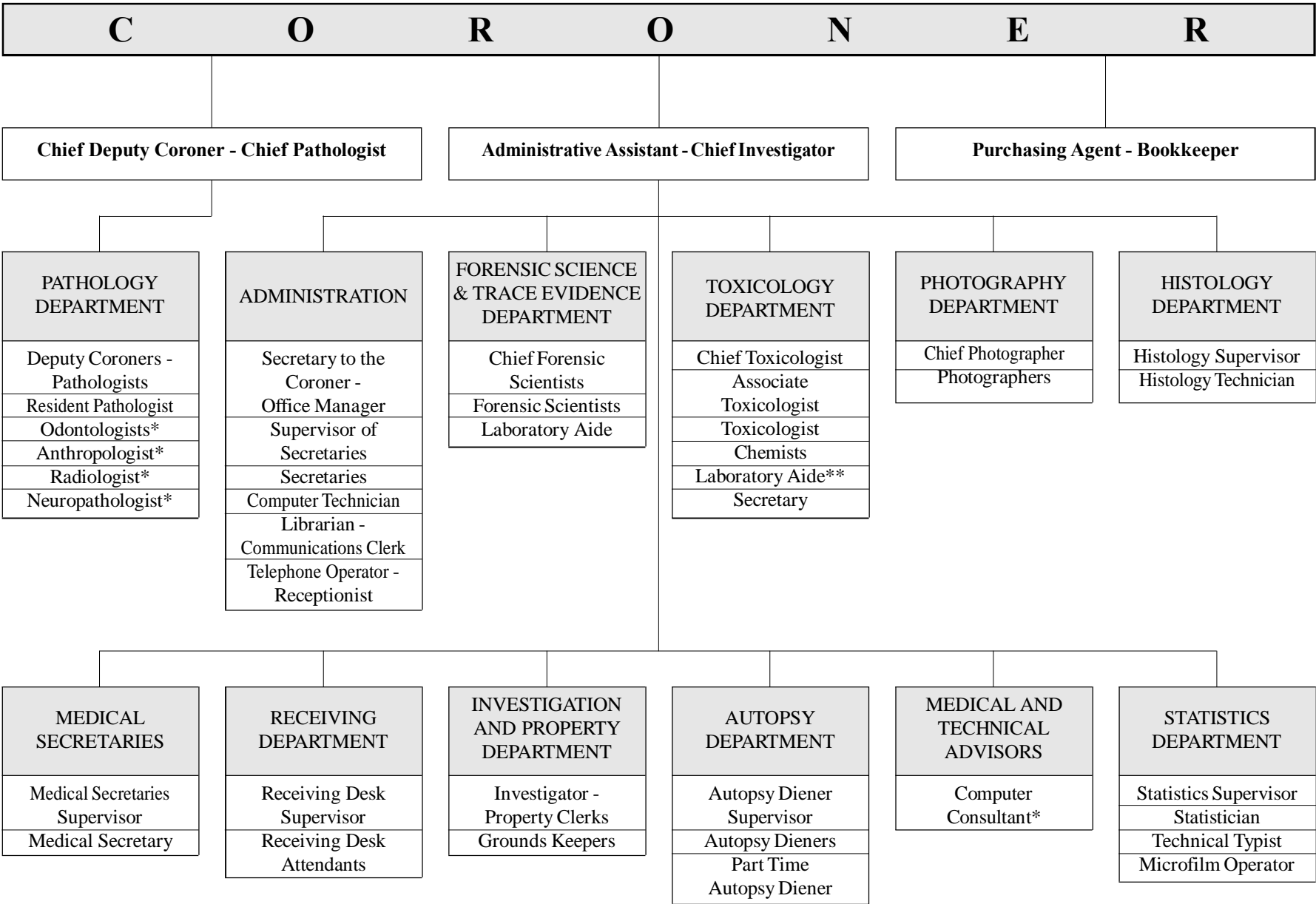
(G) Whoever violates division (A) or (B) of this section is

guilty of failure to report a crime. Violation of division (A) of this section is a misdemeanor of the fourth degree. Violation of division (B) of this section is a misdemeanor of the second degree.

(H) Whoever violates division (C) or (D) of this section is guilty of failure to report knowledge of a death, a misdemeanor of the fourth degree.

**WHO SIGNS THE DEATH CERTIFICATE?**

**Section 3705.27.** The personal and statistical particulars in the certificate of death or stillbirth shall be obtained by the funeral director or other person in charge of interment or cremation from the best qualified persons or sources available. The statement of facts relating to the disposition of the body and information relative to the armed services referred to in section 3705.26 of the Revised Code shall be signed by the funeral director. The funeral director shall then present the certificate of death to the physician or coroner for certification of the cause of death. The medical certificate of death shall be made and signed by the physician who attended the deceased or by the coroner within forty-eight hours after death. The coroner may satisfy the requirement of signing a death certificate showing the cause of death as pending either by stamping it with a stamp of his signature or by signing it in his own hand, but he shall sign a certificate of death or supplementary medical certification in his own hand. If there is a reason to believe that the death was caused by unlawful or suspicious means, the funeral director shall immediately notify the office of the coroner. The coroner shall make inquiry, as provided by section 313.17 of the Revised Code, and make the medical certificate of death or stillbirth required for a burial permit, except as otherwise authorized by regulation of the public health council.



\*Part Time Employee  
\*\*Weekend Autopsy Diener



## THE 1998 CORONER'S STAFF (continued)

**CORONER..... 1**

### **PATHOLOGY DEPARTMENT**

Chief Deputy Coroner - Chief Pathologist ..... 1  
 Deputy Coroners - Pathologists ..... 6  
 Resident Pathologist ..... 1  
*Odontologists* ..... 2  
*Anthropologist* ..... 1  
*Radiologist* ..... 1  
*Neuropathologist* ..... 1

### **ADMINISTRATION**

Administrative Assistant - Chief Investigator ..... 1  
 Purchasing Agent - Bookkeeper ..... 1  
 Secretary to the Coroner - Office Manager ..... 1  
 Supervisor of Secretaries ..... 1  
 Secretaries ..... 6  
 Technical Typist ..... 1  
 Computer Technician ..... 1  
 Librarian - Communications Clerk ..... 1  
 Telephone Operator - Receptionist ..... 1

### **FORENSIC SCIENCE & TRACE EVIDENCE DEPARTMENT**

Chief Forensic Scientist ..... 1  
 Forensic Scientists ..... 3  
 Forensic Serologist ..... 1  
 Laboratory Aide ..... 1

### **TOXICOLOGY DEPARTMENT**

Chief Toxicologist ..... 1  
 Associate Toxicologist ..... 1  
 Toxicologists ..... 2  
 Chemists ..... 6  
 Secretary ..... 1  
 Laboratory Aide (weekend autopsy diener) ..... 1

### **PHOTOGRAPHY DEPARTMENT**

Chief Photographer ..... 1  
 Photographers ..... 2

### **HISTOLOGY DEPARTMENT**

Histology Supervisor ..... 1  
 Histology Technician ..... 1

### **MEDICAL SECRETARIES**

Medical Secretary Supervisor ..... 1  
 Medical Secretary ..... 1

### **RECEIVING DEPARTMENT**

Receiving Desk Supervisor ..... 1  
 Receiving Desk Attendants ..... 7

### **INVESTIGATION AND PROPERTY DEPARTMENT**

Investigators - Property Clerks ..... 2  
 Grounds Keepers ..... 2

### **AUTOPSY DEPARTMENT**

Autopsy Diener Supervisor ..... 1  
 Autopsy Dieners ..... 3

### **MEDICAL AND TECHNICAL ADVISORS**

*Computer Consultant* ..... 1

### **STATISTICS DEPARTMENT**

Statistics Supervisor ..... 1  
 Statistician ..... 1  
 Technical Typist ..... 1  
 Microfilm Operator ..... 1

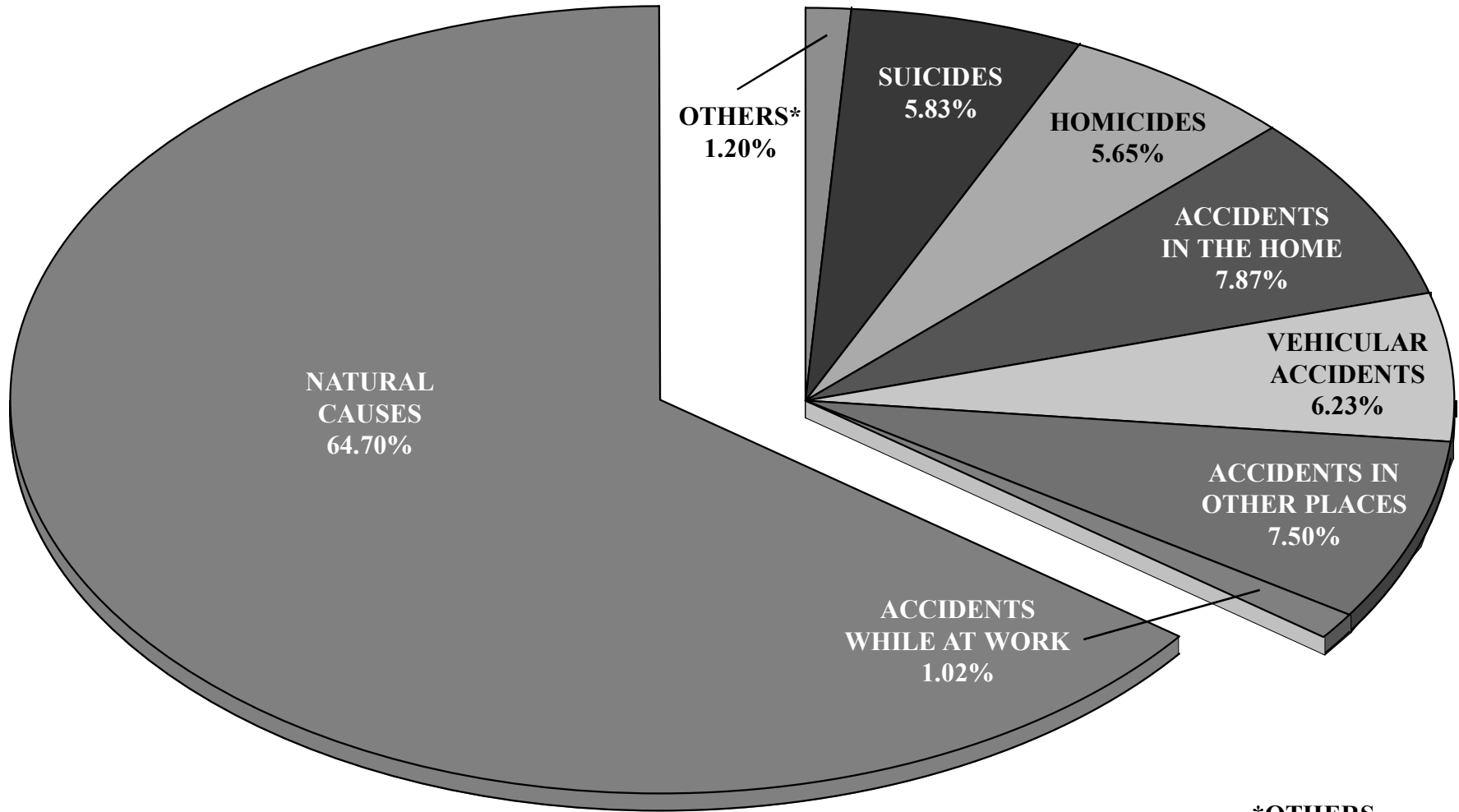
**Total Full Time Employees ..... 68**

**Total Part Time Employees ..... 6**

**TOTAL (CORONER AND STAFF) ..... 74**

**TYPES OF CASES RECEIVED AT THE CUYAHOGA COUNTY CORONER'S OFFICE**

**178,188 CASES (471943 - 1998)**

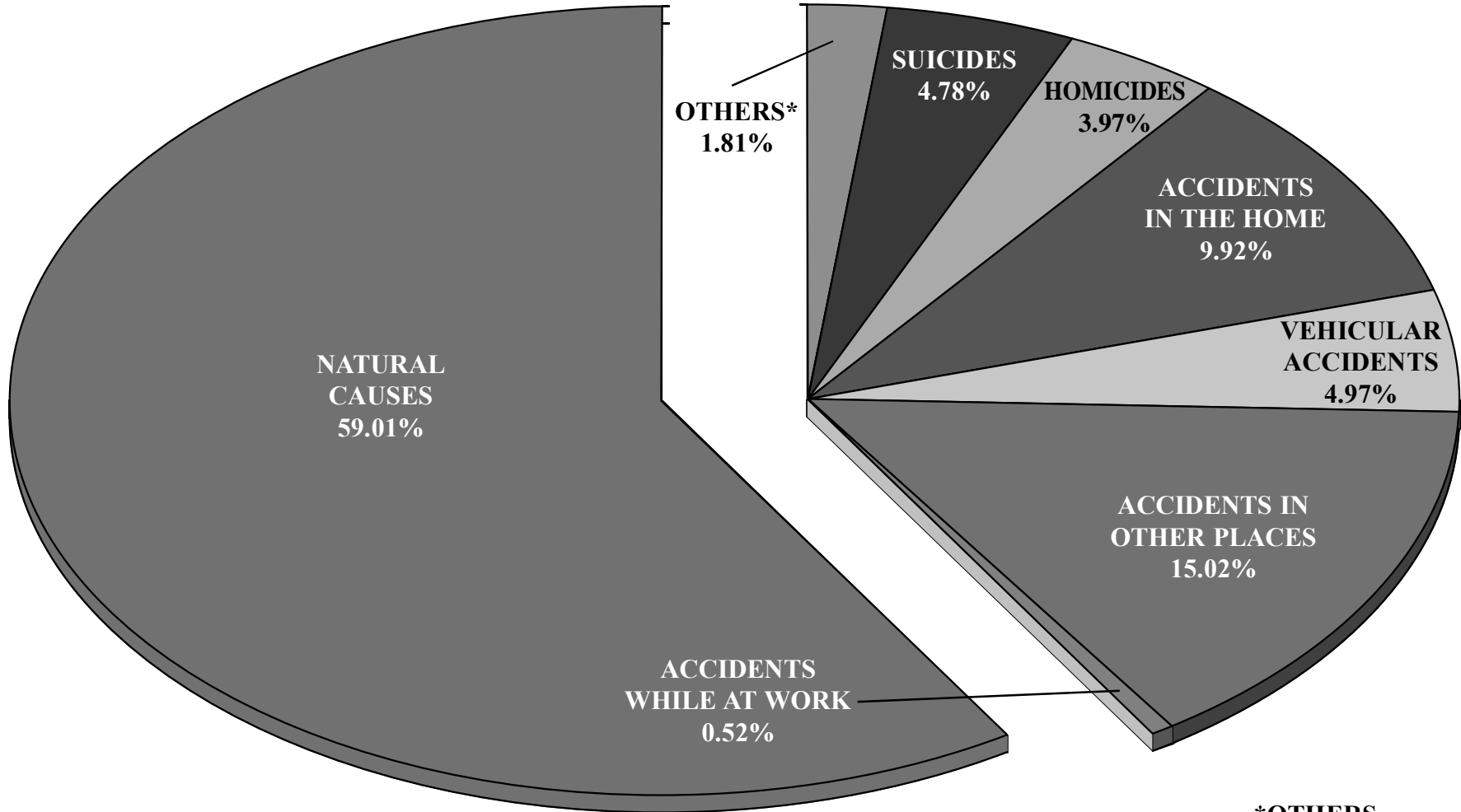


DEATHS FROM ACCIDENTS: 22.62%  
 HOMICIDES, SUICIDES AND DEATHS FROM ACCIDENTS: 34.10%  
 DEATHS FROM VIOLENCE: 34.66%  
 DEATHS FROM NATURAL CAUSES: 65.34%

**\*OTHERS**  
 ABORTIONS: 0.04%  
 UNDETERMINED CAUSES: 0.18%  
 VIOLENCE OF UNDETERMINED ORIGIN: 0.56%  
 NEONATAL AND INTRA-UTERINE DEATHS: 0.42%  
**TOTAL: 1.20%**

**TYPES OF CASES RECEIVED AT THE CUYAHOGA COUNTY CORONER'S OFFICE**

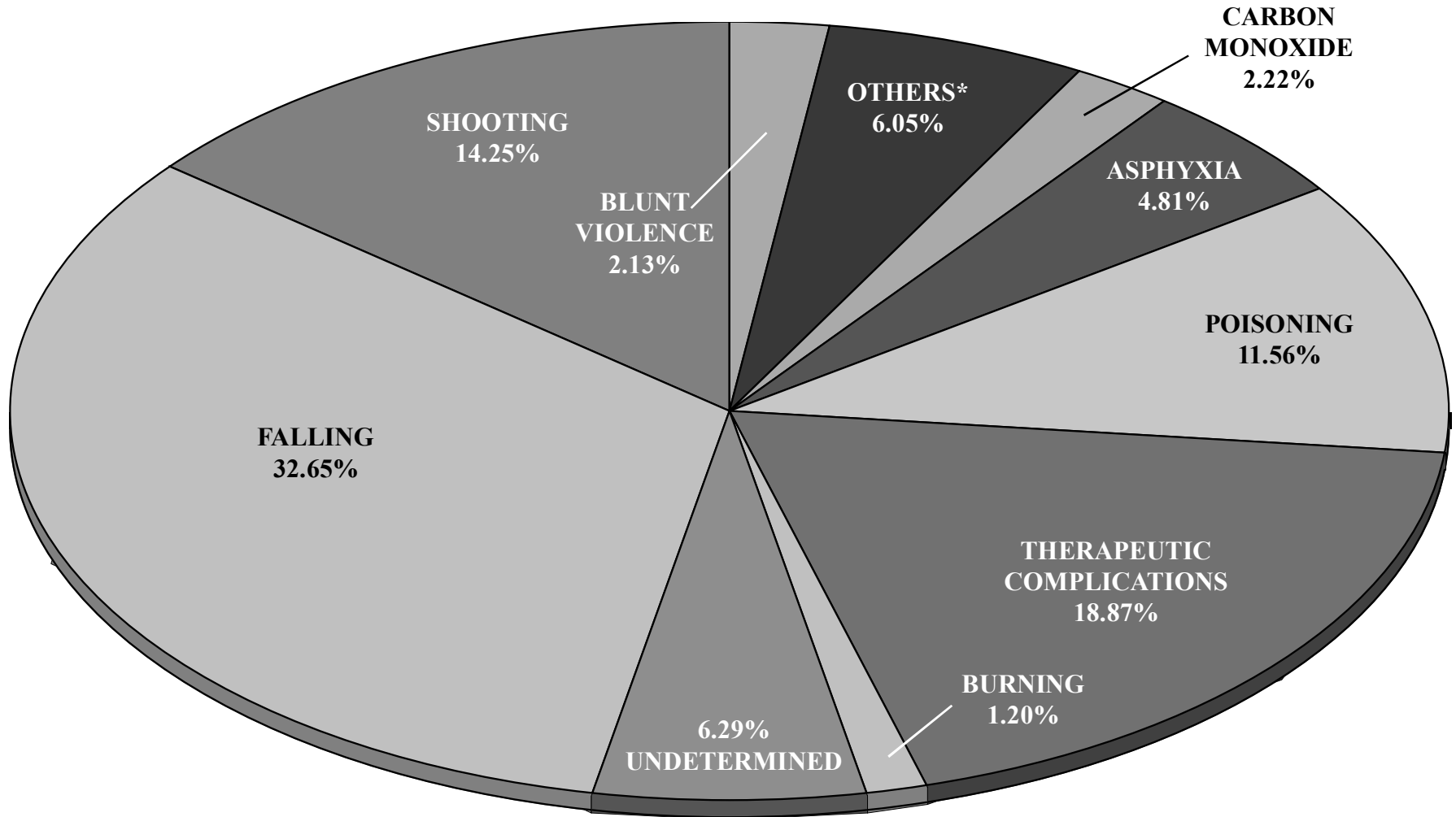
**3,096 CASES (1998)**



DEATHS FROM ACCIDENTS: 30.43%  
 HOMICIDES, SUICIDES AND DEATHS FROM ACCIDENTS: 39.18%  
 DEATHS FROM VIOLENCE: 39.89%  
 DEATHS FROM NATURAL CAUSES: 60.11%

**\*OTHERS**  
 ABORTIONS: 0.00%  
 UNDETERMINED CAUSES: 0.52%  
 VIOLENCE OF UNDETERMINED ORIGIN: 0.71%  
 NEONATAL AND INTRA-UTERINE DEATHS: 0.58%  
**TOTAL: 1.81%**

1,081\*\* CASES (1998)



**\*OTHERS**

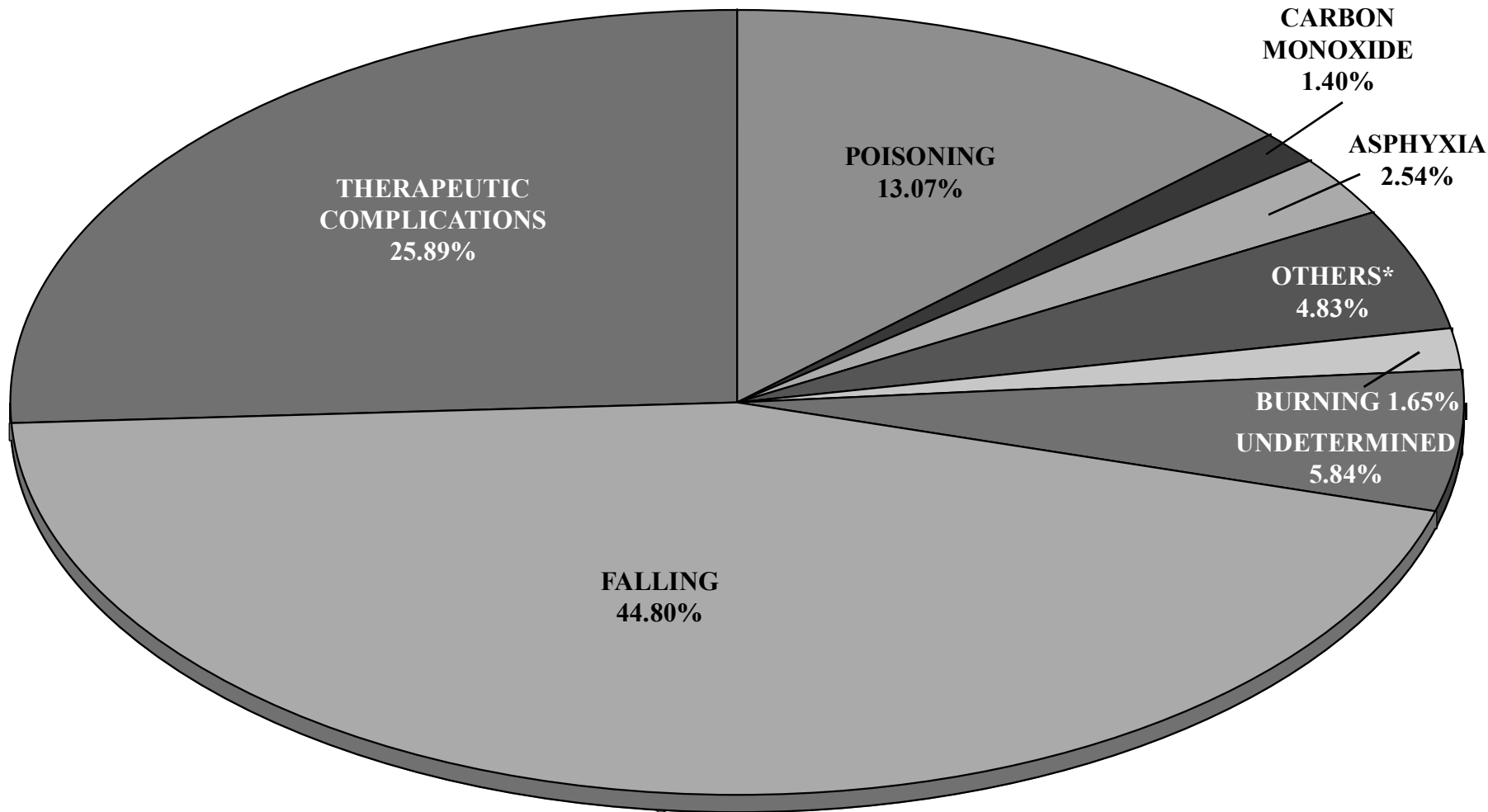
CRUSHING, ELECTROCUTION, EXPLOSION, EXPOSURE, JUMPING, SMOTHERING, STABBING, STRANGULATION, STRUCK BY OBJECT, TRAIN ACCIDENT, AND OTHERS.

**\*\*EXCLUDING VEHICULAR ACCIDENTS.**

FATALITIES RESULTING FROM ACCIDENTS\*\*

MODE OF OCCURRENCE 1998

788 CASES (1998)

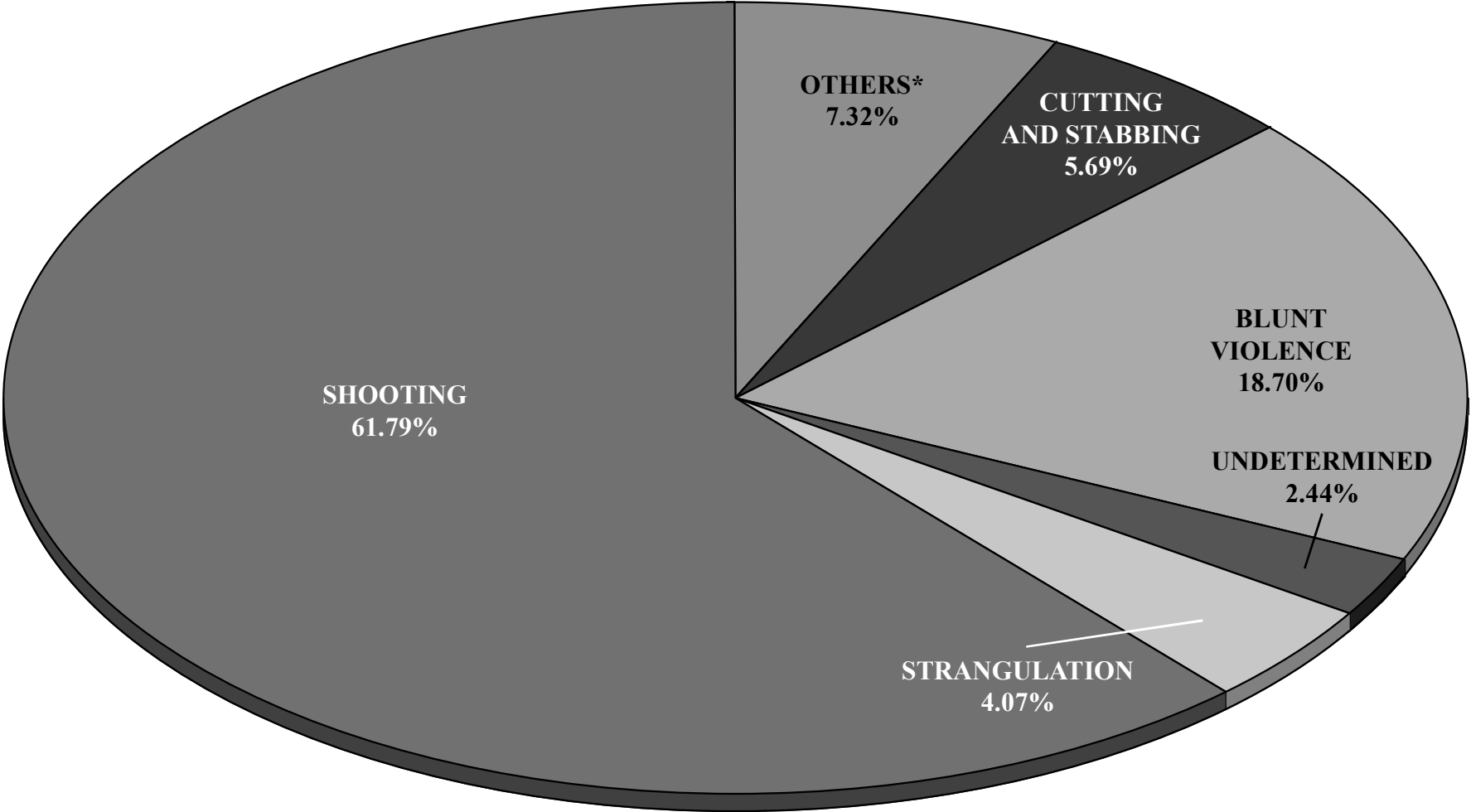


**\*OTHERS**

CRUSHING, ELECTROCUTION, EXPLOSION, JUMPING, SHOOTING, STABBING, STRANGULATION, STRUCK BY OBJECT, TRAIN ACCIDENT, AND OTHERS.

**\*\*EXCLUDING VEHICULAR ACCIDENTS.**

123 CASES (1998)

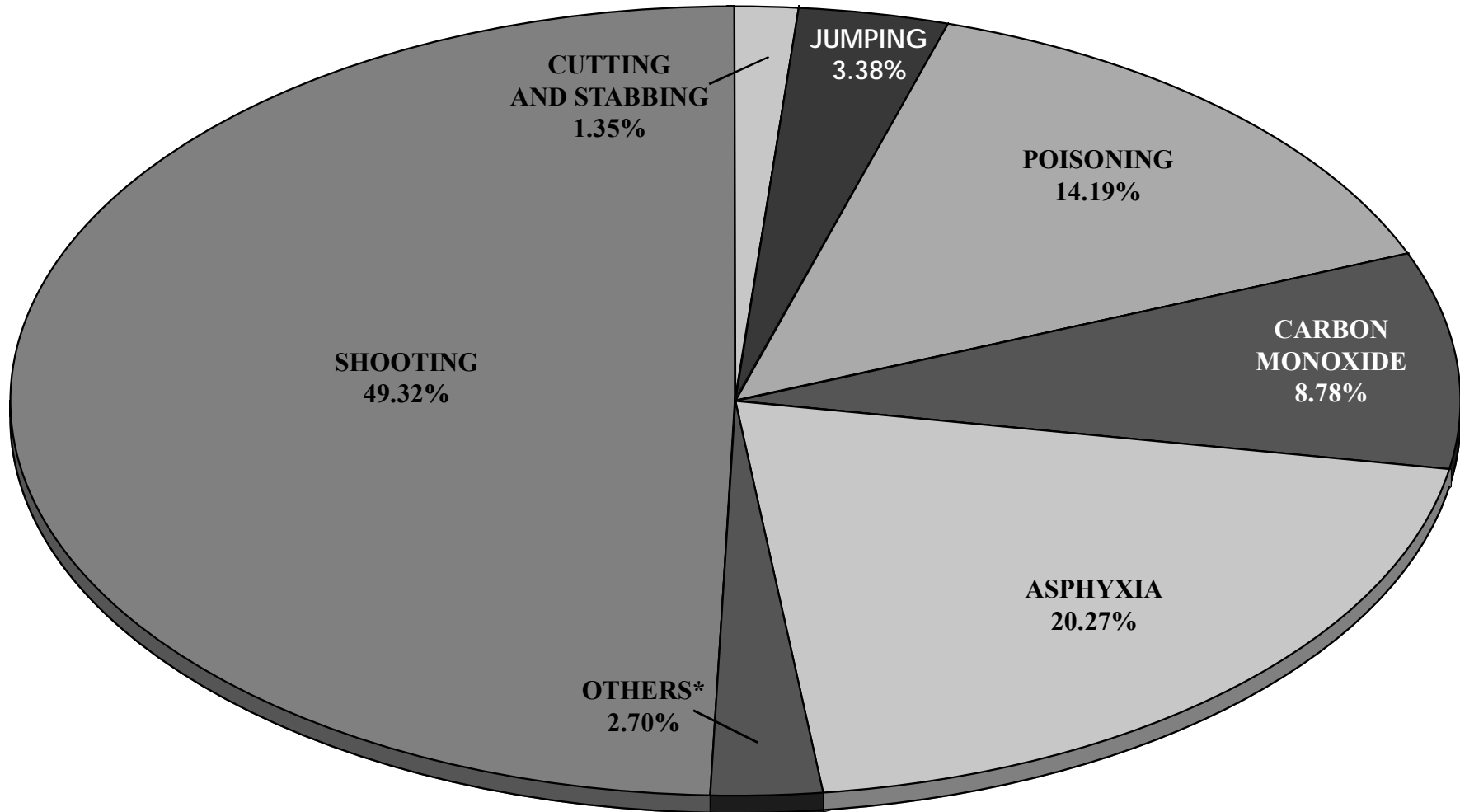


\*OTHERS  
AUTO COLLISION, NEGLECT, ASPHYXIA BY GAG, AND SMOTHERING.

# FATALITIES RESULTING FROM SUICIDES

## MODE OF OCCURRENCE 1998

148 CASES (1998)



### \*OTHERS

PLACED SELF ON RAILROAD TRACKS, DROVE INTO BUILDING, AND DROVE INTO PATH OF TRUCK.

**TABLE A**

**TYPES OF FATALITIES AND MISCELLANEOUS INFORMATION/1997 AND 1998**

	1997	1998
ACCIDENTS IN THE HOME	323	307
ACCIDENTS WHILE AT WORK	11	16
VEHICULAR ACCIDENTS	171	154
ACCIDENTS IN OTHER PLACES	458	465
HOMICIDES	121	123
SUICIDES	148	148
VIOLENCE OF UNDETERMINED ORIGIN	36	22
<b>TOTAL VIOLENT DEATHS</b>	<b>1268</b>	<b>1235</b>
NATURAL CAUSES	1451	1827
ABORTIONS	0	0
NEONATAL AND INTRA-UTERINE DEATHS	23	18
UNDETERMINED CAUSES	2	16
CASES REPORTED - ADMITTED	2744	3096
CASES REPORTED - NOT ADMITTED	2831	2271
AUTOPSIES (HOSPITALS INCLUDED)	1499*	1482**
AUTOPSIES PERFORMED FOR OTHER COUNTIES	108	102
UNIDENTIFIED BODIES	3	3
UNIDENTIFIED FOETUSES	0	0
IDENTIFIED, UNCLAIMED, AND DONATED	27	53
DEATHS IN CUYAHOGA COUNTY	15,209	N.A.
PERCENTAGE OF DEATHS ADMITTED	18.04%	N.A.

\*Includes 98 Autopsies performed at hospitals.

\*\*Includes 73 Autopsies performed at hospitals.

N.A. - Not available at time of publication.



**1998 TYPES OF FATALITIES - SEX, RACE, AUTOPSY**

**TABLE B**

	TOTAL	SEX		RACE		AUTOPSIED CASES*	% OF TOTAL CASES
		MALE	FEMALE	WHITE	NON-WHITE		
ACCIDENTS IN THE HOME	307	151	156	243	64	170	5.49
ACCIDENTS WHILE AT WORK	16	15	1	12	4	15	0.48
VEHICULAR ACCIDENTS	154	106	48	110	44	146	4.72
ACCIDENTS IN OTHER PLACES	465	214	251	368	97	153	4.94
HOMICIDES	123	97	26	37	86	123	3.97
SUICIDES	148	114	34	123	25	146	4.72
VIOLENCE OF UNDETERMINED ORIGIN	22	13	9	11	11	21	0.68
NATURAL CAUSES	1827	1044	783	1221	606	674	21.77
ABORTIONS	0	0	0	0	0	0	0.00
NEONATAL AND INTRA-UTERINE DEATHS	18	9	9	5	13	18	0.58
UNDETERMINED CAUSES	16	10	6	10	6	16	0.52
<b>GRAND TOTAL</b>	<b>3096</b>	<b>1773</b>	<b>1323</b>	<b>2140</b>	<b>956</b>	<b>1482</b>	<b>47.87</b>

\*Includes 73 Autopsies performed at hospitals.

**TABLE C****TYPES OF FATALITIES - 1997 AND 1998 INCIDENCE COMPARED**

	PERCENTAGE OF TOTAL CASES ADMITTED	
	1997	1998
ACCIDENTS IN THE HOME	11.77	9.92
ACCIDENTS WHILE AT WORK	0.40	0.52
VEHICULAR ACCIDENTS	6.23	4.97
ACCIDENTS IN OTHER PLACES	16.69	15.02
HOMICIDES	4.37	3.97
SUICIDES	5.39	4.78
VIOLENCE OF UNDETERMINED ORIGIN	1.35	0.71
TOTAL OF VIOLENT DEATHS	46.21	39.89
NATURAL CAUSES	52.88	59.01
ABORTIONS	0.00	0.00
NEONATAL AND INTRA-UTERINE DEATHS	0.84	0.58
UNDETERMINED CAUSES	0.07	0.52

	<b>NUMBER OF CASES</b>	<b>NUMBER OF CASES TESTED</b>	<b>PERCENTAGE OF CASES TESTED</b>	<b>NUMBER POSITIVE OF THOSE TESTED</b>	<b>PERCENTAGE POSITIVE OF THOSE TESTED</b>
ACCIDENTS IN THE HOME	307	194	63.19	32	16.49
ACCIDENTS WHILE AT WORK	16	15	93.75	1	6.67
VEHICULAR ACCIDENTS	154	140	90.91	25	17.86
ACCIDENTS IN OTHER PLACES	465	172	36.99	23	13.37
<b>TOTAL</b>	<b>942</b>	<b>521</b>	<b>55.31</b>	<b>81</b>	<b>15.55</b>
HOMICIDES	123	121	98.37	35	28.93
SUICIDES	148	145	97.97	46	31.72
VIOLENCE OF UNDETERMINED ORIGIN	22	19	86.36	6	31.58
<b>TOTAL</b>	<b>1235</b>	<b>806</b>	<b>65.26</b>	<b>168</b>	<b>20.84</b>
NATURAL CAUSES	1827	1626	89.00	134	8.24
ABORTIONS	0	0	0.00	0	0.00
NEONATAL AND INTRA-UTERINE	18	9	50.00	1	11.11
UNDETERMINED CAUSES	16	16	100.00	2	12.50

**TABLE E****1998 VEHICULAR FATALITIES/DAILY ALCOHOL INCIDENCE**

DAY	MOTORCYCLIST (1)		DRIVER (2)		PASSENGER (3)		PEDESTRIAN (4)		TOTAL	
	TESTED	POSITIVE	TESTED	POSITIVE	TESTED	POSITIVE	TESTED	POSITIVE	TESTED	POSITIVE
SUNDAY	1	1	18	5	2	1	4	2	25	9
MONDAY	3	1	13		4		4		24	1
TUESDAY	1		6	1	6		3		16	1
WEDNESDAY	1	1	9	1	2		1		13	2
THURSDAY			8	2	7		5	1	20	3
FRIDAY	3		7	2	4		2		16	2
SATURDAY	4	2	12	3	6	1	4	1	26	7
TOTAL	13	5	73	14	31	2	23	4	140	25

(1) See Table 59A

(2) See Table 58 and 59

(3) See Table 60

(4) See Table 61

1998 SUMMARY CHART - CUYAHOGA COUNTY

**DISTRIBUTION OF SELECTED CORONER'S CASES IN EACH MUNICIPALITY**

**TABLE F**

	TOTAL INSIDE CASES		NATURAL CAUSES		HOME, WORK AND OTHER FATALITIES		VEHICULAR FATALITIES		HOMICIDES		SUICIDES	
	Number of Cases	Percentage of Cases	Number of Cases	Percentage of Cases	Number of Cases	Percentage of Cases	Number of Cases	Percentage of Cases	Number of Cases	Percentage of Cases	Number of Cases	Percentage of Cases
Cleveland	1475	47.64	871	59.05	378	25.63	46	3.12	87	5.9	55	3.73
Bay Village	8	0.26	5	62.50	3	37.50	0	0.00	0	0.00	0	0.00
Beachwood	17	0.55	5	29.41	11	64.71	0	0.00	0	0.00	1	5.88
Bedford	53	1.71	38	71.70	11	20.75	0	0.00	0	0.00	2	3.77
Bedford Heights	8	0.26	6	75.00	1	12.50	1	12.50	0	0.00	0	0.00
Berea	27	0.87	9	33.33	13	48.15	1	3.70	0	0.00	4	14.81
Brecksville	5	0.16	1	20.00	1	20.00	1	20.00	0	0.00	2	40.00
Broadview Heights	14	0.45	7	50.00	3	21.43	2	14.29	0	0.00	1	7.14
Brooklyn	7	0.23	1	14.29	4	57.14	1	14.29	0	0.00	1	14.29
Brook Park	23	0.74	9	39.13	11	47.83	1	4.35	0	0.00	1	4.35
Cleveland Heights	32	1.03	17	53.12	11	34.37	1	3.12	1	3.12	1	3.12
East Cleveland	103	3.33	76	73.79	16	15.53	1	0.97	8	7.77	1	0.97
Euclid	133	4.3	94	70.68	20	15.04	6	4.51	3	2.26	10	7.52
Fairview Park	19	0.61	7	36.84	8	42.11	1	5.26	0	0.00	3	15.79
Garfield Heights	72	2.33	57	79.17	10	13.89	1	1.39	0	0.00	3	4.17
Highland Heights	1	0.03	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00
Independence	6	0.19	3	50.00	2	33.33	1	16.67	0	0.00	0	0.00
Lakewood	81	2.62	49	60.49	21	25.93	2	2.47	1	1.23	6	7.41
Lyndhurst	9	0.29	5	55.56	3	33.33	0	0.00	0	0.00	0	0.00
Maple Heights	29	0.94	17	58.62	8	27.59	0	0.00	0	0.00	3	10.34
Mayfield Heights	90	2.91	64	71.11	20	22.22	2	2.22	0	0.00	4	4.44
Middleburg Heights	92	2.97	70	76.09	16	17.39	1	1.09	0	0.00	5	5.43
North Olmsted	31	1.00	8	25.81	13	41.94	3	9.68	0	0.00	7	22.58
North Royalton	17	0.55	6	35.29	6	35.29	4	23.53	0	0.00	1	5.88
Olmsted Falls	5	0.16	3	60.00	1	20.00	0	0.00	0	0.00	1	20.00
Parma	183	5.91	121	66.12	44	24.04	5	2.73	4	2.19	8	4.37
Parma Heights	30	0.97	17	56.67	9	30.00	1	3.33	0	0.00	3	10.00
Pepper Pike	2	0.06	1	50.00	1	50.00	0	0.00	0	0.00	0	0.00
Richmond Heights	40	1.29	33	82.50	5	12.50	0	0.00	0	0.00	2	5.00
Rocky River	26	0.84	10	38.46	8	30.77	1	3.85	3	11.54	3	11.54
Seven Hills	11	0.36	8	72.73	1	9.09	0	0.00	0	0.00	1	9.09
Shaker Heights	20	0.65	11	55.00	7	35.00	1	5.00	0	0.00	1	5.00
Solon	30	0.97	24	80.00	4	13.33	2	6.67	0	0.00	0	0.00
South Euclid	19	0.61	10	52.63	5	26.32	2	10.53	1	5.26	1	5.26
Strongsville	31	1	13	41.94	11	35.48	4	12.90	0	0.00	3	9.68
University Heights	4	0.13	2	50.00	2	50.00	0	0.00	0	0.00	0	0.00
Warrensville Heights	71	2.29	60	84.51	5	7.04	0	0.00	4	5.63	2	2.82
Westlake	90	2.91	61	67.78	26	28.89	1	1.11	0	0.00	2	2.22

Not included in statistics are Violence of Undetermined Origin, Undetermined Causes, Out of County Deaths, and Neonatal and Intra-uterine Deaths.

TRENDS

**TABLE F (continued) DISTRIBUTION OF SELECTED CORONER'S CASES IN EACH MUNICIPALITY**

VILLAGES AND TOWNSHIPS	TOTAL INSIDE CASES		NATURAL CAUSES		HOME, WORK AND OTHER FATALITIES		VEHICULAR FATALITIES		HOMICIDES		SUICIDES	
	Number of Cases	Percentage of Cases	Number of Cases	Percentage of Cases	Number of Cases	Percentage of Cases	Number of Cases	Percentage of Cases	Number of Cases	Percentage of Cases	Number of Cases	Percentage of Cases
<b><u>VILLAGES:</u></b>												
Bentleyville	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Bratenahl	5	0.16	1	20.00	0	0.00	4	80.00	0	0.00	0	0.00
Brooklyn Heights	2	0.06	1	50.00	1	50.00	0	0.00	0	0.00	0	0.00
Chagrin Falls	7	0.23	5	71.43	1	14.29	0	0.00	0	0.00	1	14.29
Cuyahoga Heights	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Gates Mills	1	0.03	0	0.00	0	0.00	1	100.00	0	0.00	0	0.00
Glenwillow	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Highland Hills	2	0.06	2	100.00	0	0.00	0	0.00	0	0.00	0	0.00
Hunting Valley	1	0.03	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00
Linndale	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Mayfield	1	0.03	0	0.00	0	0.00	0	0.00	0	0.00	1	100.00
Moreland Hills	2	0.06	1	50.00	0	0.00	1	50.00	0	0.00	0	0.00
Newburg Heights	5	0.16	3	60.00	1	20.00	0	0.00	0	0.00	1	20.00
North Randall	3	0.10	1	33.33	2	66.67	0	0.00	0	0.00	0	0.00
Oakwood	5	0.16	1	20.00	1	20.00	1	20.00	0	0.00	2	40.00
Orange	4	0.13	2	50.00	1	25.00	1	25.00	0	0.00	0	0.00
Valley View	2	0.06	1	50.00	0	0.00	1	50.00	0	0.00	0	0.00
Walton Hills	6	0.19	3	50.00	2	33.33	1	16.67	0	0.00	0	0.00
Woodmere	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
<b><u>TOWNSHIPS:</u></b>												
Chagrin Falls	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Olmsted	10	0.32	5	50.00	1	10.00	2	20.00	0	0.00	2	20.00
Riveredge	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
<u>Turnpike in County</u>	2	0.06	0	0.00	0	0.00	2	100.00	0	0.00	0	0.00

Not included in statistics are Violence of Undetermined Origin, Undetermined Causes, Out of County Deaths, and Neonatal and Intra-uterine Deaths.

TRENDS

**DEATHS IN COUNTY, DEATHS REPORTED TO CORONER/CASES RECEIVED 1940 - 1998**      **TABLE G**

COUNTY POPULATION 1940: 1,217,250				
DEATHS IN COUNTY	TOTAL DEATHS REPORTED TO CORONER'S OFFICE	% OF DEATHS IN COUNTY	CASES ADMITTED TO CORONER'S OFFICE	% OF DEATHS IN COUNTY
1940:	11,193	N.A.	1,184	10.6%
1941:	12,582	N.A.	1,392	11.1%
1942:	12,868	N.A.	1,385	10.8%
1943:	13,931	2,739	1,434	10.3%
1944:	13,234	2,544	1,420	10.7%
1945:	13,104	2,624	1,478	11.3%
1946:	13,049	2,890	1,588	12.0%
1947:	13,946	3,120	1,904	13.6%
1948:	13,695	3,203	1,924	14.0%
1949:	13,837	3,849	2,012	14.4%

COUNTY POPULATION 1950: 1,389,532				
DEATHS IN COUNTY	TOTAL DEATHS REPORTED TO CORONER'S OFFICE	% OF DEATHS IN COUNTY	CASES ADMITTED TO CORONER'S OFFICE	% OF DEATHS IN COUNTY
1950:	13,769	3,431	2,218	16.8%
1951:	14,156	3,496	2,213	14.7%
1952:	14,727	3,477	2,183	14.8%
1953:	14,896	3,646	2,392	16.0%
1954:	14,607	3,851	2,767	18.9%
1955:	14,751	4,085	2,945	20.0%
1956:	15,389	4,651	3,259	21.1%
1957:	16,063	4,634	3,274	20.3%
1958:	15,919	4,963	3,602	22.6%
1959:	16,088	4,328	3,626	22.5%

COUNTY POPULATION 1960: 1,647,895				
DEATHS IN COUNTY	TOTAL DEATHS REPORTED TO CORONER'S OFFICE	% OF DEATHS IN COUNTY	CASES ADMITTED TO CORONER'S OFFICE	% OF DEATHS IN COUNTY
1960:	16,425	5,159	3,513	21.4%
1961:	16,144	5,019	3,622	22.7%
1962:	16,701	5,231	3,883	23.3%
1963:	17,142	5,385	4,083	23.8%
1964:	16,915	5,490	4,037	23.9%
1965:	17,062	5,227	4,012	23.5%
1966:	17,415	5,303	4,136	23.7%
1967:	17,300	5,518	4,141	23.9%
1968:	18,087	5,997	4,455	24.6%
1969:	17,287	5,415	4,436	25.7%

**TABLE G (cont.)**

**DEATHS IN COUNTY, DEATHS REPORTED TO CORONER/CASES RECEIVED 1940 - 1998**

COUNTY POPULATION 1970: 1,721,300					
DEATHS IN COUNTY	TOTAL DEATHS REPORTED TO CORONER'S OFFICE	% OF DEATHS IN COUNTY	CASES ADMITTED TO CORONER'S OFFICE	% OF DEATHS IN COUNTY	
1970:	17,305	5,125	29.6%	4,314	24.9%
1971:	16,834	5,183	30.8%	4,246	25.2%
1972:	17,267	5,602	32.4%	4,384	25.4%
1973:	17,234	4,908	28.5%	4,321	25.2%
1974:	16,948	5,118	30.2%	4,228	25.0%
1975:	16,013	4,795	29.9%	4,005	25.0%
1976:	16,252	4,630	28.5%	4,085	25.1%
1977:	16,124	4,831	30.0%	4,185	25.9%
1978:	16,562	4,472	27.0%	3,669	22.1%
1979:	16,359	4,847	29.6%	3,782	23.2%

COUNTY POPULATION 1980: 1,498,400					
DEATHS IN COUNTY	TOTAL DEATHS REPORTED TO CORONER'S OFFICE	% OF DEATHS IN COUNTY	CASES ADMITTED TO CORONER'S OFFICE	% OF DEATHS IN COUNTY	
1980:	16,209	5,655	34.9%	3,540	21.8%
1981:	15,737	4,977	31.6%	3,147	20.0%
1982:	15,458	5,327	34.5%	2,840	18.4%
1983:	15,554	5,278	33.9%	2,957	19.0%
1984:	15,666	5,268	33.6%	2,922	18.7%
1985:	15,669	5,463	34.9%	2,782	17.8%
1986:	15,975	5,159	32.3%	2,707	16.9%
1987:	15,502	5,341	34.5%	2,713	17.5%
1988:	15,667	5,579	35.6%	2,737	17.5%
1989:	15,407	5,708	37.1%	3,028	19.7%

COUNTY POPULATION 1990: 1,412,140					
DEATHS IN COUNTY	TOTAL DEATHS REPORTED TO CORONER'S OFFICE	% OF DEATHS IN COUNTY	CASES ADMITTED TO CORONER'S OFFICE	% OF DEATHS IN COUNTY	
1990:	15,400	5,929	38.5%	3,079	20.0%
1991:	15,245	5,977	39.2%	3,118	20.5%
1992:	14,899	5,665	38.0%	2,903	19.5%
1993:	15,458	5,717	37.0%	3,121	20.2%
1994:	15,518	5,808	37.4%	3,008	19.4%
1995:	15,738	5,878	37.3%	3,157	20.1%
1996:	15,176	5,583	37.8%	2,768	18.2%
1997:	15,209	5,575	36.7%	2,744	18.0%
1998:	N.A.	5,367	N.A.	3,096	N.A.

**TRENDS**

N.A. - Not available at time of publication.



**TYPES OF FATALITIES SUMMARY 1940 - 1998**

**TABLE H**

COUNTY POPULATION 1940: 1,217,250										
YEAR	TOTALS					VIOLENT DEATHS				
	TOTAL CASES	TOTAL NATURAL	TOTAL VIOLENT	% NATURAL	% VIOLENT	HOMICIDE	SUICIDE	ACCIDENT	VEHICULAR*	V.U.O.
1940	1,184	528	656	44.59	55.41	63	200	376	195	17
1941	1,392	662	730	47.56	52.44	54	167	492	249	17
1942	1,385	670	715	48.38	51.62	84	156	471	214	4
1943	1,434	802	632	55.93	44.07	66	137	422	179	7
1944	1,420	813	607	57.25	42.75	58	122	405	177	22
1945	1,478	812	666	54.94	45.06	70	148	442	167	6
1946	1,588	816	772	51.39	48.61	86	151	519	213	16
1947	1,904	1,136	768	59.66	40.34	90	184	472	201	22
1948	1,924	1,188	736	61.75	38.25	97	168	449	166	22
1949	2,012	1,262	750	62.72	37.28	95	167	471	163	17

COUNTY POPULATION 1950: 1,389,532										
YEAR	TOTALS					VIOLENT DEATHS				
	TOTAL CASES	TOTAL NATURAL	TOTAL VIOLENT	% NATURAL	% VIOLENT	HOMICIDE	SUICIDE	ACCIDENT	VEHICULAR*	V.U.O.
1950	2,218	1,528	690	68.89	31.11	83	142	453	159	12
1951	2,213	1,512	701	68.32	31.68	91	128	474	171	8
1952	2,183	1,421	762	65.09	34.91	106	139	507	205	10
1953	2,392	1,549	843	64.76	35.24	98	141	599	224	5
1954	2,767	1,939	828	70.08	29.92	93	165	554	177	16
1955	2,945	2,105	840	71.48	28.52	82	184	572	173	2
1956	3,259	2,269	990	69.62	30.38	128	170	686	199	6
1957	3,274	2,304	970	70.37	29.63	96	151	717	199	6
1958	3,602	2,624	978	72.85	27.15	95	161	716	174	6
1959	3,626	2,607	1,019	71.90	28.10	94	161	750	179	14

COUNTY POPULATION 1960: 1,647,895										
YEAR	TOTALS					VIOLENT DEATHS				
	TOTAL CASES	TOTAL NATURAL	TOTAL VIOLENT	% NATURAL	% VIOLENT	HOMICIDE	SUICIDE	ACCIDENT	VEHICULAR*	V.U.O.
1960	3,513	2,438	1,075	69.40	30.60	102	186	768	182	19
1961	3,662	2,689	973	73.43	26.57	100	157	702	165	14
1962	3,883	2,935	948	75.59	24.41	74	180	676	142	18
1963	4,083	3,033	1,050	74.28	25.72	114	169	757	160	10
1964	4,037	2,979	1,058	73.79	26.21	137	192	711	169	18
1965	4,012	2,889	1,123	72.01	27.99	129	198	785	228	11
1966	4,136	2,953	1,183	71.40	28.60	166	197	805	236	15
1967	4,141	2,900	1,241	70.03	29.97	185	189	847	242	20
1968	4,455	3,109	1,346	69.79	30.21	210	214	887	264	35
1969	4,436	2,968	1,468	66.91	33.09	317	188	931	313	32

\*Vehicular fatalities are included in Accident totals.

**TABLE H (continued)**

**TYPES OF FATALITIES SUMMARY 1940 - 1998**

COUNTY POPULATION 1970: 1,721,300										
YEAR	TOTALS					VIOLENT DEATHS				
	TOTAL CASES	TOTAL NATURAL	TOTAL VIOLENT	% NATURAL	% VIOLENT	HOMICIDE	SUICIDE	ACCIDENT	VEHICULAR*	V.U.O.
1970	4,314	2,871	1,443	66.55	33.45	310	223	888	274	22
1971	4,246	2,825	1,421	66.53	33.47	324	202	869	229	26
1972	4,384	2,909	1,475	66.35	33.65	363	218	873	270	21
1973	4,321	2,780	1,541	64.34	35.66	327	259	930	253	25
1974	4,228	2,748	1,480	65.00	35.00	362	233	856	211	29
1975	4,005	2,583	1,422	64.49	35.51	351	218	834	214	19
1976	4,085	2,732	1,353	66.88	33.12	305	248	771	243	29
1977	4,185	2,826	1,359	67.53	32.47	300	251	785	229	23
1978	3,669	2,439	1,230	66.48	33.52	268	222	727	220	13
1979	3,782	2,371	1,411	62.69	37.31	325	276	791	261	19

COUNTY POPULATION 1980: 1,498,400										
YEAR	TOTALS					VIOLENT DEATHS				
	TOTAL CASES	TOTAL NATURAL	TOTAL VIOLENT	% NATURAL	% VIOLENT	HOMICIDE	SUICIDE	ACCIDENT	VEHICULAR*	V.U.O.
1980	3,504	2,258	1,282	63.79	36.21	314	237	713	227	18
1981	3,147	1,930	1,217	61.33	38.67	269	238	694	223	16
1982	2,840	1,750	1,090	61.62	38.38	251	228	599	179	12
1983	2,957	1,883	1,074	63.68	36.32	196	191	673	212	14
1984	2,922	1,829	1,093	62.59	37.41	202	208	667	217	16
1985	2,782	1,748	1,034	62.83	37.14	188	220	608	201	18
1986	2,707	1,697	1,010	62.69	37.31	169	183	629	186	29
1987	2,713	1,679	1,034	61.89	38.11	183	187	643	181	21
1988	2,737	1,705	1,032	62.29	37.71	189	153	682	177	8
1989	3,028	1,824	1,204	60.24	39.76	188	183	820	176	13

COUNTY POPULATION 1990: 1,412,140										
YEAR	TOTALS					VIOLENT DEATHS				
	TOTAL CASES	TOTAL NATURAL	TOTAL VIOLENT	% NATURAL	% VIOLENT	HOMICIDE	SUICIDE	ACCIDENT	VEHICULAR*	V.U.O.
1990	3,079	1,801	1,278	58.49	41.51	221	164	877	203	16
1991	3,118	1,833	1,285	58.79	41.21	236	184	845	182	20
1992	2,903	1,675	1,228	57.70	42.30	221	181	814	149	12
1993	3,121	1,729	1,363	56.33	43.67	218	183	949	143	13
1994	3,008	1,770	1,238	58.84	41.16	179	166	875	134	18
1995	3,157	1,751	1,406	55.46	44.54	166	195	1023	160	22
1996	2,768	1,562	1,206	56.43	43.57	144	151	890	152	21
1997	2,744	1,476	1,268	53.79	46.21	120	148	963	171	37
1998	3,096	1,861	1,235	60.11	39.89	123	148	942	154	22

\*Vehicular fatalities are included in Accident totals.

**TRENDS**

**1998 CORONER'S TRAUMA CASES LIFE-FLIGHTED FROM OTHER COUNTIES**

**TABLE I**

COUNTY	SEX		MANNER					LOCATION OF DEATH		GRAND TOTAL
	M	F	VEHICULAR	HOMICIDE	SUICIDE	ACCIDENT	V.U.O	CLEVELAND	REST OF COUNTY	
Ashland		2	2					2		2
Ashtabula	3		1		1	1		3		3
Columbiana	1					1		1		1
Erie	1					1		1		1
Geauga	5	1	3			3		5	1	6
Holmes	1		1					1		1
Huron	3		2			1		3		3
Lake	13	3	11	2		3		15	1	16
Lorain	14	3	5	3	1	8		15	2	17
Medina	6	3	3	1		5		9		9
Portage	2		2					2		2
Richland	3		1			2		3		3
Stark	1	1	1			1		2		2
Summit		3	3					3		3
Trumbull	3	3	5	1				6		6
Tuscarawas	1		1					1		1
Wayne	3	1	1		1	1	1	4		4
Wyandot		1	1					1		1
<b>TOTAL</b>	<b>60</b>	<b>21</b>	<b>43</b>	<b>7</b>	<b>3</b>	<b>27</b>	<b>1</b>	<b>77</b>	<b>4</b>	<b>81</b>

**TRENDS**



**TABLE J**

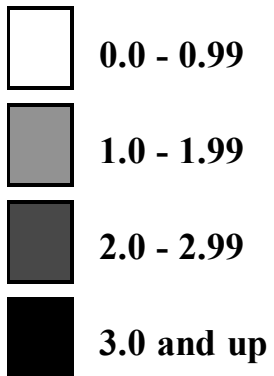
**1998 AUTOPSIES PERFORMED FOR OTHER COUNTIES**

COUNTY	SEX		MANNER					GRAND TOTAL	
	M	F	VEHICULAR	HOMICIDE	SUICIDE	ACCIDENT	NATURAL		UNDETERMINED
Ashland	10	4	1	2	2	1	8		14
Ashtabula	20	7	2	2	1	5	16	1	27
Franklin									0
Geauga	16	11	7	1	5	5	9		27
Huron									0
Lake	15	13	2	1	3	11	11		28
Medina	1	3		1	1	1	1		4
Richland	2					1	1		2
<b>TOTAL</b>	<b>64</b>	<b>38</b>	<b>12</b>	<b>7</b>	<b>12</b>	<b>24</b>	<b>46</b>	<b>1</b>	<b>102</b>

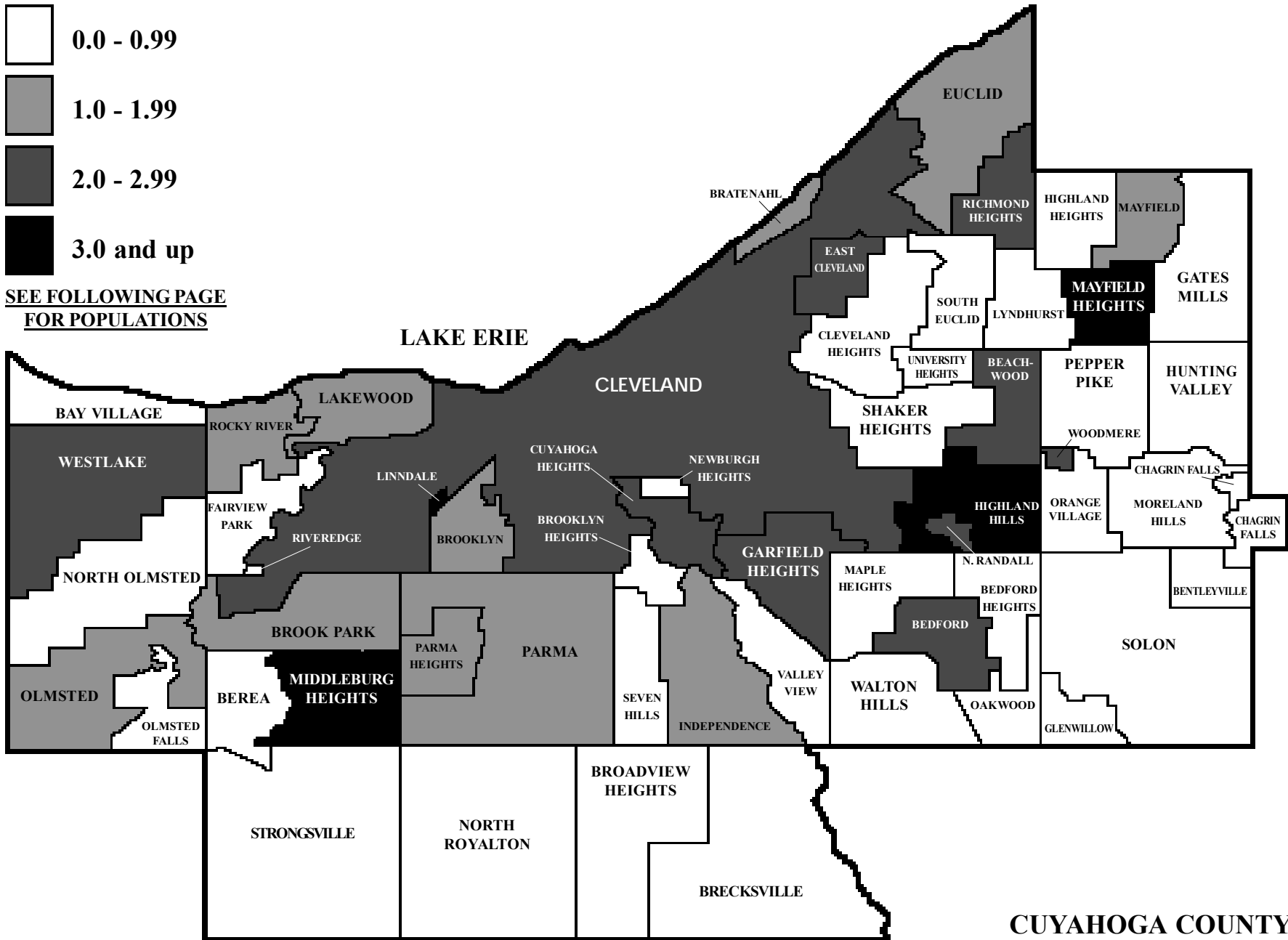
**TRENDS**

1998 DISTRIBUTION OF CORONER'S CASES PER 1,000 POPULATION

MAP 1



SEE FOLLOWING PAGE  
FOR POPULATIONS



TRENDS

CUYAHOGA COUNTY

**POPULATION OF CUYAHOGA COUNTY BY CITIES, VILLAGES, AND TOWNSHIPS (1990 CENSUS)**

**CITIES**

CLEVELAND .....	505,616
Bay Village .....	17,000
Beachwood .....	10,677
Bedford .....	14,822
Bedford Heights .....	12,131
Berea .....	19,051
Brecksville .....	11,818
Broadview Heights .....	12,219
Brooklyn .....	11,706
Brook Park .....	22,865
Cleveland Heights .....	54,052
East Cleveland .....	33,096
Euclid .....	54,875
Fairview Park .....	18,028
Garfield Heights .....	31,739
Highland Heights .....	6,249
Independence .....	6,500
Lakewood .....	59,718
Lyndhurst .....	15,982
Maple Heights .....	27,089
Mayfield Heights .....	19,847
Middleburg Heights .....	14,702
North Olmsted .....	34,204
North Royalton .....	23,197
Olmsted Falls .....	6,741
Parma .....	87,876
Parma Heights .....	21,448
Pepper Pike .....	6,185
Richmond Heights .....	9,611
Rocky River .....	20,410
Seven Hills .....	12,339
Shaker Heights .....	30,831

Solon .....	18,548
South Euclid .....	23,866
Strongsville .....	35,308
University Heights .....	14,790
Warrensville Heights .....	15,745
Westlake .....	27,018

**VILLAGES**

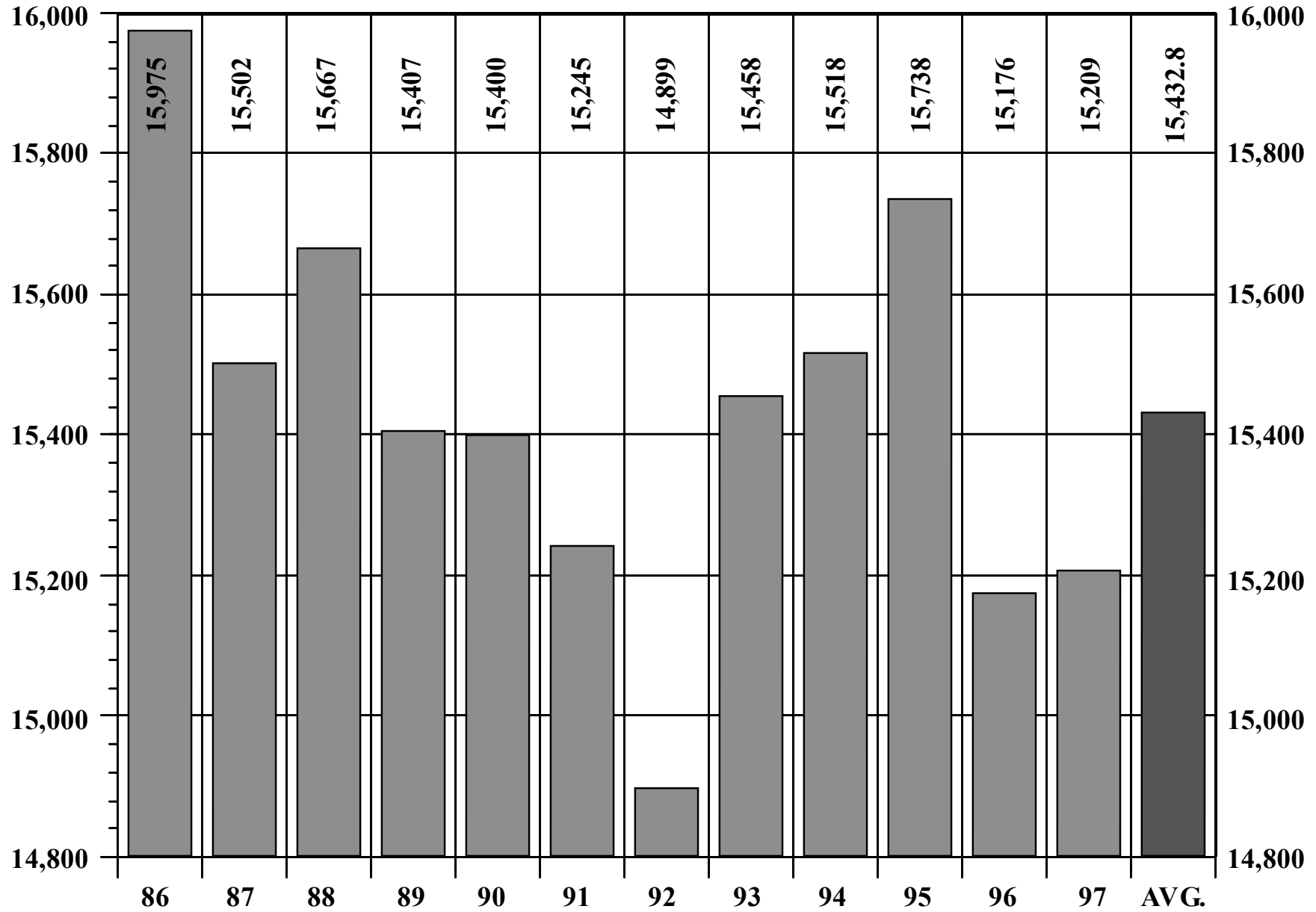
Bentleyville .....	674
Bratenahl .....	1,356
Brooklyn Heights .....	1,450
Chagrin Falls .....	4,146
Cuyahoga Heights .....	682
Gates Mills .....	2,508
Glenwillow .....	455
Highland Hills .....	1,934
Hunting Valley .....	648
Linndale .....	159
Mayfield .....	3,462
Moreland Hills .....	3,354
Newburgh Heights .....	2,310
North Randall .....	977
Oakwood .....	3,392
Orange .....	2,810
Valley View .....	2,137
Walton Hills .....	2,371
Woodmere .....	834

**TOWNSHIPS**

Chagrin Falls .....	202
Olmsted .....	8,330
Riveredge .....	0

**POPULATION OF CUYAHOGA COUNTY ..... 1,412,140**

**TOTAL OF ALL DEATHS IN CUYAHOGA COUNTY FOR A PERIOD OF TWELVE YEARS\***



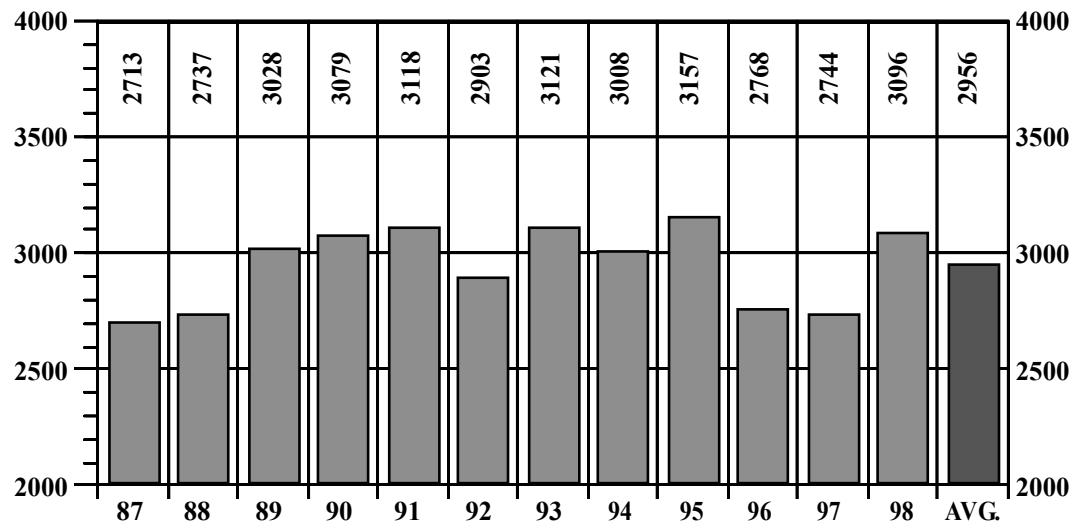
\*1998 Number of deaths not available at time of publication.





## SUMMARY OF CORONER'S CASES

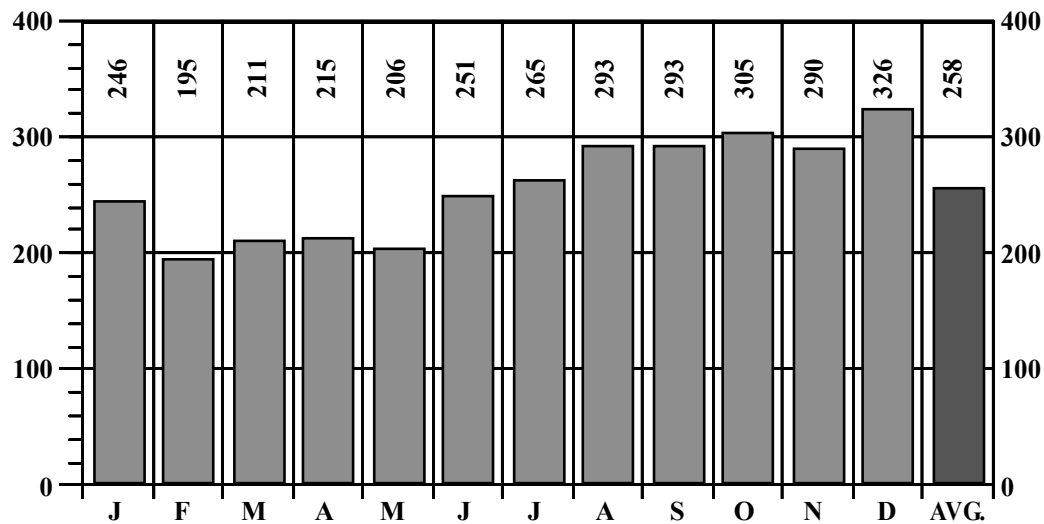
### FOR A PERIOD OF TWELVE YEARS



1987- 1998  
TOTAL CASES  
**35,472**

## SUMMARY OF CORONER'S CASES

### BY MONTH FOR THE YEAR 1998



1998  
TOTAL CASES  
**3,096**

**TABLE 1 SUMMARY OF ALL FATALITIES BY TYPE, LOCATION WITH MISCELLANEOUS DATA**

TYPE OF FATALITY	COUNTY			OUT OF COUNTY	TOTAL	MISCELLANEOUS	TOTAL
	CLEVELAND	OTHER CITIES	REST OF COUNTY				
ACCIDENTS IN THE HOME	118	150	5	34	307	CASES REPORTED - NOT ADMITTED	2271
ACCIDENTS WHILE AT WORK	4	8		4	16	AUTOPSIES**	1482
VEHICULAR ACCIDENTS*	46	47	14	47	154	AUTOPSIES (performed for other counties)	102
ACCIDENTS IN OTHER PLACES	256	183	5	21	465	UNIDENTIFIED BODIES	3
HOMICIDES	87	25		11	123	UNIDENTIFIED FOETUSES	0
SUICIDES	55	83	7	3	148	IDENTIFIED, UNCLAIMED, AND DONATED BODIES	53
VIOLENCE OF UNDETERMINED ORIGIN	11	7		4	22	DEATHS IN CUYAHOGA COUNTY	N.A.
TOTAL VIOLENT DEATHS	577	503	31	124	1235		
NATURAL CAUSES	871	929	27		1827		
NEONATAL AND INTRA-UTERINE DEATHS	16	2			18		
ABORTIONS					0		
UNDETERMINED CAUSES	11	5			16		
TOTAL CASES REPORTED AND ADMITTED	1475	1439	58	124	3096		

\*Vehicular Accidents, Summary Tables 1, 2, 4, 6, and 8 are tabulated by date of death reflecting fatalities received in 1998.

\*\*Includes 73 autopsies performed at hospitals.

REST OF COUNTRY includes Turnpikes, Villages and Townships.

N.A. - Not available at time of publication.

1998 SUMMARY OF CORONER'S CASES

**TOTAL CASES BY MONTH AND TYPE OF FATALITY**

**TABLE 2**

TYPE OF FATALITY	JAN.		FEB.		MARCH		APRIL		MAY		JUNE		JULY		AUG.		SEPT.		OCT.		NOV.		DEC.		TOTAL		GRAND TOTAL
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
ACCIDENTS IN THE HOME	14	22	10	17	12	15	7	13	11	9	17	9	14	9	13	14	10	10	9	15	15	6	19	17	151	156	307
ACCIDENTS WHILE AT WORK	1		1		1		2		2		2				1		1		1	1	2		1		15	1	16
VEHICULAR ACCIDENTS	7	2	2	3	7	1	7	2	13	4	10	8	11	5	8	8	14	1	7	3	8	4	12	7	106	48	154
ACCIDENTS IN OTHER PLACES	21	25	14	23	19	18	17	28	13	15	17	23	19	17	17	21	22	27	24	23	18	17	13	14	214	251	465
HOMICIDE	5	1	8	1	5	3	9	4	2	2	7	2	10	2	9	1	16	5	6	1	11	2	9	2	97	26	123
SUICIDE	8	2	6	3	11	1	7	2	11	3	11	2	16	2	9	7	13	4	9	4	7	3	6	1	114	34	148
VIOLENCE OF UNDETERMINED ORIGIN	2	3	2	1	3		2			1	2	1		1	1	1	1	1							13	9	22
NATURAL CAUSES	78	53	63	38	71	42	66	46	77	40	85	53	78	80	98	81	80	80	102	97	121	75	125	98	1044	783	1827
ABORTIONS																											0
NEONATAL AND INTRA-UTERINE DEATHS		2	2		1		1			2		2		1	1		3		1	1				1	9	9	18
UNDETERMINED CAUSES				1	1		1	1	1						1	2	4	1	1			1	1		10	6	16
GRAND TOTAL	136	110	108	87	131	80	119	96	130	76	151	100	148	117	158	135	164	129	160	145	182	108	186	140	1773	1323	3096

SUMMARY

**TABLE 3**

**AUTOPSIES BY MONTH AND TYPE OF FATALITY**

TYPE OF FATALITY	JAN.		FEB.		MARCH		APRIL		MAY		JUNE		JULY		AUG		SEPT.		OCT.		NOV.		DEC.		TOTAL		GRAND TOTAL
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
ACCIDENTS IN THE HOME	11	7	7	7	9	6	6	4	8	5	11	3	11	3	6	6	8	2	3	3	13	5	10	10	103	61	164
ACCIDENTS WHILE AT WORK	1		1		1		2		1		2				1		1		1	1	2		1		14	1	15
VEHICULAR ACCIDENTS	6	1	2	3	7	1	6	2	12	4	9	8	11	4	9	8	11	1	8	3	8	3	12	7	101	45	146
ACCIDENTS IN OTHER PLACES	5	4	7	4	10	4	8	1	3	2	8	3	4	4	7	6	8	8	9	3	9	2	7	1	85	42	127
HOMICIDE	5	1	8	1	5	3	9	4	2	2	7	2	10	2	9	1	15	5	7	1	11	2	9	2	97	26	123
SUICIDE	8	2	6	2	11	1	7	2	10	3	11	2	16	2	9	7	13	4	9	4	7	3	6	1	113	33	146
VIOLENCE OF UNDETERMINED ORIGIN	2	3	1	1	3		2			1	2	1		1	1	1	1								12	9	21
NATURAL CAUSES	38	24	27	17	31	23	38	24	37	10	27	27	23	28	32	17	32	16	37	21	37	19	39	16	398	272	640
ABORTIONS																											0
NEONATAL AND INTRA-UTERINE DEATHS		1			1		1				2		1	1		1		1	1					1	5	6	11
UNDETERMINED CAUSES					1	1	1	1	1						1	2	4	1	1			1	1		10	6	16
GRAND TOTAL	76	43	59	35	79	39	80	38	74	27	77	48	75	45	76	48	94	38	76	37	87	35	85	38	938	471	1409

SUMMARY

1998 SUMMARY OF CORONER'S CASES

**TOTAL CASES BY AGE GROUP AND TYPE OF FATALITY**

**TABLE 4**

TYPE OF FATALITY	Under 1 Year		1-4		5-9		10-14		15-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80 and Over		TOTAL		GRAND TOTAL		
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
ACCIDENTS IN THE HOME	1	2	2	2	1						2	2	4		9	4	9	5	17	3	13	7	4	3	3	4	3	3	10	6	10	11	15	23	48	81	151	156	307		
ACCIDENTS WHILE AT WORK											1		3		1		1		1	1	2		1		1		2		1				1				15	1	16		
VEHICULAR ACCIDENTS	3		3		4	2		1	9	3	8	1	13	4	6	1	8	5	6	3	4	2	4	4	7	1	4		3	5	5	1	9	5	10	10	106	48	154		
ACCIDENTS IN OTHER PLACES	1	4		2	1	1	1	1	2		3		2	1	4	2	12	8	16	4	19	4	7	2	8	7	10	7	24	16	22	25	27	39	55	128	214	251	465		
HOMICIDE	3	2	3	1			1	1	16	1	15	1	19	2	3	6	13	3	9	6	5	3	4		3		1		1								97	26	123		
SUICIDE							1	2	7	3	8	2	10	3	14	2	7	5	11	2	12	2	8	3	7	1	2	1	6	1	7	3	9	2	5	2	114	34	148		
VIOLENCE OF UNDETERMINED ORIGIN	2	3	1							1						2	3	2	1	1				2	1			1				1	1					13	9	22	
NATURAL CAUSES	10	10	2	4	2	1	1	2	6		3	4	4	13	11	7	30	21	56	25	76	33	75	39	98	40	118	50	110	69	137	90	144	119	161	256	1044	783	1827		
ABORTIONS																																									0
NEONATAL AND INTRA-UTERINE DEATHS	9	9																																					9	9	18
UNDETERMINED CAUSES	6	4							1								1	1	2						1														10	6	16
GRAND TOTAL	35	34	11	9	8	4	4	7	40	8	41	10	55	23	48	22	83	51	120	45	132	51	103	51	130	54	140	61	156	97	182	130	206	189	279	477	1773	1323	3096		

SUMMARY

TABLE 5

AUTOPSIES BY AGE GROUP AND TYPE OF FATALITY

TYPE OF FATALITY	Under 1 Year		1-4		5-9		10-14		15-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80 and Over		TOTAL		GRAND TOTAL		
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
ACCIDENTS IN THE HOME	1	2	2	2	1							2	2	3		9	4	9	5	16	3	12	7	4	2	3	2	2	1	8	4	7	5	7	10	17	12	103	61	164	
ACCIDENTS WHILE AT WORK											1		3		1				1	1	2		1		1		2		1				1				14	1	15		
VEHICULAR ACCIDENTS	3		3		4	2			9	3	8	1	11	4	6	1	7	5	6	3	4	2	4	4	7	1	4		3	5	5	1	8	4	9	9	101	45	146		
ACCIDENTS IN OTHER PLACES	1	2			1	1	1				3		2	1	4	2	10	7	14	2	12	2	4	1	4	1	4	3	7	2	5	4	7	3	7	10	85	42	127		
HOMICIDE	3	2	3	1			1	1	16	1	15	1	19	2	3	6	13	3	9	6	5	3	4		3		1		1								97	26	123		
SUICIDE							1	2	7	3	8	2	10	2	14	2	7	5	10	2	12	2	8	3	7	1	2	1	6	1	7	3	9	2	5	2	113	33	146		
VIOLENCE OF UNDETERMINED ORIGIN	2	3	1							1							2	3	2	1	1				2	1			1					1				12	9	21	
NATURAL CAUSES	9	8	2	3	1		1	2	6		3	4	4	13	11	3	27	20	51	19	60	26	40	22	36	20	25	16	35	20	29	15	31	22	27	29	398	242	640		
ABORTIONS																																									0
NEONATAL AND INTRA-UTERINE DEATHS	5	6																																					5	6	11
UNDETERMINED CAUSES	6	4							1								1	1	2						1														10	6	16
GRAND TOTAL	30	27	11	6	6	3	4	6	38	8	41	10	52	22	48	18	76	49	111	37	108	42	65	32	64	26	40	21	62	32	54	28	63	42	65	62	938	471	1409		

SUMMARY

1998 SUMMARY OF CORONER'S CASES

**GEOGRAPHICAL LOCATION - ALL FATALITIES SUMMARY**

**TABLE 6**

**SUMMARY**

CITIES	VIOLENT DEATHS										NATURAL CAUSES	ABORTIONS	INTRA-UTERINE AND NEONATAL UNDETERMINED CAUSES	TOTAL	GRAND TOTAL	
	ACCIDENTS					OTHER VIOLENCE										
	ACCIDENTS IN THE HOME	ACCIDENTS WHILE AT WORK	VEHICULAR ACCIDENT	ACCIDENTS IN OTHER PLACES	TOTAL ACCIDENTS	HOMICIDE	SUICIDE	UNDETERMINED ORIGIN	TOTAL OTHER VIOLENCE	TOTAL ALL VIOLENCE						
Cleveland	118	4	46	256	424	87	55	11	153	577	871		16	11	898	1475
Bay Village	1			2	3					3	5				5	8
Beachwood	1			10	11		1		1	12	5				5	17
Bedford	8			3	11		2		2	13	38		1	1	40	53
Bedford Heights		1	1		2					2	6				6	8
Berea	6		1	7	14		4		4	18	9				9	27
Brecksville	1		1		2		2		2	4	1				1	5
Broadview Heights			2	3	5		1		1	6	7			1	8	14
Brooklyn	3	1	1		5		1		1	6	1				1	7
Brook Park	4		1	7	12		1	1	2	14	9				9	23
Cleveland Heights	10		1	1	12	1	1		2	14	17			1	18	32
East Cleveland	4	1	1	11	17	8	1	1	10	27	76				76	103
Euclid	13	1	6	6	26	3	10		13	39	94				94	133
Fairview Park	8		1		9		3		3	12	7				7	19
Garfield Heights	6	1	1	3	11		3		3	14	57			1	58	72
Highland Heights											1				1	1
Independence	1		1	1	3					3	3				3	6
Lakewood	3		2	18	23	1	6		7	30	49		1	1	51	81
Lyndhurst	1			2	3			1	1	4	5				5	9
Maple Heights	4			4	8		3	1	4	12	17				17	29
Mayfield Heights			2	20	22		4		4	26	64				64	90
Middleburg Heights	3		1	13	17		5		5	22	70				70	92
North Olmsted	8		3	5	16		7		7	23	8				8	31
North Royalton	1		4	5	10		1		1	11	6				6	17
Olmsted Falls	1				1		1		1	2	3				3	5
Parma	25		5	19	49	4	8	1	13	62	121				121	183
Parma Heights	2		1	7	10		3		3	13	17				17	30
Pepper Pike	1				1					1	1				1	2
Richmond Heights	2			3	5		2		2	7	33				33	40
Rocky River	3	2	1	3	9	3	3	1	7	16	10				10	26
Seven Hills	1				1		1	1	2	3	8				8	11
Shaker Heights	5		1	2	8		1		1	9	11				11	20
Solon	3	1	2		6					6	24				24	30
South Euclid	4		2	1	7	1	1		2	9	10				10	19
Strongsville	6		4	5	15		3		3	18	13				13	31
University Heights	2				2					2	2				2	4
Warrensville Heights	2			3	5	4	2		6	11	60				60	71
Westlake	7		1	19	27		2		2	29	61				61	90
<b>GRAND TOTAL</b>	<b>268</b>	<b>12</b>	<b>93</b>	<b>439</b>	<b>812</b>	<b>112</b>	<b>138</b>	<b>18</b>	<b>268</b>	<b>1080</b>	<b>1800</b>	<b>0</b>	<b>18</b>	<b>16</b>	<b>1834</b>	<b>2914</b>

TABLE 7

GEOGRAPHICAL LOCATION - ALL FATALITIES SUMMARY

VILLAGES AND TOWNSHIPS	VIOLENT DEATHS										NATURAL CAUSES	ABORTIONS	INTRA-UTERINE AND NEONATAL	UNDETERMINED CAUSES	TOTAL	GRAND TOTAL
	ACCIDENTS					OTHER VIOLENCE										
	ACCIDENTS IN THE HOME	ACCIDENTS WHILE AT WORK	VEHICULAR ACCIDENTS	ACCIDENTS IN OTHER PLACES	TOTAL ACCIDENTS	HOMICIDE	SUICIDE	UNDETERMINED ORIGIN	TOTAL OTHER VIOLENCE	TOTAL ALL VIOLENCE						
<b>VILLAGES:</b>																
Bentleyville																0
Bratenahl			4		4					4	1				1	5
Brooklyn Heights	1				1					1	1				1	2
Chagrin Falls	1				1		1		1	2	5				5	7
Cuyahoga Heights																0
Gates Mills			1		1					1						1
Glenwillow																0
Highland Hills											2				2	2
Hunting Valley											1				1	1
Linndale																0
Mayfield							1		1	1						1
Moreland Hills			1		1					1	1				1	2
Newburgh Heights	1				1				1	2	3				3	5
North Randall				2	2					2	1				1	3
Oakwood			1	1	2		2		2	4	1				1	5
Orange	1		1		2					2	2				2	4
Valley View			1		1					1	1				1	2
Walton Hills	1		1	1	3					3	3				3	6
Woodmere																0
<b>TOTAL VILLAGES</b>	<b>5</b>	<b>0</b>	<b>10</b>	<b>4</b>	<b>19</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>5</b>	<b>24</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>46</b>
<b>TOWNSHIPS:</b>																
Chagrin Falls																0
Olmsted			2	1	3		2		2	5	5				5	10
<b>TOTAL TOWNSHIPS</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>5</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>10</b>
<b>TOTAL TURNPIKES</b>			<b>2</b>		<b>2</b>					<b>2</b>						<b>2</b>

SUMMARY



	VIOLENT DEATHS										NATURAL CAUSES	ABORTIONS	INTRA-UTERINE AND NEONATAL	UNDETERMINED CAUSES	TOTAL	GRAND TOTAL
	ACCIDENTS					OTHER VIOLENCE										
	ACCIDENTS IN THE HOME	ACCIDENTS WHILE AT WORK	VEHICULAR ACCIDENTS	ACCIDENTS IN OTHER PLACES	TOTAL ACCIDENTS	HOMICIDE	SUICIDE	UNDETERMINED ORIGIN	TOTAL OTHER VIOLENCE	TOTAL ALL VIOLENCE						
<b>TOTALS</b>																
<b>CITIES</b>	268	12	93	439	812	112	138	18	268	1080	1800		18	16	1834	2914
<b>VILLAGES</b>	5		10	4	19		5		5	24	22				22	46
<b>TOWNSHIPS</b>			2	1	3		2		2	5	5				5	10
<b>OUT OF COUNTY</b>	34	4	47	21	106	11	3	4	18	124						124
<b>TURNPIKE</b>			2		2					2						2
<b>GRAND TOTAL</b>	307	16	154	465	942	123	148	22	293	1235	1827	0	18	16	1861	3096

TABLE 8

ACCIDENT FATALITIES BY MONTH

MONTH	HOME ACCIDENTS					WORK ACCIDENTS					VEHICULAR ACCIDENTS					OTHER ACCIDENTS					TOTALS					GRAND TOTAL						
	CLEVELAND	OTHER CITIES	VILLAGES	TOWNSHIPS	OUT OF COUNTY	TOTAL	CLEVELAND	OTHER CITIES	VILLAGES	TOWNSHIPS	OUT OF COUNTY	TOTAL	CLEVELAND	OTHER CITIES	VILLAGES	TOWNSHIPS	TURNPIKE	OUT OF COUNTY	TOTAL	CLEVELAND	OTHER CITIES	VILLAGES	TOWNSHIPS	OUT OF COUNTY	TOTAL		CLEVELAND	OTHER CITIES	VILLAGES	TOWNSHIPS	TURNPIKE	OUT OF COUNTY
JANUARY	17	15			4	36	1				1	3	4				2	9	18	27			1	46	39	46				7	92	
FEBRUARY	14	12			1	27		1			1	2	2				1	5	21	14	1		1	37	37	29	1			3	70	
MARCH	9	14	1		3	27		1			1	4	2				2	8	23	12	1		1	37	36	29	2			6	73	
APRIL	5	11	1		3	20		1		1	2	4	1	1			3	9	28	17				45	37	30	2			7	76	
MAY	7	10			3	20	1			1	2	7	5		1		4	17	16	10	1		1	28	31	25	1	1		9	67	
JUNE	10	13			3	26		2			2	5	4	3			6	18	24	15			1	40	39	34	3			10	86	
JULY	5	16			2	23						3	7	2			4	16	18	13			5	36	26	36	2			11	75	
AUGUST	12	11			4	27				1	1	4	8				4	16	17	19	1		1	38	33	38	1			10	82	
SEPTEMBER	9	9			2	20				1	1	4	3			1	7	15	28	17		1	3	49	41	29		1	1	13	85	
OCTOBER	7	13	2		2	24	1	1			2	4	3	1			2	10	26	18			3	47	38	35	3			7	83	
NOVEMBER	9	8			4	21	1	1			2	2	1	2		1	6	12	22	10			3	35	34	20	2		1	13	70	
DECEMBER	14	18	1		3	36		1			1	4	7	1	1		6	19	15	11			1	27	33	37	2	1		10	83	
TOTAL	118	150	5	0	34	307	4	8	0	0	4	16	46	47	10	2	2	47	154	256	183	4	1	21	465	424	388	19	3	2	106	942

SUMMARY

1998 SUMMARY OF CORONER'S CASES

**HOMICIDES, SUICIDES, VIOLENCE OF UNDETERMINED ORIGIN/FATALITIES BY MONTH** **TABLE 9**

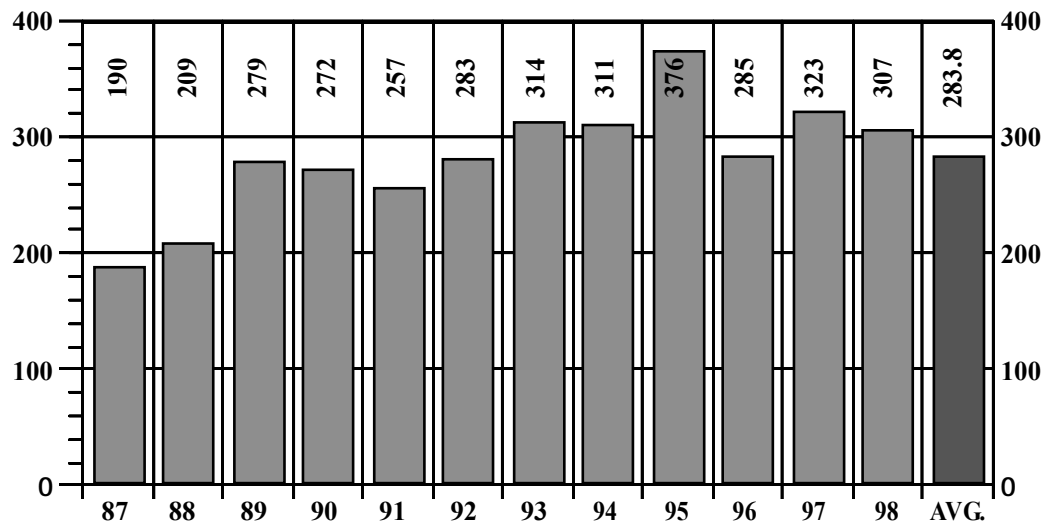
**SUMMARY**

MONTH	HOMICIDES					SUICIDES					VIOLENCE OF UNDETERMINED ORIGIN					TOTAL					GRAND TOTAL				
	CLEVELAND	OTHER CITIES	VILLAGES	TOWNSHIPS	OUT OF COUNTY	TOTAL	CLEVELAND	OTHER CITIES	VILLAGES	TOWNSHIPS	OUT OF COUNTY	TOTAL	CLEVELAND	OTHER CITIES	VILLAGES	TOWNSHIPS	OUT OF COUNTY	TOTAL	CLEVELAND	OTHER CITIES		VILLAGES	TOWNSHIPS	OUT OF COUNTY	TOTAL
JANUARY	5				1	6	3	7				10	3	1				1	5	11	8			2	21
FEBRUARY	5	4				9	2	7				9		1				2	3	7	12			2	21
MARCH	6	1			1	8	9	3				12	1	1				1	3	16	5			2	23
APRIL	8	4			1	13	3	5	1			9	1	1					2	12	10	1		1	24
MAY	4					4	6	6		2		14		1					1	10	7			2	19
JUNE	8	1				9	8	5				13	3						3	19	6				25
JULY	9	3				12	4	13	1			18		1					1	13	17	1			31
AUGUST	8				2	10	7	7	1	1		16	1	1					2	16	8	1	1	2	28
SEPTEMBER	11	8			2	21	4	13				17	2						2	17	21			2	40
OCTOBER	6				1	7	4	9				13								10	9			1	20
NOVEMBER	8	3			2	13	4	3	1	1	1	10								12	6	1	1	3	23
DECEMBER	9	1			1	11	1	5	1			7								10	6	1		1	18
<b>TOTAL</b>	<b>87</b>	<b>25</b>			<b>11</b>	<b>123</b>	<b>55</b>	<b>83</b>	<b>5</b>	<b>2</b>	<b>3</b>	<b>148</b>	<b>11</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>22</b>	<b>153</b>	<b>115</b>	<b>5</b>	<b>2</b>	<b>18</b>	<b>293</b>	



## ACCIDENTS IN THE HOME

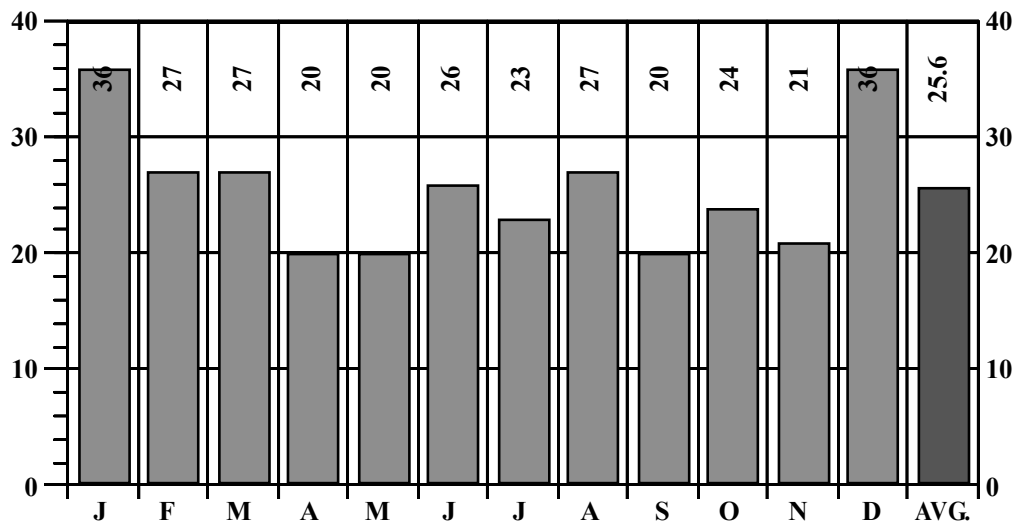
### FOR A PERIOD OF TWELVE YEARS



		NUMBER	PERCENT
SEX	MALE	151	49
	FEMALE	156	51
RACE	WHITE	243	79
	NON-WHITE	64	21
ALCOHOL	TESTED	194	63
	POSITIVE	32	16
AUTOPSY	AUTOPSIED	164	53

## ACCIDENTS IN THE HOME

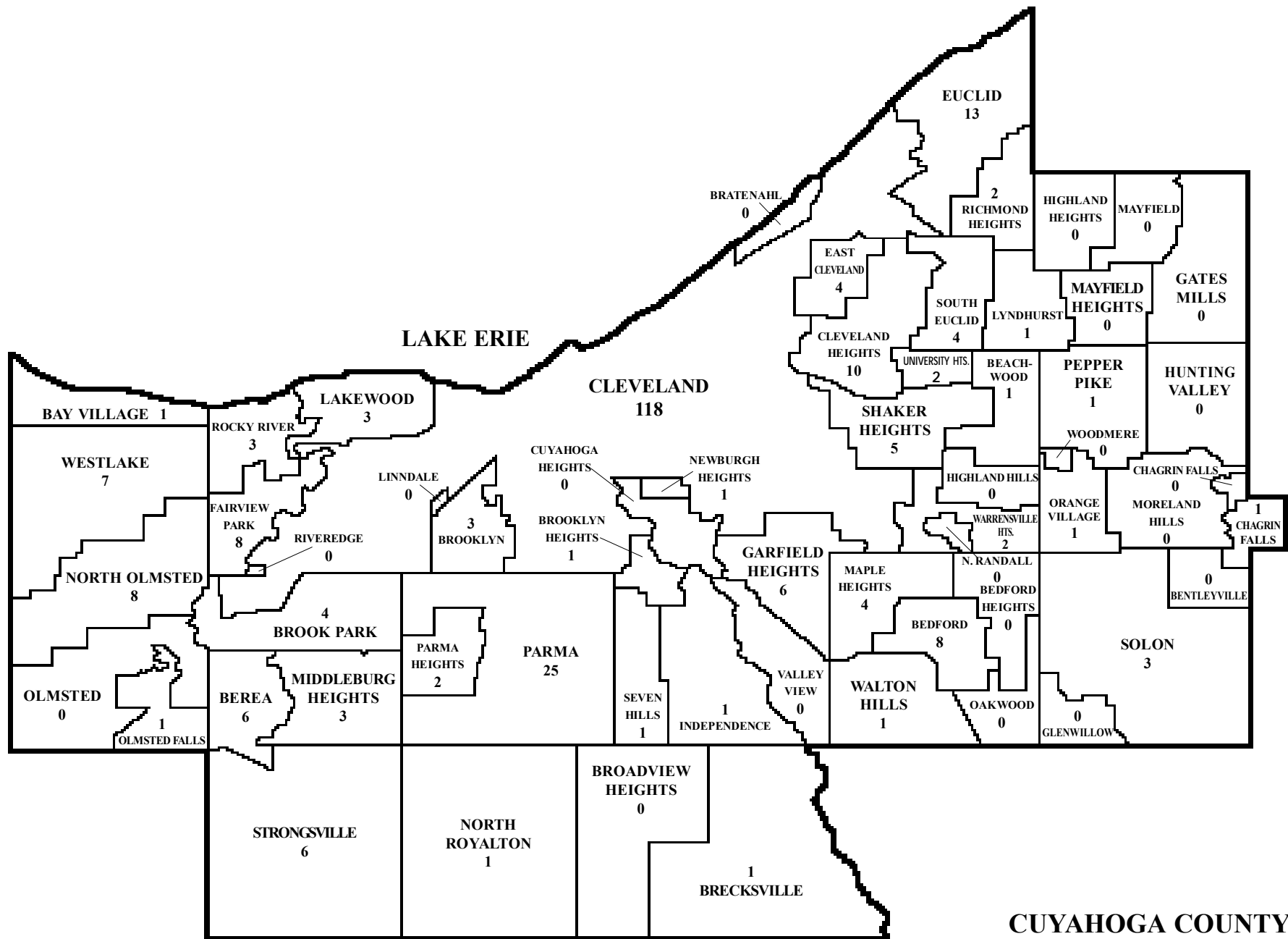
### BY MONTH FOR THE YEAR 1998



1998  
TOTAL CASES  
307

## 1998 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME DISTRIBUTION OF FATALITIES FROM ACCIDENTS IN THE HOME

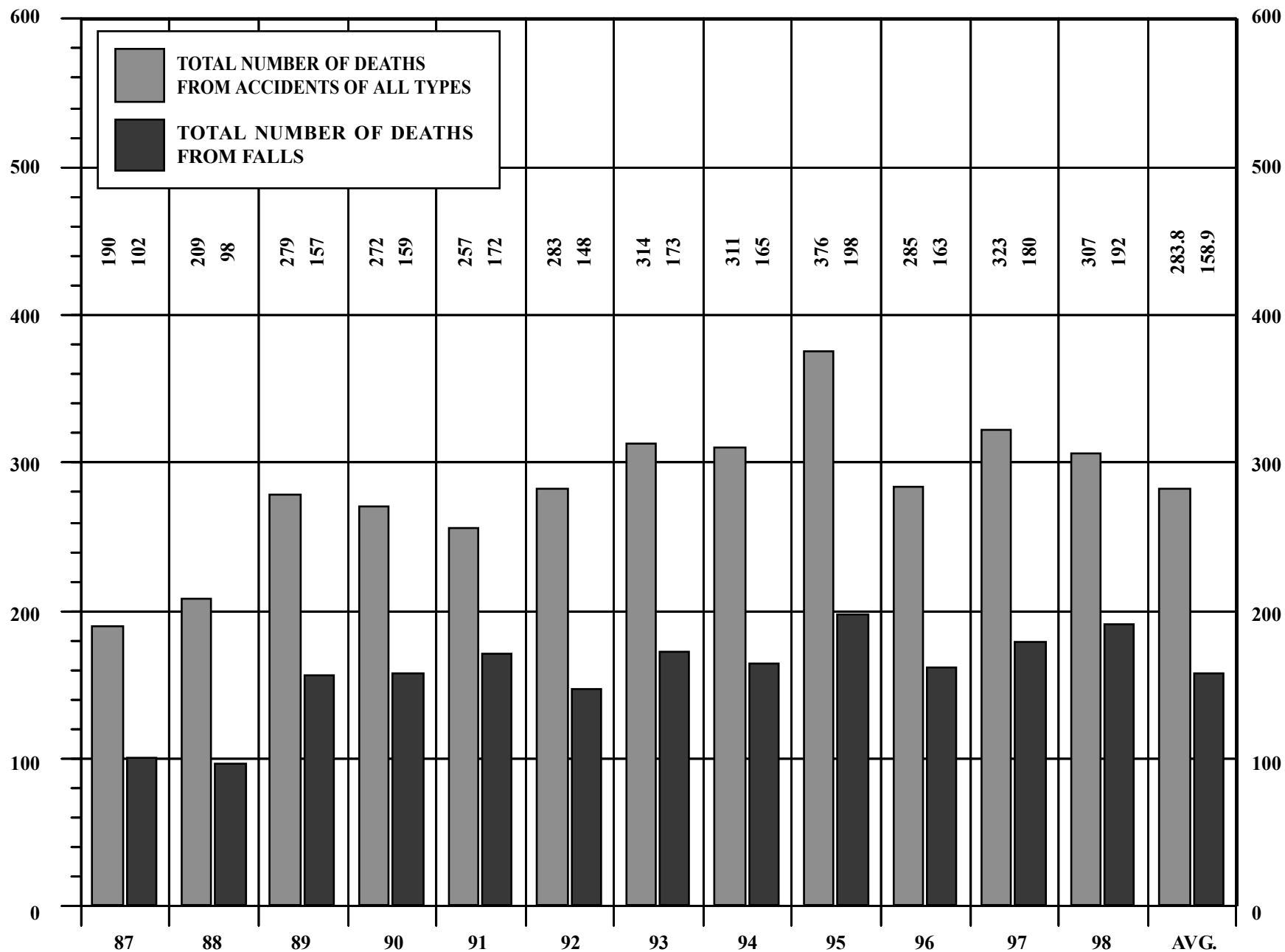
MAP 2



CUYAHOGA COUNTY

# FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

## DEATHS RESULTING FROM ACCIDENTS AND ACCIDENTAL FALLS IN THE HOME FOR A PERIOD OF TWELVE YEARS



ACCIDENTS IN THE HOME

## 1998 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

**TABLE 10**

**MONTHLY ALCOHOL INCIDENCE**

MONTH	TOTAL	NOT TESTED																TESTED						STAGES											
		Total		Cleve.		County		Out of County		Total		Surv'd Too Long		Under Age		Other		Total		Neg.		Pos.		0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over					
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
JANUARY	36	14	22	6	11	6	9	2	2	4	11	4	10			1	10	11	8	10	2	1	1	1	1										
FEBRUARY	27	10	17	6	8	4	8		1	3	10	2	10		1		7	7	5	7	2			1		1									
MARCH	27	12	15	5	4	5	10	2	1	2	8	2	8				10	7	7	7	3		2	1											
APRIL	20	7	13	1	4	4	8	2	1		7		7				7	6	7	5		1							1						
MAY	20	11	9	3	4	6	4	2	1	3	5	3	3		2		8	4	6	4	2					2									
JUNE	26	17	9	7	3	9	4	1	2	5	5	4	5		1		12	4	10	4	2				1	1									
JULY	23	14	9	3	2	10	6	1	1	2	4	2	4				12	5	9	5	3	2		1											
AUGUST	27	13	14	5	7	5	6	3	1	5	5	5	5				8	9	6	9	2	1		1											
SEPTEMBER	20	10	10	5	4	4	5	1	1	2	6	2	6				8	4	6	4	2		1						1						
OCTOBER	24	9	15	2	5	5	10	2		5	10	5	9		1		4	5	3	5	1				1										
NOVEMBER	21	15	6	7	2	6	2	2	2	2	2	2	2				13	4	9	4	4	1		1			2								
DECEMBER	36	19	17	6	8	10	9	3		4	3	3	3		1		15	14	12	10	3	4	2			2	3								
<b>TOTAL</b>	<b>307</b>	<b>151</b>	<b>156</b>	<b>56</b>	<b>62</b>	<b>74</b>	<b>81</b>	<b>21</b>	<b>13</b>	<b>37</b>	<b>76</b>	<b>34</b>	<b>72</b>		<b>3</b>	<b>4</b>	<b>114</b>	<b>80</b>	<b>88</b>	<b>74</b>	<b>26</b>	<b>6</b>	<b>4</b>	<b>3</b>	<b>4</b>	<b>6</b>	<b>4</b>	<b>2</b>	<b>7</b>	<b>1</b>	<b>1</b>				



1998 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

AGE - RACE - ALCOHOL INCIDENCE

TABLE 11

AGE	RACE	TOTAL	NOT TESTED								TESTED			STAGES											
			Total		Surv'd Too Long		Under Age		Other		Total		Neg.	Pos.	0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over				
			M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Under 1 Year	White																								
	Non-White	3	1	2							1	2	1	2											
1 - 4	White	2	1	1							1	1	1	1											
	Non-White	2	1	1							1	1	1	1											
5 - 9	White	1	1								1		1												
	Non-White																								
10 - 14	White																								
	Non-White																								
15 - 19	White																								
	Non-White																								
20 - 24	White	4	2	2							2	2	2	2											
	Non-White																								
25 - 29	White	4	4		1		1				3		3												
	Non-White																								
30 - 34	White	6	4	2							4	2	1	2	3	1	1	1							
	Non-White	7	5	2							5	2	5	1	1	1									
35 - 39	White	9	4	5							4	5	3	3	1	2	1			1	1				
	Non-White	5	5								5	3	3	2				1		1					
40 - 44	White	12	11	1	1		1				10	1	6	4	1	1		1				3			
	Non-White	8	6	2							6	2	4	2	2			1				1			
45 - 49	White	12	7	5	1				1		6	5	3	4	3	1			1	1	1		1		
	Non-White	8	6	2							6	2	5	2	1	1									
50 - 54	White	6	3	3		1		1			3	2	2	2	1							1			
	Non-White	1	1								1		1												
55 - 59	White	4	1	3		1		1			1	2		2	1			1							
	Non-White	3	2	1							2	1	2	1											
60 - 64	White	3	3		2		2				1		1												
	Non-White	3		3								3		3											
65 - 69	White	9	7	2		1		1			7	1	6	1	1			1							
	Non-White	7	3	4		1		1			3	3	3	3											
70 - 74	White	16	7	9		4		4			7	5	5	5	2				1	1					
	Non-White	5	3	2	1	1		1		1	2	1	2	1											
75 - 79	White	35	13	22	6	10	6	9			7	12	5	11	2	1				1			1		
	Non-White	3	2	1							2	1	1	1	1							1			
80 - over	White	120	44	76	23	54	22	52		1	2	21	22	19	22	2	2								
	Non-White	9	4	5	2	3	2	2			1	2	2	2	2										
TOTAL	White	243	112	131	34	71	32	68		2	3	78	60	58	55	20	5	3	2	4		4	3	2	5
	Non-White	64	39	25	3	5	2	4		1	1	36	20	30	19	6	1	1	1		2		1	1	
GRAND TOTAL		307	151	156	37	76	34	72		3	4	114	80	88	74	26	6	4	3	4		6	4	2	7

ACCIDENTS IN THE HOME

## 1998 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

**TABLE 12**
**MODE - ALCOHOL INCIDENCE**

MODE	TOTAL	NOT TESTED																TESTED						STAGES									
		Total		Cleve.		County		Out of County		Total		Surv'd Too Long		Under Age		Other		Total	Neg.		Pos.	0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over					
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
ASPHYXIA	9	3	6	2	4		1	1	1																								
BURNING	9	3	6	1	3	1	1	1	2		1						1																
CARBON MONOXIDE	9	7	2	5	1	2	1																										
CRUSHING	1	1						1																									
ELECTROCUTION	1	1		1																													
EXPLOSION	1	1		1																													
EXPOSURE	1		1		1																												
FALLING	192	84	108	17	33	53	65	14	10	32	72	31	69			1	3	52	36	44	35	8	1	2		1		1	1	2		1	
POISONING	61	41	20	25	15	14	5	2																									
SHOOTING	2	2		1				1																									
STABBING	1		1				1																										
STRANGULATION	1		1		1																												
STRUCK BY OBJECT	3	2	1	1			1	1		1		1																					
UNDETERMINED	14	5	9	2	4	3	5			3	3	2	3			1		2	6	2	6												
OTHERS*	2	1	1			1	1			1						1																	
<b>TOTAL</b>	<b>307</b>	<b>151</b>	<b>156</b>	<b>56</b>	<b>62</b>	<b>74</b>	<b>81</b>	<b>21</b>	<b>13</b>	<b>37</b>	<b>76</b>	<b>34</b>	<b>72</b>			<b>3</b>	<b>4</b>	<b>114</b>	<b>80</b>	<b>88</b>	<b>74</b>	<b>26</b>	<b>6</b>	<b>4</b>	<b>3</b>	<b>4</b>		<b>6</b>	<b>4</b>	<b>2</b>	<b>7</b>	<b>1</b>	<b>1</b>

\*Injured while lifting and injured while bending over.

1998 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

MODE - ALCOHOL INCIDENCE

TABLE 13

MODE	TOTAL					NOT TESTED				TESTED			STAGES											
		Total		Cleve.		County		Out of County		Total	Surv'd Too Long	Under Age	Other	Total	Neg.	Pos.	0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M
<b><u>ASPHYXIA:</u></b>																								
Aspiration of Foreign Object	4	1	3	1	1		1		1					1	3	1	3							
Compression	2	2		1					1					2		2								
Mechanical	1		1		1									1		1								
Overlaying	1		1		1									1		1								
Plastic Bag	1		1		1									1		1								
<b>TOTAL</b>	<b>9</b>	<b>3</b>	<b>6</b>	<b>2</b>	<b>4</b>		<b>1</b>	<b>1</b>	<b>1</b>					<b>3</b>	<b>6</b>	<b>3</b>	<b>6</b>							
<b><u>BURNING:</u></b>																								
Conflagration	5	2	3	1	2	1								2	3	1	3	1			1			
Incidental Fire	4	1	3		1		1	1	1		1			1	1	2	1	2						
Unknown	0																							
Scalding	0																							
<b>TOTAL</b>	<b>9</b>	<b>3</b>	<b>6</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>		<b>1</b>			<b>1</b>	<b>3</b>	<b>5</b>	<b>2</b>	<b>5</b>	<b>1</b>		<b>1</b>			
<b><u>CARBON MONOXIDE:</u></b>																								
Auto Exhaust	4	3	1	1	1	2								3	1	1	1	2			1		1	
Conflagration	5	4	1	4			1							4	1	3	1	1				1		
Natural Gas	0																							
<b>TOTAL</b>	<b>9</b>	<b>7</b>	<b>2</b>	<b>5</b>	<b>1</b>	<b>2</b>	<b>1</b>							<b>7</b>	<b>2</b>	<b>4</b>	<b>2</b>	<b>3</b>			<b>1</b>		<b>1</b>	<b>1</b>

ACCIDENTS IN THE HOME

## 1998 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

**TABLE 13 (continued)**

### MODE - ALCOHOL INCIDENCE

MODE	TOTAL	NOT TESTED												TESTED			STAGES											
		Total		Cleve.		County		Out of County		Total		Surv'd Too Long		Under Age		Other		Total	Neg.	Pos.	0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M
<b>CRUSHING:</b>																												
Vehicle	1	1					1										1	1										
<b>TOTAL</b>	<b>1</b>	<b>1</b>					<b>1</b>										<b>1</b>	<b>1</b>										
<b>ELECTRUCION:</b>																												
Electric lamp	1	1		1													1	1										
<b>TOTAL</b>	<b>1</b>	<b>1</b>		<b>1</b>													<b>1</b>	<b>1</b>										
<b>EXPLOSION:</b>																												
Compressor	1	1		1													1			1								
<b>TOTAL</b>	<b>1</b>	<b>1</b>		<b>1</b>													<b>1</b>			<b>1</b>								
<b>EXPOSURE:</b>																												
Cold	1		1		1												1	1										
<b>TOTAL</b>	<b>1</b>		<b>1</b>		<b>1</b>												<b>1</b>	<b>1</b>										
<b>SHOOTING:</b>																												
Self-inflicted	2	2		1			1										2	1		1					1			
<b>TOTAL</b>	<b>2</b>	<b>2</b>		<b>1</b>			<b>1</b>										<b>2</b>	<b>1</b>		<b>1</b>					<b>1</b>			
<b>STABBING:</b>																												
Unknown	1		1				1										1	1										
<b>TOTAL</b>	<b>1</b>		<b>1</b>				<b>1</b>										<b>1</b>	<b>1</b>										
<b>STRANGULATION:</b>																												
Clothing cord	1		1		1												1	1										
<b>TOTAL</b>	<b>1</b>		<b>1</b>		<b>1</b>												<b>1</b>	<b>1</b>										
<b>STRUCK BY OBJECT:</b>																												
Boom of farm machinery	1	1					1										1	1										
Dresser	1	1		1				1	1																			
Screen Door	1		1				1										1	1										
<b>TOTAL</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>			<b>1</b>	<b>1</b>									<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>								
<b>OTHER:</b>																												
Bending over sink	1		1				1										1	1										
Lifting object	1	1					1																					
<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>1</b>				<b>1</b>										<b>1</b>	<b>1</b>										

1998 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

MODE - ALCOHOL INCIDENCE

TABLE 14

MODE	TOTAL	NOT TESTED						TESTED						STAGES																
		Total		Cleve.		County		Out of County		Total		Surv'd Too Long		Under Age		Other		Total		Neg.		Pos.		0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M
<b>POISONING*:</b>																														
<i>Single Chemical Agent:</i>																														
Acetaminophen	1		1		1										1		1													
Cocaine	16	12	4	10	3	2	1							12	4	12	3			1			1							
Furosemide	1		1		1										1		1													
Heroin	4	4		2		2								4		4														
Isopropanol	1	1				1								1		1														
Morphine	1		1		1										1		1													
Olanzapine	1	1				1								1		1														
Opiate	1	1					1							1		1														
Oxycodone	1		1		1										1					1			1							
Sertraline	1		1		1										1		1													
<b>TOTAL</b>	<b>28</b>	<b>19</b>	<b>9</b>	<b>12</b>	<b>8</b>	<b>6</b>	<b>1</b>	<b>1</b>						<b>19</b>	<b>9</b>	<b>19</b>	<b>7</b>			<b>2</b>			<b>2</b>							
<i>Combined Effect of Ethanol and:</i>																														
Cocaine	1	1		1										1										1						
Heroin	3	3		2		1								3		3							1		2					
Opiates	1	1		1										1		1							1							
Alprazolam and Chlorpheniramine	1		1		1									1														1		
Cocaine and Olanzapine	1		1		1									1												1				
Fluoxetine and Salicylate	1	1				1								1						1										
Heroin and Cocaine	2	2		2										2		2								1						
Heroin and Codeine	1	1		1										1		1										1				
Hydrocodone and Diazepam	1	1				1								1		1										1				
Cocaine, Oxycodone and Benzodiazepine	1	1					1							1		1														
Diazepam, Amitriptyline and Hydroxyzine	1	1		1										1													1			
Meprobamate, Hydrocodone, Morphine, Oxycodone, Cocaine, Dextromethorphan																														
Doxepin and Propoxyphene	1		1				1								1								1							
<b>TOTAL</b>	<b>15</b>	<b>12</b>	<b>3</b>	<b>8</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>1</b>						<b>12</b>	<b>3</b>	<b>1</b>	<b>11</b>	<b>3</b>				<b>1</b>	<b>1</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>4</b>		<b>1</b>	

ACCIDENTS IN THE HOME

1998 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

TABLE 14 (continued)

MODE - ALCOHOL INCIDENCE

MODE	TOTAL	NOT TESTED												TESTED			STAGES														
		Total		Cleve.		County		Out of County		Total		Surv'd Too Long		Under Age		Other		Total	Neg.	Pos.	0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over				
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
<b>POISONING* (continued):</b>																															
<i>Combined Effect of Two Chemical Agents</i>																															
Amitriptyline and Fluoxetine	1		1				1							1		1															
Amitriptyline and Nortriptyline	1		1		1									1		1															
Cocaine and Heroin	1		1		1									1		1															
Cocaine and Opiate	1	1		1										1		1															
Cocaine and Tetrahydrocannabinol	1	1				1								1		1															
Codeine and Morphine	1	1		1										1			1		1												
Hydromorphone and Morphine	1	1		1										1		1															
Opiate and Methylenedioxyamphetamine	1	1				1								1		1															
Opiates and Methadone	1		1		1									1		1															
<b>TOTAL</b>	<b>9</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>1</b>							<b>5</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>1</b>												
<i>Combined Effect of Three or More Chemical Agents</i>																															
Meprobamate, Diazepam and Codeine	1	1				1								1		1															
Opiates, Benzodiazepines and Diphenhydramine	1	1				1								1		1															
Temazepam, Meprobamate and Hydrocodone	1	1				1								1		1															
Venlafaxine, Verapamil and Buspirone	1		1				1							1		1															
Benzodiazepines, Cocaine, Barbiturates and Opiates	1		1				1							1		1															
Heroin, Codeine, Phenobarbital and Amitriptyline	1		1		1									1		1															
Meprobamate, Diazepam, Heroin and Cocaine	1	1		1										1		1															
Opiates, Diazepam, Fluoxetine and Diphenhydramine	1	1		1										1		1															
Hydrocodone, Meprobamate, Propoxyphene, Alprazolam and Lorazepam	1		1		1									1		1															
<b>TOTAL</b>	<b>9</b>	<b>5</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>							<b>5</b>	<b>4</b>	<b>5</b>	<b>4</b>														
<b>GRAND TOTAL</b>	<b>61</b>	<b>41</b>	<b>20</b>	<b>25</b>	<b>15</b>	<b>14</b>	<b>5</b>	<b>2</b>						<b>41</b>	<b>20</b>	<b>29</b>	<b>15</b>	<b>12</b>	<b>5</b>	<b>1</b>	<b>3</b>	<b>1</b>		<b>4</b>		<b>2</b>	<b>1</b>	<b>4</b>		<b>1</b>	

1998 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

MODE - AGE GROUPS

TABLE 15

MODE	Under 1 Year		1-4		5-9		10-14		15-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80 and Over		TOTAL		GRAND TOTAL						
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F									
ASPHYXIA	1	2	1	1																																2	3	6	9						
BURNING																1																							3	6	9				
CARBON MONOXIDE			1								1				1		1																						7	2	9				
CRUSHING																																							1		1				
ELECTROCUTION																			1																				1		1				
EXPLOSION																1																							1		1				
EXPOSURE																																								1		1			
FALLING					1									2	1	1	1		3		2		2	2	1	2	3	2	6	2	8	8	13	20	41	71	84	108	192						
POISONING										1	1	2		6	3	7	4	11	2	9	7	1		2	1				1										41	20	61				
SHOOTING										1																													2		2				
STABBING																																								1		1			
STRANGULATION					1																																			1		1			
STRUCK BY OBJECT																																									1	1	3		
UNKNOWN																																									1	1	5	9	14
OTHERS																																									1	1	2		
TOTAL	1	2	2	2	1					2	2	4		9	4	9	5	17	3	13	7	4	3	3	4	3	3	10	6	10	11	15	23	48	81	151	156	307							

ACCIDENTS IN THE HOME

## 1998 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

### TABLE 16

### FALLS - ALCOHOL INCIDENCE

FALLS BY CODE*	TOTAL	NOT TESTED										TESTED						STAGES											
		Total		Surv'd Too Long		Under Age		Other		Total		Neg.		Pos.		0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over							
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
E880 - From Stairs	50	25	25	4	10	4	10					21	15	14	14	7	1	2	1					1	1	2	1		
E881 - From Ladder	6	6		2		2						4		4															
E882 - From Building or Other Structure	5	5		1		1						4		3		1						1							
E884 - From One Level to Another																													
<i>Bathtub</i>	2	1	1									1	1	1	1														
<i>Bed</i>	2		2			2																							
<i>Commode</i>	1	1		1		1																							
<i>Walker</i>	6	3	3	2	3	2	3					1		1															
<i>Wheelchair</i>	4	1	3	1	3	1	3																						
E885 - On Same Level	111	40	71	21	54	20	51			1	3	19	17	19	17														
E888 - Unspecified	5	2	3									2	3	2	3														
<b>TOTAL</b>	<b>192</b>	<b>84</b>	<b>108</b>	<b>32</b>	<b>72</b>	<b>31</b>	<b>69</b>			<b>1</b>	<b>3</b>	<b>52</b>	<b>36</b>	<b>44</b>	<b>35</b>	<b>8</b>	<b>1</b>	<b>2</b>		<b>1</b>		<b>1</b>		<b>1</b>	<b>1</b>	<b>2</b>		<b>1</b>	

\*International classification of diseases by World Health Organization: Ninth Revision.



1998 FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

FALLS - AGE GROUPS

TABLE 17

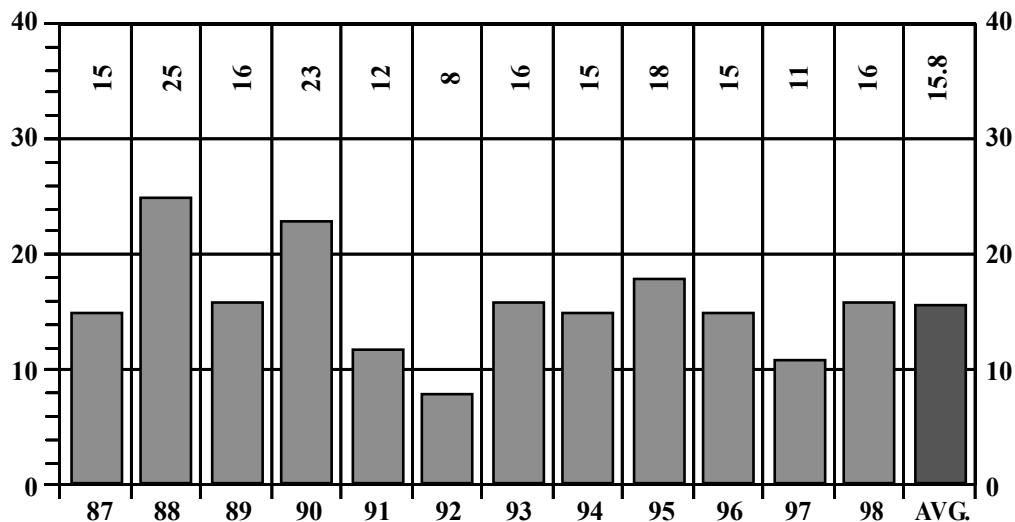
FALLS BY CODE*	Under 1 Year		1-4		5-9		10-14		15-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80 and Over		TOTAL		GRAND TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
E880 - From Stairs																			1	1	2	2	1	1	1	1	4	1	1	3	3	7	11	10	25	25	50			
E881 - From Ladder													1			1			2										1		1						6		6	
E882 - From Building or Other Structure					1								1									1					1										5		5	
E884 - From One Level to Another																																								
<i>Bathtub</i>																																			1	1	1	1	2	
<i>Bed</i>																																				2		2	2	
<i>Commode</i>																								1													1		1	
<i>Walker</i>																											1						1	3	1	3	3	6		
<i>Wheelchair</i>																												1								2	1	3	4	
E885 - On Same Level													1	1											1	1	1			5	5	6	12	27	51	40	71	111		
E888 - Unspecified																																			1	3	2	3	5	
TOTAL					1								2	1	1	1			3		2		2	2	1	2	3	2	6	2	8	8	13	20	41	71	84	108	192	

\*International classification of diseases by World Health Organization: Ninth Revision.



## ACCIDENTS WHILE AT WORK

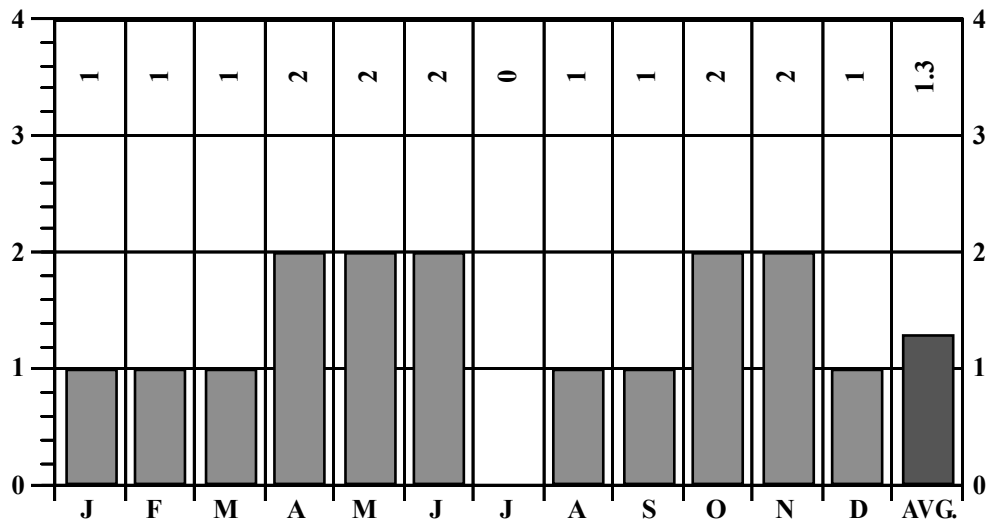
### FOR A PERIOD OF TWELVE YEARS



		NUMBER	PERCENT
SEX	MALE	15	94
	FEMALE	1	6
RACE	WHITE	12	75
	NON-WHITE	4	25
ALCOHOL	TESTED	15	94
	POSITIVE	1	5
AUTOPSY	AUTOPSIED	15	94

## ACCIDENTS WHILE AT WORK

### BY MONTH FOR THE YEAR 1998

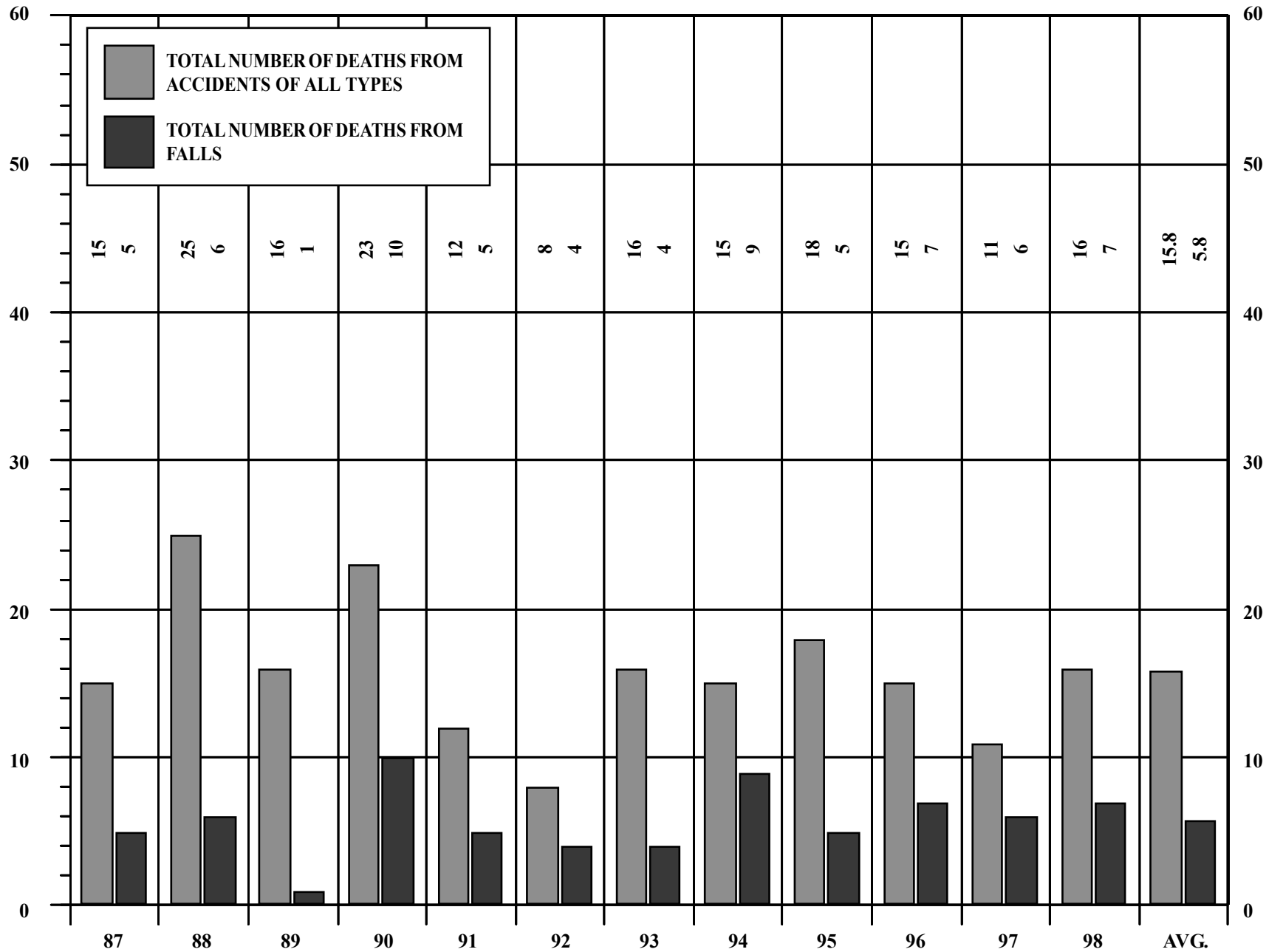


1998  
TOTAL CASES  
16

# ACCIDENTS WHILE AT WORK

## FATALITIES RESULTING FROM ACCIDENTS WHILE AT WORK

### DEATHS RESULTING FROM ACCIDENTS AND ACCIDENTAL FALLS WHILE AT WORK FOR A PERIOD OF TWELVE YEARS



1998 FATALITIES RESULTING FROM ACCIDENTS WHILE AT WORK

MONTHLY ALCOHOL INCIDENCE

TABLE 18

MONTH	TOTAL					NOT TESTED				TESTED			STAGES																			
		Total		Cleve.		County		Out of County		Total		Surv'd Too Long		Under Age		Other		Total		Neg.		Pos.		0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over		
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M
JANUARY	1	1		1																												
FEBRUARY	1	1				1																										
MARCH	1	1				1																										
APRIL	2	2				1	1																									
MAY	2	2		1			1	1	1	1																						
JUNE	2	2				2																										
JULY																																
AUGUST	1	1					1																									
SEPTEMBER	1	1					1																									
OCTOBER	2	1	1		1	1																										
NOVEMBER	2	2		1		1																										
DECEMBER	1	1				1																										
TOTAL	16	15	1	3	1	8	4	1	1					14	1	13	1	1														

ACCIDENTS WHILE AT WORK

## 1998 FATALITIES RESULTING FROM ACCIDENTS WHILE AT WORK

### TABLE 19

### AGE - RACE - ALCOHOL INCIDENCE

AGE	RACE	TOTAL	NOT TESTED								TESTED			STAGES								
			Total		Surv'd Too Long		Under Age		Other		Total	Neg.	Pos.	0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over		
			M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Under 1 Year	White																					
	Non-White																					
1 - 4	White																					
	Non-White																					
5 - 9	White																					
	Non-White																					
10 - 14	White																					
	Non-White																					
15 - 19	White																					
	Non-White																					
20 - 24	White	1	1								1											1
	Non-White																					
25 - 29	White	3	3								3	3										
	Non-White																					
30 - 34	White	1	1								1	1										
	Non-White																					
35 - 39	White	1	1		1	1																
	Non-White																					
40 - 44	White	2	1	1							1	1	1	1								
	Non-White																					
45 - 49	White	1	1								1	1										
	Non-White	1	1								1	1										
50 - 54	White	1	1								1	1										
	Non-White																					
55 - 59	White	1	1								1	1										
	Non-White																					
60 - 64	White	2	2								2	2										
	Non-White	1	1								1	1										
65 - 69	White																					
	Non-White																					
70 - 74	White																					
	Non-White																					
75 - 79	White	1	1								1	1										
	Non-White																					
80 - over	White																					
	Non-White																					
TOTAL	White	12	11	1	1	1					10	1	9	1	1							1
	Non-White	4	4								4	4										
GRAND TOTAL		16	15	1	1	1					14	1	13	1	1							1

1998 FATALITIES RESULTING FROM ACCIDENTS WHILE AT WORK

MODE - ALCOHOL INCIDENCE

TABLE 20

MODE	TOTAL					NOT TESTED				TESTED			STAGES											
		Total		Cleve.		County		Out of County		Total	Surv'd Too Long	Under Age	Other	Total	Neg.	Pos.	0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M
ASPHYXIA	1		1		1										1		1							
BURNING	1	1		1				1		1														
CRUSHING	5	5		1		3		1						5		4		1						1
ELECTROCUTION	1	1				1								1		1								
FALLING	7	7		1		4		2						7		7								
OTHER*	1	1						1						1		1								
TOTAL	16	15	1	3	1	8		4		1		1		14	1	13	1	1						1

\*Sustained injury while seated in parts dryer that began to spin.

## 1998 FATALITIES RESULTING FROM ACCIDENTS WHILE AT WORK

### TABLE 21

### MODE - ALCOHOL INCIDENCE

MODE	TOTAL	NOT TESTED												TESTED			STAGES											
		Total		Cleve.		County		Out of County		Total		Surv'd Too Long		Under Age		Other		Total	Neg.	Pos.	0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M
<b><u>ASPHYXIA:</u></b>																												
Aspiration of foreign object	1		1		1																							
<b>TOTAL</b>	<b>1</b>		<b>1</b>		<b>1</b>																							
<b><u>BURNING:</u></b>																												
Fire in storeroom	1		1		1																							
<b>TOTAL</b>	<b>1</b>		<b>1</b>		<b>1</b>																							
<b><u>CRUSHING:</u></b>																												
Box	1		1																									
Crane	1		1																									
Fork lift	1		1																									
Presser	1		1		1																							
Steel	1		1																									
<b>TOTAL</b>	<b>5</b>		<b>5</b>		<b>1</b>		<b>3</b>		<b>1</b>																			
<b><u>ELECTROCUTION:</u></b>																												
Light fixture	1		1																									
<b>TOTAL</b>	<b>1</b>		<b>1</b>																									
<b><u>OTHER:</u></b>																												
Seated in parts dryer that began to spin	1		1																									
<b>TOTAL</b>	<b>1</b>		<b>1</b>																									



# 1998 FATALITIES RESULTING FROM ACCIDENTS WHILE AT WORK

## MODE - AGE GROUPS

TABLE 22

MODE	15 - 19		20 - 24		25 - 29		30 - 34		35 - 39		40 - 44		45 - 49		50 - 54		55 - 59		60 - 69		70 - 79		TOTAL		GRAND TOTAL
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
ASPHYXIA											1													1	1
BURNING									1															1	1
CRUSHING			1		2		1											1						5	5
ELECTROCUTION														1										1	1
FALLING										1		2				1		2		1				7	7
OTHER					1																			1	1
TOTAL			1		3		1		1		1	1	2		1		1		3		1		15	1	16

# FATALITIES RESULTING FROM ACCIDENTS WHILE AT WORK

## FALLS - ALCOHOL INCIDENCE

TABLE 23

FALLS BY CODE*	TOTAL	NOT TESTED										TESTED			STAGES											
		Total		Surv'd Too Long		Under Age		Other		Total		Neg.	Pos.	0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over						
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F					
E881 -From Ladder or Scaffolding	1	1										1	1													
E882 -From Building or Other Structure	5	5										5	5													
E884 -From One Level to Another <i>Cat Dozer</i>	1	1										1	1													
TOTAL	7	7										7	7													

\*International classification of diseases by World Health Organization: Ninth Revision.

## 1998 FATALITIES RESULTING FROM ACCIDENTS WHILE AT WORK

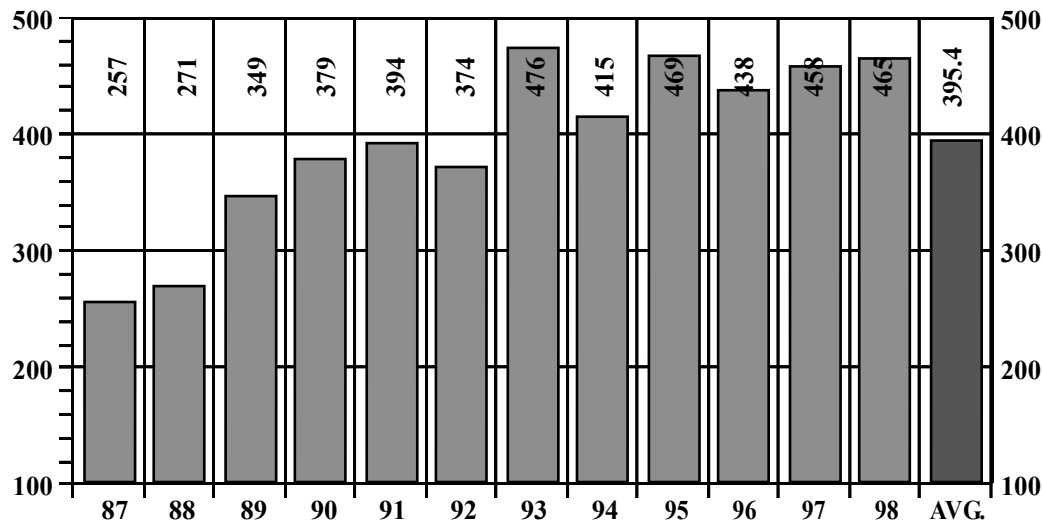
### TABLE 24

### FALLS - AGE GROUPS

FALLS BY CODE*	15 - 19		20 - 24		25 - 29		30 - 34		35 - 39		40 - 44		45 - 49		50 - 54		55 - 59		60 - 69		70 - 74		TOTAL		GRAND TOTAL		
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
E881 - From Ladder or Scaffolding																	1							1		1	
E882 - From Building or Other Structure											1		1						2		1				5		5
E885 - From One Level to Another <i>Cat Dozer</i>													1											1		1	
<b>TOTAL</b>											1		2				1		2		1			7		7	

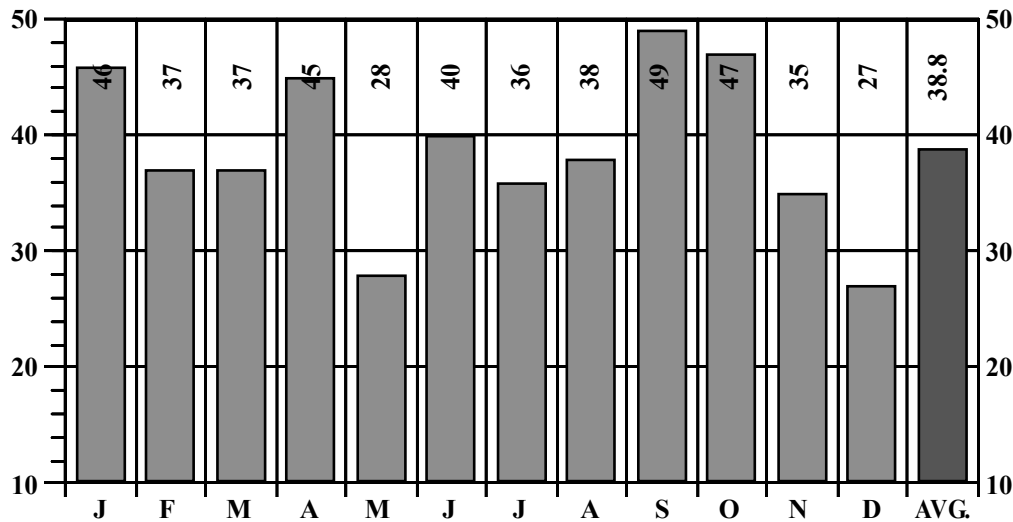
\*International classification of diseases by World Health Organization: Ninth Revision.

## ACCIDENTS IN OTHER PLACES FOR A PERIOD OF TWELVE YEARS



		NUMBER	PERCENT
SEX	MALE	214	46
	FEMALE	251	54
RACE	WHITE	368	79
	NON-WHITE	97	21
ALCOHOL	TESTED	172	37
	POSITIVE	23	13
AUTOPSY	AUTOPSIED	127	27

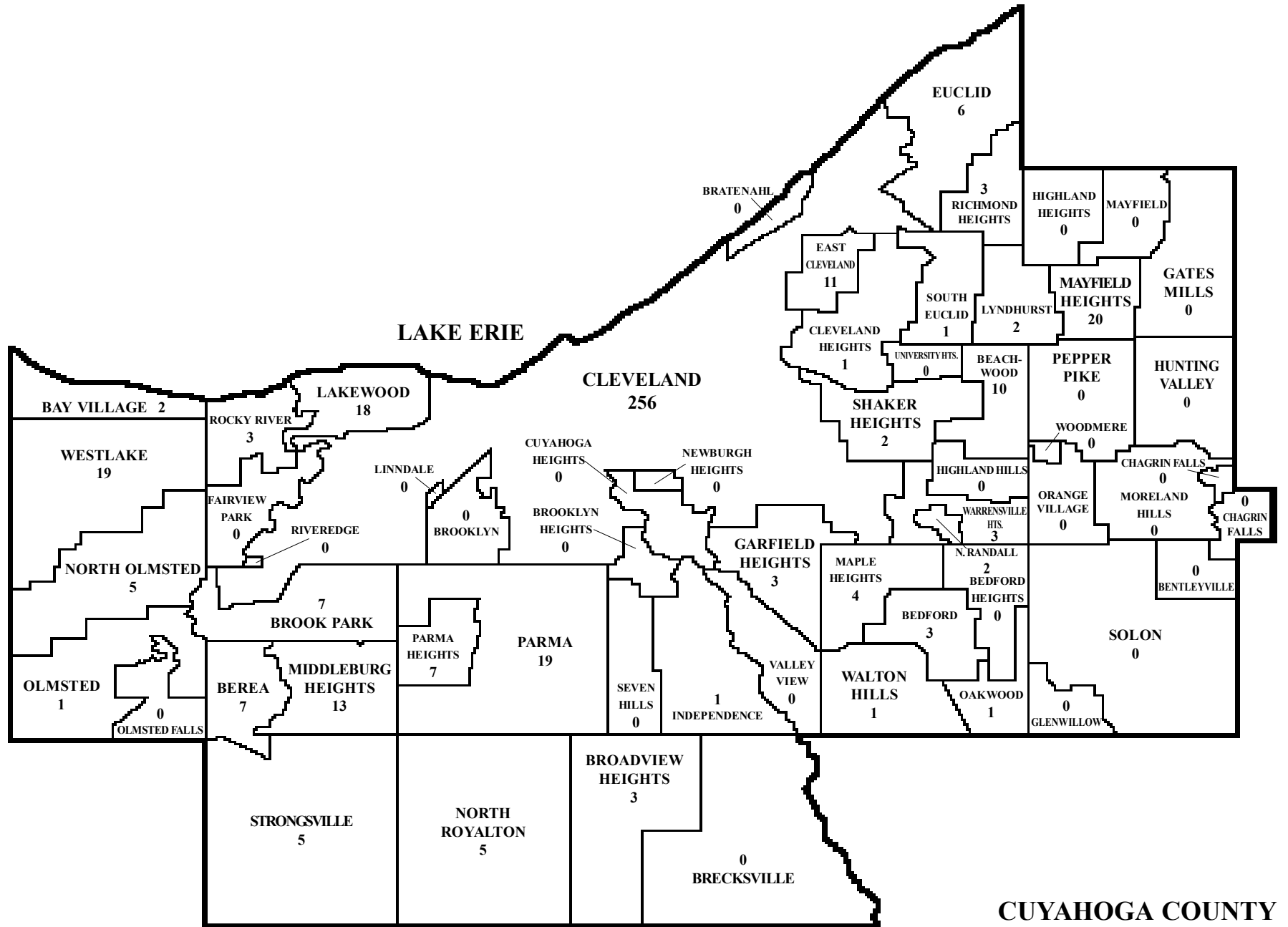
## ACCIDENTS IN OTHER PLACES BY MONTH FOR THE YEAR 1998



1998  
TOTAL CASES  
465

## 1998 FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES DISTRIBUTION OF FATALITIES FROM ACCIDENTS IN OTHER PLACES

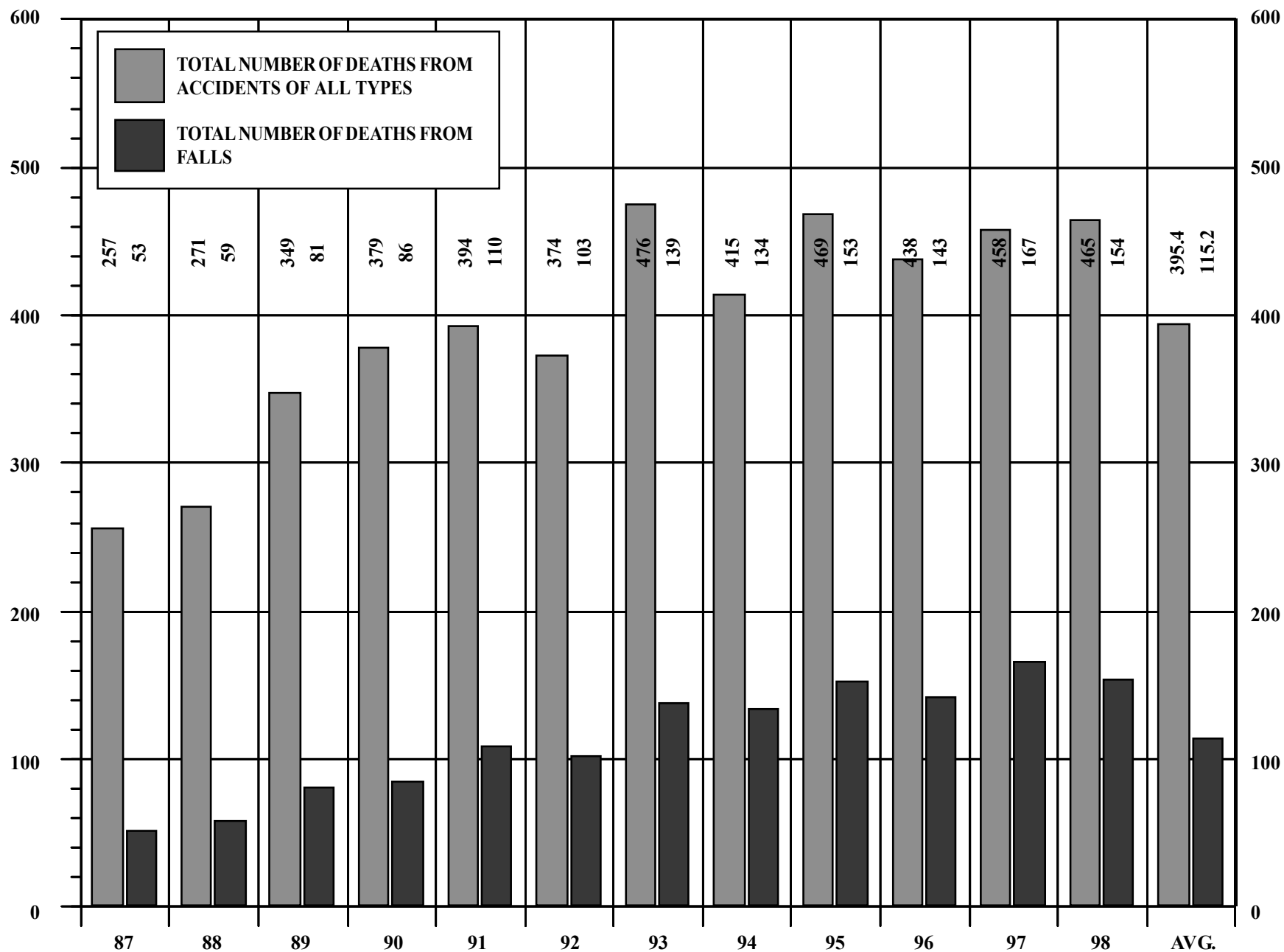
MAP 3



CUYAHOGA COUNTY

# FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES

## DEATHS RESULTING FROM ACCIDENTS AND ACCIDENTAL FALLS IN OTHER PLACES FOR A PERIOD OF TWELVE YEARS



ACCIDENTS IN OTHER PLACES<sup>83</sup>

## 1998 FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES

**TABLE 25**

**MONTHLY ALCOHOL INCIDENCE**

MONTH	TOTAL	NOT TESTED								TESTED						STAGES																
		Total		Cleve.		County		Out of County		Total		Surv'd Too Long		Under Age		Other		Total		Neg.		Pos.		0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over		
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
JANUARY	46	21	25	7	11	13	14	1		15	20	13	19			2	1	6	5	4	5	2					1	1				
FEBRUARY	37	14	23	9	12	4	11	1		7	17	6	14			1	3	7	6	6	6	1					1					
MARCH	37	19	18	11	12	7	6	1		6	15	5	13			1	2	13	3	9	3	4					1	2		1		
APRIL	45	17	28	11	17	6	11			9	23	4	17			5	6	8	5	6	5	2		1	1							
MAY	28	13	15	9	7	4	7	1		8	11	8	8			3	5	4	4	5	4											
JUNE	40	17	23	13	11	3	12	1		9	18	6	11			3	7	8	5	8	5											
JULY	36	19	17	10	8	5	8	4	1	12	12	6	10			6	2	7	5	7	5											
AUGUST	38	17	21	7	10	9	11	1		9	14	7	11			2	3	8	7	5	7	3			1		1				1	
SEPTEMBER	49	22	27	10	18	10	8	2	1	13	14	12	11			1	3	9	13	8	12	1	1	1			1					
OCTOBER	47	24	23	15	11	8	10	1	2	10	16	10	16					14	7	11	5	3	2	1	1		2				1	
NOVEMBER	35	18	17	13	9	3	7	2	1	10	10	7	6	1	3	3	8	7	5	7	3			1					1		1	
DECEMBER	27	13	14	8	7	4	7	1		4	11	4	9			2	9	3	9	2		1		1								
TOTAL	465	214	251	123	133	76	112	15	6	112	181	88	145	1	24	35	102	70	83	66	19	4	3	3	2		4	3	1	3	3	1

1998 FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES

AGE - RACE - ALCOHOL INCIDENCE

TABLE 26

AGE	RACE	TOTAL	NOT TESTED								TESTED			STAGES										
			Total		Surv'd Too Long		Under Age		Other		Total		Neg.	Pos.	0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over			
			M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Under 1 Year	White	2		2		2		2																
	Non-White	3	1	2									1	2	1	1		1						
1 - 4	White	2		2						1														
	Non-White																							
5 - 9	White	2	1	1									1	1	1	1								
	Non-White																							
10 - 14	White	2	1	1									1	1	1	1								
	Non-White																							
15 - 19	White	2	2			1		1					1		1									
	Non-White																							
20 - 24	White	2	2										2		1							1		
	Non-White	1	1										1									1		
25 - 29	White	3	2	1									2	1	1	1	1					1		
	Non-White																							
30 - 34	White	2	2										2		2									
	Non-White	4	2	2									2	2	2	2								
35 - 39	White	8	7	1	2		1			1			5	1	1		4	1		1			1	2
	Non-White	12	5	7									5	7	1	6	4	1		1		1		2
40 - 44	White	12	10	2	1	2	1	1			1		9		7	2	2		1		1			
	Non-White	8	6	2	1		1						5	2	4	2	1				1			
45 - 49	White	9	8	1	2	1	1	1			1		6		6									
	Non-White	14	11	3	4	1	4	1					7	2	4	2	3		1		1			
50 - 54	White	8	7	1	2	1	1	1			1		5		5									
	Non-White	1		1									1		1									
55 - 59	White	11	5	6	3	4	2	4			1		2	2	2	2								
	Non-White	4	3	1	1	1		1			1		2		1		1		1					
60 - 64	White	10	4	6	3	3	1	1			2	2	1	3	1	3								
	Non-White	7	6	1	3		3						3	1	3	1								
65 - 69	White	32	17	15	14	10	9	7			5	3	3	5	3	5								
	Non-White	8	7	1	1	1	1				1		6		6									
70 - 74	White	37	16	21	10	14	5	13			5	1	6	7	6	6								1
	Non-White	10	6	4	2	3	1	2			1	1	4	1	4	1								
75 - 79	White	53	19	34	14	31	14	22				9	5	3	5	3								
	Non-White	13	8	5	5	3	4	1			1	2	3	2	3	2								
80 - over	White	171	51	120	39	96	36	82			3	14	12	24	11	24	1							1
	Non-White	12	4	8	4	7	2	6			2	1		1		1								
TOTAL	White	368	154	214	91	165	72	134		1	19	30	63	49	54	47	9	2	1	1	1		3	1
	Non-White	97	60	37	21	16	16	11			5	5	39	21	29	19	10	2	2	2	1		3	3
GRAND TOTAL		465	214	251	112	181	88	145		1	24	35	102	70	83	66	19	4	3	3	2	4	3	1

ACCIDENTS IN OTHER PLACES 85

## 1998 FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES

**TABLE 27**

**MODE - ALCOHOL INCIDENCE**

MODE	TOTAL	NOT TESTED												TESTED			STAGES														
		Total		Cleve.		County		Out of County		Total		Surv'd Too Long		Under Age		Other		Total	Neg.	Pos.	0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over				
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
ASPHYXIA	10	10		8		2												10	7	3								2	1		
BURNING	3	1	2				1	1	1									1	2	1	1								1		
CARBON MONOXIDE	2	1	1	1	1													1	1	1	1										
ELECTROCUTION	1	1				1												1		1											
EXPOSURE	1	1				1												1									1				
FALLING	154	50	104	16	34	27	66	7	4	34	89	33	81		1	8	16	15	16	15											
JUMPING	1	1						1										1	1												
POISONING	42	28	14	17	12	10	2	1		2		2					26	14	14	11	12	3	3	3	2		2	3	1	1	
RAILROAD ACCIDENT	2	2		1		1												2		1						1					
SHOOTING	2	2				1		1										2		1					1						
STRUCK BY OBJECT	3		3				2		1		1		1					2		2											
THERAPEUTIC COMPLICATION	204	105	99	75	74	30	25			71	68	48	42		1	23	25	34	31	33	31	1								1	
UNDETERMINED	32	7	25	3	12	2	13	2		2	21	2	19				2	5	4	5	4										
OTHER*	8	5	3	2		1	3	2		3	2	3	2				2	1	2	1											
<b>TOTAL</b>	<b>465</b>	<b>214</b>	<b>251</b>	<b>123</b>	<b>133</b>	<b>76</b>	<b>112</b>	<b>15</b>	<b>6</b>	<b>112</b>	<b>181</b>	<b>88</b>	<b>145</b>	<b>1</b>	<b>24</b>	<b>35</b>	<b>102</b>	<b>70</b>	<b>83</b>	<b>66</b>	<b>19</b>	<b>4</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>4</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>1</b>

\* Injury while being turned, inadvertent administration of Iron Dextran during renal dialysis, injury while being moved, twisted ankle while seating self in chair, allergic reaction to peanut, injured leg while trapped between two golf carts and struck hand against wall.





## 1998 FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES

**TABLE 29**

**MODE - ALCOHOL INCIDENCE**

MODE	TOTAL	NOT TESTED														TESTED						STAGES								
		Total		Cleve.		County		Out of County		Total		Surv'd Too Long		Under Age		Other		Total		Neg.		Pos.		0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M
<b>POISONING:</b>																														
<i>Single Chemical Agent:</i>																														
Cocaine	9	4	5	2	5	2												4	5	4	4		1		1					
Heprin	1			1		1													1			1								
Heroin	1		1		1														1											
Intravenous drug abuse	8	7	1	5	1	1		1		1								6	1	6	1									
Leustatin	1		1		1														1			1								
Opiates	2	1	1			1	1											1	1	1	1									
<i>Ethanol and:</i>																														
Acetaminophen	1			1		1													1			1								
Cocaine	3	2	1	1	1	1		1		1								1	1			1	1							
Diphenhydramine	1	1				1												1				1						1		
Heroin	3	3		3														3			3		1			1			1	
Diazepam and Opiate	1	1				1												1				1			1					
Heroin and Cocaine	2	1	1	1	1													1	1			1	1			1				
Opiate and Cocaine	2	2				2												2			2		1			1				
Tramadol and Cocaine	1	1		1														1				1				1				
Heroin, Cocaine, Diazepam and Fluoxetine	1	1				1												1				1			1					
<i>Combined Effect of Two or More Chemical Agents:</i>																														
Benzodiazepines and Cocaine	1	1		1														1		1										
Cocaine and Opiates	1		1		1													1			1									
Heroin and Cocaine	1	1		1														1		1										
Cocaine, Opiates and Marijuana	1	1		1														1		1										
Heroin, Codeine, Hydrocodone and Diazepam	1		1				1											1		1										
<b>TOTAL</b>	<b>42</b>	<b>28</b>	<b>14</b>	<b>17</b>	<b>12</b>	<b>10</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>							<b>26</b>	<b>14</b>	<b>14</b>	<b>11</b>	<b>12</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>		<b>1</b>	<b>1</b>

1998 FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES

MODE - AGE GROUPS

TABLE 30

MODE	Under 1 Year		1-4		5-9		10-14		15-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80 and Over		TOTAL		GRAND TOTAL			
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
ASPHYXIA											1		1		2		3						2															10		10		
BURNING																	1								1													1	2	3		
CARBON MONOXIDE				1	1																																	1	1	2		
ELECTROCUTION							1																																1		1	
EXPOSURE																	1																						1		1	
FALLING																		3		2		1			1	1		1	3	2	5	11	12	29	83	50	104	154				
JUMPING																	1																						1		1	
POISONING		2								1		1		1	6	6	9		8	2			1		2		1								2	28	14	42				
RAILROAD ACCIDENT										1			1																									2		2		
SHOOTING														1									1																2		2	
STRUCK BY OBJECT						1		1																																3		3
THERAPEUTIC COMPLICATION	1	2		1				1					1	1	2	1	2	3	8	2	3	2	5	6	7	7	22	12	18	16	13	25	22	21	105	99	204					
UNDETERMINED																	1	1	1									1	1	2	1	1	3	20	7	25			32			
OTHER								1																1									2	1	1	2	5	3		8		
TOTAL	1	4		2	1	1	1	1	2		3		2	1	4	2	12	8	16	4	19	4	7	2	8	7	10	7	24	16	22	25	27	39	55	128	214	251	465			

ACCIDENTS IN OTHER PLACES<sup>89</sup>

1998 FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACE

TABLE 31

FALLS - ALCOHOL INCIDENCE

FALLS BY CODE*	TOTAL	NOT TESTED										TESTED			STAGES							
		Total		Surv'd Too Long		Under Age		Other		Total		Neg.	Pos.	0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over		
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
E880 - From Stairs	5	2	3	1	2	1	1				1	1	1	1	1							
E882 - From Building or Other Structure	1	1										1		1								
E884 - From One Level to Another																						
<i>Bed</i>	10	2	8	2	7	2	5				2		1		1							
<i>Cane</i>	1	1		1		1																
<i>Commode</i>	4	1	3	1	3	1	3															
<i>Crane</i>	1	1										1		1								
<i>Geri-chair</i>	1		1		1		1															
<i>Table</i>	1		1		1		1															
<i>Walker</i>	3		3		2		2						1		1							
<i>Wheelchair</i>	11	5	6	4	6	3	5			1	1	1		1								
E885 -On Same Level	112	35	77	24	65	24	61				4	11	12	11	12							
E888 -Unspecified	4	2	2	1	2	1	2					1		1								
<b>TOTAL</b>	<b>154</b>	<b>50</b>	<b>104</b>	<b>34</b>	<b>89</b>	<b>33</b>	<b>81</b>			<b>1</b>	<b>8</b>	<b>16</b>	<b>15</b>	<b>16</b>	<b>15</b>							

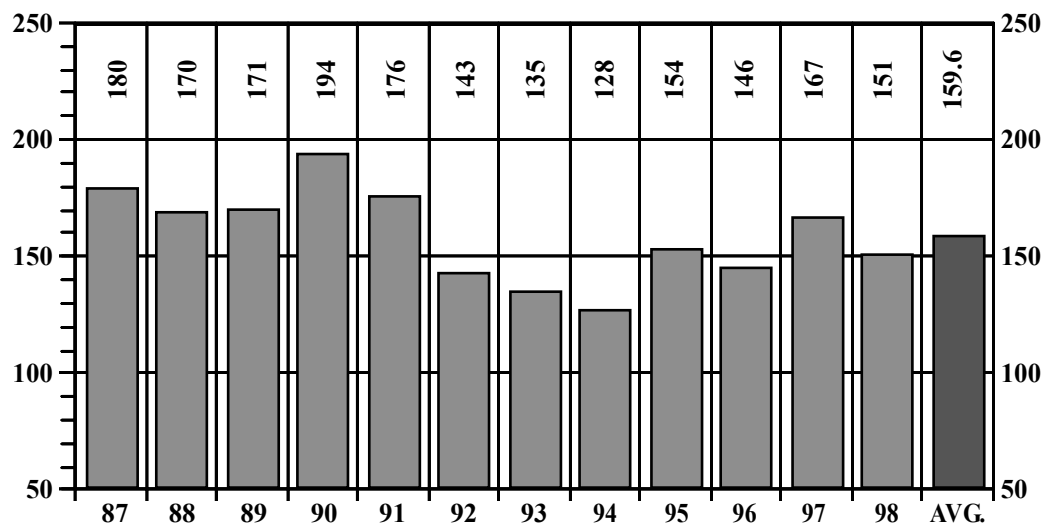
\*International classification of diseases by World Health Organization: Ninth Revision.





## VEHICULAR FATALITIES

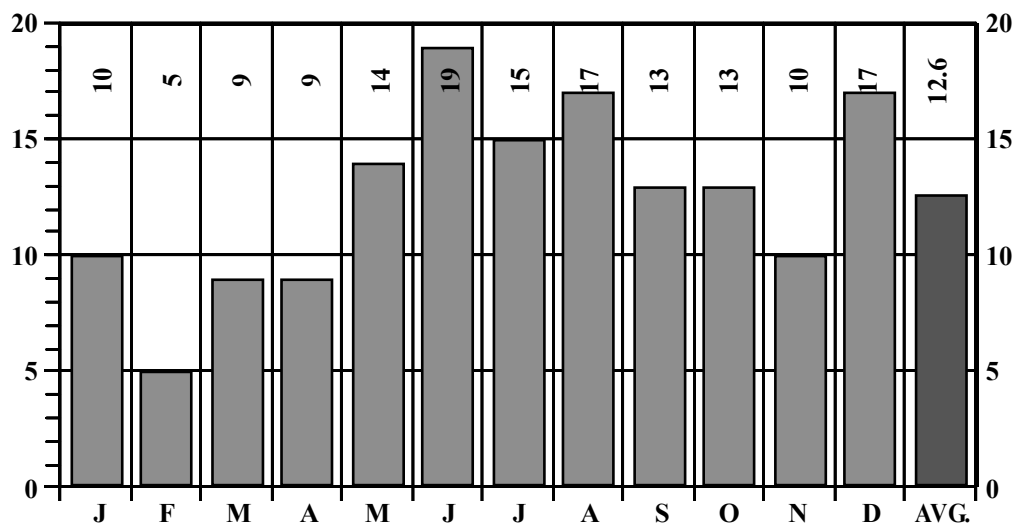
### FOR A PERIOD OF TWELVE YEARS



		NUMBER	PERCENT
SEX	MALE	104	69
	FEMALE	47	31
RACE	WHITE	108	72
	NON-WHITE	43	28
ALCOHOL	TESTED	140	93
	POSITIVE	25	18
AUTOPSY	AUTOPSIED	144	95

## VEHICULAR FATALITIES

### BY MONTH FOR THE YEAR 1998



1998  
TOTAL CASES  
151





# VEHICULAR FATALITIES

## PHARMACOLOGICAL EFFECTS OF ALCOHOL

# VEHICULAR FATALITIES

**FRONTAL LOBE**  
 AFFECTED BY 0.01 - 0.10% ALCOHOL  
 REACTION IS COLORED BY  
 INDIVIDUAL'S PERSONALITY  
 REMOVAL OF INHIBITIONS  
 LOSS OF SELF CONTROL  
 WEAKNESS OF WILL POWER  
 DEVELOPMENT OF EUPHORIA  
 FEELING OF WELL-BEING  
 EXULTATION  
 INCREASED CONFIDENCE  
 EXPANSIVENESS  
 ALTERED JUDGEMENT  
 INCREASED GOOD FELLOWSHIP  
 LOQUACIOUSNESS  
 DULLING OF ATTENTION

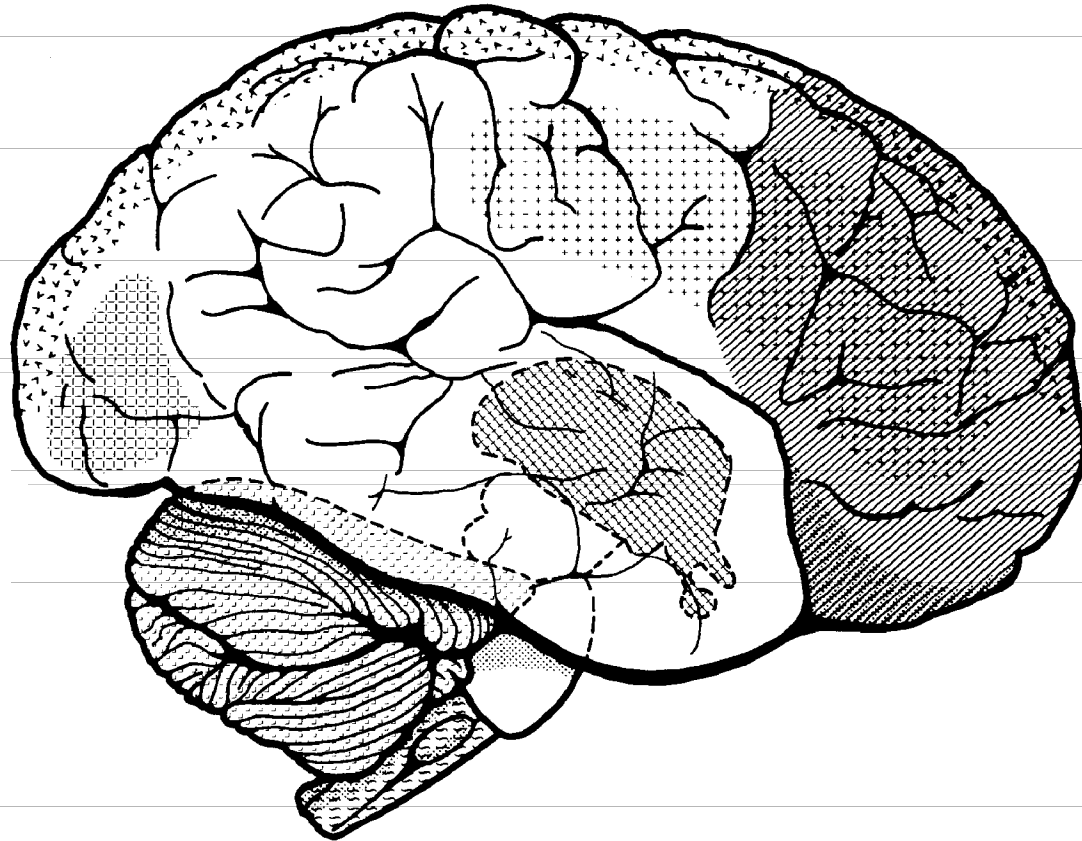
**PSYCHOMOTOR AREAS  
 (CORTEX)**  
 AFFECTED BY 0.10 - 0.20% ALCOHOL  
 APRAXIA                      TREMORS  
 AGRAPHIA                  SLURRED SPEECH  
 ATAXIA                      LOSS OF SKILL

**SOMESTHETO-PSYCHIC AREAS  
 (FRONTAL AND PARIETAL LOBES)**  
 AFFECTED BY 0.10 - 0.30% ALCOHOL  
 DULLED OR DISTORTED SENSIBILITIES

**CEREBELLUM**  
 AFFECTED BY 0.15 - 0.35% ALCOHOL  
 DISTURBANCE OF EQUILIBRIUM

**VISUO-PSYCHIC AREAS  
 (OCCIPITAL LOBE)**  
 AFFECTED BY 0.20 - 0.30% ALCOHOL  
 DISTURBANCE OF:  
 COLOR PERCEPTION                  FORM  
 DIMENSIONS                              MOTION  
 DIPLOPIA                                  DISTANCE

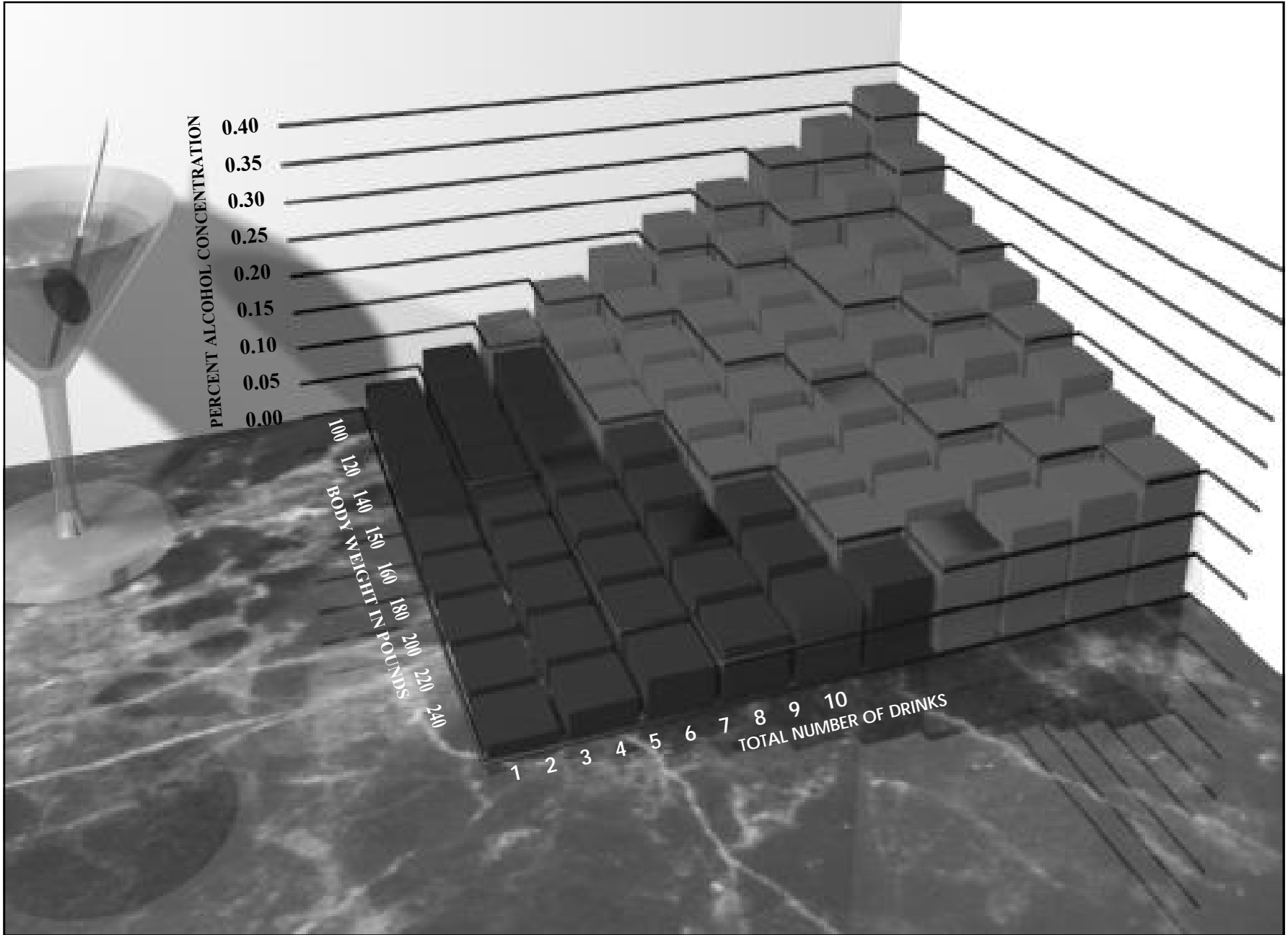
**DIENCEPHALON**  
 AFFECTED BY 0.25 - 0.40% ALCOHOL  
 CESSATION OF AUTOMATIC MOVEMENTS  
 DILATION OF SURFACE CAPILLARIES  
 APATHY                                  SWEATING  
 INERTIA                                      STUPOR  
 TREMORS                                      COMA



**MEDULLA**  
 AFFECTED BY 0.40 - 0.50% ALCOHOL  
 DEPRESSION OF RESPIRATION  
 PERIPHERAL COLLAPSE  
 SUBNORMAL TEMPERATURE  
 DEATH

THE ACTION OF ALCOHOL ON  
 THE BRAIN IS FROM FIRST TO  
 LAST LIKE THAT OF A NARCOTIC  
 DRUG.

### BLOOD ALCOHOL CONCENTRATION BY WEIGHT



# VEHICULAR FATALITIES

## BLOOD ALCOHOL CONCENTRATION BY WEIGHT\*

### APPROXIMATE PERCENT OF ALCOHOL CONCENTRATION IN BLOOD\*\*

BODY WEIGHT IN POUNDS	100	0.038	0.075	0.113	0.150	0.188	0.225	0.263	0.300	0.338	0.375
	120	0.031	0.063	0.094	0.125	0.156	0.188	0.219	0.250	0.281	0.313
	140	0.027	0.054	0.080	0.107	0.134	0.161	0.188	0.214	0.241	0.268
	150	0.025	0.051	0.075	0.101	0.126	0.151	0.176	0.201	0.226	0.251
	160	0.023	0.047	0.070	0.094	0.117	0.141	0.164	0.188	0.211	0.222
	180	0.021	0.042	0.063	0.083	0.104	0.125	0.146	0.167	0.188	0.208
	200	0.019	0.038	0.056	0.075	0.094	0.113	0.131	0.150	0.165	0.188
	220	0.017	0.034	0.051	0.068	0.085	0.102	0.119	0.136	0.153	0.170
	240	0.016	0.031	0.047	0.063	0.078	0.094	0.109	0.125	0.141	0.156
			1	2	3	4	5	6	7	8	9

### TOTAL NUMBER OF DRINKS\*\*\*

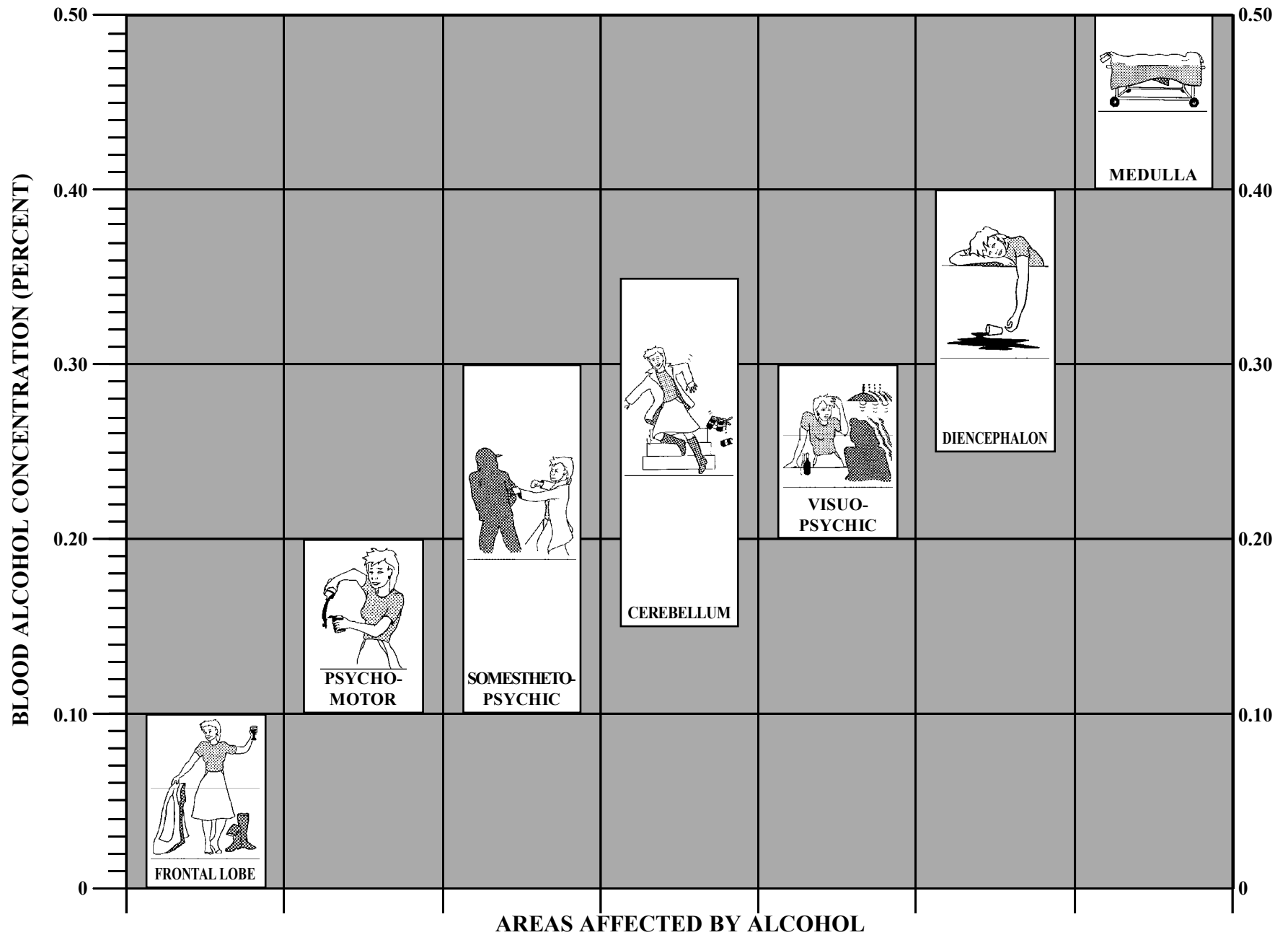
\**Please Note:* This chart represents estimated blood concentrations for the "average" individual. It is **not** meant to be taken as a guide to alcohol consumption.

\*\*If these drinks were not taken within one hour deduct one drink from the total number of drinks for each hour that elapsed between the first and last drink.

\*\*\*A drink is defined as one ounce of 100 proof of "hard liquor" (whiskey, vodka, gin, etc.) or twelve ounces of 4% beer or three ounces of fortified wine.

From: General Manual for Chemical Tests for Intoxication, Ohio Department of Health, Alcohol Testing, Approval and Permit Program, 1969, page 19.

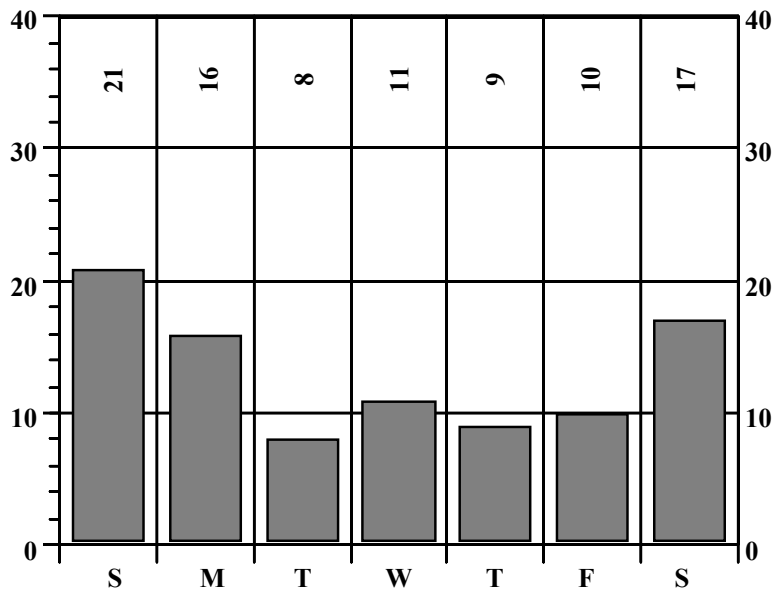
### ALCOHOL EFFECTS ON BRAIN DEMONSTRATED PICTORIALLY



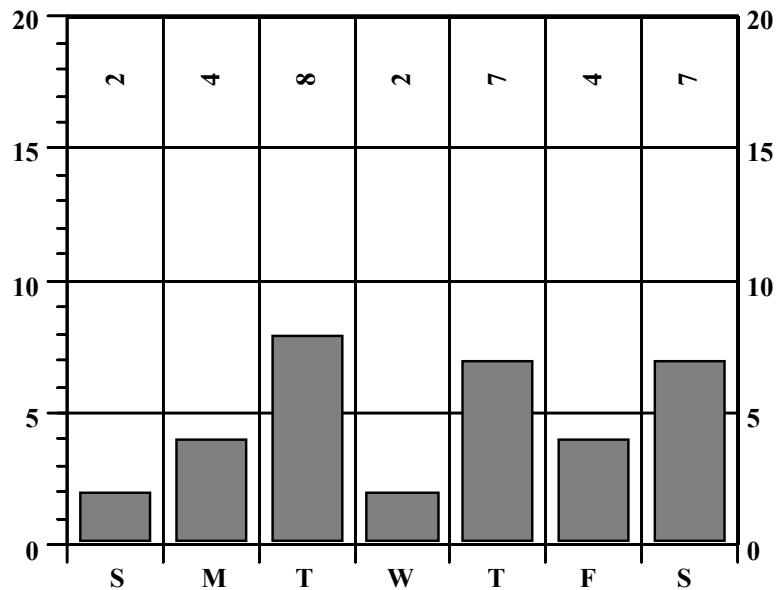
# 1998 VEHICULAR FATALITIES

## DAILY INCIDENCE

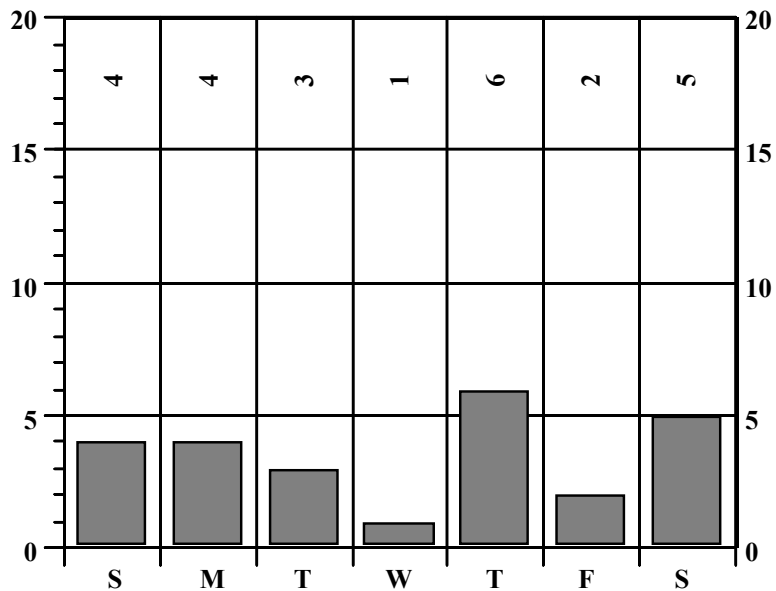
**DRIVERS TOTAL - 92\***



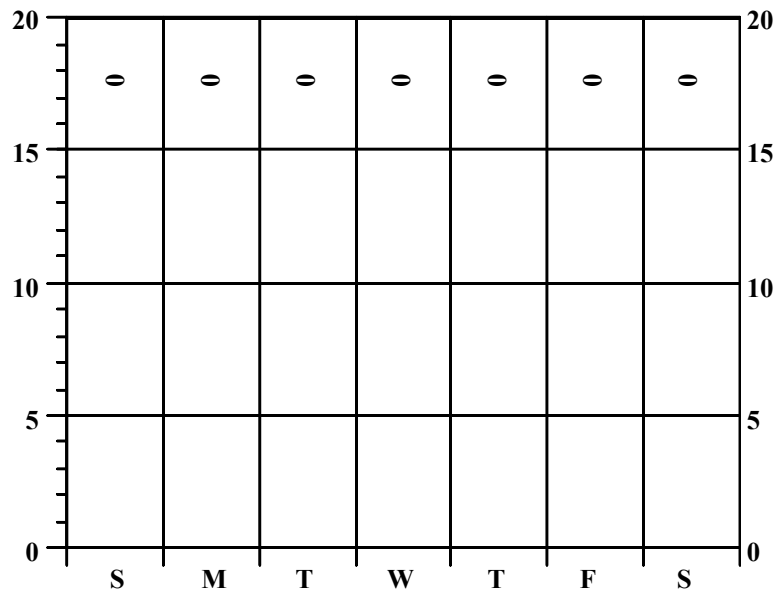
**PASSENGERS TOTAL - 34**



**PEDESTIANS TOTAL - 25**



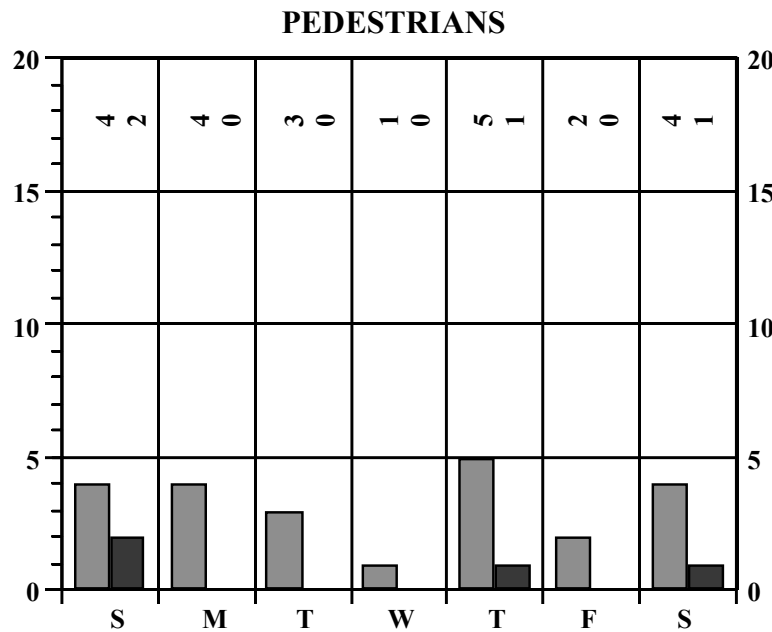
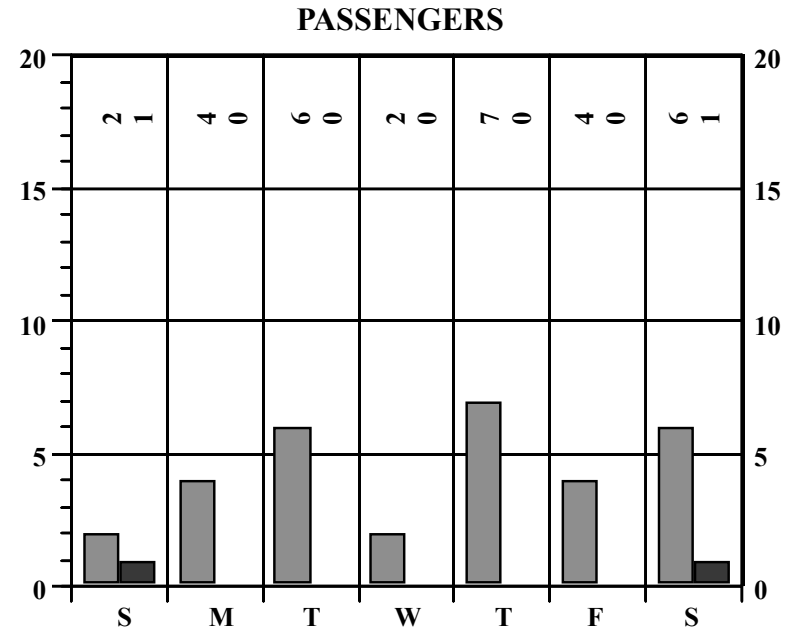
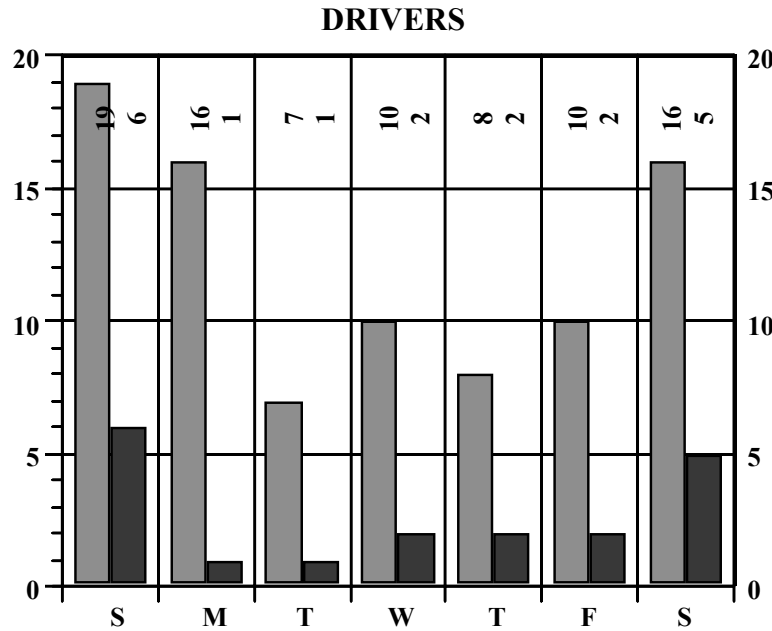
**BICYCLISTS TOTAL - 0**



\*Includes 13 Motorcyclists.

# VEHICULAR FATALITIES

## 1998 VEHICULAR FATALITIES DAILY ALCOHOL INCIDENCE



**TOTAL TESTED**
 **TESTED POSITIVE**

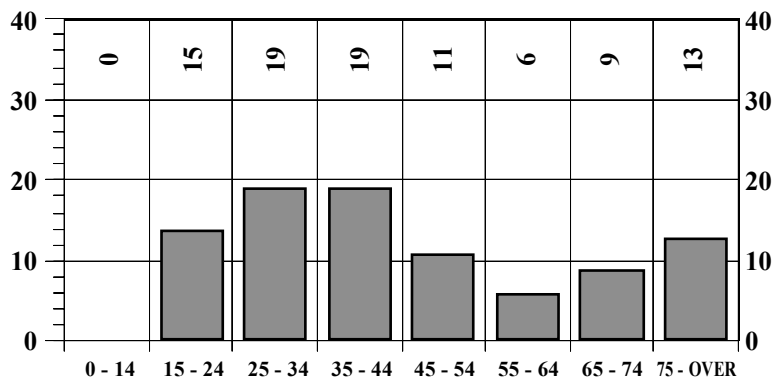
	TESTED	POSITIVE
<b>DRIVERS:</b>	86	19
<b>PASSENGERS:</b>	31	2
<b>PEDESTRIANS:</b>	23	4
<b>TOTAL</b>	<b>140</b>	<b>25</b>

# 1998 VEHICULAR FATALITIES

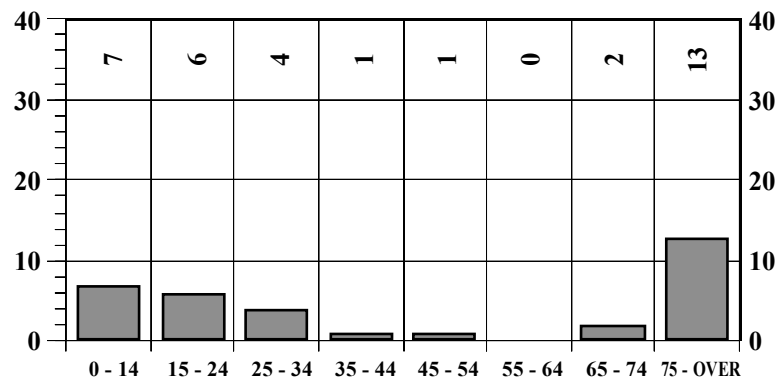
## AGE GROUPS - CLASSIFICATION OF VICTIMS

# VEHICULAR FATALITIES

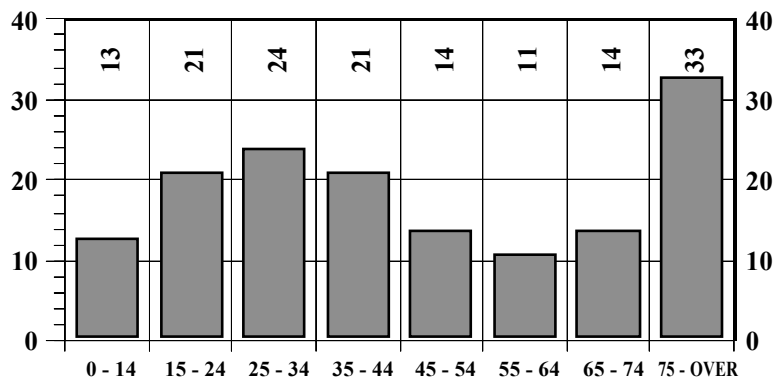
### DRIVERS



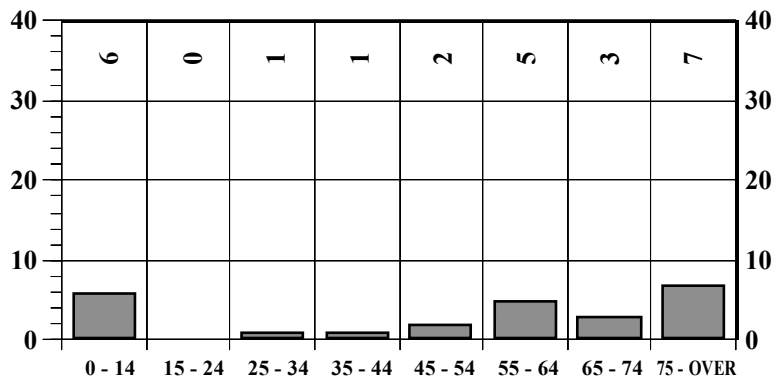
### PASSENGERS



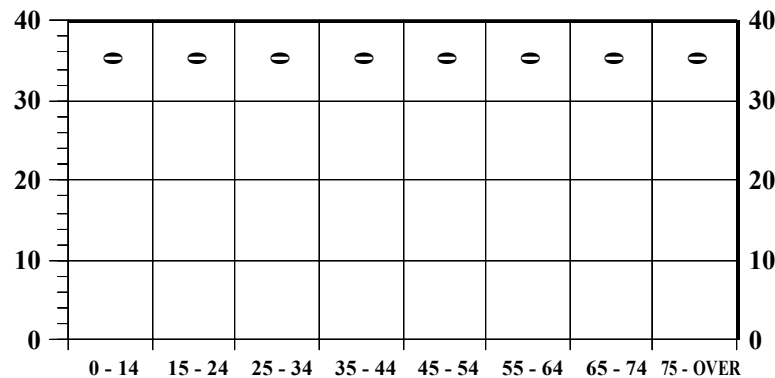
### TOTAL



### PEDESTRIANS



### BICYCLISTS







1998 VEHICULAR FATALITIES

MONTHLY ALCOHOL INCIDENCE

TABLE 34

MONTH	TOTAL											NOT TESTED						TESTED						STAGES											
		Total		Cleve.		County		Out of County		Turn-pike		Total		Surv'd Too Long		Under Age		Other		Total		Neg.		Pos.		0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over			
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
JANUARY	10	6	4	3		3	1		3				2		2					6	2	2	2	4										1	
FEBRUARY	5	4	1	2	1	2							1		1					3	1	3	1												
MARCH	9	7	2	4	1		1	3					1		1					6	2	5	2	1			1								
APRIL	9	7	2	2		3		2	2				1		1					7	1	5	1	2				2							
MAY	14	11	3	4	2	4	1	3												11	3	7	2	4	1		1			1	1	1			1
JUNE	19	10	9	3	2	2	6	5	1				1	1	1	1				9	8	7	8	2			1		1						
JULY	15	10	5	3		6	3	1	2				1		1					10	4	7	4	3				1		1		1			
AUGUST	17	11	6	3	1	3	4	5	1											11	6	10	6	1			1								
SEPTEMBER	13	12	1	4	1	3		4		1			1		1					11	1	8	1	3			2					1			
OCTOBER	13	10	3	3	1	4	2	3					1		1					9	3	8	3	1		1									
NOVEMBER	10	6	4	1			2	4	2	1										6	4	5	4	1			1								
DECEMBER	17	10	7	2	2	5	3	3	2				1				1			10	6	9	5	1	1		1						1		
TOTAL	151	104	47	34	11	35	23	33	13	2			5	6	5	5		1		99	41	76	39	23	2	1	5	5		6	1	2	1	2	2

VEHICULAR FATALITIES

**TABLE 35** **DAILY ALCOHOL INCIDENCE**

DAY	TOTAL	NOT TESTED										TESTED						STAGES													
		Total		Surv'd Too Long		Under Age		Other		Total		Neg.		Pos.		0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over									
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F						
SUNDAY	27	20	7	2		2						18	7	10	6	8	1			4		2		1	1					1	
MONDAY	24	17	7									17	7	16	7	1								1							
TUESDAY	19	10	9	1	2	1	2					9	7	8	7	1								1							
WEDNESDAY	14	9	5	1		1						8	5	6	5	2										1		1			
THURSDAY	22	14	8	1	1	1	1					13	7	10	7	3						2								1	
FRIDAY	16	12	4									12	4	10	4	2								1				1			
SATURDAY	29	22	7		3		2		1			22	4	16	3	6	1	1		1		1		2		1	1				
<b>TOTAL</b>	<b>151</b>	<b>104</b>	<b>47</b>	<b>5</b>	<b>6</b>	<b>5</b>	<b>5</b>	<b>1</b>				<b>99</b>	<b>41</b>	<b>76</b>	<b>39</b>	<b>23</b>	<b>2</b>	<b>1</b>		<b>5</b>		<b>5</b>		<b>6</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>		<b>2</b>	

1998 VEHICULAR FATALITIES

AGE - RACE - ALCOHOL INCIDENCE

TABLE 36

AGE	RACE	TOTAL	NOT TESTED								TESTED			STAGES											
			Total		Surv'd Too Long		Under Age		Other		Total		Neg.	Pos.	0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over				
			M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Under 1 Year	White	1	1									1	1												
	Non-White	2	2									2	2												
1 - 4	White	1	1									1	1												
	Non-White	2	2									2	2												
5 - 9	White	2	1	1								1	1	1	1										
	Non-White	4	3	1		1			1			3	3												
10 - 14	White	1		1									1		1										
	Non-White																								
15 - 19	White	5	3	2								3	2	3	2										
	Non-White	7	6	1								6	1	5	1	1					1				
20 - 24	White	7	7									7		5		2				1	1				
	Non-White	2	1	1								1	1	1	1										
25 - 29	White	12	10	2	1		1					9	2	5	2	4				1	2			1	
	Non-White	5	3	2								3	2		2	3				1	1	1			
30 - 34	White	7	6	1								6	1	3	1	3				1			1	1	
	Non-White																								
35 - 39	White	7	4	3								4	3	1	2	3	1			1			2	1	
	Non-White	5	4	1								4	1	3	1	1					1				
40 - 44	White	6	5	1								5	1	5	1										
	Non-White	3	1	2		1		1				1	1		1	1				1					
45 - 49	White	2	2									2		2											
	Non-White	4	2	2								2	2	2	1		1					1			
50 - 54	White	6	2	4								2	4	2	4										
	Non-White	2	2									2		2											
55 - 59	White	7	6	1								6	1	5	1	1				1					
	Non-White	1	1									1		1											
60 - 64	White	3	3									3			3		1	1	1						
	Non-White																								
65 - 69	White	6	3	3								3	3	3	3										
	Non-White	2		2									2		2										
70 - 74	White	4	3	1	1		1					2	1	1	1	1							1		
	Non-White	2	2									2		2											
75 - 79	White	13	8	5	3	1	3	1				5	4	5	4										
	Non-White	1	1									1		1											
80 - over	White	18	8	10		3		3				8	7	8	7										
	Non-White	1	1									1		1											
TOTAL	White	108	73	35	5	4	5	4				68	31	51	30	17	1	1	4	3	3	2	1	2	2
	Non-White	43	31	12		2		1	1			31	10	25	9	6	1		1	2	3	1			
GRAND TOTAL		151	104	47	5	6	5	5	1			99	41	76	39	23	2	1	5	5	6	1	2	1	2

VEHICULAR FATALITIES

TABLE 37

TYPE OF ACCIDENT - ALCOHOL INCIDENCE

TYPE	TOTAL											NOT TESTED				TESTED			STAGES																																				
		Total		Cleve.		County		Out of County		Turn-pike		Total		Surv'd Too Long		Under Age		Other		Total		Neg.		Pos.		0.01% 0.04%		0.05% 0.09%		0.10% 0.14%		0.15% 0.19%		0.20% 0.24%		0.25% 0.29%		0.30% or over																	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F																
<b><u>NON-TRAFFIC:</u></b>																																																							
Collision	5	3	2	2		1	1		1				1	1							3	1	3	1																															
Non-collision	1	1						1													1		1																																
<b>TOTAL</b>	<b>6</b>	<b>4</b>	<b>2</b>	<b>2</b>		<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>				<b>1</b>	<b>1</b>							<b>4</b>	<b>1</b>	<b>4</b>	<b>1</b>																															
<b><u>TRAFFIC:</u></b>																																																							
Collision	141	97	44	32	11	33	21	30	12	2			4	4	4	3		1			93	40	71	38	22	2	1		5		5		6	1	1	1	2																		
Non-collision	4	3	1			1	1	2					1	1	1	1					2		1		1																														
<b>TOTAL</b>	<b>145</b>	<b>100</b>	<b>45</b>	<b>32</b>	<b>11</b>	<b>34</b>	<b>22</b>	<b>32</b>	<b>12</b>	<b>2</b>			<b>5</b>	<b>5</b>	<b>5</b>	<b>4</b>		<b>1</b>		<b>95</b>	<b>40</b>	<b>72</b>	<b>38</b>	<b>23</b>	<b>2</b>	<b>1</b>		<b>5</b>		<b>5</b>		<b>6</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>																			
<b><u>TOTALS:</u></b>																																																							
Non-traffic	6	4	2	2		1	1	1	1				1	1	1						4	1	4	1																															
Traffic	145	100	45	32	11	34	22	32	12	2			5	5	5	4		1			95	40	72	38	23	2	1		5		5		6	1	2	1	2																		
<b>TOTAL</b>	<b>151</b>	<b>104</b>	<b>47</b>	<b>34</b>	<b>11</b>	<b>35</b>	<b>23</b>	<b>33</b>	<b>13</b>	<b>2</b>			<b>5</b>	<b>6</b>	<b>5</b>	<b>5</b>		<b>1</b>		<b>99</b>	<b>41</b>	<b>76</b>	<b>39</b>	<b>23</b>	<b>2</b>	<b>1</b>		<b>5</b>		<b>5</b>		<b>6</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>																			

1998 VEHICULAR FATALITIES

NON-TRAFFIC ALCOHOL INCIDENCE

TABLE 38

TYPE	TOTAL	NOT TESTED										TESTED			STAGES											
		Total		Cleve.		County		Out of County		Turn-pike		Total	Surv'd Too Long	Under Age	Other	Total	Neg.	Pos.	0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M
AUTO-PEDESTRIAN	4	2	2	1		1	1		1				1	1												
TRUCK-PEDESTRIAN	1	1		1											1		1									
AUTO ACCIDENT Passenger	1	1					1								1		1									
TOTAL	6	4	2	2		1	1	1	1				1	1												

VEHICULAR FATALITIES

### TABLE 39

### TRAFFIC - COLLISION - ALCOHOL INCIDENCE

TYPE	TOTAL											NOT TESTED				TESTED			STAGES											
		Total		Cleve.		County		Out of County		Turn-pike		Total	Surv'd Too Long		Under Age		Other	Total	Neg.		Pos.	0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over		
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M
<b>PEDESTRIAN</b>																														
Auto	14	9	5	5	1	2	4	2									9	5	6	5	3	1	2							
Bus	1		1				1										1	1												
Truck	5	2	3	1	1	1	1		1			1			1		2	2	1	2	1				1					
<b>AUTO - AUTO</b>																														
Driver	12	7	5	3	1	3	1	1	3	1	1	1	1			6	4	5	3	1	1		1				1			
Passenger	13	5	8	3	2	1	5	1	1							5	8	5	8											
<b>AUTO - FIXED OBJECT</b>																														
Driver	44	35	9	13	4	12	2	9	3	1	1	1	1	1		34	8	26	7	8	1				2		4		1	2
Passenger	9	7	2	1		2	2	4								7	2	5	2	2				2						
<b>AUTO - MOTORCYCLE</b>																														
Motorcyclist	6	5	1	2	1	1		2								5	1	3	1	2		1				1				
Driver	1	1					1									1	1													
<b>AUTO - TRUCK</b>																														
Driver	16	11	5	1	1	2	3	7	1	1	1		1			10	5	9	5	1		1								
Passenger	8	3	5			3	2		3			1		1		3	4	3	4											
<b>MOTORCYCLE - FIXED OBJECT</b>																														
Motorcyclist	4	4		1		3										4		2		2					2					
<b>TRUCK - FIXED OBJECT</b>																														
Driver	5	5		2		1		2								5		3		2									2	
Passenger	1	1				1									1		1													
<b>TRUCK-MOTORCYCLE</b>																														
Motorcyclist	1	1					1									1		1												
<b>TRUCK - TRUCK</b>																														
Passenger	1	1					1									1		1												
<b>TOTAL</b>	<b>141</b>	<b>97</b>	<b>44</b>	<b>32</b>	<b>11</b>	<b>33</b>	<b>21</b>	<b>30</b>	<b>12</b>	<b>2</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>3</b>	<b>1</b>	<b>93</b>	<b>40</b>	<b>71</b>	<b>38</b>	<b>22</b>	<b>2</b>	<b>1</b>	<b>5</b>	<b>5</b>	<b>6</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>

1998 VEHICULAR FATALITIES

TRAFFIC - COLLISION - ALCOHOL INCIDENCE (ALL DRIVERS)

TABLE 39A

TYPE	TOTAL	NOT TESTED										TESTED			STAGES											
		Total		Cleve.		County		Out of County		Turn-pike		Total	Surv'd Too Long	Under Age	Other	Total	Neg.	Pos.	0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M
<b>AUTO - AUTO</b>																										
Driver	12	7	5	3	1	3	1	1	3																	
<b>AUTO - FIXED OBJECT</b>																										
Driver	44	35	9	13	4	12	2	9	3	1																
<b>AUTO - MOTORCYCLE</b>																										
Motorcyclist	6	5	1	2	1	1		2																		
<b>AUTO-MOTORCYCLE</b>																										
Driver	1	1						1																		
<b>AUTO - TRUCK</b>																										
Driver	16	11	5	1	1	2	3	7	1	1																
<b>MOTORCYCLE - FIXED OBJECT</b>																										
Motorcyclist	4	4		1		3																				
<b>TRUCK - FIXED OBJECT</b>																										
Driver	5	5		2		1		2																		
<b>TRUCK - MOTORCYCLE</b>																										
Motorcyclist	1	1						1																		
<b>TOTAL</b>	<b>89</b>	<b>69</b>	<b>20</b>	<b>22</b>	<b>7</b>	<b>22</b>	<b>6</b>	<b>23</b>	<b>7</b>	<b>2</b>																

VEHICULAR FATALITIES

**TABLE 39B TRAFFIC - COLLISION - ALCOHOL INCIDENCE (PEDESTRIANS)**

TYPE	TOTAL											NOT TESTED				TESTED			STAGES							
		Total		Cleve.		County		Out of County		Turn-pike		Total	Surv'd Too Long	Under Age	Other	Total	Neg.	Pos.	0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M
<u>PEDESTRIAN:</u>																										
AUTO	14	9	5	5	1	2	4	2							9	5	6	5	3	1	2					
BUS	1		1				1								1		1									
TRUCK	5	2	3	1	1	1	1		1				1		2	2	1	2	1				1			
TOTAL	20	11	9	6	2	3	6	2	1				1		11	8	7	8	4	1	2		1			

VEHICULAR FATALITIES

**TABLE 39C TRAFFIC - COLLISION - ALCOHOL INCIDENCE (PASSENGERS)**

TYPE	TOTAL											NOT TESTED				TESTED			STAGES							
		Total		Cleve.		County		Out of County		Turn-pike		Total	Surv'd Too Long	Under Age	Other	Total	Neg.	Pos.	0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M
<u>PASSENGER:</u>																										
AUTO - AUTO	13	5	8	3	2	1	5	1	1						5	8	5	8								
AUTO - FIXED OBJECT	9	7	2	1		2	2	4							7	2	5	2	2				2			
AUTO - TRUCK	8	3	5			3	2		3			1	1		3	4	3	4								
TRUCK-FIXED OBJECT	1	1			1							1	1													
TRUCK-TRUCK	1	1			1										1		1									
TOTAL	32	17	15	4	2	8	9	5	4			1	1	1	1									2		







1998 VEHICULAR FATALITIES

ROAD CONDITIONS - ALCOHOL INCIDENCE

TABLE 43

ROAD	TOTAL	NOT TESTED										TESTED			STAGES																				
		Total		Cleve.		County		Out of County		Turn-pike		Total	Surv'd Too Long	Under Age	Other	Total	Neg.	Pos.	0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over										
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F								
DRY	121	82	39	23	8	29	22	28	9	2		4	3	4	2		1		78	36	60	35	18	1		5	4	4	1	2		2		1	
ICE	2	1	1	1					1										1	1		1	1												
WET	25	18	7	10	3	5	1	3	3				3		3				18	4	14	3	4	1	1			1				1			1
UNKNOWN	3	3				1		2				1		1					2		2														
TOTAL	151	104	47	34	11	35	23	33	13	2		5	6	5	5		1		99	41	76	39	23	2	1		5	5	6	1	2	1	2		2

VEHICULAR FATALITIES

LIGHT CONDITIONS - ALCOHOL INCIDENCE

TABLE 44

LIGHT	TOTAL	NOT TESTED										TESTED			STAGES																				
		Total		Cleve.		County		Out of County		Turn-pike		Total	Surv'd Too Long	Under Age	Other	Total	Neg.	Pos.	0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over										
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F								
DAY	88	55	33	16	6	18	18	20	9	1		3	4	3	4			52	29	46	28	6	1	1		1	1	1			1	2		1	
DAWN	1	1						1											1		1														
DUSK	6	5	1	1		1		3	1										5	1	5	1													
NIGHT WITH STREET LIGHTS	37	28	9	15	5	10	3	3	1			1	1	1	1				27	8	17	7	10	1			2		3		4			1	
NIGHT WITHOUT STREET LIGHTS	16	12	4	2		5	2	4	2	1			1				1		12	3	5	3	7				2		1		2			1	1
UNKNOWN	3	3				1		2				1		1					2		2														
TOTAL	151	104	47	34	11	35	23	33	13	2		5	6	5	5		1		99	41	76	39	23	2	1		5	5	6	1	2	1	2		2

### TABLE 45

### CLASSIFICATION OF VICTIMS - AGE GROUPS

CLASSIFICATION	Under 1 Year		1-4		5-9		10-14		15-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80 and Over		TOTAL		GRAND TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
BICYCLIST																																								0
DRIVER									7	2	4	1	8	2	5		3	4	4	1	3	1	3	3	5	1			2	3	4		7	1	5		60	19	79	
MOTORCYCLE DRIVER									1				3		1		4		2	1	1																	12	1	13
PASSENGER	3		1		1	1		1	1	1	4		2	1		1	1					1								1		1	2	2	3	6	18	16	34	
PEDESTRIAN			2		3	1							1						1			1	1	2		3		1	1	1			2	1	4	14	11	25		
MOTORCYCLE PASSENGER																																							0	
<b>TOTAL</b>	<b>3</b>		<b>3</b>		<b>4</b>	<b>2</b>		<b>1</b>	<b>9</b>	<b>3</b>	<b>8</b>	<b>1</b>	<b>13</b>	<b>4</b>	<b>6</b>	<b>1</b>	<b>8</b>	<b>4</b>	<b>6</b>	<b>3</b>	<b>4</b>	<b>2</b>	<b>4</b>	<b>4</b>	<b>7</b>	<b>1</b>	<b>3</b>		<b>3</b>	<b>5</b>	<b>5</b>	<b>1</b>	<b>9</b>	<b>5</b>	<b>9</b>	<b>10</b>	<b>104</b>	<b>47</b>	<b>151</b>	

### VEHICULAR FATALITIES MONTH AND AGE GROUPS

### TABLE 46

MONTH	Under 1 Year		1-4		5-9		10-14		15-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80 and Over		TOTAL		GRAND TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
JANUARY												2		1	1			2																		1	2	6	4	10
FEBRUARY							1		1														1															4	1	5
MARCH											1		1							1			1	2												2	1	7	2	9
APRIL					1				2		2		1										1	1													1	7	2	9
MAY	1		1		1				1				5	1			1				1	1															1	11	3	14
JUNE			1		1				1	1		1	2				2			1				1					1				2	2		3	10	9	19	
JULY	1								1	1						2			2				1			1					3			1	2		10	5	15	
AUGUST									1		2		1		1			2	1				2	1		1		1		1		1	2			1	11	6	17	
SEPTEMBER			1								1				1		1				2	1			1		1		1				2		1		12	1	13	
OCTOBER	1				1				1					1					2					1		1		1		1	1			1	1	1		10	3	13
NOVEMBER						1		1	1	1				1	1			1		1							1								1		6	4	10	
DECEMBER						1					2			1	2		1	2						2						1	1		1	1	1	1	1	10	7	17
<b>TOTAL</b>	<b>3</b>		<b>3</b>		<b>4</b>	<b>2</b>		<b>1</b>	<b>9</b>	<b>3</b>	<b>8</b>	<b>1</b>	<b>13</b>	<b>4</b>	<b>6</b>	<b>1</b>	<b>8</b>	<b>4</b>	<b>6</b>	<b>3</b>	<b>4</b>	<b>2</b>	<b>4</b>	<b>4</b>	<b>7</b>	<b>1</b>	<b>3</b>		<b>3</b>	<b>5</b>	<b>5</b>	<b>1</b>	<b>9</b>	<b>5</b>	<b>9</b>	<b>10</b>	<b>104</b>	<b>47</b>	<b>151</b>	

**AUTOPSIES - 1998 VEHICULAR FATALITIES**

**MONTH AND AGE GROUPS**

**TABLE 47**

MONTH	Under 1 Year		1-4		5-9		10-14		15-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80 and Over		TOTAL		GRAND TOTAL
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
JANUARY													2		1	1			2															1		6	1	7	
FEBRUARY									1		1																								2	2	4		
MARCH															1						1		1						1		1	1	7	1	8				
APRIL						1			1		1		1										2	1											5	2	7		
MAY	1		1		1				2		1		3	1			1				1	1										1	2	12	4	16			
JUNE			1		1				1	1		1	3			1			1					1				1		1	1	3	9	8	17				
JULY	1								1	1						3		1				1						2		1	1	2	1	11	4	15			
AUGUST									1		1		1		1			2	1	1			2	1	1	1		1		1	1		1	9	8	17			
SEPTEMBER			1								2				1						1		1		1				3		1		11	1	12				
OCTOBER	1				1				1				1					2		2					1					1			8	3	11				
NOVEMBER						1			1	1					1								1			1		1		1		1		8	3	11			
DECEMBER						1					2				1	2		1	2	1			2					1	1		1	1	2	1	12	7	19		
<b>TOTAL</b>	<b>3</b>		<b>3</b>		<b>4</b>	<b>2</b>			<b>9</b>	<b>3</b>	<b>8</b>	<b>1</b>	<b>11</b>	<b>4</b>	<b>6</b>	<b>1</b>	<b>7</b>	<b>4</b>	<b>6</b>	<b>3</b>	<b>4</b>	<b>2</b>	<b>4</b>	<b>4</b>	<b>7</b>	<b>1</b>	<b>3</b>		<b>3</b>	<b>5</b>	<b>5</b>	<b>1</b>	<b>8</b>	<b>4</b>	<b>9</b>	<b>9</b>	<b>100</b>	<b>44</b>	<b>144</b>

**VEHICULAR FATALITIES**

### TABLE 48

### MAJOR INJURY AND SURVIVAL INTERVAL

D.O.A. - Dead on arrival.  
\*Includes 13 motorcyclists.

	BICYCLIST				DRIVER*				PASSENGER				PEDESTRIAN				TOTAL											
	TOTAL	D.O.A. AT HOSPITAL LESS THAN 12 HOURS	12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE	TOTAL	D.O.A. AT HOSPITAL LESS THAN 12 HOURS	12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE	TOTAL	D.O.A. AT HOSPITAL LESS THAN 12 HOURS	12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE	TOTAL	D.O.A. AT HOSPITAL LESS THAN 12 HOURS	12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE								
<b>MAJOR INJURY</b>																												
To Brain:																												
With Fracture of Skull Only					8		3		4	1	12		4		4	4	3			23	10	8	5					
With Fracture of Skull and Body Fractures					1		1													1	1							
Without Fracture of Skull																												
TOTAL					9		4		4	1	12		4		4	4	3			24	11	8	5					
To Spinal Cord:																												
With Fracture of Vertebra																												
TOTAL																												
To Chest																												
With Fracture of Thoracic Cage										1	1									1	1							
Without Fracture of Thoracic Cage																												
TOTAL										1	1									1	1							
To Extremities:																												
TOTAL					2				2	1				1	1				1	4			4					
Multiple Injuries:																												
To Head and Trunk					20	3	12		2	3	1		1		3	1	1		1	24	4	14	3	3				
To Head, Trunk and Extremities					47	16	23		3	5	12	3	5		4	17	2	13	2	76	21	41	5	9				
To Trunk					7		4		1	2	5		2		1	2				12	6		2	4				
To Trunk and Extremities					5		2	1	1	1	1	1			1	1			7	2	2	1	1	1				
TOTAL					79	19	41	1	7	11	19	4	8		1	6	21	4	14	3	119	27	63	1	11	17		
Miscellaneous Injuries																												
TOTAL					2	1	1				1		1						3	1	2							
<b>GRAND TOTAL</b>	<b>0</b>				<b>92</b>	<b>20</b>	<b>46</b>	<b>1</b>	<b>11</b>	<b>14</b>	<b>34</b>	<b>5</b>	<b>13</b>		<b>5</b>	<b>11</b>	<b>25</b>	<b>4</b>	<b>17</b>		<b>3</b>	<b>1</b>	<b>151</b>	<b>29</b>	<b>76</b>	<b>1</b>	<b>19</b>	<b>26</b>

*MAJOR INJURY* signifies most severe injury to which death is attributed and is not to be construed as the only injury.

*MULTIPLE INJURY* signifies those cases in which injury to chest and abdomen or to trunk and extremities was so severe that no one injury could be assigned as the cause of death.

*MISCELLANEOUS INJURY* signifies burns, carbon monoxide, intoxication, drowning and traumatic asphyxia.

1998 VEHICULAR FATALITIES

MAJOR INJURY AND SURVIVAL INTERVAL - AGE GROUPS (BICYCLIST - DRIVER - PASSENGER - PEDESTRIAN) TABLE 49

AGE	BRAIN				SPINAL CORD			CHEST			ABDOMEN			EXTREMITIES			MULTIPLE INJURIES			MISCELLANEOUS			TOTAL							
	TOTAL	D.O.A. AT HOSPITAL LESS THAN 12 HOURS	12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE	TOTAL	D.O.A. AT HOSPITAL LESS THAN 12 HOURS	12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE	TOTAL	D.O.A. AT HOSPITAL LESS THAN 12 HOURS	12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE	TOTAL	D.O.A. AT HOSPITAL LESS THAN 12 HOURS	12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE	TOTAL	D.O.A. AT HOSPITAL LESS THAN 12 HOURS	12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE	TOTAL	D.O.A. AT HOSPITAL LESS THAN 12 HOURS	12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE
UNDER 1 YEAR	3	2	1																		3	2	1							
1 - 4	1		1																			3	2	1						
5 - 9															2	2						6	1	3		2				
10 - 14															1	1						1	1							
15 - 19	2	1	1												9	3	5		1	1	1	12	4	6		1	1			
20 - 24	3	1	1	1											6	2	3		1			9	2	4		2	1			
25 - 29	3	1	1	1		1	1								13	2	8		1	2		17	3	9		2	3			
30 - 34	2	2													4	1	3			1	1	7	1	6						
35 - 39	1			1											10	7	2		1		1	12	7	3		1	1			
40 - 44	2	2													7	1	4			2		9	1	6						
45 - 49	1		1												5	4			1			6	4		1	1				
50 - 54	1	1													7	2	3	1		1		8	2	4		1	1			
55 - 59															8	2	4		1	1		8	2	4		1	1			
60 - 64	1	1													2	1	1					3	1	2						
65 - 69															8	1	7					8	1	7						
70 - 74															6	1	3			2		6	1	3						
75 - 79	1		1											2	11	1	3		3	4		14	1	3		4	6			
80 - OVER	3		1	2										2	2	14	2	7		3		19	2	7		3	7			
TOTAL	24	11	8	5		1	1							4	4	119	27	63	1	11	17	3	1	2		15	1	2		

VEHICULAR FATALITIES





1998 VEHICULAR FATALITIES

MAJOR INJURY AND SURVIVAL INTERVAL - AGE GROUPS (PASSENGER)

TABLE 51

AGE	BRAIN				SPINAL CORD			CHEST			ABDOMEN			EXTREMITIES			MULTIPLE INJURIES			MISCELLANEOUS			TOTAL							
	TOTAL	D.O.A. AT HOSPITAL LESS THAN 12 HOURS	12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE	TOTAL	D.O.A. AT HOSPITAL LESS THAN 12 HOURS	12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE	TOTAL	D.O.A. AT HOSPITAL LESS THAN 12 HOURS	12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE	TOTAL	D.O.A. AT HOSPITAL LESS THAN 12 HOURS	12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE	TOTAL	D.O.A. AT HOSPITAL LESS THAN 12 HOURS	12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE	TOTAL	D.O.A. AT HOSPITAL LESS THAN 12 HOURS	12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE
UNDER 1 YEAR	3	2	1																							3	2	1		
1 - 4	1		1																							1		1		
5 - 9																2	1	1								2	1	1		
10 - 14																1	1									1	1			
15 - 19																2	1			1						2	1		1	
20 - 24	3	1	1	1											1	1									4	2	1	1		
25 - 29	1			1		1	1								1	1									3	1	1		1	
30 - 34	1	1																							1	1				
35 - 39																				1	1					1	1			
40 - 44																														
45 - 49																1	1									1	1			
50 - 54																														
55 - 59																														
60 - 64																														
65 - 69																1	1									1	1			
70 - 74																1	1									1	1			
75 - 79	1		1													3			1	2					4			2	2	
80 - OVER	2			2										1	1	6	1	2		3					9	1	2		6	
TOTAL	12	4	4	4		1	1							1	19	4	8		1	6	1	1			34	5	13		5	11

VEHICULAR FATALITIES



1998 VEHICULAR FATALITIES

MAJOR INJURY AND SURVIVAL INTERVAL - AGE GROUPS (BICYCLIST)

TABLE 53

AGE	BRAIN				SPINAL CORD				CHEST				ABDOMEN				EXTREMITIES				MULTIPLE INJURIES				MISCELLANEOUS				TOTAL											
	TOTAL	D.O.A. AT HOSPITAL LESS THAN 12 HOURS	12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE	TOTAL	D.O.A. AT HOSPITAL LESS THAN 12 HOURS	12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE	TOTAL	D.O.A. AT HOSPITAL LESS THAN 12 HOURS	12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE	TOTAL	D.O.A. AT HOSPITAL LESS THAN 12 HOURS	12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE	TOTAL	D.O.A. AT HOSPITAL LESS THAN 12 HOURS	12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE	TOTAL	D.O.A. AT HOSPITAL LESS THAN 12 HOURS	12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE	TOTAL	D.O.A. AT HOSPITAL LESS THAN 12 HOURS	12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE					
UNDER 1 YEAR																																								
1 - 4																																								
5 - 9																																								
10 - 14																																								
15 - 19																																								
20 - 24																																								
25 - 29																																								
30 - 34																																								
35 - 39																																								
40 - 44																																								
45 - 49																																								
50 - 54																																								
55 - 59																																								
60 - 64																																								
65 - 69																																								
70 - 74																																								
75 - 79																																								
80 - OVER																																								
TOTAL																																								0

VEHICULAR FATALITIES

**TABLE 54 GEOGRAPHICAL LOCATION - TYPE OF ACCIDENT - CLASSIFICATION OF VICTIMS**

CITIES	MTC <sup>1</sup> - Motorcycle														GRAND TOTAL										
	AUTO						BUS		MTC <sup>1</sup>		TRUCK			TOTALS			GRAND TOTAL								
	AUTO	BICYCLE	FIXED OBJECT	MOTORCYCLE	NON-COLLISION	PEDESTRIAN	TRUCK	BICYCLE	PEDESTRIAN	FIXED OBJECT	NON-COLLISION	FIXED OBJECT	PEDESTRIAN	TRUCK	DRIVER	PASSENGER		PEDESTRIAN							
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
<b>CLEVELAND</b>																									
Driver	3	1		13	4										2					19	6			25	
Motorcyclist						2	1									1				3	1			4	
Passenger	3	2		1																		4	2	6	
Pedestrian								6	1									2	1				8	2	10
<b>BEDFORD HEIGHTS</b>																									
Driver																						1			1
<b>BEREA</b>																									
Driver				1																	1				1
<b>BRECKSVILLE</b>																									
Driver				1																		1			1
<b>BROADVIEW HEIGHTS</b>																									
Pedestrian									2														2		2
<b>BROOK PARK</b>																									
Motorcyclist																1						1			1
<b>BROOKLYN</b>																									
Driver	1																					1			1
<b>CLEVELAND HEIGHTS</b>																									
Pedestrian																			1					1	1
<b>EAST CLEVELAND</b>																									
Pedestrian									1														1		1
<b>EUCLID</b>																									
Driver	1			1																		2			2
Passenger	1	1			1																		1	2	3
<b>FAIRVIEW PARK</b>																									
Pedestrian									1															1	1
<b>GARFIELD HEIGHTS</b>																									
Driver				1																		1			1
<b>INDEPENDENCE</b>																									
Driver																						1			1
<b>LAKESWOOD</b>																									
Passenger				1																			1	1	2
<b>SUBTOTAL</b>	9	4		19	5	2	1		9	2	2	3			2			2	2	2					64

1998 VEHICULAR FATALITIES

GEOGRAPHICAL LOCATION - TYPE OF ACCIDENT - CLASSIFICATION OF VICTIMS

TABLE 54 (continued)

CITIES	AUTO						BUS		MTC <sup>1</sup>		TRUCK			TOTALS			GRAND TOTAL						
	AUTO		BICYCLE		FIXED OBJECT		MOTORCYCLE		NON-COLLISION		PEDESTRIAN		TRUCK		DRIVER			PASSENGER		PEDESTRIAN			
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		M	F	M	F	M	F
MAYFIELD HEIGHTS Driver					1												1						1
Motorcyclist						1											1						1
MIDDLEBURG HEIGHTS Passenger																			1				1
NORTH OLMSTED Passenger		1																	1				1
North Royalton Pedestrian																1					1	1	2
Driver	1	1																					2
Motorcyclist													1										1
Passenger																					1		1
PARMA Driver					2																		2
Motorcyclist													1										1
Passenger																1					1	1	2
PARMA HEIGHTS Pedestrian																							1
ROCKY RIVER Driver																							1
SHAKER HEIGHTS Passenger		1																					1
SOLON Motorcyclist																							1
Pedestrian																							1
SOUTH EUCLID Driver						1																	2
STRONGSVILLE Driver																							2
Passenger																							1
Pedestrian																							1
WESTLAKE Pedestrian																							1
<b>SUB TOTAL</b>	<b>1</b>	<b>3</b>			<b>4</b>	<b>1</b>	<b>1</b>			<b>1</b>	<b>4</b>	<b>3</b>	<b>3</b>					<b>1</b>			<b>4</b>	<b>3</b>	<b>27</b>
<b>TOTAL</b>	<b>10</b>	<b>7</b>			<b>23</b>	<b>6</b>	<b>3</b>	<b>1</b>		<b>1</b>	<b>9</b>	<b>6</b>	<b>5</b>	<b>6</b>					<b>1</b>		<b>1</b>	<b>5</b>	<b>91</b>

VEHICULAR FATALITIES

**TABLE 55 GEOGRAPHICAL LOCATION - TYPE OF ACCIDENT - CLASSIFICATION OF VICTIMS**

VILLAGES, TOWNSHIPS AND TURNPIKE	AUTO		TRUCK				TOTALS								GRAND TOTAL		
	AUTO		FIXED OBJECT		AUTO		FIXED OBJECT		DRIVER		PASSENGER		PEDESTRIAN			BICYCLIST	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F		M	F
<u>VILLAGES:</u>																	
BRATENAHL																	
Driver			2						2								2
Passenger			1	1							1	1					2
GATES MILLS																	
Passenger		1									1						1
MORELAND HILLS																	
Driver				1					1								1
OAKWOOD																	
Passenger	1										1						1
ORANGE																	
Driver			1						1								1
VALLEY VIEW																	
Passenger		1									1						1
WALTON HILLS																	
Driver							1		1								1
<u>TOWNSHIP:</u>																	
OLMSTED																	
Driver							1		1								1
Passenger					1						1						1
TURNPIKE																	
Driver			1		1				2								2
<b>TOTAL</b>	<b>1</b>	<b>2</b>	<b>5</b>	<b>2</b>	<b>2</b>		<b>2</b>		<b>7</b>	<b>1</b>	<b>3</b>	<b>3</b>					<b>14</b>

MTC<sup>1</sup> -Motorcycle  
N.C.<sup>2</sup> - Non-Collision

OUT OF COUNTY	AUTO					MTC <sup>1</sup>		TRUCK					N.C. <sup>2</sup>		TOTALS				GRAND TOTAL					
	AUTO		FIXED OBJECT		MOTORCYCLE		PEDESTRIAN		TRUCK		FIXED OBJECT		MOTORCYCLE		DRIVER		PASSENGER			PEDESTRIAN		BICYCLIST		
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		M	F	M	F	M
Bicyclist																								0
Driver	1	3	9	3	1					7	1					2								28
Motorcyclist					2							1												4
Passenger	1	1	4													1				6	4			10
Pedestrian							2	1													2	2		4
TOTAL	2	4	13	3	3		2	1		7	4				2				6	4	2	2		46

**TABLE 57**
**HOURLY - DAILY - ALCOHOL INCIDENCE (ALL CASES)**

HOURS OF THE DAY	SUNDAY			MONDAY			TUESDAY			WEDNESDAY			THURSDAY			FRIDAY			SATURDAY			TOTALS			GRAND TOTAL																			
	TOTAL		TESTED	POSITIVE		TOTAL		TESTED	POSITIVE	TOTAL		TESTED	POSITIVE	TOTAL		TESTED	POSITIVE	TOTAL		TESTED	POSITIVE	TOTAL		TESTED		POSITIVE																		
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		M	F	M	F	M	F	M	F											
12 AM	1		1		1								1	1				2	2					4	1	4	1	1		5														
1 AM	1	2	1	2			1	1	1					1	1			1	1	1			2	1	2	2	6	4	6	3	5	10												
2 AM	1		1				1	1					1	1										2	1	2	1			3														
3 AM	3		3		2									2	2	2		1	1				2	2	1	8		8		5	8													
4 AM													1	1		1						2	2	1	3		3		2	3														
5 AM	1		1		1								1	1											2		2		1	2														
6 AM	1		1		1							1	1									1	1		2	1	2	1	1	3														
7 AM							1	2	1	2			1	1				1	1					1	1	4	2	4	2		6													
8 AM							2	1	2	1															2	1	2	1			3													
9 AM															1	1										1		1			1													
10 AM							2	2					1	1				2	1					1	1	1	1	8	2	7	2		10											
11 AM											1	1											4	4		5	1	5	1		6													
TOTAL AM	8	2	8	2	5		7	3	7	3	1	3	2	3	2	1	4	2	4	2	1	7	2	6	2	2	4	1	4	1	1	13	2	13	1	4	46	14	45	13	15		60	
12 PM												1						1	1									1	3	1	1			4										
1 PM							1	1				2	2														1	2	1	2			3											
2 PM	1		1				1	1	1	1				1	1				1	1				1	1	1	5	3	5	3	1		8											
3 PM	2		2				1	1	1	1								3	3	1			1	1		7	4	6	3	1		11												
4 PM	1	1	1	1	1		1	1	1	1			1	1	1	1		1	1				1	1		6	4	6	4	1		10												
5 PM	1		1				3	3					1	1				1	1	1	1			1	1	1	1	1	1	1			11											
6 PM	2	4	1	4		1	2	2				1	1					1	1						4	6	3	6		1		10												
7 PM							1	1					1	1				3	1	3	1	1		1	1	3	3						7	3	7	3	1	10						
8 PM	3		2				1	1					1	1	1			1	1					1	1	1	7		6		2		7											
9 PM	1		1		1						4	4			1	1									1	1	1	6	1	6	1	1	1		7									
10 PM	1		1		1		1	1							1	1			1	1	1	1			1	1	3	3	3	3	1		6											
11 PM															1	1									1	2	1							4										
TOTAL PM	12	5	10	5	3	1	10	4	10	4		7	7	6	5		5	3	4	3	1	7	6	7	5	1	8	3	8	3	1	9	5	9	3	2	1	58	33	54	28	8	2	91
GRAND TOTAL	20	7	18	7	8	1	17	7	17	7	1	10	9	9	7	1	9	5	8	5	2	14	8	13	7	3	12	4	12	4	2	22	7	22	4	6	1	104	47	99	41	23	2	151



1998 VEHICULAR FATALITIES

HOURLY - DAILY - ALCOHOL INCIDENCE (BICYCLIST)

TABLE 58

HOURS OF THE DAY	SUNDAY			MONDAY			TUESDAY			WEDNESDAY			THURSDAY			FRIDAY			SATURDAY			TOTALS			GRAND TOTAL
	TOTAL		TESTED	TOTAL		TESTED	POSITIVE	TOTAL		TESTED	POSITIVE	TOTAL		TESTED	POSITIVE	TOTAL		TESTED	POSITIVE	TOTAL		TESTED	POSITIVE		
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
12 AM																									
1 AM																									
2 AM																									
3 AM																									
4 AM																									
5 AM																									
6 AM																									
7 AM																									
8 AM																									
9 AM																									
10 AM																									
11 AM																									
TOTAL AM																									
12 PM																									
1 PM																									
2 PM																									
3 PM																									
4 PM																									
5 PM																									
6 PM																									
7 PM																									
8 PM																									
9 PM																									
10 PM																									
11 PM																									
TOTAL PM																									
GRAND TOTAL																								0	

VEHICULAR FATALITIES

**TABLE 59**

**HOURLY - DAILY - ALCOHOL INCIDENCE (DRIVER)**

HOURS OF THE DAY	SUNDAY			MONDAY			TUESDAY			WEDNESDAY			THURSDAY			FRIDAY			SATURDAY			TOTALS			GRAND TOTAL																				
	TOTAL		TESTED	POSITIVE		TOTAL		TESTED	POSITIVE	TOTAL		TESTED	POSITIVE	TOTAL		TESTED	POSITIVE	TOTAL		TESTED	POSITIVE	TOTAL		TESTED		POSITIVE																			
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		M	F																		
12 AM														1	1			1	1			1	1	1	1		2																		
1 AM	1	2	1	2					1	1	1						1	1	1	1	1	1	4	2	4	2	3	6																	
2 AM	1		1				1	1					1		1							2	1	2	1		3																		
3 AM	3		3		2									2	2	2				1	1	1	6		6	5	6																		
4 AM												1	1	1					1	1		2	2		1		2																		
5 AM	1		1		1							1	1									2	2		1		2																		
6 AM																		1	1			1	1				1																		
7 AM						1	2	1	2			1	1				1	1			1	1	4	2	4	2		6																	
8 AM						1		1														1	1				1																		
9 AM																																													
10 AM						2		2					1	1			2	1			1	1		7	6		7																		
11 AM																			2	2			2	2			2																		
TOTAL AM	6	2	6	2	3		5	2	5	2		2	2	1		3	1	3	1	1		6	5	2	2	1	1	8	8	2	32	6	31	6	10		38								
12 PM											1			1	1													1	1	1						2									
1 PM							1		1				1	1														1	1	1	1					2									
2 PM	1		1				1		1					1		1				1	1						3	1	3	1					4										
3 PM	1		1				1		1									2	2	1						4		4		1				4											
4 PM	1	1	1	1	1					1	1		1	1	1	1				1	1				1	1	5	2	5	2	1				7										
5 PM						2		2					1													3		2							3										
6 PM	2	3	1	3		1	1				1	1						1	1						3	5	2	5		1				8											
7 PM													1	1								1	1				2	1	2	1					3										
8 PM	3		2																							3		2							3										
9 PM										1	1																									2									
10 PM																																				1									
11 PM																																				2									
TOTAL PM	8	4	6	4	1	1	6		6			2	3	2	2		3	3	2	3				3	1	3	1	1		3	2	3	1	1	28	13	25	11	2	2	41				
GRAND TOTAL	14	6	12	6	4	1	11	2	11	2		4	3	4	2	1	6	4	5	4	1			9	8	2	5	2	5	2	2		11	2	11	1	2	1	60	19	56	17	12	2	79

1998 VEHICULAR FATALITIES

HOURLY - DAILY - ALCOHOL INCIDENCE (DRIVER-MOTORCYCLIST)

TABLE 59A

HOURS OF THE DAY	SUNDAY			MONDAY			TUESDAY			WEDNESDAY			THURSDAY			FRIDAY			SATURDAY			TOTALS			GRAND TOTAL			
	TOTAL		TESTED	TOTAL		TESTED	POSITIVE	TOTAL		TESTED	POSITIVE	TOTAL		TESTED	POSITIVE	TOTAL		TESTED	POSITIVE	TOTAL		TESTED	POSITIVE					
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
12 AM	1		1		1																			1	1	1	1	
1 AM					1		1		1																1	1	1	1
2 AM																												
3 AM																												
4 AM																		1		1		1			1	1	1	1
5 AM																												
6 AM																												
7 AM																												
8 AM																												
9 AM																												
10 AM																												
11 AM																		1		1					1	1		1
TOTAL AM	1		1		1		1		1								2		2		1			4	4	3	4	
12 PM																												
1 PM																												
2 PM																1		1						1	1		1	
3 PM																1		1						1	1		1	
4 PM																												
5 PM																1		1						1	1		1	
6 PM					1		1																	1	1		1	
7 PM																		1		1				1	1		1	
8 PM											1		1		1			1		1		1		2	2	2	2	
9 PM									1		1													1	1		1	
10 PM					1		1																	1	1		1	
11 PM																												
TOTAL PM					1	1	1	1		1	1		1		3	3		2	2	1			8	1	8	1	2	9
GRAND TOTAL	1		1		2	1	2	1	1	1	1		1	1	1		3	3		4	4	2	12	1	12	1	5	13

VEHICULAR FATALITIES







1998 VEHICULAR FATALITIES

HOURLY AND DAILY INCIDENCE ARRANGED ACCORDING TO PRE-SCHOOL, SCHOOL AND AGE GROUPS TABLE 63

VEHICULAR FATALITIES

HOURS OF THE DAY	SUNDAY			MONDAY			TUESDAY			WEDNESDAY			THURSDAY			FRIDAY			SATURDAY			TOTALS			GRAND TOTAL									
	PRE-SCHOOL		SCHOOL		ADULT		PRE-SCHOOL		SCHOOL		ADULT		PRE-SCHOOL		SCHOOL		ADULT		PRE-SCHOOL		SCHOOL		ADULT			PRE-SCHOOL		SCHOOL		ADULT				
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		M	F	M	F	M	F			
12 AM					1							1												1				3	1	5				
1 AM				1	1	1					1																1	6	3	10				
2 AM					1																							2	1	3				
3 AM						3																						1	7	8				
4 AM																												1	2	3				
5 AM					1																								2	2				
6 AM					1																								2	1	3			
7 AM																													1	3	6			
8 AM																													1	1	3			
9 AM																														1	1			
10 AM																													2	6	10			
11 AM																														5	1	6		
TOTAL AM					1	8	1					3	2	1														6	1	39	13	60		
12 PM																														1	3	4		
1 PM																														1	2	3		
2 PM																														5	3	8		
3 PM																														1	6	11		
4 PM																														6	4	10		
5 PM																														8	2	11		
6 PM																														1	4	5	10	
7 PM																														2	2	4	1	10
8 PM																														1	6	7		
9 PM																														5	1	7		
10 PM																														1	1	1	2	6
11 PM																														1	2	1	4	
TOTAL PM	1		1	1	10	4	1					6	7																4	5	49	28	91	
GRAND TOTAL	1		1	2	18	5	1					9	9	1															10	6	88	41	151	

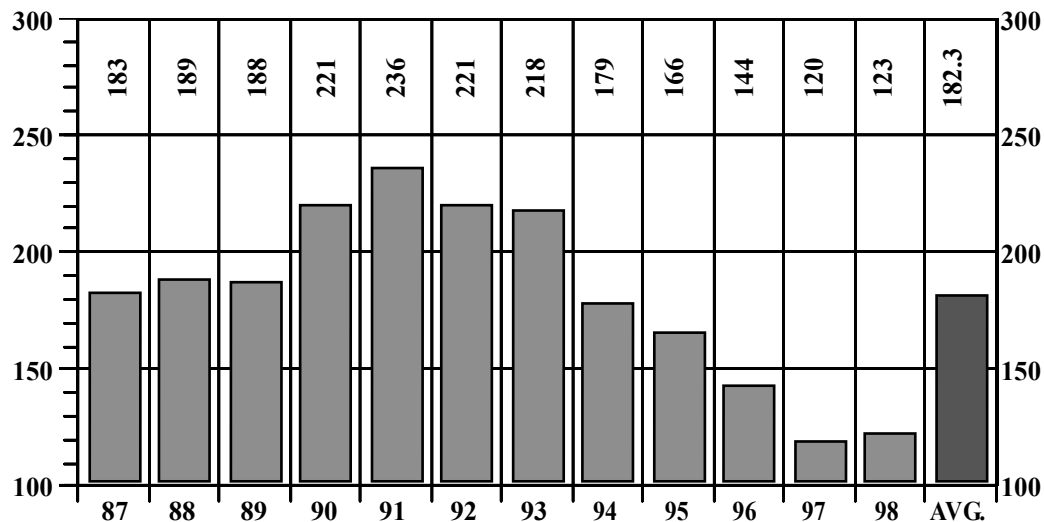
NOTE: PRE-SCHOOL - Under 5 years, SCHOOL - 5 to 18 years, ADULT - 19 years and older.





## HOMICIDES

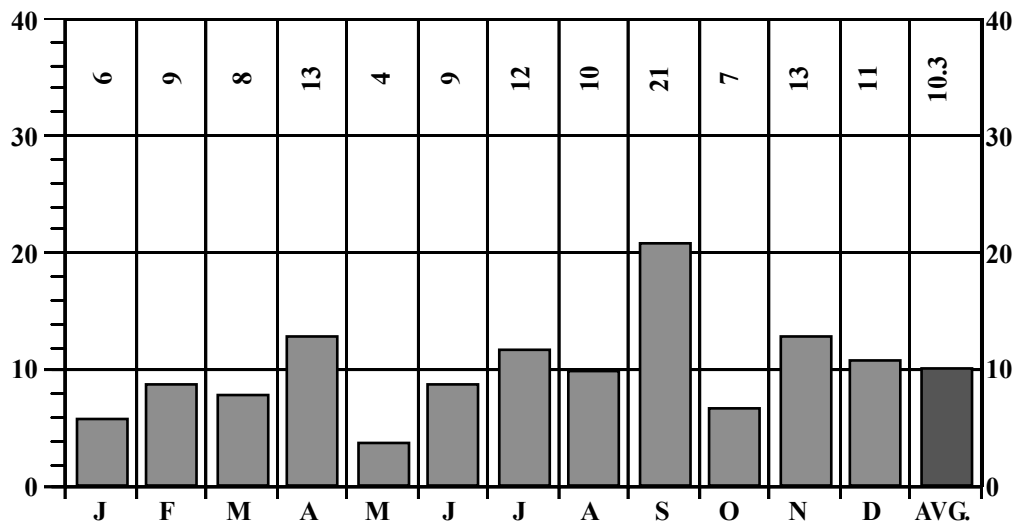
### FOR A PERIOD OF TWELVE YEARS



		NUMBER	PERCENT
SEX	MALE	97	79
	FEMALE	26	21
RACE	WHITE	37	30
	NON-WHITE	86	70
ALCOHOL	TESTED	121	98
	POSITIVE	35	29
AUTOPSY	AUTOPSIED	123	100

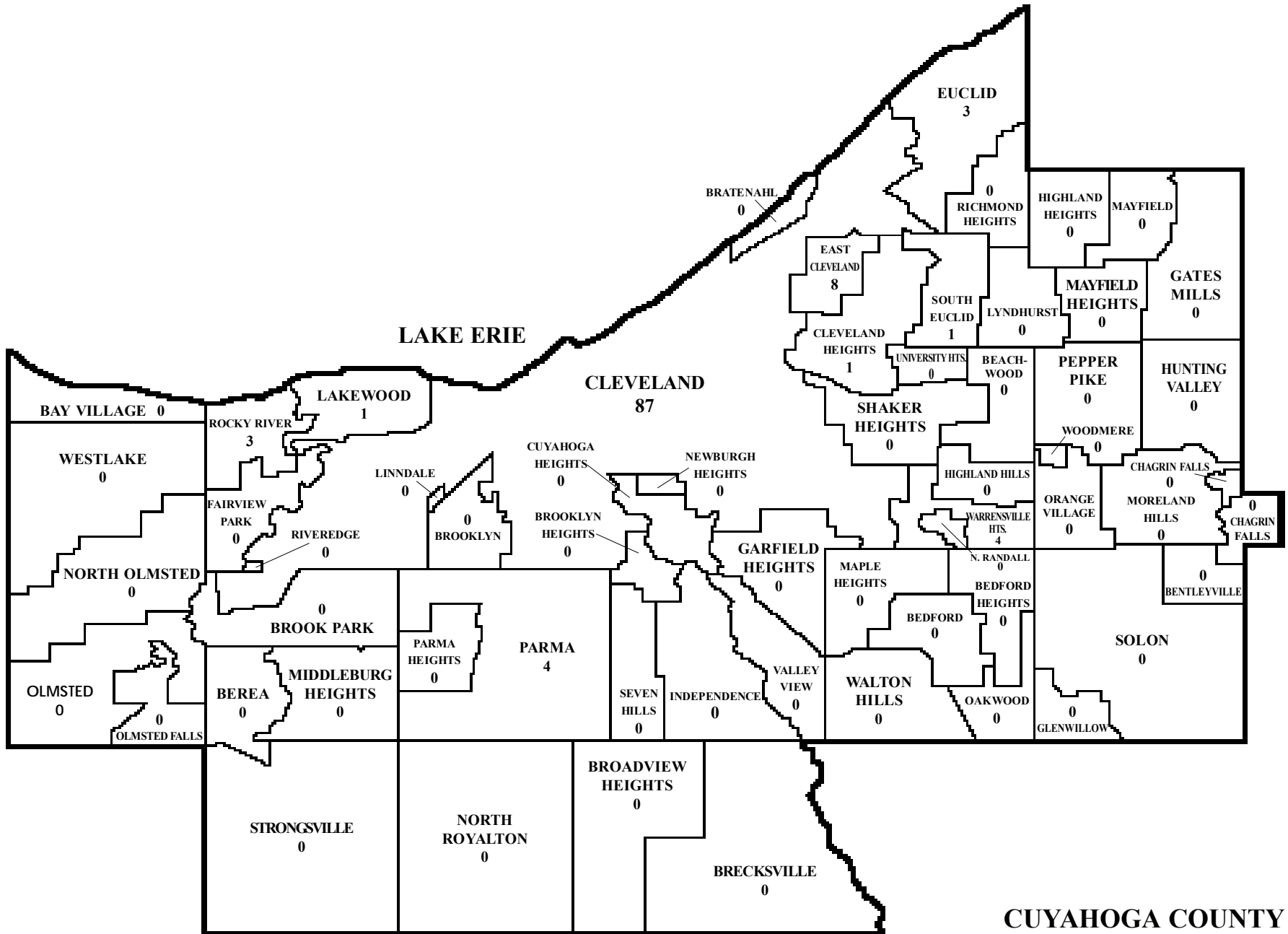
## HOMICIDES

### BY MONTH FOR THE YEAR 1998



**1998**  
**TOTAL CASES**  
**123**

HOMICIDES



CUYAHOGA COUNTY

MONTH	TOTAL	NOT TESTED												TESTED						STAGES																		
		Total		Cleve.		County		Out of County		Total		Surv'd Too Long		Under Age		Other		Total		Neg.		Pos.		0.01% 0.04%		0.05% 0.09%		0.10% 0.14%		0.15% 0.19%		0.20% 0.24%		0.25% 0.29%		0.30% or over		
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
JANUARY	6	5	1	4	1			1		1	1							4	1	3		1	1													1		
FEBRUARY	9	8	1	5		3	1											8	1	7	1	1		1														
MARCH	8	5	3	3	2	1	1	1										5	3	5	1		2				1											1
APRIL	13	9	4	5	3	3	1	1										9	4	6	3	3	1	1			1	1			1							
MAY	4	2	2	2	2													2	2	2	1		1		1													
JUNE	9	7	2	6	2	1												7	2	2	2	5		3		1		1										
JULY	12	10	2	7	2	3												10	2	8	1	2	1	1				1									1	
AUGUST	10	9	1	7	1			2		1	1							8	1	6	1	2				1							1					
SEPTEMBER	21	16	5	10	1	5	3	1	1									16	5	12	4	4	1	1		1		1						1			1	
OCTOBER	7	6	1	5	1			1										6	1	4	1	2		1					1									
NOVEMBER	13	11	2	6	2	3		2										11	2	7	2	4		1				3										
DECEMBER	11	9	2	8	1			1	1									9	2	7		2	2	1	1				1	1								
TOTAL	123	97	26	68	18	19	7	10	1	2		2						95	26	69	17	26	9	10	2	3	3	7	1	3		1		2			3	

TABLE 65

AGE - RACE - ALCOHOL INCIDENCE

AGE	RACE	TOTAL	NOT TESTED										TESTED			STAGES												
			Total		Surv'd Too Long		Under Age		Other		Total		Neg.	Pos.	0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over							
			M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Under 1 Year	White	3	1	2									1	2	1	1	1											
	Non-White	2	2										2	2														
1 - 4	White	2	1	1									1	1	1	1												
	Non-White	2	2										2	2														
5 - 9	White																											
	Non-White																											
10 - 14	White	2	1	1									1	1	1	1												
	Non-White																											
15 - 19	White	2	2										2	2														
	Non-White	15	14	1									14	1	12	1	2	1	1									
20 - 24	White	2	2										2															
	Non-White	14	13	1									13	1	9	1	4	3			1							
25 - 29	White	6	5	1									5	1	3	1	2	1				1						
	Non-White	15	14	1									14	1	7	1	7	2		1		2			1			
30 - 34	White	4	3	1									3	1	2		1	1				1					1	
	Non-White	5		5									5		3		2			1							1	
35 - 39	White	7	5	2									5	2	5	1	1	1										
	Non-White	9	8	1									8	1	5	1	3			3								
40 - 44	White	7	5	2									5	2	5	1	1			1								
	Non-White	8	4	4	1		1						3	4	1	2	2	2	1		1					1		1
45 - 49	White																											
	Non-White	8	5	3									5	3	5	2		1				1						
50 - 54	White	1	1										1		1													
	Non-White	3	3										3	2		1										1		
55 - 59	White	1	1										1		1													
	Non-White	2	2										2	2														
60 - 64	White																											
	Non-White	1	1										1				1											
65 - 69	White																											
	Non-White	1	1		1		1																					
70 - 74	White																											
	Non-White	1	1										1				1				1							
75 - 79	White																											
	Non-White																											
80 - over	White																											
	Non-White																											
TOTAL	White	37	27	10									27	10	22	6	5	4	2	2	1	1	1	1				1
	Non-White	86	70	16	2		2						68	16	47	11	21	5	8		2	2	6	1	2	1	2	2
GRAND TOTAL		123	97	26	2		2						95	26	69	17	26	9	10	2	3	3	7	1	3	1	2	3

HOMICIDES

1998 HOMICIDES

MODE - ALCOHOL INCIDENCE

TABLE 66

MODE	TOTAL	NOT TESTED												TESTED			STAGES										
		Total		Cleve.		County		Out of County		Total		Surv'd Too Long	Under Age		Other	Total		Neg.	Pos.	0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
ASPHYXIA	2	1	1	1	1																						
ASSAULT	23	19	4	12	4			7		1	1																
SHOOTING	76	66	10	48	7	15	3	3		1	1																
STABBING	7	4	3	3	3	1																					
STRANGULATION	5	2	3	1	3	1																					
UNDETERMINED	3	1	2	1	1			1																			
OTHERS*	7	4	3	3		1	2		1																		
<b>TOTAL</b>	<b>123</b>	<b>97</b>	<b>26</b>	<b>68</b>	<b>19</b>	<b>19</b>	<b>6</b>	<b>10</b>	<b>1</b>	<b>2</b>	<b>2</b>																

\*Auto Accident and Neglect

HOMICIDES

MODE - AGE GROUPS

TABLE 67

MODE	Under 1 Year	1-4		5-9		10-14		15-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80 and Over		TOTAL		GRAND TOTAL
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
ASPHYXIA																																			1	1	2	
ASSAULT	1		2								2	3	1	1	2				2	1	1	2	1		3						1				19	4	23	
SHOOTING			1				15		11	1	15	1	2	1	9	3	6	2	3	1	3				1		1								66	10	76	
STABBING											1		1	1			1	2	1																4	3	7	
STRANGULATION	1								1			1							1																2	3	5	
UNDETERMINED		1	1												1																				1	2	3	
OTHER	1	1			1	1	1	1	1																										4	3	7	
<b>TOTAL</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>1</b>			<b>1</b>	<b>1</b>	<b>16</b>	<b>1</b>	<b>15</b>	<b>1</b>	<b>19</b>	<b>2</b>	<b>3</b>	<b>6</b>	<b>13</b>	<b>3</b>	<b>9</b>	<b>6</b>	<b>5</b>	<b>3</b>	<b>4</b>		<b>3</b>		<b>1</b>		<b>1</b>		<b>1</b>				<b>97</b>	<b>26</b>	<b>123</b>	

HOMICIDES

1998 HOMICIDES (JUSTIFIABLE - DURING LEGAL INTERVENTION)

**TABLE 68 PLACE OF OCCURRENCE - CIRCUMSTANCES - ASSAILANTS / VICTIMS - ALCOHOL INCIDENCE**

ASSAILANTS	TOTAL	NOT TESTED												TESTED						STAGES																			
		Total		Cleve.		County		Out of County		Total		Surv'd Too Long		Under Age		Other		Total		Neg.		Pos.		0.01% 0.04%		0.05% 0.09%		0.10% 0.14%		0.15% 0.19%		0.20% 0.24%		0.25% 0.29%		0.30% or over			
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
<b>HOME CIRCUMSTANCES:</b>																																							
During or following an argument																																							
<i>Police</i>	1	1				1																																	
During or following the commission or attempted commission of a felony																																							
<i>Police</i>	2	2		2																																			
<b>PUBLIC CIRCUMSTANCES:</b>																																							
During or following the commission or attempted commission of a felony																																							
<i>Police</i>	3	3		2		1																																	
<b>TOTAL</b>	<b>6</b>	<b>6</b>		<b>4</b>		<b>2</b>																																	

HOMICIDES

1998 HOMICIDES (NON-JUSTIFIABLE)

PLACE OF OCCURRENCE - CIRCUMSTANCES - ASSAILANTS / VICTIMS - ALCOHOL INCIDENCE TABLE 69

HOMICIDES

ASSAILANTS	TOTAL	NOT TESTED												TESTED			STAGES															
		Total		Cleve.		County		Out of County		Total		Surv'd Too Long		Under Age		Other		Total		Neg.		Pos.		0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over		
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M
<b>HOME CIRCUMSTANCES:</b>																																
<b>During or following an argument</b>																																
<i>Acquaintance</i>	10	7	3	5	3			2		1		1																				
Relative																																
<i>Father</i>	1	1		1																												
<i>Spouse</i>	3		3		3																											
<i>Stranger</i>	2	2		2																												
<b>During or following the commission or attempted commission of a felony</b>																																
<i>Stranger</i>	3	3		2		1																										
<i>More than One</i>	1	1		1																												
<b>Unknown Home Circumstances</b>																																
<i>Acquaintance</i>	4	1	3		3	1																										
<i>Unknown</i>	10	7	3	3	3	2		2																								
<b>Other Home Circumstances</b>																																
<i>Acquaintance</i>	11	6	5	3	5	2		1																								
Relative																																
<i>Father</i>	2	1	1	1				1																								
<i>Mother</i>	3	1	2	1				2																								
<i>Spouse</i>	1		1					1																								
<i>Unknown</i>	4	3	1	3	1																											
<b>TOTAL</b>	55	33	22	22	18	6	4	5		1		1																				

TABLE 69A PLACE OF OCCURRENCE - CIRCUMSTANCES - ASSAILANTS / VICTIMS - ALCOHOL INCIDENCE

ASSAILANTS	TOTAL	NOT TESTED												TESTED			STAGES													
		Total		Cleve.		County		Out of County		Total		Surv'd Too Long		Under Age		Other		Total		Neg.		Pos.		0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M
<b>PUBLIC CIRCUMSTANCES:</b>																														
During or following an argument																														
<i>Acquaintance</i>	10	10		6		4										10	6	4				2			1		1			
<i>Stranger</i>	1	1		1												1			1			1								
<i>Unknown</i>	5	4	1	2		1	1	1								4	1	3	1	1		1								
During or following the commission or attempted commission of a felony																														
<i>Acquaintance</i>	3	3		3					1	1						2	2													
<i>Stranger</i>	3	3		3												3	2		1		1									
<i>Unknown</i>	2	2		2												2	1		1						1					
<i>More than One</i>	2	2		1				1								2	1		1						1					
Unknown Public Circumstances																														
<i>Stranger</i>	1	1		1												1	1													
<i>Unknown</i>	11	10	1	8	1	1		1								10	1	6		4	1	1			1	1	1	2		
<i>More than One</i>	1	1		1												1	1													
Other Public Circumstances																														
<i>Acquaintance</i>	4	3	1	3				1								3	1	3	1											
<i>Stranger</i>	4	3	1	1		1	1	1								3	1	2	1	1				1						
<i>Unknown</i>	1	1		1												1				1		1								
<i>More than One</i>	14	14		9		4		1								14	12		2			1			1					
<b>TOTAL</b>	<b>62</b>	<b>58</b>	<b>4</b>	<b>42</b>	<b>1</b>	<b>11</b>	<b>2</b>	<b>5</b>	<b>1</b>	<b>1</b>						<b>57</b>	<b>4</b>	<b>40</b>	<b>3</b>	<b>17</b>	<b>1</b>	<b>8</b>		<b>1</b>		<b>5</b>	<b>1</b>	<b>3</b>		

HOMICIDES



1998 HOMICIDES

HOMICIDES IN CUYAHOGA COUNTY 1974 - 1998

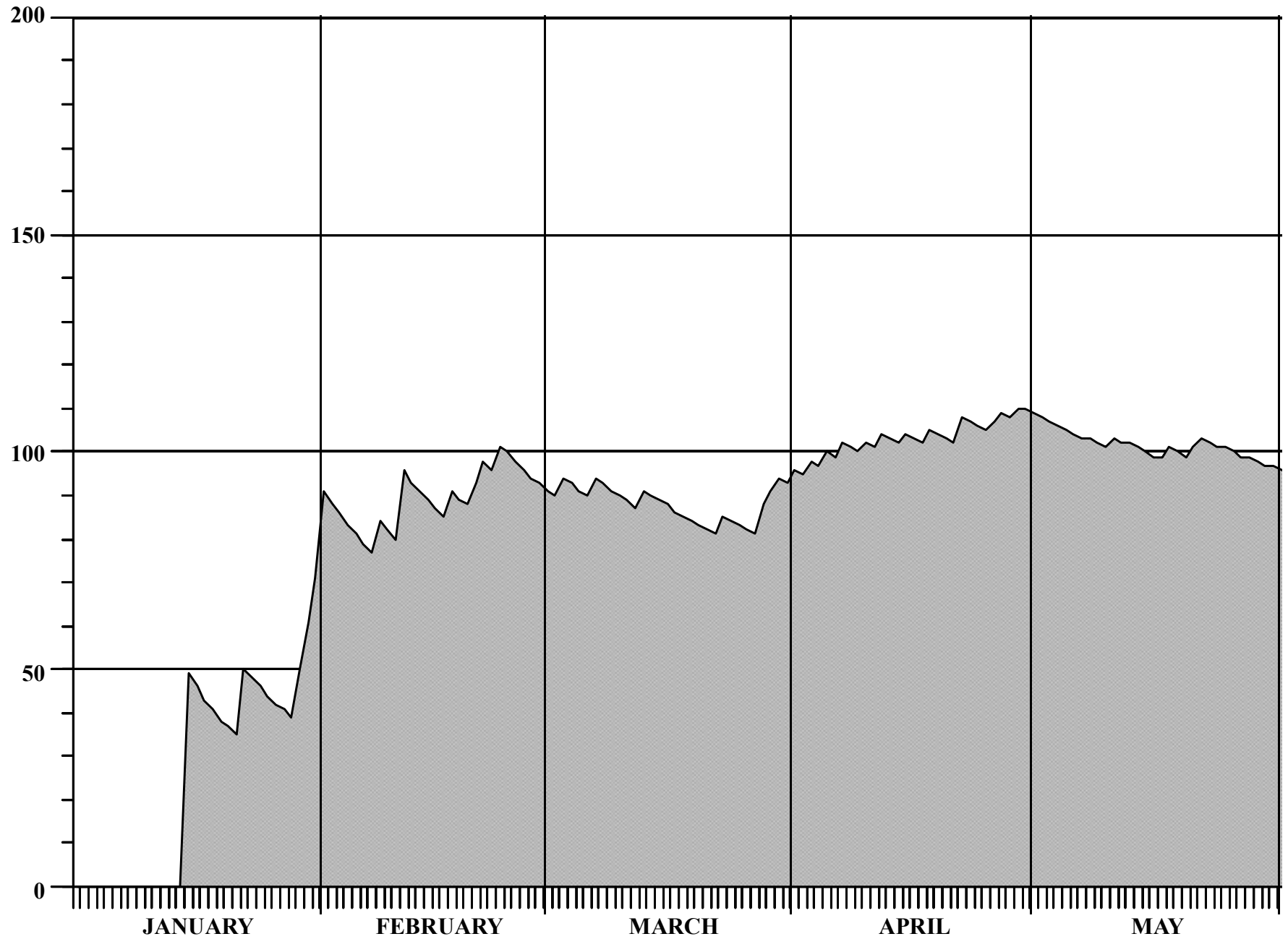
TABLE 69B

YEAR	TOTAL HOMICIDES	FIREARMS	FIREARM PERCENTAGE OF TOTAL	BLUNT VIOLENCE (MANUAL, PEDAL AND INSTRUMENTAL ASSAULT)	EDGED AND POINTED WEAPONS	STRANGULATION (MANUAL AND LIGATURE)	ALL OTHERS*
1974	362	301	83.14	19	28	11	3
1975	351	274	78.06	29	30	7	11
1976	305	238	78.03	23	29	8	7
1977	300	233	77.67	27	31	6	3
1978	268	211	78.73	17	26	12	2
1979	325	236	72.62	32	37	5	15
1980	314	233	74.20	32	29	6	14
1981	269	208	77.32	25	21	8	7
1982	251	168	66.93	32	36	4	11
1983	196	126	64.29	22	32	8	8
1984	202	121	59.90	34	33	10	4
1985	188	117	62.23	19	32	10	10
1986	169	114	67.46	21	22	4	8
1987	183	102	55.74	25	30	5	21
1988	189	106	57.14	24	27	13	17
1989	188	106	56.38	33	32	8	9
1990	221	147	66.52	28	28	5	13
1991	236	164	69.49	30	27	9	6
1992	221	143	64.71	34	25	4	15
1993	218	153	70.18	18	33	9	5
1994	179	135	75.42	9	15	15	5
1995	166	108	65.06	21	23	5	9
1996	144	93	64.58	22	15	5	9
1997	120	70	58.33	24	11	7	8
1998	123	76	61.71	23	7	5	12

\*Arson, Asphyxia by: Plastic Bag, Gag and Smothering, Automobile Crash, Burning, Carbon Monoxide, Dragged by Auto, Drowning, Explosion, Exposure, Heat Stroke, Hit by Concrete Block, Jumped from Window when Threatened, Multiple Modes, Neglect, Obstruction of Airway by Foreign Object, Poisoning, Pushed in Front of Bus, Run over by Auto, Stress and Undetermined.

HOMICIDES

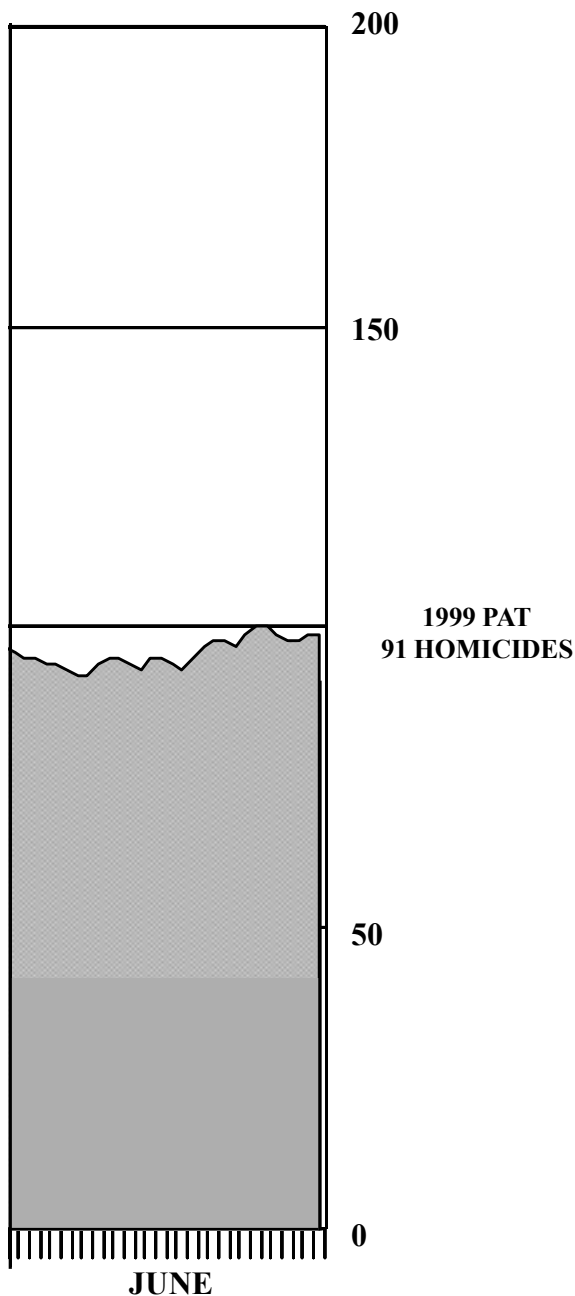
1999 MOVING PROJECTED ANNUAL HOMICIDE TOTAL



HOMICIDES

# HOMICIDES

## 1999 MOVING PROJECTED ANNUAL HOMICIDE TOTAL (continued)



In order to establish the direction of the annual numerical trends in homicidal deaths in jurisdictional area, in 1984 we initiated a daily, graphic, *moving projected total* of culpable and justifiable demises of this type. The formula for determining the projected annual total (PAT), i.e., the total number of homicides which would occur during the entire calendar year if the daily rate up to that time were to continue unchanged is  $PAT = 365H/D$  where H is the number of homicides received at our establishment since the year started. (PAT is rounded off to the nearest whole number, and the constant 366 is used in place of 365 in calculating PAT in leap years.) The date when the death was pronounced, **not** necessarily the same day as when the lethal incident occurred or when the death actually took place, is used to establish D.

Thus, if ten homicide victims were to have been pronounced dead in Cuyahoga County from January 1 until midnight of February 5, 36 days will have elapsed since the year began, and accordingly the PAT at that time is determined as follows: PAT equals 365 times 10 divided by 36 which equals 101.36 (rounded off to 101). The number of homicides that will have been pronounced dead during the entire calendar year should the same rate prevail is 101.

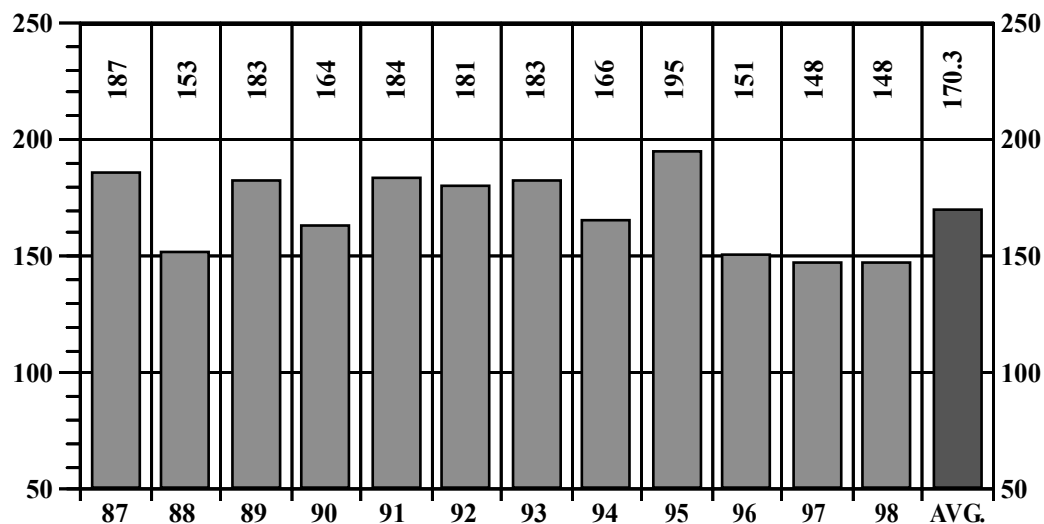
In the 1997 Coroner's Statistical Report (pp. 140 - 141), the projected annual homicide total for 1998 was plotted through June 30, 1998. The number of homicides for the entire 1998 calendar year was projected to be **99**. The actual number of homicides occurring in 1998 was **123**.

# HOMICIDES



## SUICIDES

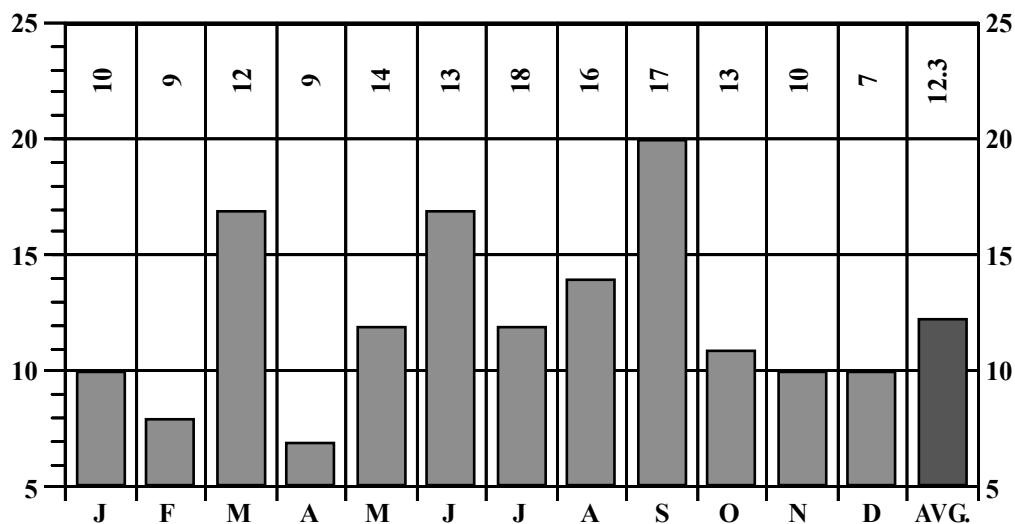
### FOR A PERIOD OF TWELVE YEARS



		NUMBER	PERCENT
SEX	MALE	114	77
	FEMALE	34	23
RACE	WHITE	123	83
	NON-WHITE	25	17
ALCOHOL	TESTED	145	98
	POSITIVE	46	32
AUTOPSY	AUTOPSIED	146	99

## SUICIDES

### BY MONTH FOR THE YEAR 1998



**1998**  
**TOTAL CASES**  
**148**



MONTH	TOTAL					NOT TESTED				TESTED				STAGES																							
		Total		Cleve.		County		Out of County		Total		Surv'd Too Long		Under Age		Other		Total		Neg.		Pos.		0.01% 0.04%		0.05% 0.09%		0.10% 0.14%		0.15% 0.19%		0.20% 0.24%		0.25% 0.29%		0.30% or over	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
JANUARY	10	8	2	2	1	6	1											8	2	6		2	2	1	1					1			1				
FEBRUARY	9	6	3	2		4	3											6	3	5	3	1		1													
MARCH	12	11	1	9		2	1											11	1	4	1	7				2		3		1							1
APRIL	9	7	2	1	2	6												7	2	6	1	1	1		1	1											
MAY	14	11	3	5	1	5	1	1	1									11	3	9	3	2										2					
JUNE	13	11	2	6	2	5												11	2	8	2	3			1				1				1				
JULY	18	16	2	3	1	13	1											16	2	10	2	6		2		3			1								
AUGUST	16	9	7	4	3	5	4											9	7	5	5	4	2	2			2				1		1				
SEPTEMBER	17	13	4	3	1	10	3			1		1						12	4	7	3	5	1	1	1			2			1					1	
OCTOBER	13	9	4	4		5	4			1				1				8	4	5	3	3	1	2	1			1									
NOVEMBER	10	7	3	4		2	3	1										7	3	4	2	3	1		1	2			1								
DECEMBER	7	6	1	1		5	1			1		1						5	1	4	1	1				1											
TOTAL	148	114	34	44	11	68	22	2	1	3		2					111	34	73	26	38	8	9	5	10	2	6		5		4	1	2			2	

TABLE 71

AGE - RACE - ALCOHOL INCIDENCE

AGE	RACE	TOTAL	NOT TESTED								TESTED			STAGES											
			Total		Surv'd Too Long		Under Age		Other		Total		Neg.	Pos.	0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over				
			M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Under 1 Year	White																								
Under 1 Year	Non-White																								
1 - 4	White																								
1 - 4	Non-White																								
5 - 9	White																								
5 - 9	Non-White																								
10 - 14	White	2	1	1							1	1	1	1											
10 - 14	Non-White	1		1								1		1											
15 - 19	White	7	5	2							5	2	5	2											
15 - 19	Non-White	3	2	1							2	1	1		1	1					1				
20 - 24	White	4	4								4		1		3		1	2							
20 - 24	Non-White	6	4	2							4	2	3		1	2	1	1				1			
25 - 29	White	11	8	3							8	3	5	3	3		1				1		1		
25 - 29	Non-White	2	2								2				2					1	1				
30 - 34	White	13	11	2							11	2	6	2	5		1	1		2		1			
30 - 34	Non-White	3	3		1	1					2		1		1			1							
35 - 39	White	11	7	4							7	4	2	3	5	1	1		1		1	2	1		
35 - 39	Non-White	1		1								1		1											
40 - 44	White	9	7	2							7	2	4	2	3		2		1						
40 - 44	Non-White	4	4		1				1		3		2		1					1					
45 - 49	White	13	11	2							11	2	6	1	5	1		1	2		1	1			
45 - 49	Non-White	1	1								1		1										1		
50 - 54	White	10	8	2							8	2	4	2	4		1		1			1			
50 - 54	Non-White	1		1								1				1	1								
55 - 59	White	7	6	1							6	1	5	1	1					1					
55 - 59	Non-White	1	1								1				1			1							
60 - 64	White	3	2	1							2	1	2			1			1						
60 - 64	Non-White																								
65 - 69	White	7	6	1							6	1	5	1	1		1								
65 - 69	Non-White																								
70 - 74	White	10	7	3	1	1					6	3	5	3	1			1							
70 - 74	Non-White																								
75 - 79	White	9	7	2							7	2	7	1		1									
75 - 79	Non-White	2	2								2		2												
80 - over	White	7	5	2							5	2	5	2											
80 - over	Non-White																								
TOTAL	White	123	95	28	1	1					94	28	63	24	31	4	8	2	8	2	5	3	4	1	2
TOTAL	Non-White	25	19	6	2	1			1		17	6	10	2	7	4	1	3	2		1	2		1	1
GRAND TOTAL		148	114	34	3	2			1		111	34	73	26	38	8	9	5	10	2	6	5	4	1	2

SUICIDES



MODE	TOTAL	Total		Cleve.		County		Out of County		NOT TESTED				TESTED			STAGES																	
		M	F	M	F	M	F	M	F	Total	Surv'd Too Long	Under Age	Other	Total	Neg.	Pos.	0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over											
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F									
ASPHYXIA	30	24	6	12	1	12	4		1								24	6	14	5	10	1	1	1	4	1			3			1		
CARBON MONOXIDE	13	10	3	2	1	8	2										10	3	7		3	3	1	2		1			2					
JUMPING	5	3	2		2	3											3	2	3	1		1		1										
POISONING	21	11	10	4	4	6	6	1									11	10	8	9	3	1	2		1	1								
SHOOTING	73	61	12	24	3	36	9	1	3	2			1				58	12	36	10	22	2	5	1	5	5	3	1	1	2		1		
STABBING	2	1	1	1			1										1	1	1	1														
OTHER*	4	4		1		3											4		4															
TOTAL	148	114	34	44	11	68	22	2	1	3	2			1			111	34	73	26	38	8	9	5	10	2	6	5	4	1	2		2	

\*Placed self on railroad tracks, Drove into building and Drove into path of truck.

TABLE 73

MODE - ALCOHOL INCIDENCE

MODE	TOTAL	NOT TESTED												TESTED						STAGES											
		Total		Cleve.		County		Out of County		Total		Surv'd Too Long		Under Age		Other		Total		Neg.		Pos.		0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
<b><u>ASPHYXIA:</u></b>																															
Drowning	1		1		1													1				1									
Hanging	26	24	2	12		12	1		1									24	2	14	2	10		1		4		1			1
Plastic Bag	3		3				3											3		3											
<b>TOTAL</b>	<b>30</b>	<b>24</b>	<b>6</b>	<b>12</b>	<b>1</b>	<b>12</b>	<b>4</b>	<b>1</b>										<b>24</b>	<b>6</b>	<b>14</b>	<b>5</b>	<b>10</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4</b>		<b>1</b>			<b>1</b>
<b><u>CARBON MONOXIDE:</u></b>																															
Auto Exhaust	12	10	2	2	1	8	1											10	2	7		3	2	1	1		1		2		
Incendary Fire	1		1				1											1					1								
<b>TOTAL</b>	<b>13</b>	<b>10</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>8</b>	<b>2</b>											<b>10</b>	<b>3</b>	<b>7</b>		<b>3</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>1</b>			<b>2</b>		
<b><u>JUMPING:</u></b>																															
Balcony	1		1		1														1					1		1					
Bridge	2	2				2												2		2											
Cliff	1	1				1												1		1											
Roof	1		1		1														1		1										
<b>TOTAL</b>	<b>5</b>	<b>3</b>	<b>2</b>		<b>2</b>	<b>3</b>												<b>3</b>	<b>2</b>	<b>3</b>	<b>1</b>		<b>1</b>								

SUICIDES



TABLE 75

MODE - AGE GROUPS

MODE	Under 1 Year		1-4		5-9		10-14		15-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80 and Over		TOTAL		GRAND TOTAL
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
ASPHXIA							1		1		2	1	1		3	1	2	1	2		3		4	1	1					1	1	3			1	24	6	30	
CARBON MONOXIDE										1		1		1		1	3		1	1										1	1	2			10	3	13		
JUMPING												1		1		1							1				1									3	2	5	
POISONING										2			1	2		2	2	2	2	1	2		1	1		1				2						11	10	21	
SHOOTING							2	6	3	2	1	7	2	7	1	5		3		4		2	1	4		2		5	1	6		5	1	3		61	12	73	
STABBING																		1																	1	1	1	2	
OTHER										1										2			1													4		4	
TOTAL						1	2	7	3	8	2	10	3	14	2	7	5	11	2	12	2	8	3	7	1	2	1	6	1	7	3	9	2	5	2	114	34	148	

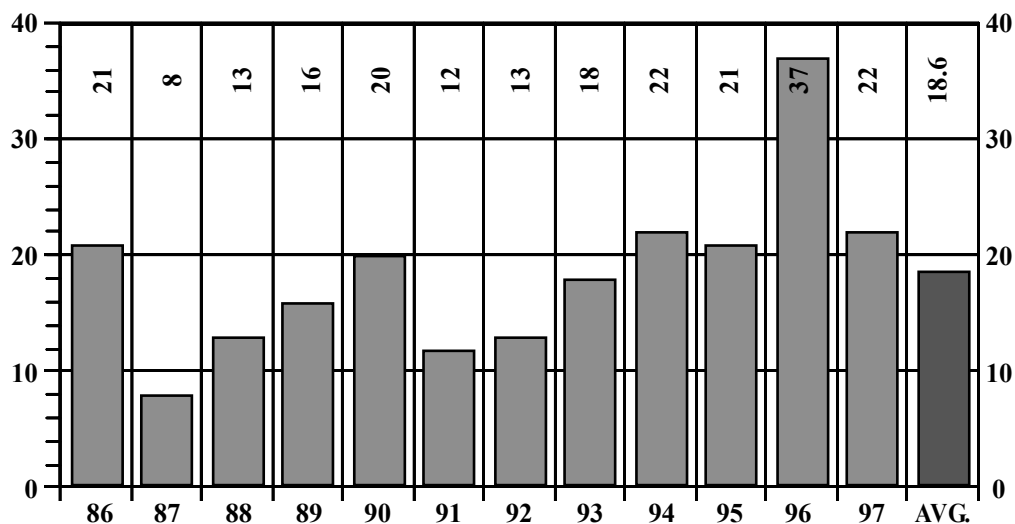
SUICIDES

MODE	CLEVELAND						COUNTY						OUT OF COUNTY						TOTAL		GRAND TOTAL														
	MARRIED		SINGLE		WIDOWED		DIVORCED		UNKNOWN		TOTAL		MARRIED		SINGLE		WIDOWED					DIVORCED		UNKNOWN		TOTAL									
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		M	F	M	F	M	F								
ASPHYXIA	4		5	1			3					12	1	7	2	2		1	2	2				12	4	1					1	24	6	30	
CARBON MONOXIDE			1			1						2	1	5	1	3				1					8	2						10	3	13	
JUMPING					1			1				2			3										3						3	2	5		
POISONING			2	2			2	2				4	4	4	4	2			1		1				6	6		1			1	11	10	21	
SHOOTING	6		9	3	4		5					24	3	16	2	12	5	3	2	5					36	9		1			1	61	12	73	
STABBING							1					1						1							1						1	1	2		
OTHER							1					1		1	2										3						4		4		
TOTAL	10	3	16	5	5	2	13	1				44	11	33	9	24	5	4	6	7	2			68	22	1	2				2	1	114	34	148



## VIOLENCE OF UNDETERMINED ORIGIN

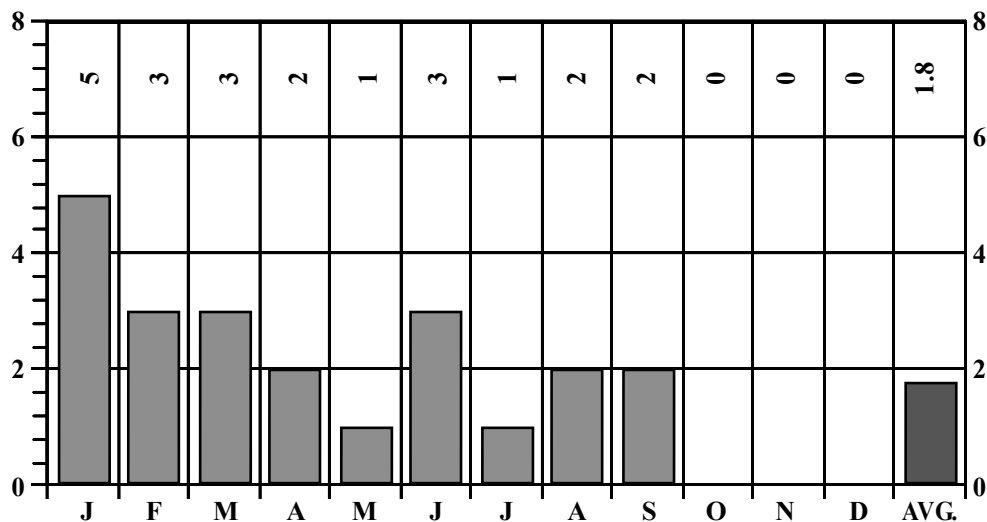
### FOR A PERIOD OF TWELVE YEARS



		NUMBER	PERCENT
SEX	MALE	13	59
	FEMALE	9	41
RACE	WHITE	11	50
	NON-WHITE	11	50
ALCOHOL	TESTED	19	86
	POSITIVE	6	32
AUTOPSY	AUTOPSIED	21	95

## VIOLENCE OF UNDETERMINED ORIGIN

### BY MONTH FOR THE YEAR 1998



**1998**  
**TOTAL CASES**  
**22**





1998 FATALITIES FROM VIOLENCE OF UNDETERMINED ORIGIN

CAUSE OF DEATH - ALCOHOL INCIDENCE

TABLE 78

CAUSE OF DEATH	TOTAL	NOT TESTED												TESTED						STAGES												
		Total		Cleve.		County		Out of County		Total		Surv'd Too Long		Under Age		Other		Total		Neg.		Pos.		0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over		
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M
ASPHYXIA	1		1				1											1		1												
POISONING	1		1		1													1			1											
SHOOTING	1	1		1												1					1											
UNDETERMINED	19	12	7	7	2	2	4	3	1	3		2			1	9	7	6	6	3	1	2			1	1						
TOTAL	22	13	9	8	3	2	5	3	1	3		2			1	10	9	6	7	4	2	3			1	1	1					

UNDETERMINED VIOLENCE

1998 FATALITIES FROM VIOLENCE OF UNDETERMINED ORIGIN

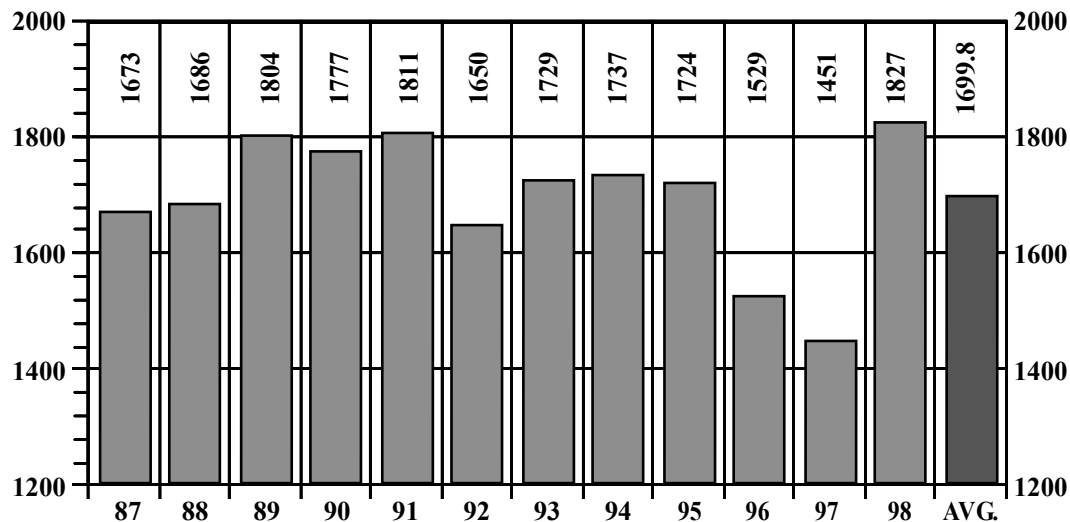
TABLE 79

AGE - RACE - ALCOHOL INCIDENCE

AGE	RACE	TOTAL	NOT TESTED										TESTED			STAGES									
			Total		Surv'd Too Long		Under Age		Other		Total		Neg.	Pos.	0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over				
			M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Under 1 Year	White	3	1	2							1	2	1	2											
	Non-White	2	1	1							1	1	1	1											
1 - 4	White	1	1								1	1													
	Non-White																								
5 - 9	White																								
	Non-White																								
10 - 14	White																								
	Non-White																								
15 - 19	White																								
	Non-White																								
20 - 24	White																								
	Non-White	1	1								1	1													
25 - 29	White																								
	Non-White																								
30 - 34	White																								
	Non-White																								
35 - 39	White	3	1	2	1					1		2	2												
	Non-White	2	1	1							1	1		1	1		1	1							
40 - 44	White	2	1	1							1	1		1	1	1			1						
	Non-White	1	1								1			1		1									
45 - 49	White																								
	Non-White	1	1								1			1		1									
50 - 54	White																								
	Non-White																								
55 - 59	White	1		1								1		1											
	Non-White	2	2									2	2												
60 - 64	White																								
	Non-White																								
65 - 69	White																								
	Non-White	1	1		1	1																			
70 - 74	White																								
	Non-White																								
75 - 79	White	1	1		1	1																			
	Non-White	1		1								1	1												
80 - over	White																								
	Non-White																								
TOTAL	White	11	5	6	2	1				1	3	6	2	5	1	1	1				1				
	Non-White	11	8	3	1	1					7	3	4	2	3	1	2			1	1				
GRAND TOTAL		22	13	9	3	2				1	10	9	6	7	4	2	3			1	1	1			

## NATURAL CAUSES

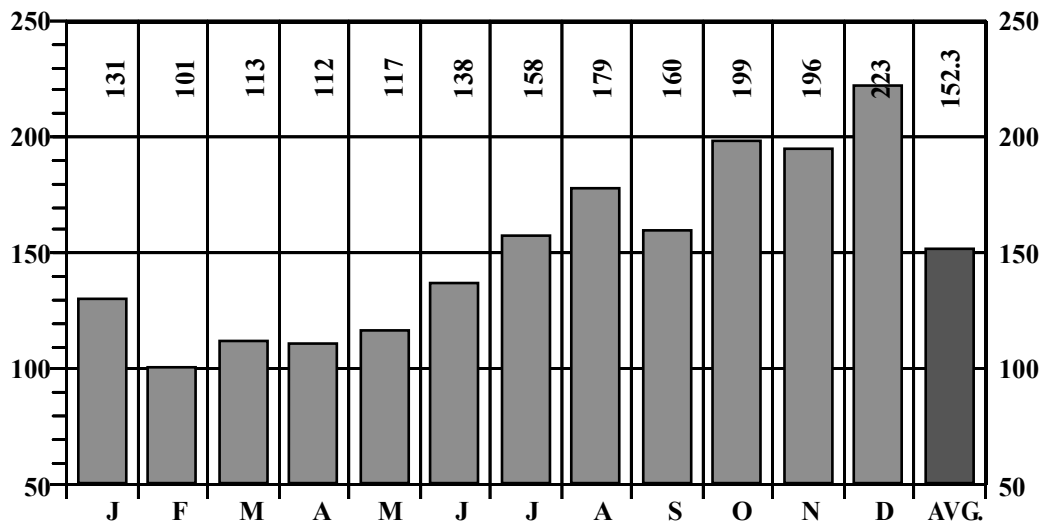
### FOR A PERIOD OF TWELVE YEARS



		NUMBER	PERCENT
SEX	MALE	1044	57
	FEMALE	783	43
RACE	WHITE	1221	67
	NON-WHITE	606	33
ALCOHOL	TESTED	1626	89
	POSITIVE	134	8
AUTOPSY	AUTOPSIED	640	35

## NATURAL CAUSES

### BY MONTH FOR THE YEAR 1998



1998  
TOTAL CASES  
**1,827**

### TABLE 80

### MONTHLY ALCOHOL INCIDENCE

MONTH	TOTAL	NOT TESTED										TESTED						STAGES													
		Total		Total		Surv'd Too Long		Under Age		Other		Total		Neg.		Pos.		0.01% 0.04%	0.05% 0.09%	0.10% 0.14%	0.15% 0.19%	0.20% 0.24%	0.25% 0.29%	0.30% or over							
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
JANUARY	131	78	53	4	6		1			4	5	74	47	65	39	9	8	5	4	1	4					1				1	1
FEBRUARY	101	63	38	7	9	1	2		1	6	6	56	29	49	28	7	1	3	1	1					1				1	1	
MARCH	113	71	42	10	5	2	1			8	4	61	37	56	36	5	1			2		1			1					2	
APRIL	112	66	46	3	4		1			3	3	63	42	55	39	8	3	3	2	1		2						1	2		
MAY	117	77	40	4	8	1	2			3	6	73	32	66	30	7	2	4	1	3	1										
JUNE	138	85	53	6	6	1				5	6	79	47	73	45	6	2	4	1	1	1					1					
JULY	158	78	80	9	11		4			9	7	69	69	65	67	4	2	2	1		1									2	
AUGUST	179	98	81	12	10	2	1			10	9	86	71	77	70	9	1	4	1	2		1			1				1		
SEPTEMBER	160	80	80	6	12		1			6	11	74	68	64	64	10	4	5	3	3	1			1	1						
OCTOBER	199	102	97	11	16	2	1	1		8	15	91	81	85	75	6	6	3	6	2		1									
NOVEMBER	196	121	75	8	12	2	1			6	11	113	63	98	58	15	5	8	3	2		2	1	1					2	1	
DECEMBER	223	125	98	8	14	3	2			5	12	117	84	109	79	8	5	5	2	1	1	1	1			1	1				
<b>TOTAL</b>	<b>1827</b>	<b>1044</b>	<b>783</b>	<b>88</b>	<b>113</b>	<b>14</b>	<b>17</b>	<b>1</b>	<b>1</b>	<b>73</b>	<b>95</b>	<b>956</b>	<b>670</b>	<b>862</b>	<b>630</b>	<b>94</b>	<b>40</b>	<b>46</b>	<b>25</b>	<b>19</b>	<b>9</b>	<b>8</b>	<b>2</b>	<b>4</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>11</b>	<b>1</b>

1998 DEATHS FROM NATURAL CAUSES

INTERNATIONAL CODE OF CAUSES OF DEATH LISTED BY MONTH

TABLE 81

NATURAL CAUSES

CLASSIFICATION OF DISEASES BY CODE*	JAN.		FEB.		MARCH		APRIL		MAY		JUNE		JULY		AUG.		SEPT.		OCT.		NOV.		DEC.		TOTAL		GRAND TOTAL
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Infective and Parasitic Diseases		1	1	1	1						1		2	1		1							1		4	6	10
Neoplasms	1	1	2	3	2	1	6	3	5	4	3		1	1	3	3	2	3	4	2	3	2	5	3	37	26	63
Allergic, Endocrine System, Metabolic and Nutritional Diseases		1			1	2	1	2	3				2	1	1				1		1	1			9	8	17
Diseases of the Blood and Blood-forming Organs		2		1					1																4	4	4
Mental, Psychoneurotic and Personality Disorders**					1								2	1	2	1		1	1		1		1		8	3	11
Diseases of the Nervous System and Sense Organs	1		1						1	1	1		1	1	1		1						1		5	5	10
Diseases of the Circulatory System	71	46	58	28	59	38	56	37	60	31	74	50	68	69	85	76	74	72	89	86	107	63	107	88	908	684	1592
Diseases of the Respiratory System	2	1	1	3	3		1		3				1		2		1		4	2	4	3	5	3	27	12	39
Diseases of the Digestive System	2	1		2	3	1		2	4	1	5	1	4	3	2		2	1	1	1	2	2	3	1	28	16	44
Diseases of the Genito-urinary System							1				1						1	2	1		1	1	1	1	4	5	9
Deliveries and Complications of Pregnancy, Childbirth and the Puerperium																			1						1	1	1
Diseases of the Skin and Cellular Tissue									1												1				1	1	2
Diseases of the Bones and Organs of Movement																											0
Congenital Malformations																						1			1	1	1
Certain Diseases of Early Infancy					1		1			1															2	1	3
Symptoms, Senility and Ill-defined Conditions***	1						1	1	1		1	1		2	1		1		1	3	3	2	1	1	11	10	21
<b>TOTAL</b>	<b>78</b>	<b>53</b>	<b>63</b>	<b>38</b>	<b>71</b>	<b>42</b>	<b>66</b>	<b>46</b>	<b>77</b>	<b>40</b>	<b>85</b>	<b>53</b>	<b>78</b>	<b>80</b>	<b>98</b>	<b>81</b>	<b>80</b>	<b>80</b>	<b>102</b>	<b>97</b>	<b>121</b>	<b>75</b>	<b>125</b>	<b>98</b>	<b>1044</b>	<b>783</b>	<b>1827</b>

\*International Classification of Diseases by World Health Organization. Ninth Revision.

\*\*In Mental, Psychoneurotic and Personality Disorders 6 were due to Alcoholism. (Alcoholism with associated physical disease totaled 14)

\*\*\*Sudden Infant Death Syndrome totaled 11.

## 1998 AUTOPSIES - DEATHS FROM NATURAL CAUSES

**TABLE 82**
**INTERNATIONAL CODE OF CAUSES OF DEATH LISTED BY MONTH**

CLASSIFICATION OF DISEASES BY CODE*	JAN.		FEB.		MARCH		APRIL		MAY		JUNE		JULY		AUG.		SEPT.		OCT.		NOV.		DEC.		TOTAL		GRAND TOTAL
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Infective and Parasitic Diseases		1	1		1								1	1									1		4	2	6
Neoplasms	1	1	1	1		1	4	1	3	2				2		2	1				1	1	1	1	15	9	24
Allergic, Endocrine System, Metabolic and Nutritional Diseases		1			1	2	1	2	3				1	1					1		1	1			7	8	15
Diseases of the Blood and Blood-forming Organs		2		1					1																4	4	4
Mental, Psychoneurotic and Personality Disorders**					1								2	1	2	1	1	1		1		1		8	3	11	
Diseases of the Nervous System and Sense Organs	1		1						1	1					1	1		1					1	4	4	8	
Diseases of the Circulatory System	32	18	23	10	23	19	31	17	23	5	22	25	17	21	23	15	25	11	30	14	26	11	30	13	305	179	484
Diseases of the Respiratory System	2	1	1	3	3		1		2				1		2		1		4	1	4	2	1		22	7	29
Diseases of the Digestive System	1			2	2	1		2	4	1	5	1	2	2	1		2	1			1	1	2		20	11	31
Diseases of the Genito-urinary System								1									1	1	1		1	1		2	4	6	
Deliveries and Complications of Pregnancy, Childbirth and the Puerperium																				1					1	1	1
Diseases of the Skin and Cellular Tissue																					1				1		1
Diseases of the Bones and Organs of Movement																											0
Congenital Malformations																											0
Certain Diseases of Early Infancy																											0
Symptoms, Senility and Ill-defined Conditions***	1						1	1	1			1		2			2		1	3	3	2	1	1	10	10	20
<b>TOTAL</b>	<b>38</b>	<b>24</b>	<b>27</b>	<b>17</b>	<b>31</b>	<b>23</b>	<b>38</b>	<b>24</b>	<b>37</b>	<b>10</b>	<b>27</b>	<b>27</b>	<b>23</b>	<b>28</b>	<b>32</b>	<b>17</b>	<b>32</b>	<b>16</b>	<b>37</b>	<b>21</b>	<b>37</b>	<b>19</b>	<b>39</b>	<b>16</b>	<b>398</b>	<b>242</b>	<b>640</b>

\*International Classification of Diseases by World Health Organization. Ninth Revision.

\*\*In Mental, Psychoneurotic and Personality Disorders 6 were due to Alcoholism. (Alcoholism with associated physical disease totaled 12)

\*\*\*Sudden Infant Death Syndrome totaled 11.

1998 DEATHS FROM NATURAL CAUSES

MONTHS AND AGE GROUPS

TABLE 83

AGE	JAN.		FEB.		MARCH		APRIL		MAY		JUNE		JULY		AUG.		SEPT.		OCT.		NOV.		DEC.		TOTAL		GRAND TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Under 1 Year	1			1	1		1	1	2	1				2	1		1		2	4	1	1			10	10	20	
1 - 4													1	1	1		1			2						2	4	6
5 - 9				1										1					1							2	1	3
10 - 14						1						1	1													1	2	3
15 - 19	1					1			1		1				1								1			6		6
20 - 24								1						1		1		1				1		2		3	4	7
25 - 29			1	1	1		2		2	1	1				1	1					1	3		2	4	13	17	
30 - 34				2		1	1							2	2	1	3			2		1		2	1	11	7	18
35 - 39	6	3	1	2	2	1	4	3	3		1	2	1	4	3	1	4			2	1	2	4	1	30	21	51	
40 - 44	6	4	4	2	6	2	2	1	5	1	3	3	2	3	6	2	5		7	2	6	1	4	4	56	25	81	
45 - 49	5	3	3	2	7	3	6	4	9		8	3	7	2	7	3	5	4	7	2	5	2	7	5	76	33	109	
50 - 54	8	3	6	6	4	3	6	1	6	1	7	2	5	8	3	3	6	4	6	2	9	2	9	4	75	39	114	
55 - 59	4	4	11	3	8	3	5	2	12	3	5	5	7	5	9	2	4	2	13	4	9	4	11	3	98	40	138	
60 - 64	9	3	9	2	8	3	6	4	8	5	4	4	5	2	11	2	12	5	10	6	17	5	19	9	118	50	168	
65 - 69	7	1	4	3	6	5	9	5	8	5	13	6	9	7	16	8	4	5	11	8	9	6	14	10	110	69	179	
70 - 74	10	7	6	8	2	4	13	4	8	4	13	8	13	11	8	10	16	8	16	8	17	6	15	12	137	90	227	
75 - 79	9	6	8	2	12	5	8	5	6	7	17	7	11	10	13	12	7	12	14	18	25	18	14	17	144	119	263	
80 - over	12	18	7	5	13	10	6	13	8	12	13	12	14	21	17	33	16	38	13	39	19	25	23	30	161	256	417	
TOTAL	78	53	63	38	71	42	66	46	77	40	85	53	78	80	98	81	80	80	102	97	121	75	125	98	1044	783	1827	

NATURAL CAUSES

## 1998 AUTOPSIES - DEATHS FROM NATURAL CAUSES

**TABLE 84**

**MONTHS AND AGE GROUPS**

AGE	JAN.		FEB.		MARCH		APRIL		MAY		JUNE		JULY		AUG.		SEPT.		OCT.		NOV.		DEC.		TOTAL		GRAND TOTAL
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Under 1 Year	1						1	1	2	1				2			2		2	4	1				9	8	17
1 - 4													1	1	1		1		1						2	3	5
5 - 9			1																						1		1
10 - 14				1							1	1													1	2	3
15 - 19	1				1				1		1				1							1			6		6
20 - 24							1						1		1		1			1		2			3	4	7
25 - 29		1	1	1		2		2	1	1					1	1					1	3		2	4	13	17
30 - 34			1		2	1							2	1	1	1		2		1		2			11	3	14
35 - 39	6	3	1	2	2	1	4	3	3		2	1	3	1	1	4			2	1	2	4	1	27	20	47	
40 - 44	5	2	4	1	6	2	2	1	3		3	3	2	3	6	2	5		6	1	5	1	4	3	51	19	70
45 - 49	4	2	3	2	3	2	5	3	8	1	7	2	6	1	6	2	5	3	5	2	4	2	4	4	60	26	86
50 - 54	4	2	3	3	2	3	4	1	2		4	1	2	4	1	2	3	2	4	2	3	1	8	1	40	22	62
55 - 59	1	3	4	1	4	2	2	2	5		1	4	1	3	5	2	2	1	4	2	4		3		36	20	56
60 - 64	1	1	3	1	2	2	2	2	3	3	1	2				1	4	1	2	1	4	1	3	1	25	16	41
65 - 69	2	1	1	1	1	3	5	1	4	2	4	5	2	3	5		1		5	2	3	2	2		35	20	55
70 - 74	5	2	1	3		1	5	2	3		1	2	3	1	1	1	4		2	1	3	2	1		29	15	44
75 - 79	4	3	2	1	5	2	5	2		1	3	1	1	2	2	1	2	2	2	1	4	3	1	3	31	22	53
80 - over	4	4	2		3	2	3	3	2	1	2	4	1	3	1	2		5	3	2	2	2	4	1	27	29	56
<b>TOTAL</b>	<b>38</b>	<b>24</b>	<b>27</b>	<b>17</b>	<b>31</b>	<b>23</b>	<b>38</b>	<b>24</b>	<b>37</b>	<b>10</b>	<b>27</b>	<b>27</b>	<b>23</b>	<b>28</b>	<b>32</b>	<b>17</b>	<b>32</b>	<b>16</b>	<b>37</b>	<b>21</b>	<b>37</b>	<b>19</b>	<b>39</b>	<b>16</b>	<b>398</b>	<b>242</b>	<b>640</b>



1998 DEATHS FROM NATURAL CAUSES

INTERNATIONAL CODE OF CAUSES OF DEATH LISTED BY AGE GROUPS

TABLE 85

NATURAL CAUSES

CLASSIFICATION OF DISEASES BY CODE*	Under 1 Year		1-4		5-9		10-14		15-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80 and Over		TOTAL		GRAND TOTAL
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
Infective and Parasitic Diseases		1	1												1		1	2	1	1			1														4	6	10
Neoplasms				1	1									1	2			1		3	4	3	2	3	3	8	1	8	4	3	1	1	2	6	5	37	26	63	
Allergic, Endocrine System, Metabolic and Nutritional Diseases								1					2	1	3				2	2	1	2					1	1	1							9	8	17	
Diseases of the Blood and Blood-forming Organs												1				2																					4	4	4
Mental, Psychoneurotic and Personality Disorders**															1	1	1	1	3		2		1		1												8	3	11
Diseases of the Nervous System and Sense Organs		1			1					1	1			1		1	1	1										1		1							5	5	10
Diseases of the Circulatory System			1	1	1			4		1	1	2	5	6	2	19	15	41	19	64	22	64	31	93	35	105	49	96	60	131	86	133	109	147	249	908	684	1592	
Diseases of the Respiratory System				2			1	1		1		1	1	1	1	1	3	1	1	1	1	2	2			1		3	1	1	1	6		5	1	27	12	39	
Diseases of the Digestive System	2	1								1		2	1	3		5	1	3	2	4	1	1	1	3			2		1	3	3	3	1	28	16	44			
Diseases of the Genito-urinary System	1																1		1		1	1		1		1	1				1			4	5	9			
Deliveries and Complications of Pregnancy, Childbirth and the Puerperium		1																																			1	1	
Diseases of the Skin and Cellular Tissue																	1	1																			1	1	2
Diseases of the Bones and Organs of Movement																																							0
Congenital Malformations		1																																			1	1	
Certain Diseases of Early Infancy	1																										1									2	1	3	
Symptoms, Senility and Ill-defined Conditions***	6	5					1	1		1	1		2			2											1									11	10	21	
<b>TOTAL</b>	<b>10</b>	<b>10</b>	<b>2</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>6</b>	<b>3</b>	<b>4</b>	<b>4</b>	<b>13</b>	<b>11</b>	<b>7</b>	<b>30</b>	<b>21</b>	<b>56</b>	<b>25</b>	<b>76</b>	<b>33</b>	<b>75</b>	<b>39</b>	<b>98</b>	<b>40</b>	<b>118</b>	<b>50</b>	<b>110</b>	<b>69</b>	<b>137</b>	<b>90</b>	<b>144</b>	<b>119</b>	<b>161</b>	<b>256</b>	<b>1044</b>	<b>783</b>	<b>1827</b>	

\*International Classification of Diseases by World Health Organization. Ninth Revision.

\*\*In Mental, Psychoneurotic and Personality Disorders 6 were due to Alcoholism. (Alcoholism with associated physical disease totaled 14)

\*\*\*Sudden Infant Death Syndrome totaled 11.

## 1998 AUTOPSIES - DEATHS FROM NATURAL CAUSES

**TABLE 86**
**INTERNATIONAL CODE OF CAUSES OF DEATH LISTED BY AGE GROUPS**

CLASSIFICATION OF DISEASES BY CODE*	Under 1 Year		1-4		5-9		10-14		15-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80 and Over		TOTAL		GRAND TOTAL			
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
Infective and Parasitic Diseases			1												1		1	1	1	1																		4	2	6		
Neoplasms				1								1								2			3		2	1	6	2	3		1	2				15	9	24				
Allergic, Endocrine System, Metabolic and Nutritional Diseases								1					2	1	2				2	2	1	2				1		1								7	8	15				
Diseases of the Blood and Blood-forming Organs												1				2															1							4	4	4		
Mental, Psychoneurotic and Personality Disorders**															1	1	1	1	3		2		1		1												8	3	11			
Diseases of the Nervous System and Sense Organs		1								1	1				1				1	1	1									1							4	4	8			
Diseases of the Circulatory System			1	1	1			4		1	1	2	5	6	1	17	15	37	15	51	19	33	17	33	18	21	15	26	15	25	13	25	16	22	28	305	179	484				
Diseases of the Respiratory System				1			1	1		1		1		1	1	1	3	1	1	1	1	2	2			2		1		4		4		4		22	7	29				
Diseases of the Digestive System	2	1								1		2	1		3		5		3	1	3			1	2		2		1		1	1	1	1	20	11	31					
Diseases of the Genito-urinary System	1																	1		1		1				1				1						2	4	6				
Deliveries and Complications of Pregnancy, Childbirth and the Puerperium		1																																				1	1	1		
Diseases of the Skin and Cellular Tissue																1																						1	1	1		
Diseases of the Bones and Organs of Movement																																								0	0	0
Congenital Malformations																																								0	0	0
Certain Diseases of Early Infancy																																								0	0	0
Symptoms, Senility and Ill-defined Conditions***	6	5					1	1		1	1	2			2																							10	10	20		
<b>TOTAL</b>	<b>9</b>	<b>8</b>	<b>2</b>	<b>3</b>	<b>1</b>		<b>1</b>	<b>2</b>	<b>6</b>		<b>3</b>	<b>4</b>	<b>4</b>	<b>13</b>	<b>11</b>	<b>3</b>	<b>27</b>	<b>20</b>	<b>51</b>	<b>19</b>	<b>60</b>	<b>26</b>	<b>40</b>	<b>22</b>	<b>36</b>	<b>20</b>	<b>25</b>	<b>16</b>	<b>35</b>	<b>20</b>	<b>29</b>	<b>15</b>	<b>31</b>	<b>22</b>	<b>27</b>	<b>29</b>	<b>398</b>	<b>242</b>	<b>640</b>			

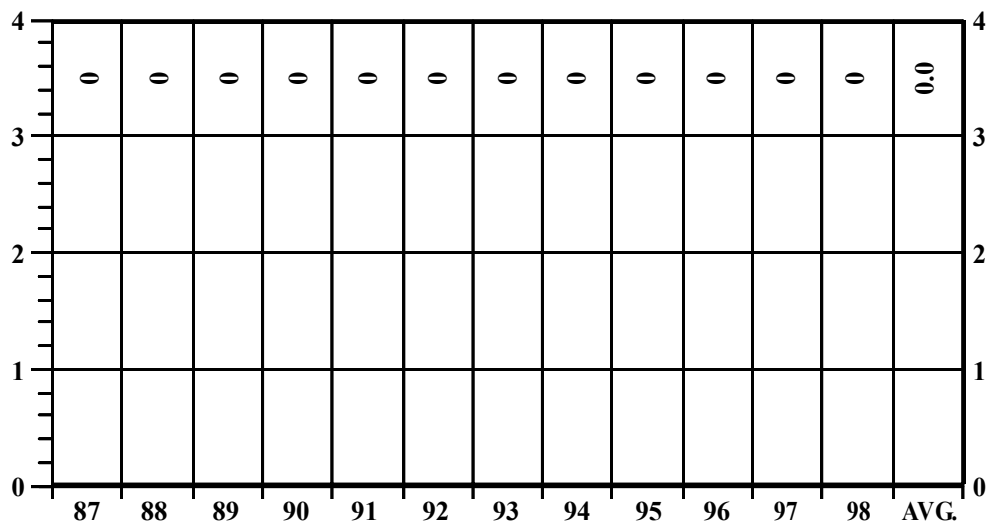
\*International Classification of Diseases by World Health Organization. Ninth Revision.

\*\*In Mental, Psychoneurotic and Personality Disorders 6 were due to Alcoholism. (Alcoholism with associated physical disease totaled 12)

\*\*\*Sudden Infant Death Syndrome totaled 11.

## ABORTION FATALITIES

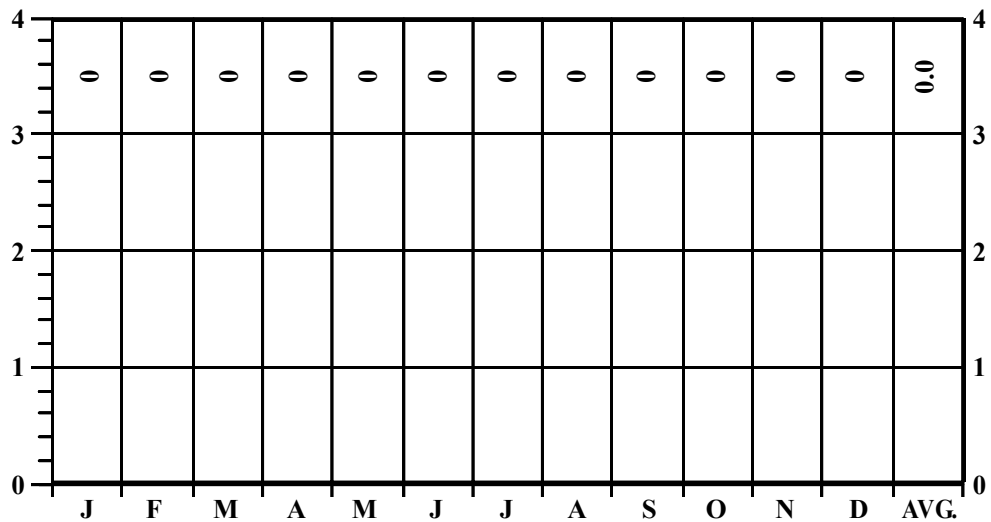
### FOR A PERIOD OF TWELVE YEARS



		NUMBER	PERCENT
SEX	MALE	0	0
	FEMALE	0	0
RACE	WHITE	0	0
	NON-WHITE	0	0
ALCOHOL	TESTED	0	0
	POSITIVE	0	0
AUTOPSY	AUTOPSIED	0	0

## ABORTION FATALITIES

### BY MONTH FOR THE YEAR 1998



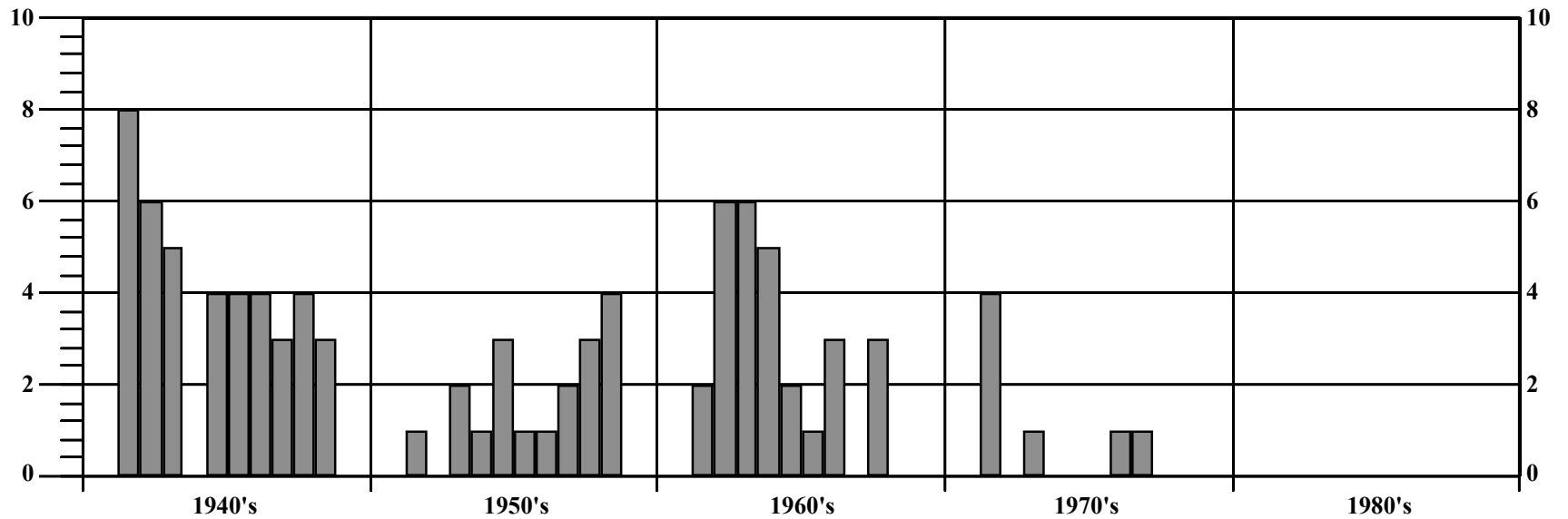
1998  
TOTAL CASES  
0

TABLE 87

NO FATALITIES RECORDED IN THIS CATEGORY IN 1998

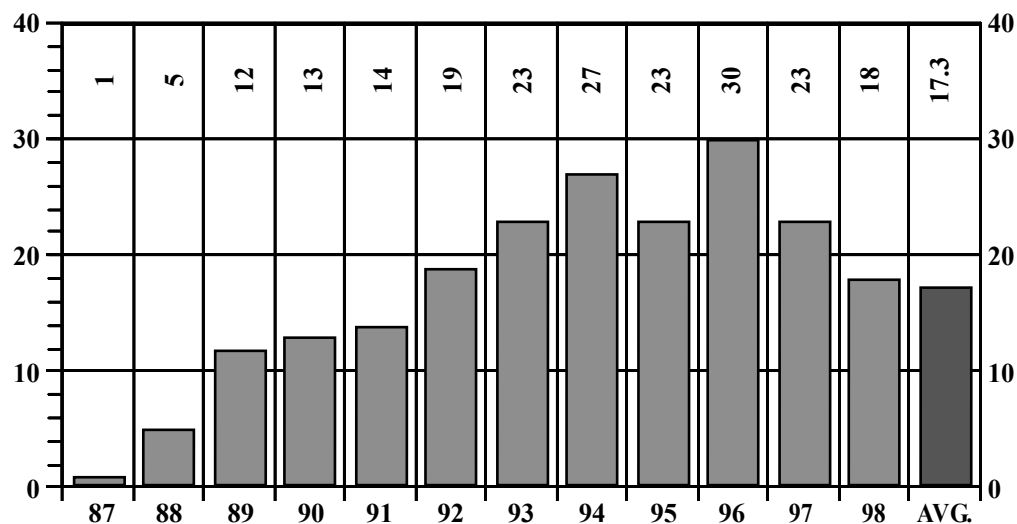
ABORTION FATALITIES

ABORTION FATALITIES FOR A PERIOD OF FIFTY YEARS (1940 - 1989)



## NEONATAL AND INTRA-UTERINE DEATHS

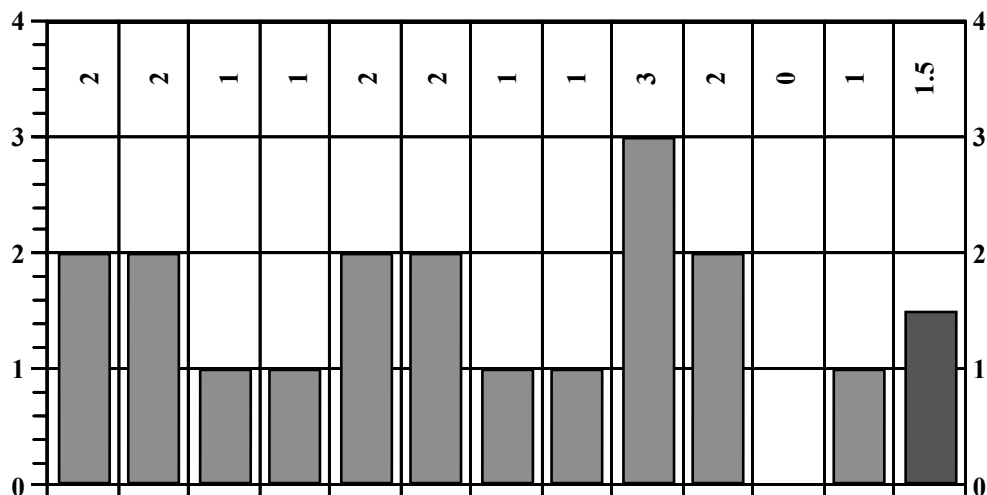
### FOR A PERIOD OF TWELVE YEARS



		NUMBER	PERCENT
SEX	MALE	9	50
	FEMALE	9	50
RACE	WHITE	5	28
	NON-WHITE	13	72
ALCOHOL	TESTED	9	50
	POSITIVE	1	11
AUTOPSY	AUTOPSIED	11	61

## NEONATAL AND INTRA-UTERINE DEATHS

### BY MONTH FOR THE YEAR 1998



1998  
TOTAL CASES  
**18**

TABLE 88

NEONATAL AND INTRA-UTERINE DEATHS\* BY MONTH AND AGE GROUPS

MONTH	GROUP I				GROUP II				GROUP III				GROUP IV				TOTAL	
	LIVE BIRTH		FOETAL DEATH		LIVE BIRTH		FOETAL DEATH		LIVE BIRTH		FOETAL DEATH		LIVE BIRTH		FOETAL DEATH		M	F
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
JANUARY						2												2
FEBRUARY							1				1							2
MARCH					1													1
APRIL			1					1										1 1
MAY									1									1
JUNE												2						2
JULY								1										1
AUGUST							1											1
SEPTEMBER					2				1									3
OCTOBER						1	1											1 1
NOVEMBER																		
DECEMBER												1						1
TOTAL			1		3	3	3	2	1	1	1	3						9 9

\*International Classification of Diseases by World Health Organization. Ninth Revision.

This category includes stillbirths (Foetal deaths) and deaths due to Natural Causes in early Neonatal period (live births).

GROUP I - Less than 20 completed weeks of gestation.

GROUP III - 28 completed weeks of gestation and over.

GROUP II - 20 completed weeks of gestation but less than 28.

GROUP IV - Gestation period not classifiable in GROUP I, II, and III.

**AUTOPSIES - 1998 NEONATAL AND INTRA-UTERINE DEATHS**

**NEONATAL AND INTRA-UTERINE DEATHS\* BY MONTH AND AGE GROUPS**

**TABLE 89**

**NEONATAL**

MONTH	GROUP I				GROUP II				GROUP III				GROUP IV				TOTAL	
	LIVE BIRTH		FOETAL DEATH		LIVE BIRTH		FOETAL DEATH		LIVE BIRTH		FOETAL DEATH		LIVE BIRTH		FOETAL DEATH		M	F
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
JANUARY						1												1
FEBRUARY																		
MARCH					1												1	
APRIL			1														1	
MAY																		
JUNE												2						2
JULY							1											1
AUGUST							1										1	
SEPTEMBER									1								1	
OCTOBER						1	1										1	1
NOVEMBER																		
DECEMBER												1						1
<b>TOTAL</b>			1		1	2	2	1	1			3					5	6

\*International Classification of Diseases by World Health Organization. Ninth Revision.

This category includes stillbirths (Foetal deaths) and deaths due to Natural Causes in early Neonatal period (live births).

GROUP I - Less than 20 completed weeks of gestation.

GROUP III - 28 completed weeks of gestation and over.

GROUP II - 20 completed weeks of gestation but less than 28.

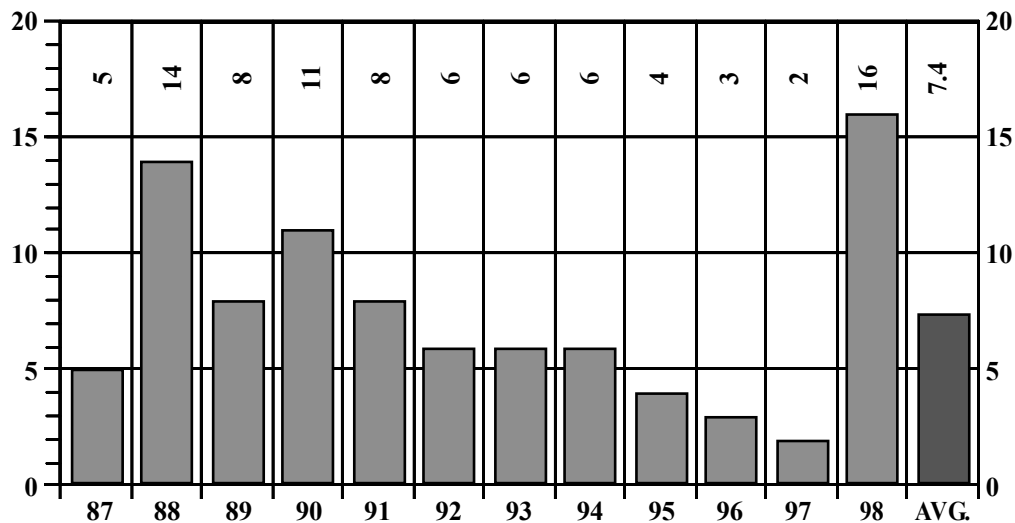
GROUP IV - Gestation period not classifiable in GROUP I, II, and III.





## UNDETERMINED CAUSES

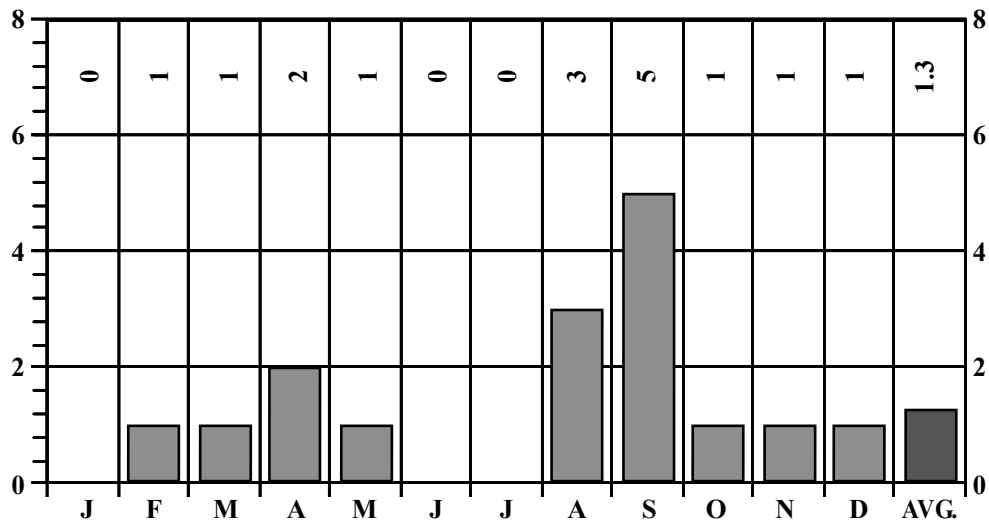
### FOR A PERIOD OF TWELVE YEARS



		NUMBER	PERCENT
SEX	MALE	10	63
	FEMALE	6	37
RACE	WHITE	10	63
	NON-WHITE	6	37
ALCOHOL	TESTED	16	100
	POSITIVE	2	13
AUTOPSY	AUTOPSIED	16	100

## UNDETERMINED CAUSES

### BY MONTH FOR THE YEAR 1998



1998  
TOTAL CASES  
**16**

TABLE 90

## DEATHS FROM UNDETERMINED CAUSES

COLOR	SEX	AGE	MARITAL STATUS	DATE OF DEATH	OCCUPATION	WHERE DEATH OCCURRED	CASE NUMBER
Black	Female	6mo 15da	Single	2/28/98	Infant	Cleveland	229989
White	Male	40	Married	3/15/98	Tow lift operator	Cleveland	230084
White	Male	3mo 14da	Single	4/13/98	Infant	Cleveland	230289
White	Female	2mo 19da	Single	4/25/98	Infant	Lakewood	230378
White	Male	1mo 19da	Single	5/10/98	Infant	Garfield Heights	230484
Black	Female	39	Single	8/15/98	Security	Cleveland Heights	231272
White	Female	16	Single	8/19/98	Student	Cleveland	231318
Black	Male	56	Divorced	8/28/98	Computer Technician	Cleveland	231399
White	Male	35	Married	9/8/98	Stock Broker	Broadview Heights	231497
Black	Male	4mo 6da	Single	9/19/98	Infant	Cleveland	231606
Black	Female	4mo	Single	9/21/98	Infant	Cleveland	231613
White	Male	40	Divorced	9/21/98	Disabled	Cleveland	231623
White	Male	1mo 8da	Single	9/27/98	Infant	Cleveland	231687
White	Male	1mo 15da	Single	10/23/98	Infant	Bedford	231941
Black	Female	4mo 21da	Single	11/16/98	Infant	Cleveland	232182
White	Male	1mo 6da	Single	12/2/98	Infant	Cleveland	232337

16 cases were autopsied but no cause of death could be assigned.

Advanced postmortem decomposition in 2 cases.

Toxicology examination and alcohol determination conducted on 16 cases.

Alcohol determination resulted in 2 positive and 14 negative cases.

	CUYAHOGA COUNTY CORONER'S OFFICE CASES			
	NUMBER OF DECEDENTS		NUMBER OF FATAL POISONINGS	
AUTOPSIED	1482*	(47.87%)	145	(97.32%)
NON-AUTOPSIED	1614	(52.13%)	4	(2.68%)
TOTAL	3096	(100.00%)	149	(100.00%)
NO SAMPLES**	639	(20.64%)	2	(1.34%)

\*Includes 73 hospital autopsies.  
 \*\*No specimens submitted for toxicological analysis.

SAMPLES RECEIVED FROM OUTSIDE REFERRING AGENCIES		
SOURCE	NUMBER	
CUYAHOGA COUNTY COURT OF COMMON PLEAS, DEPT. OF PROBATION CASES	429	(53.83%)
CASES FROM OTHER HOSPITALS AND FORENSIC AGENCIES	0	(0.00%)
DECEDENTS FROM OTHER CORONER'S JURISDICTIONS	167	(20.95%)
PROFICIENCY SURVEYS	19	(2.38%)
LAW ENFORCEMENT AGENCY CASES	182	(22.84%)
TOTAL	797	(100.00%)

TABLE 91A

INCIDENCE AND FREQUENCY OF POSITIVE FINDINGS\*

CUYAHOGA COUNTY CORONER'S LABORATORY CASES						
SUBSTANCES	POSITIVE CASES			FATAL POISONINGS		
	NUMBER POSITIVE	TOTAL CASES TESTED	% TOTAL CASES TESTED	NUMBER POSITIVE	TOTAL POISONING FATALITIES TESTED	% TOTAL POISONING FATALITIES TESTED
1998 incident mode file (alphabetical order)						
Table 91a: incidence and frequency of positive findings						
	<u>Positive cases</u>			<u>fatal poisonings</u>		
	<u>#pos</u>	<u>total</u>	<u>% total</u>	<u>#pos</u>	<u>total</u>	<u>% total</u>
<i>Acetaminophen</i>						
Acetaminophen	11	1475	0.75	5	148	3.38
<i>Acid neutrals</i>						
Phenytoin	68	1473	4.62	7	146	4.79
Phenobarbital	19	1473	1.29	4	146	2.74
Pentobarbital	1	1473	0.07	0	146	0.00
Naproxen	5	1473	0.34	1	146	0.68
Ibuprofen	11	1473	0.75	0	146	0.00
Meprobamate	8	1473	0.54	7	146	4.79
Carbamazepine	8	1473	0.54	0	146	0.00
Butalbital	3	1473	0.20	3	146	2.05
Secobarbital	1	1473	0.07	1	146	0.68
<i>Bases</i>						
Lidocaine	227	1477	15.37	25	146	17.12
Norpropoxyphene	38	1477	2.57	7	146	4.79
Diphenhydramine	42	1477	2.84	9	146	6.16
Amitriptyline	20	1477	1.35	7	146	4.79
Sertraline	15	1477	1.02	2	146	1.37
Meperidine	20	1477	1.35	1	146	0.68
Nortriptyline	23	1477	1.56	7	146	4.79
Olanzapine	2	1477	0.14	1	146	0.68
Orphenadrine	2	1477	0.14	0	146	0.00
Amantadine	3	1477	0.20	0	146	0.00

TOXICOLOGY

1998 TOXICOLOGY LABORATORY REPORT

INCIDENCE AND FREQUENCY OF POSITIVE FINDINGS\*

TABLE 91A (continued)

TOXICOLOGY

CUYAHOGA COUNTY CORONER'S LABORATORY CASES						
SUBSTANCES	POSITIVE CASES			FATAL POISONINGS		
	NUMBER POSITIVE	TOTAL CASES TESTED	% TOTAL CASES TESTED	NUMBER POSITIVE	TOTAL POISONING FATALITIES TESTED	% TOTAL POISONING FATALITIES TESTED
Tripelennamine	1	1477	0.07	1	146	0.68
Verapamil	8	1477	0.54	1	146	0.68
Pentazocine	1	1477	0.07	0	146	0.00
Hydroxyzine	3	1477	0.20	1	146	0.68
Ticlopidine	3	1477	0.20	0	146	0.00
Doxylamine	3	1477	0.20	1	146	0.68
Bupirone	2	1477	0.14	2	146	1.37
Ketamine	3	1477	0.20	0	146	0.00
Norsertaline	4	1477	0.27	1	146	0.68
Paroxetine	2	1477	0.14	0	146	0.00
Chlorpromazine	3	1477	0.20	1	146	0.68
Clozapine	2	1477	0.14	0	146	0.00
Imipramine	5	1477	0.34	4	146	2.74
Diltiazem	9	1477	0.61	0	146	0.00
Tramadol	5	1477	0.34	1	146	0.68
Buprop erythro nh2oh	10	1477	0.68	3	146	2.05
Norvenlafaxine	2	1477	0.14	0	146	0.00
Cyclobenzaprine	1	1477	0.07	0	146	0.00
Pyrilamine	1	1477	0.07	0	146	0.00
Fluoxetine	10	1477	0.68	3	146	2.05
Chlorpheniramine	9	1477	0.61	1	146	0.68
Desipramine	5	1477	0.34	4	146	2.74
Benztropine	1	1477	0.07	0	146	0.00
Mirtazapine	7	1477	0.47	0	146	0.00
Amoxapine	4	1477	0.27	0	146	0.00
Doxepin	9	1477	0.61	4	146	2.74
Dextromethorphan	13	1477	0.88	4	146	2.74
Normeperidine	3	1477	0.20	0	146	0.00
Nordoxepin	6	1477	0.41	4	146	2.74

Bases cont

Positive cases

Fatal poisonings

TABLE 91A (continued)

INCIDENCE AND FREQUENCY OF POSITIVE FINDINGS\*

		CUYAHOGA COUNTY CORONER'S LABORATORY CASES						
		POSITIVE CASES			FATAL POISONINGS			
SUBSTANCES			NUMBER POSITIVE	TOTAL CASES TESTED	% TOTAL CASES TESTED	NUMBER POSITIVE	TOTAL POISONING FATALITIES TESTED	% TOTAL POISONING FATALITIES TESTED
	#pos	total	% total	#pos	total		% total	
Trazodone	4	1477	0.27	2	146	1.37		
Brompheniramine	5	1477	0.34	1	146	0.68		
Haloperidol	1	1477	0.07	0	146	0.00		
Metoprolol	1	1477	0.07	0	146	0.00		
Venlafaxine	6	1477	0.41	1	146	0.68		
Loxapine	1	1477	0.07	0	146	0.00		
Methadone	3	1477	0.20	1	146	0.68		
Phencyclidine	15	720	2.08	0	111	0.00		
Phenothiazine mtbs 3	583	0.51	1	93	1.08			
Propoxyphene	43	1477	2.91	7	146	4.79		
<i>Benzodiazepines</i>								
Di diazepam	30	1471	2.04	14	148	9.46		
Diazepam	26	1471	1.77	10	148	6.76		
Midazolam	1	1471	0.07	0	148	0.00		
Flurazepam	1	1471	0.07	0	148	0.00		
Temazepam	3	1471	0.20	2	148	1.35		
Flurazepam	1	1471	0.07	0	148	0.00		
Alprazolam	3	1471	0.20	3	148	2.03		
Clonazepam	1	1471	0.07	0	148	0.00		
Lorazepam	11	1471	0.75	2	148	1.35		
<i>Cocaine</i>								
Cocaine	91	1477	6.16	43	146	29.45		

Cocaine complex ii

Cocaethylene 26 1478 1.76 14 147 9.52

Ecgonine methylester 68 1484 4.58 29 147 19.73

\*To compare data from year to year one must use the Toxicology Laboratory Report legends, since the analytical approach (i.e. the components of the groups) changes slightly from year to year.

Cocaine metabolite

\*\*Evaluation for this group or agent (in italics) only performed by request.

Benzoyllecgonine 94 722 13.02 43 112 38.39

TOXICOLOGY

1998 TOXICOLOGY LABORATORY REPORT

INCIDENCE OF ANALYTES IN POSITIVE CASES 1993 - 1998<sup>1</sup>

TABLE 91B

TOXICOLOGY

CUYAHOGA COUNTY CORONER'S LABORATORY CASES							
1993		1994		1995			
ALL CASES (%)	FATAL POISONINGS (%)	ALL CASES (%)	FATAL POISONINGS (%)	ALL CASES (%)	FATAL POISONINGS (%)		
<i>Carbon Monoxide</i> <sup>2</sup> 45.05	<i>Carbon Monoxide</i> <sup>2</sup> 92.31	<i>Carbon Monoxide</i> <sup>2</sup> 32.06	<i>Carbon Monoxide</i> <sup>2</sup> 82.22	<i>Carbon Monoxide</i> <sup>2</sup> 33.54	<i>Carbon Monoxide</i> <sup>2</sup> 73.85		
Ethanol 22.85	Ethanol 46.98	Ethanol 24.22	Ethanol 49.42	Ethanol 24.06	Ethanol 42.79		
Lidocaine <sup>3</sup> 17.48	Morphine 27.52	Lidocaine <sup>3</sup> 17.61	Morphine 31.39	Lidocaine <sup>3</sup> 17.56	Morphine 34.85		
Cocaine/ Cocaine Metabolite 10.75	Cocaine/ Cocaine Metabolite 25.81	Cocaine/ Cocaine Metabolite 10.24	Cocaine/ Cocaine Metabolite 23.68	Morphine 10.10	Cocaine/ Cocaine Metabolite 25.00		
Morphine 7.24	Diazepam/ Desmethyl Diazepam 15.07	Morphine 7.89	Diazepam/ Desmethyl Diazepam 18.82	Cocaine/ Cocaine Metabolite 9.68	6-Monoacetyl Morphine 18.69		
THCA 5.98	Lidocaine <sup>3</sup> 10.14	THCA 5.56	Propoxyphene/ Norpropoxyphene 12.79	Cannabinoids 6.50	Benzodiazepines 13.57		
Phenytoin 4.66	Propoxyphene/ Norpropoxyphene 9.46	Phenytoin 3.62	Codeine 11.62	Phenytoin 3.90	Propoxyphene/ Norpropoxyphene 13.00		
<i>Theophylline</i> <sup>2</sup> 3.85	Codeine 8.72	Propoxyphene/ Norpropoxyphene 3.36	Lidocaine <sup>3</sup> 11.04	Propoxyphene/ Norpropoxyphene 3.49	Lidocaine <sup>3</sup> 12.50		
Diazepam/ Desmethyl Diazepam 3.34	Amitriptyline/ Nortriptyline 5.41	Diazepam/ Desmethyl Diazepam 3.05	Acetaminophen 8.18	Benzodiazepines 3.29	Codeine 11.11		
Propoxyphene/ Norpropoxyphene 2.90	THCA 5.05	Codeine 2.82	Diphenhydramine 7.55	Diphenhydramine 3.03	Tricyclic Antidepressants 8.00		

<sup>1</sup>A "Positive Case" is one wherein a chemical substance was detected from Table 91A. Percentages are based on the total number of cases tested in each category. <sup>2</sup>Evaluation for this group or agent (in italics) only carried out by special request. <sup>3</sup>Therapy.

TABLE 91B (continued)

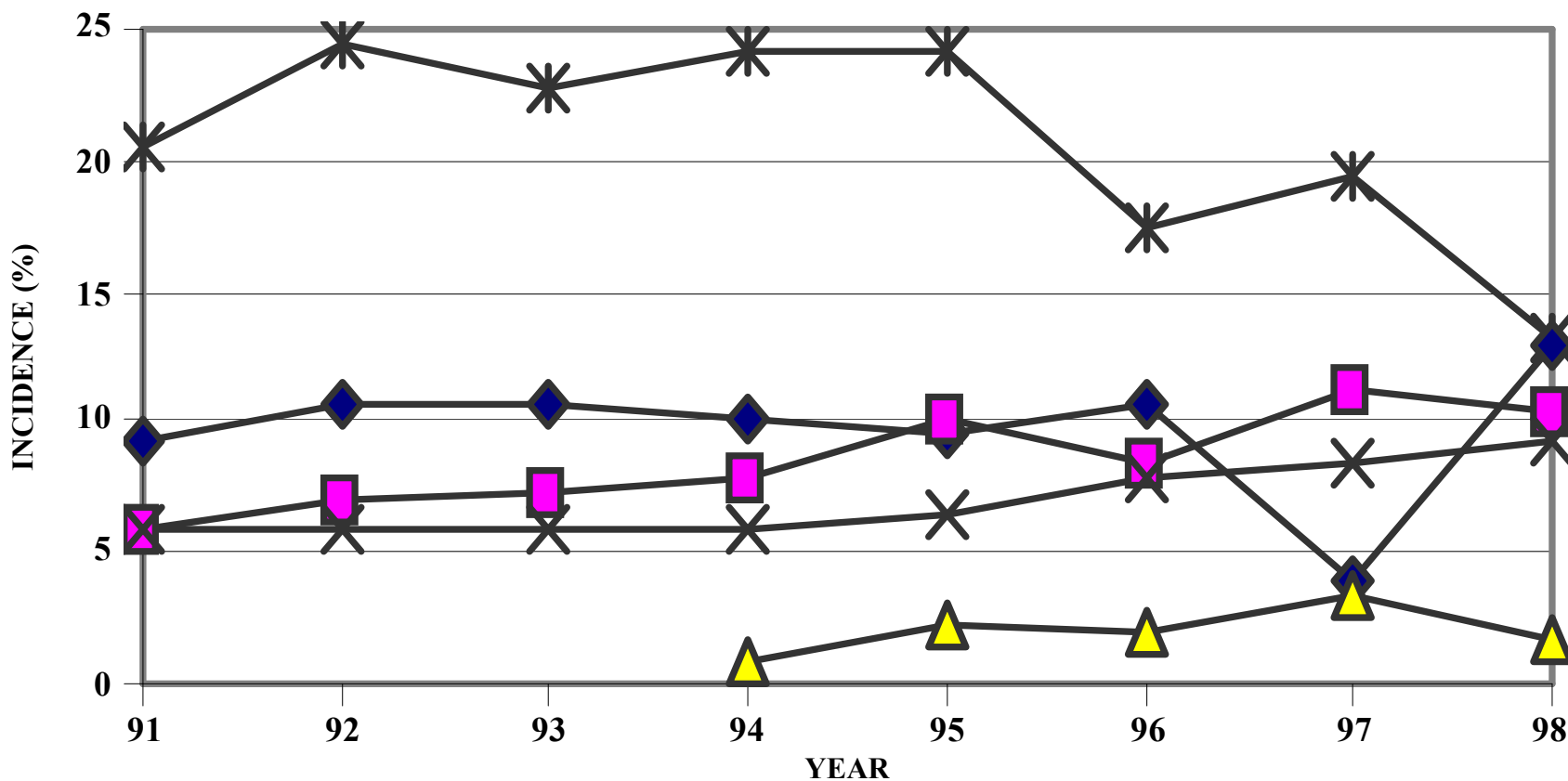
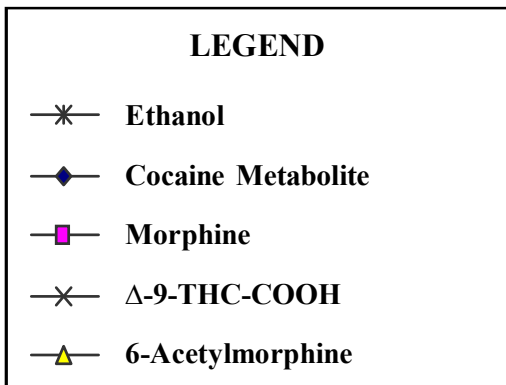
INCIDENCE OF ANALYTES IN POSITIVE CASES 1993 - 1998<sup>1</sup>

CUYAHOGA COUNTY CORONER'S LABORATORY CASES											
1996		1997				1998					
ALL CASES (%)		FATAL POISONINGS (%)		ALL CASES (%)		FATAL POISONINGS (%)		ALL CASES (%)		FATAL POISONINGS (%)	
<i>Carbon Monoxide</i> <sup>2</sup>	22.90	<i>Carbon Monoxide</i> <sup>2</sup>	85.71	<i>Carbon Monoxide</i> <sup>2</sup>	30.00	<i>Carbon Monoxide</i> <sup>2</sup>	58.54	Caffeine	38.10	<i>Carbon Monoxide</i> <sup>2</sup>	80.65
Ethanol	17.42	Morphine	34.75	Ethanol	19.40	Morphine	46.53	<i>Carbon Monoxide</i> <sup>2</sup>	30.21	Caffeine	60.00
Lidocaine <sup>3</sup>	16.38	Ethanol	34.03	Lidocaine <sup>3</sup>	14.08	Ethanol	45.83	Lidocaine <sup>3</sup>	15.37	Ethanol	35.33
Caffeine	11.32	Cocaine/ Cocaine Metabolite	30.71	Morphine	11.34	6-Acetylmorphine	29.86	Ethanol	13.31	Morphine	33.78
Cocaine/ Cocaine Metabolite	10.57	6-Monoacetyl Morphine	17.02	Caffeine	10.77	Cocaine	23.61	Cannabinoids	11.73	Cocaine	29.45
Morphine	8.41	Lidocaine <sup>3</sup>	14.08	Cannabinoids	9.86	Theophylline	18.18	Cocaine	6.16	Lidocaine <sup>3</sup>	17.12
Cannabinoids	7.74	Propoxyphene/ Norpropoxyphene	13.38	Theophylline	6.15	Codeine	15.28	<i>Theophylline</i> <sup>2</sup>	4.76	6-Acetylmorphine	15.54
Phenytoin	5.14	Benzodiazepines	12.68	Cocaine	5.56	Cannabinoids	12.62	Phenytoin	4.62	Codeine	14.19
Propoxyphene/ Norpropoxyphene	3.42	Caffeine	11.11	Phenytoin	4.75	Desmethyl Diazepam	10.49	Codeine	3.29	Cannabinoids	11.09
Diphenhydramic	3.13	Codeine	10.64	6-Acetylmorphine	3.10	Lidocaine <sup>3</sup>	10.42	Propoxyphene	2.91	Desmethyl Diazepam	9.46

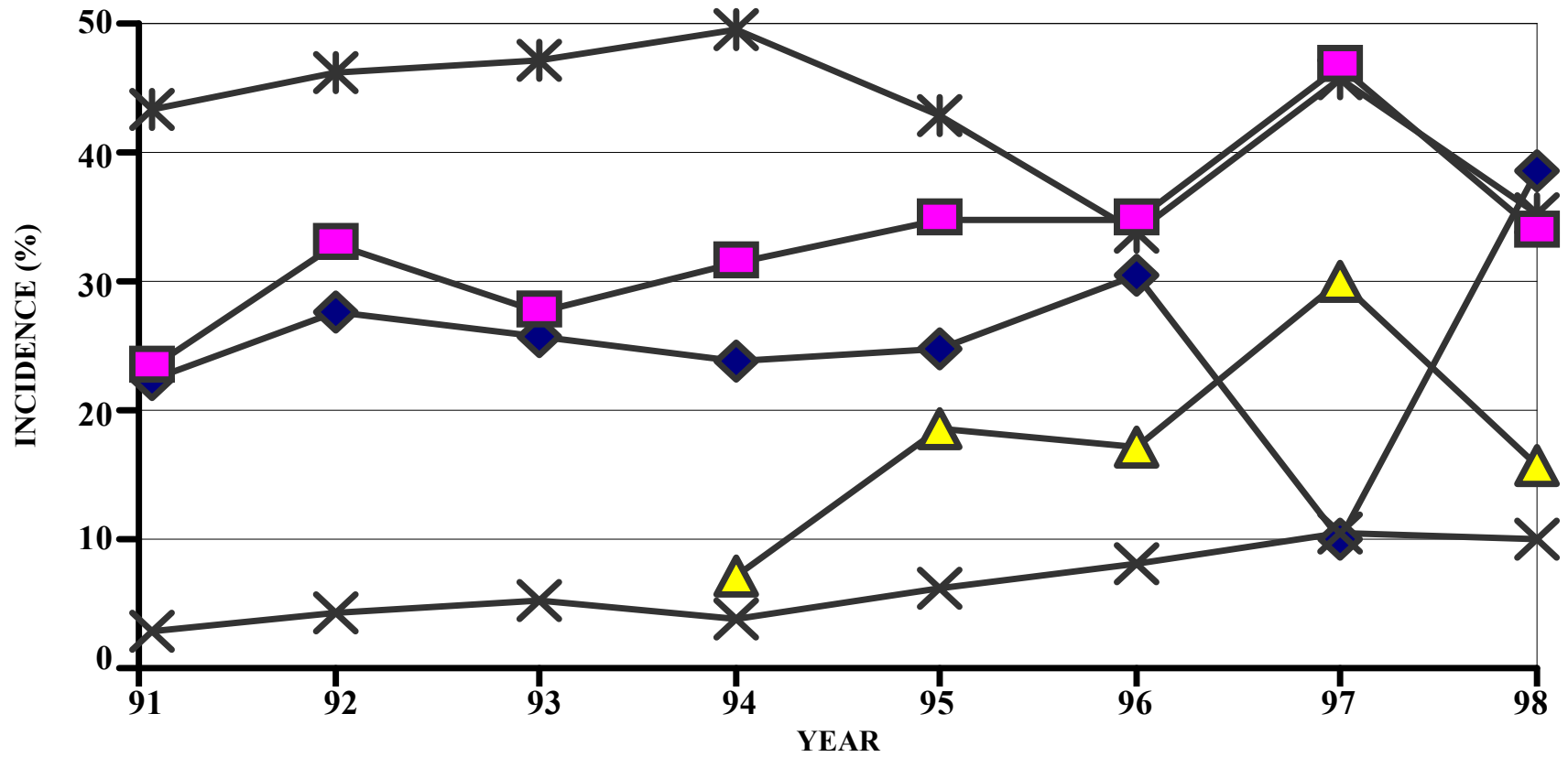
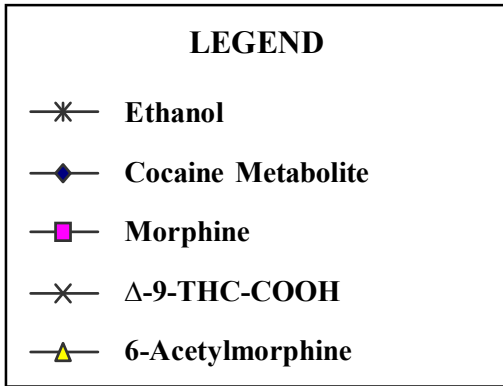
<sup>1</sup>A "Positive Case" is one wherein a chemical substance was detected from Table 91A. Percentages are based on the total number of cases tested in each category. <sup>2</sup>Testing for this group or agent (*in italics*) only performed by request. <sup>3</sup>Therapy.



INCIDENCE OF POSITIVE FINDINGS FROM ALL CORONER'S CASES



INCIDENCE OF POSITIVE FINDINGS FROM POISONING FATALITIES



TOXICOLOGY

1998 TOXICOLOGY LABORATORY REPORT

TESTING FREQUENCY BY DRUG GROUP\*

TABLE 92

DRUG GROUP	CUYAHOGA COUNTY CORONER'S LABORATORY CASES TESTED	OUTSIDE REFERRING AGENCIES' CASES TESTED	TOTALS
Acetaminophen <sup>1</sup>	1491	182	1673
Acid/Neutrals <sup>2</sup>	1495	216	1695
Bases <sup>3</sup>	1933	344	2277
Benzodiazepines <sup>4</sup>	1587	263	1850
Cannabinoids <sup>5</sup>	792	213	1055
Carbon Monoxide <sup>6</sup>	92	26	118
Chloral Hydrate <sup>7</sup>	0	0	0
Cocaine Metabolite <sup>8</sup>	1435	294	1729
Cyanide <sup>9</sup>	5	1	6
Ethychlovynol <sup>10</sup>	1489	175	1664
Glucose and Ketone Bodies <sup>11</sup>	776	120	896
Glycols <sup>12</sup>	0	0	0
Heavy Metals <sup>13</sup>	2	1	3
Opiates <sup>14</sup>	1764	254	1867
Quinine and Quinidine <sup>15</sup>	1933	216	1695
Salicylate <sup>16</sup>	1490	178	1668
Sympathomimetic Amines <sup>17</sup>	1931	348	2279
Volatiles <sup>18</sup>	2454	348	2802
Xanthines <sup>19</sup>	21	5	26

\*Number of tests performed for total analytes from a given group in single or multiple biological matrices.  
<sup>1</sup> thru <sup>19</sup> Agents for each specific drug group are listed on the next page (p. 186).

## AGENTS INCLUDED IN DRUG GROUPS ON TABLE 92

- 1) ACETAMINOPHEN: Acetaminophen
- 2) ACID/NEUTRALS: Amobarbital, Butabarbital, Butalbital, Caffeine, Carbamazepine, Carisoprodol, Chlorpropamide, Desmethyl Mephenytoin, Glutethimide, Guaifenesin, Ibuprofen, Mephenytoin, Mephobarbital, Meprobamate, Methaqualone, Methyprylon, Naproxen, Pentobarbital, Pentoxifylline, Phenobarbital, Phenytoin, Primidone, Secobarbital, Tolbutamide
- 3) BASES: Amantadine, Amitriptyline, Amoxapine, Benztropine, Brompheniramine, Bupivacaine, Bupropion erythro NH<sub>2</sub>OH, Bupropion and metabolites, Caffeine, Carbinoxamine, Chlorpheniramine, Chlorpromazine, Cimetidine, Clomipramine, Clozapine, Cocaethylene, Codeine, Cocaine, Cotinine, Cyclizine, Cyclobenzaprine, Desipramine, Desmethyl Clomipramine, Desmethyl Clozapine, Desmethyl Venlafaxine, Dextromethorphan, Diltiazem, Diphenhydramine, Disopyramide, Doxepin, Doxylamine, Ephedrine, Fentanyl, Fluoxetine, Fluphenazine, Haloperidol, Hydroxyzine, Imipramine, Ketamine, Lidocaine, Loxapine, Maprotiline, Meclizine, Meperidine, Mesoridazine, Methadone, Methadone mtb, Methapyrilene, Methylphenidate, Metoprolol, Mexiletine, Mirtazapine, Nicotine, Nordoxepin, Norfluoxetine, Normeperidine, Norpropoxyphene, Norsertraline, Nortriptyline, Norverapamil, Olanzapine, Orphenadrine, Oxycodone, Papaverine, Paroxetine, Pentazocine, Phencyclidine, Pheniramine, Phenothiazine mtbs, Phenyltoloxamine, Promethazine, Propoxyphene, Propranolol, Protriptyline, Pseudo/ephedrine, Pyrilamine, Quinidine, Quinine, Sertraline, Thioridazine, Ticlopidine, Tramadol, Trazodone, Trimipramine, Tripelennamine, Triprolidine, Venlafaxine, Verapamil.
- 4) BENZODIAZEPINES: Alprazolam, Chlordiazepoxide, Clonazepam, Demoxepam, Desalkyl Flurazepam, Desmethyl Chlordiazepoxide, Desmethyl Diazepam, Diazepam, Flurazepam, Hydroxyethyl Flurazepam, Lorazepam, Midazolam, Nitrazepam, Oxazepam, Prazepam, Temazepam, Triazolam
- 5) CANNABINOIDS: delta<sup>9</sup>THC, 11 Hydroxydelta<sup>9</sup> THC, delta<sup>9</sup> THC 9 COOH
- 6) CARBON MONOXIDE\*: Carbon Monoxide
- 7) CHLORAL HYDRATE\*: Chloral Hydrate, Trichloroethanol
- 8) COCAINE METABOLITE: Benzoylcegonine, Cocaethylene, Ecgonine Methylester
- 9) CYANIDE\*: Cyanide
- 10) ETHCHLORVYNOL: Ethchlorvynol
- 11) GLUCOSE AND KETONE BODIES: Glucose, Acetoacetic Acid
- 12) GLYCOLS\*: Ethylene Glycol, Propylene Glycol
- 13) HEAVY METALS\*: Antimony, Arsenic, Bismuth, Mercury
- 14) OPIATES: Codeine, Hydrocodone, Hydromorphone, 6Acetyl Morphine, Morphine, Oxycodone
- 15) QUININE AND QUINIDINE: Quinine, Quinidine
- 16) SALICYLATE: Salicylate
- 17) SYMPATHOMIMETIC AMINES: Amphetamine, Diethylpropion, Ephedrine, Fenfluramine, Mephentermine, Methylene dioxamphetamine, Methylene dioxymphetamine, Methamphetamine, Phendimetrazine, betaPhenethylamine, Phenmetrazine, Phentermine, Phenylephrine, Phenylpropanolamine, Pseudoephedrine, Tranylcypromine
- 18) VOLATILES: Acetone, Acetonitrile, Benzene, Butane, Chloroform, Ethanol, Ethyl Acetate, Formaldehyde, Isopropanol, Methanol, Methylene Chloride, Propane, Toluene
- 19) XANTHINES\*: Caffeine, Pentoxifylline, Theophylline

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\*Testing for this group or agent (*in italics*) only performed by request.

AGENCY	SURVEY TYPE	NUMBER OF SURVEYS	NUMBER OF SAMPLES		
			BLOOD	URINE	OTHERS
Pennsylvania Department of Health	Blood/Serum Drug Analysis	2	20	0	0
Department of Transportation (Federal)	Alcohol	2	8	0	0
Federal Aviation Administration (Federal)	Postmortem Toxicology	3	1	2	0
Wisconsin State Laboratory of Hygiene	Alcohol	5	20	5	0
College of American Pathologists	Urine Toxicology	3	0	15	0
College of American Pathologists	Blood Volatiles	4	20	0	0
<b>TOTAL</b>		<b>19</b>	<b>69</b>	<b>22</b>	<b>0</b>

In 1998 the Cuyahoga County Coroner's Office Toxicology Laboratory participated in 19 proficiency surveys.

TABLE 93

## SUBSTANCES INVOLVED IN FATAL POISONINGS

SUBSTANCES	HOME	OTHER	SUICIDE	V.U.O.	TOTAL
<b><u>Single Chemical Agent</u></b>					
Acetaminophen	1		1		2
Amitriptyline			1		1
Bupropion			1		1
Butalbital					0
Cocaine	16	9	1	1	27
Doxepin			1		1
Furosemide	1				1
Heprin		1			1
Heroin	4	1			5
Imipramine			1		1
Intravenous Drug Abuse		8			8
Isopropanol	1				1
Leustatin		1			1
Morphine	1				1
Olanzapine	1				1
Opiates	1	2			3
Oxycodone	1				1
Potassium Chloride			1		1
Sertraline	1				1
<b>TOTAL</b>	<b>28</b>	<b>22</b>	<b>7</b>	<b>1</b>	<b>58</b>
<b><u>Combined Effect of Ethanol and:</u></b>					
Acetaminophen		1			1
Amitriptyline			1		1
Cocaine	1	3			4
Diphenhydramine		1			1
Heroin	3	3			6
Opiates	1				1
Secobarbital			1		1
Alprazolam and Chlorpheniramine	1				1
Cocaine and Olanzapine	1				1
Diazepam and Opiate		1			1
Fluoxetine and Salicylate	1				1
Heroin and Codeine	3	2			5
Hydrocodone and Diazepam	1				1
Opiate and Cocaine		2			2
Oxycodone and Chlorpromazine			1		1
Tramadol and Cocaine		1			1
Cocaine, Oxycodone and Benzodiazepine	1				1
Diazepam, Amitriptyline and Hydroxyzine	1				1
Heroin, Cocaine, Diazepam and Fluoxetine		1			1
Meprobamate, Hydrocodone, Morphine, Oxycodone, Cocaine, Dextromethorphan, Doxepin and Propoxyphene	1				1
<b>TOTAL</b>	<b>15</b>	<b>15</b>	<b>3</b>	<b>0</b>	<b>33</b>

SUBSTANCES	HOME	OTHER	SUICIDE	V.U.O.	TOTAL
<b><u>Effect of Two Chemical Agents:</u></b>					
Amitriptyline and Fluoxetine	1				1
Amitriptyline and Nortriptyline	1				1
Benzodiazepines and Cocaine		1			1
Butalbital and Diazepam			1		1
Cocaine and Heroin	1				1
Cocaine and Opiates	1	1			2
Cocaine and Tetrahydrocannabinol	1				1
Codeine and Morphine	1				1
Heroin and Codeine		1			1
Hydromorphone and Morphine	1				1
Imipramine and Diazepam			1		1
Lithium and Trifluoperazine			1		1
Opiate and Methylenedioxyamphetamine	1				1
Opiates and Methadone	1				1
Propoxyphene and Fluoxetine			1		1
Sodium Fluoride and Potassium Oxalate			1		1
Sodium Hydroxide and Sodium Hypochlorite			1		1
<b>TOTAL</b>	<b>9</b>	<b>3</b>	<b>6</b>	<b>0</b>	<b>18</b>
<b><u>Effect of Three or More Chemical Agents:</u></b>					
Cocaine, Opiates and Marijuana		1			1
Diazepam, Meprobamate and Amitriptyline			1		1
Doxepin, Trazadone and Bupropion			1		1
Meprobamate, Diazepam and Codeine	1				1
Opiates, Benzodiazepines and Diphenhydramine	1				1
Temazepam, Meprobamate and Hydrocodone	1				1
Venlafaxine, Verapamil and Buspirone	1				1
Benzodiazepines, Cocaine, Barbituates and Opiates	1				1
Butalbital, Phenobarbital, Acetaminophen and Buspirone			1		1
Heroin, Codeine, Hydrocodone and Diazepam		1			1
Heroin, Codeine, Phenobarbital and Amitriptyline	1				1
Hydrocodone, Heroin, Butalbital and Meprobamate			1		1
Meprobamate, Diazepam, Heroin and Cocaine	1				1
Opiates, Diazepam, Fluoxetine and Diphenhydramine	1				1
Hydrocodone, Meprobamate, Propoxyphene, Alprazolam and Lorazepam	1				1
Imipramine, Bupropion, Propoxyphene, Temazepam and Hydrocodone			1		1
<b>TOTAL</b>	<b>9</b>	<b>2</b>	<b>5</b>	<b>0</b>	<b>16</b>
<b>GRAND TOTAL</b>	<b>61</b>	<b>42</b>	<b>21</b>	<b>1</b>	<b>125</b>

TABLE 93A

POISONING FATALITIES BY MANNER 1987 - 1998

YEAR	ACCIDENTS						HOMICIDE		SUICIDE		MANNER UNDETERMINED		TOTAL	
	HOME		WORK		OTHER PLACES		CO	OTHERS	CO	OTHERS	CO	OTHERS	CO	OTHERS
1987	24	34			1	12	9		24	22	4	6	62	74
1988	28	42	2		2	24	2		24	12		1	58	79
1989	28	42		3	2	18			17	23			47	86
1990	25	27				27	2		17	14	2		46	68
1991	26	22			1	30		1	15	20	1	3	43	76
1992	33	62	1			17	1	1	27	23		2	62	105
1993	30	55	1	1	1	30	1		15	16		1	48	103
1994	28	75	0	1	1	33	0	0	13	21	1	3	43	133
1995	25	95	2			46	3		20	18		2	50	161
1996	6	67			1	45	1		17	8		1	25	121
1997	8	78			1	33	2		13	12	1	1	25	124
1998	9	61			2	42			13	21		1	24	125
TOTAL	270	660	6	5	12	357	21	2	215	210	9	21	533	1255
GRAND TOTAL	930		11		369		23		425		30		1788	

TOXICOLOGY



**INCIDENCE OF POLYPHARMACY (FINDINGS FROM 149 POISONING FATALITIES)**

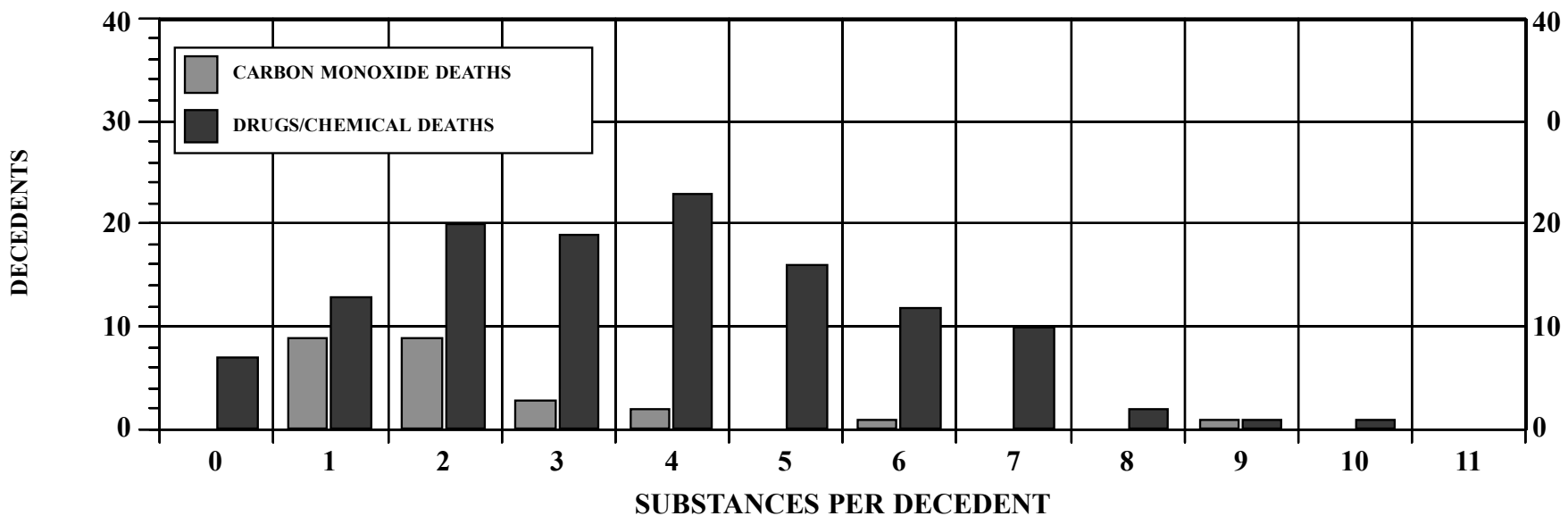


TABLE 93B

RELATIVE INCIDENT INDEX (RII) 1989 - 1998

DRUG/GROUP	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Acetaminophen	16	20	36	*	*	40	*	37	*	*
Barbiturates (Total)	8	4	N.A.	N.A.	N.A.	N.A.	N.A.	*	*	*
Phenobarbital	7	5	16	0	*	*	*	*	*	*
Benzodiazepines (Total)	29	23	N.A.	N.A.	N.A.	N.A.	N.A.	41	29	40
Diazepam	24	24	33	10	45	55	46	44	48	38
n-desmethyldiazepam	22	20	29	11	40	63	47	45	42	40
<i>Carbon Monoxide**</i>	90	90	95	79	96	88	90	80	67	86
Chlopheniramine	10	*	39	*	*	*	*	*	*	*
Cocaine	22	22	20	28	34	42	43	43	43	47
Cocaine Metabolite (Benzoylcegonine)	21	13	19	17	32	36	41	41	33	45
Dextromethorphan	*	17	0	*	*	*	*	*	*	*
Diphenhydramine	5	15	38	15	*	28	25	*	*	*
Ethanol	8	6	10	46	12	15	14	31	16	16
Lidocaine	7	4	8	12	5	6	8	9	8	11
Meperidine	22	4	8	*	*	*	*	*	*	*
Methadone	*	*	37	*	*	*	*	*	*	*
Norpropoxyphene	26	41	41	13	31	45	41	40	29	*
Opiates (Total)	36	19	N.A.	N.A.	N.A.	N.A.	N.A.	47	44	42
Codeine	36	22	12	14	32	42	50	38	50	42
Morphine	36	19	27	33	34	40	39	42	42	31
6-Monoacetyl Morphine	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	89	98	95
Phenytoin	5	8	5	*	*	*	*	*	*	*
Propoxyphene	27	23	36	20	29	38	34	40	27	*
Quinine	11	8	20	*	*	0	*	*	*	*

TOXICOLOGY

TOXICOLOGY LABORATORY REPORT

RELATIVE INCIDENT INDEX (RII) 1989 - 1998

TABLE 93B (continued)

DRUG/GROUP	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Antidepressants (Listed Below)	66	46	N.A.	N.A.	N.A.	N.A.	N.A.	26	38***	41***
Amitriptyline	29	54	37	8	*	29	36	*	*	*
Desipramine	70	*	55	*	*	*	*	*	*	*
Doxepin	*	*	62	*	*	*	*	*	*	*
Nordoxepin	*	*	*	*	*	*	*	*	*	*
Nortriptyline	*	45	37	*	*	37	48	*	*	*
Phenothiazines (Total)	5	13	N.A.	N.A.	N.A.	N.A.	N.A.	*	*	*
Salicylate	47	20	*	0	*	*	0	*	*	*
Sympathomimetic Amines (Total)	14	3	N.A.	N.A.	N.A.	N.A.	N.A.	18	13	24
Ephedrine/Pseudoephedrine	27	0	9	*	*	*	*	*	*	*
Phenylpropanolamine	10	10	5	*	*	*	*	*	*	*

RII - Number of times analyte/group found in poisoning death divided by total number of times analyte/group found times one hundred, taken to the nearest whole number.

N.A. - Not available due to changes in software sorting and counting techniques.

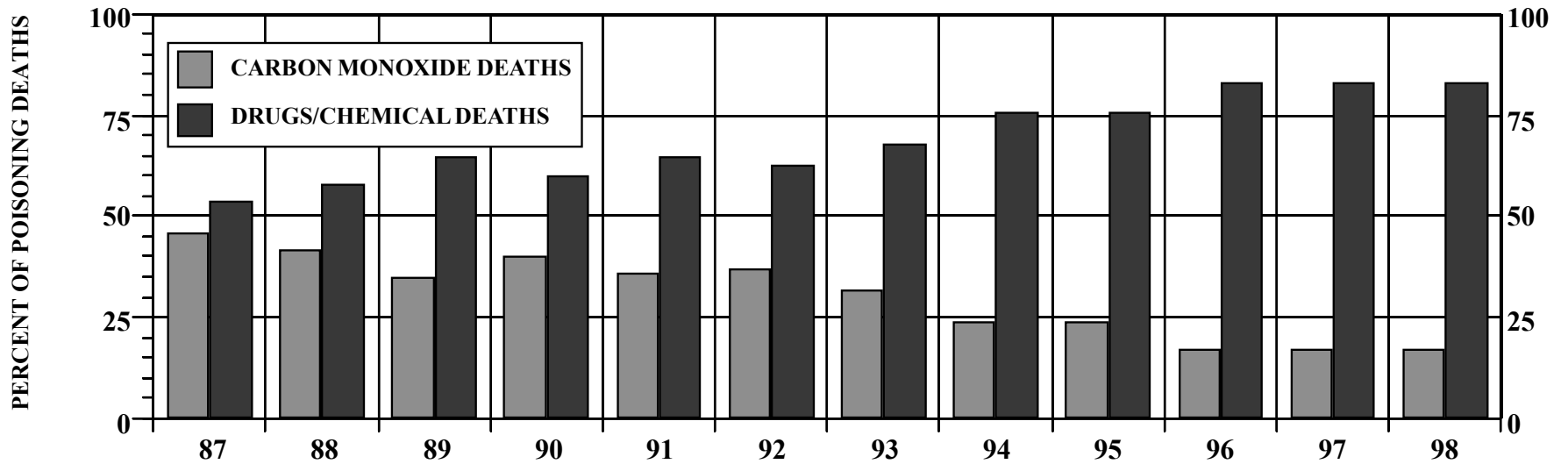
NOTE: These calculations and comparisons are based upon ten or more findings of analyte/group in poisoning deaths.

\*Analyte/group found less than 10 times in poisoning deaths.

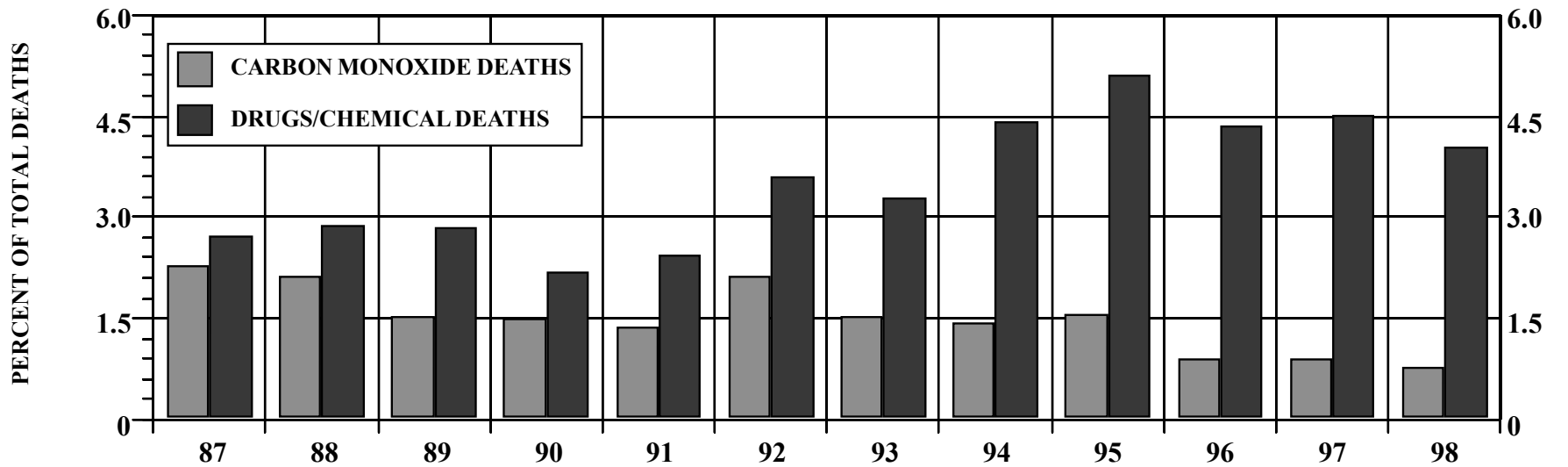
\*\*Testing for this group or agent (*in italics*) performed by request.

\*\*\*Antidepressants listed as Bases in "Agents Included in Drug Groups" (p. 186).

### TRENDS IN FATAL POISONINGS



### TRENDS IN FATAL POISONING



# TOXICOLOGY LABORATORY REPORT


## EFFECT OF COCAINE ON THE RE-UP TAKE OF NEUROTRANSMITTERS

# TOXICOLOGY

 **PRE-SYNAPTIC NEURON**  
MESSAGE SENDING NERVE CELL


 **POST-SYNAPTIC NEURON**  
MESSAGE RECEIVING NERVE CELL

 **VESICLES**  
NEUROTRANSMITTER STORAGE UNIT

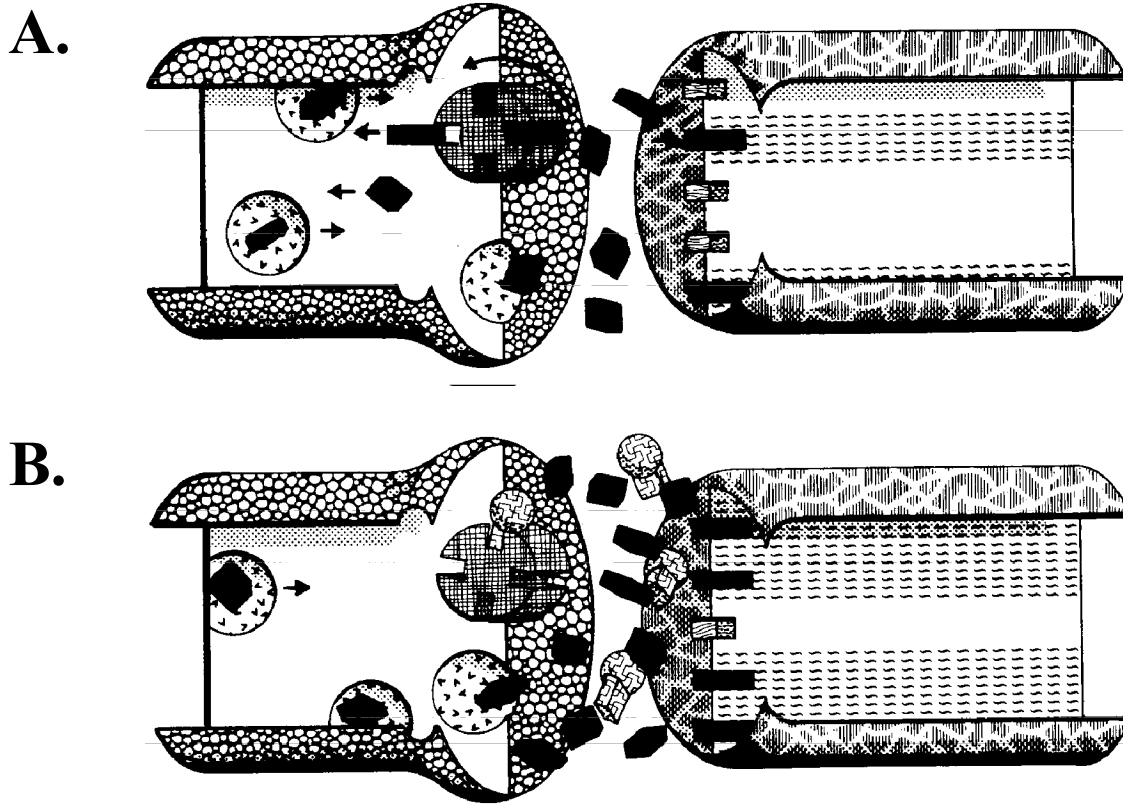
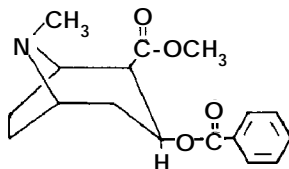
 **NEUROTRANSMITTERS**  
IN PARTICULAR:  
DOPAMINE  
SERATONIN  
NOREPINEPHRINE

 **RECEPTOR SITE**

 **ELECTRICAL IMPULSE**  
NERVE STIMULATION

 **RE-UP TAKE PUMP**  
NEUROTRANSMITTER  
RETRIEVAL AND TRANSPORT  
MECHANISM

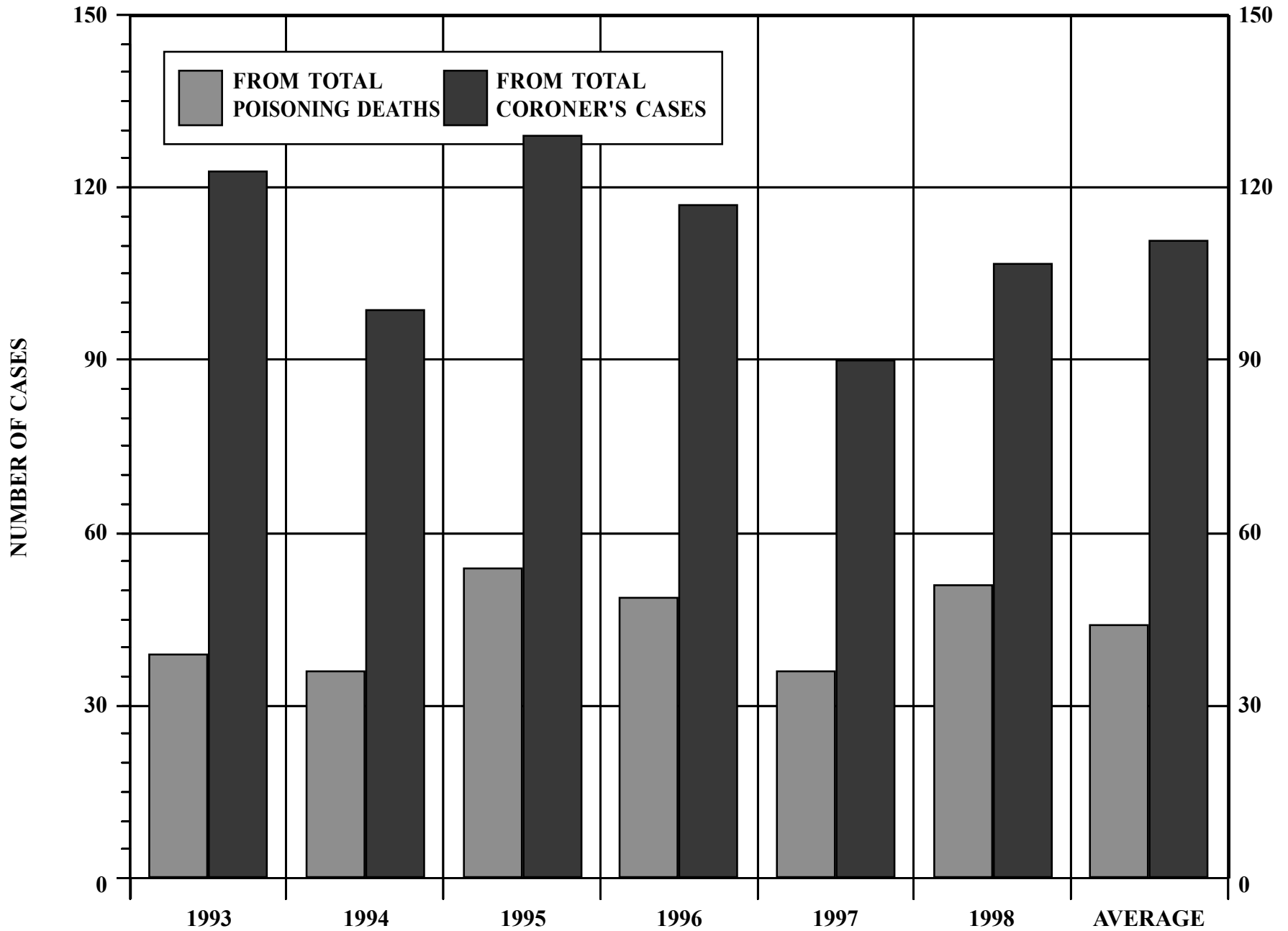
 **COCAINE MOLECULE**



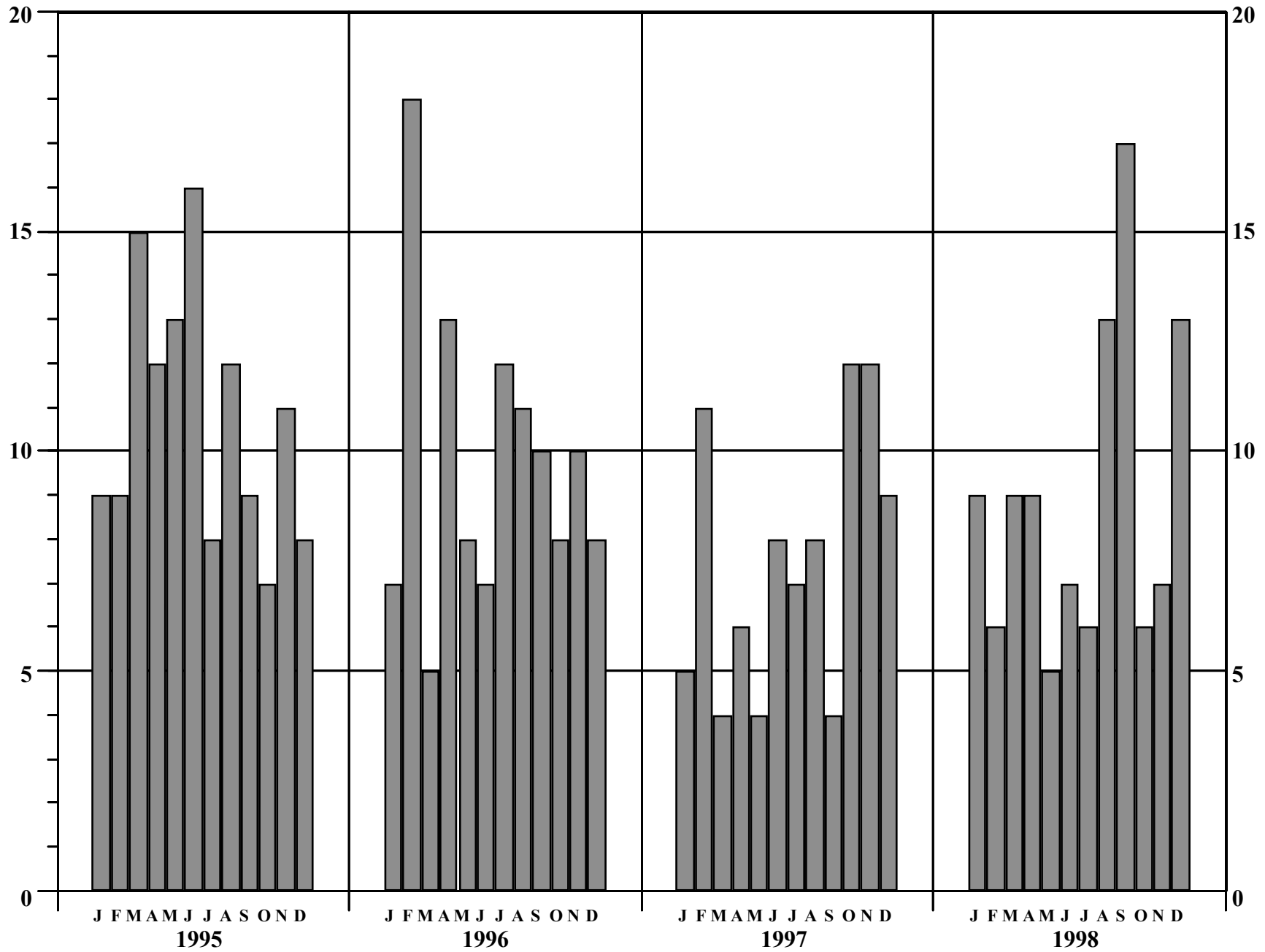
Among the many effects of cocaine are those that involve the blockage of the re-uptake of neurotransmitters in various nerve tracks within the brain. Under normal circumstances (A), a message is sent along a nerve track by the action of the release of neurotransmitters from vesicles within the pre-synaptic neuron into the space (synaptic cleft) between two nerve cells. The neurotransmitter(s) diffuses across the gap and acts on a specific receptor site on the post-synaptic neuron. When this occurs, the message is passed along the nerve track by activating this cell to release its chemical messengers to the next cell, and so on down the line. The activity at the receptor site is normally terminated by the retrieval of the neurotransmitter(s) through a re-uptake pump by the cell which had originally released the chemical messengers. This terminates the stimulation of the receiving cell, and the passing of the original message is completed.

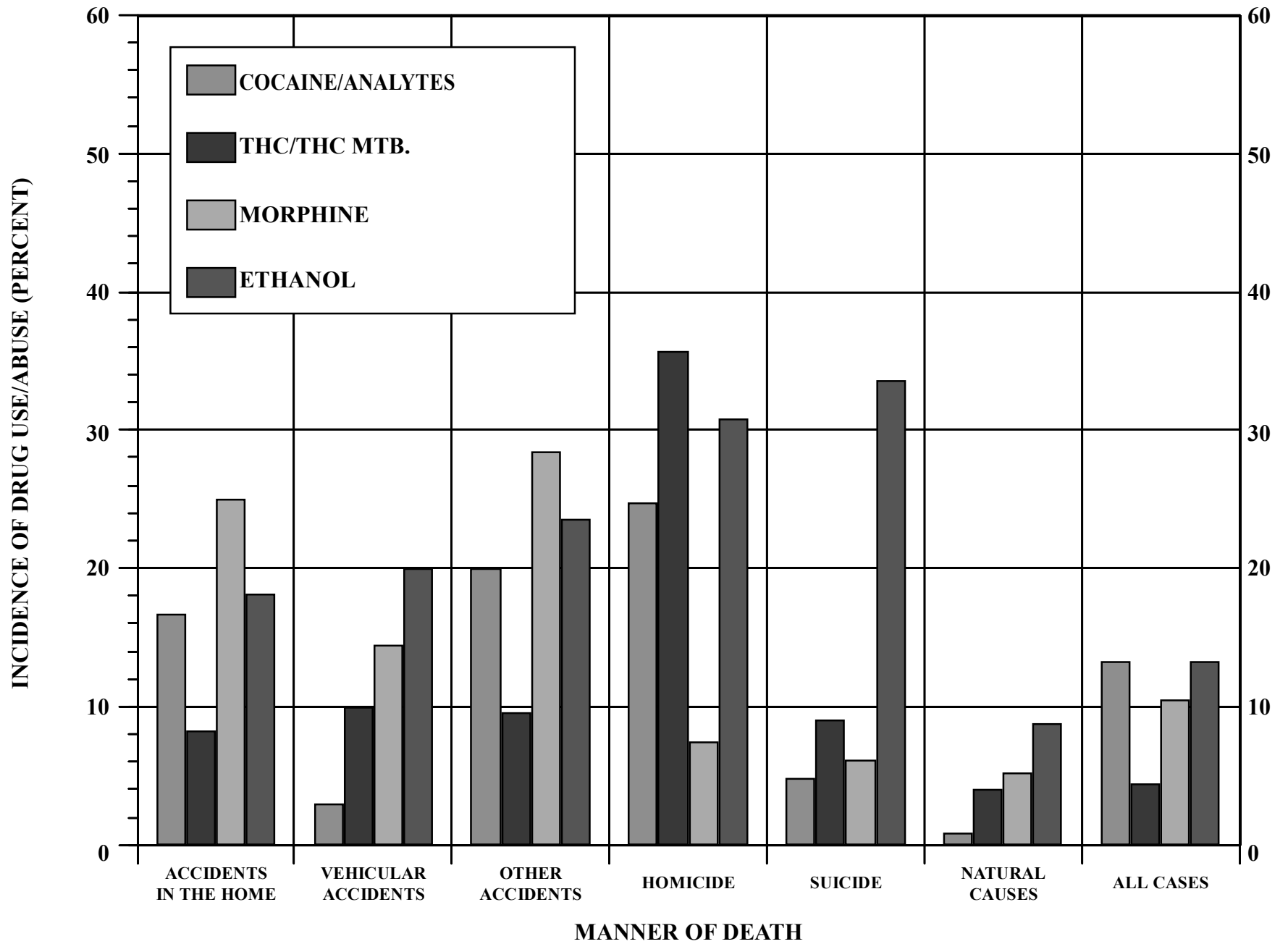
When cocaine is present (B), the drug serves to block the re-uptake mechanism of the nerve cell; hence, the neurotransmitter remains in the synaptic cleft and continues to stimulate the next cell in line. This increased activity leads to, in the case of dopamine or limbic "reward" pathways, the perceived "rush" feelings that are associated with the abuse of cocaine. With the sympathetic nervous system this leads to increase in heart rate and blood pressure.

TREND IN COCAINE METABOLITE INCIDENCE 1993 - 1998



TREND IN MONTHLY COCAINE CASE INCIDENCE 1995 - 1998







# 1998 TRACE EVIDENCE LABORATORY REPORT

## SUMMARY

CASES	NUMBER OF CASES	PERCENT OF TOTAL CASES	SPECIMENS*	AVERAGE SPECIMENS PER CASE	TESTS	AVERAGE TESTS PER CASE
CORONER'S	685	22.1	7,580	11.1	17,176	25.1
OUT OF COUNTY	74	72.5	1,293	17.5	3,454	46.7
NONFATAL	92	-	1,505	16.4	1,955	21.3
OUT OF COUNTY NONFATAL	17	-	213	12.5	483	28.4
TOTAL	868	23.7**	10,591	12.2	23,068	26.6

\*Includes specimens from bodies and evidence.

\*\*Does not include nonfatal cases.

# TRACE EVIDENCE LABORATORY REPORT

## SUMMARY OF COURT APPEARANCES

In 1998, Trace Evidence personnel made 46 court appearances in 46 cases (33 Cuyahoga County Coroner's cases, 2 out of county cases, 9 nonfatal cases, and 2 out of county nonfatal cases).

Time away from office for court appearances: 164 hours and 10 minutes.

Actual time testifying at court: 25 hours and 47 minutes.

**TABLE 94**

**NUMBER OF SPECIMENS RECEIVED**

CASES	TOTAL NUMBER OF CASES	SPECIMENS RECEIVED FOR SEROLOGICAL TESTING	OTHER SPECIMENS RECEIVED FOR ANALYSIS AND IDENTIFICATION	TOTAL
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**SPECIMENS FROM BODIES**

CORONER'S CASES	685	1,853	3,420	5,273
OUT OF COUNTY	74	253	180	433
NONFATAL	92	1,264	241	1,505
OUT OF COUNTY NONFATAL	17	146	67	213
<b>TOTAL</b>	<b>868</b>	<b>3,516</b>	<b>3,908</b>	<b>7,424</b>

**EVIDENCE**

RE: CORONER'S CASES	127	1,358	812	2,170
RE: OUT OF COUNTY	24	523	337	860
SCENE VISIT RE: CORONER'S CASES	19	85	52	137
SCENE VISIT RE: OUT OF COUNTY	-	-	-	-
SCENE VISIT RE: NONFATAL	-	-	-	-
SCENE VISIT RE: OUT OF COUNTY NONFATAL	-	-	-	-
<b>TOTAL</b>	<b>170</b>	<b>1,966</b>	<b>1,201</b>	<b>3,167</b>

<b>GRAND TOTAL</b>	<b>1,038</b>	<b>5,482</b>	<b>5,109</b>	<b>10,591</b>
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1998 TRACE EVIDENCE LABORATORY REPORT

**NUMBER OF TESTS PERFORMED**

**TABLE 94A**

CASES	TOTAL NUMBER OF CASES	SEROLOGICAL TESTING ON SPECIMENS RECEIVED	ANALYSIS AND IDENTIFICATION OF SPECIMENS RECEIVED	TOTAL
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**TESTS ON SPECIMENS FROM BODIES**

CORONER'S CASES	685	4,859	2,691	7,550
OUT OF COUNTY	74	2,101	192	2,293
NONFATAL	92	1,264	691	1,955
OUT OF COUNTY NONFATAL	17	426	57	483
<b>TOTAL</b>	<b>868</b>	<b>8,650</b>	<b>3,631</b>	<b>12,281</b>

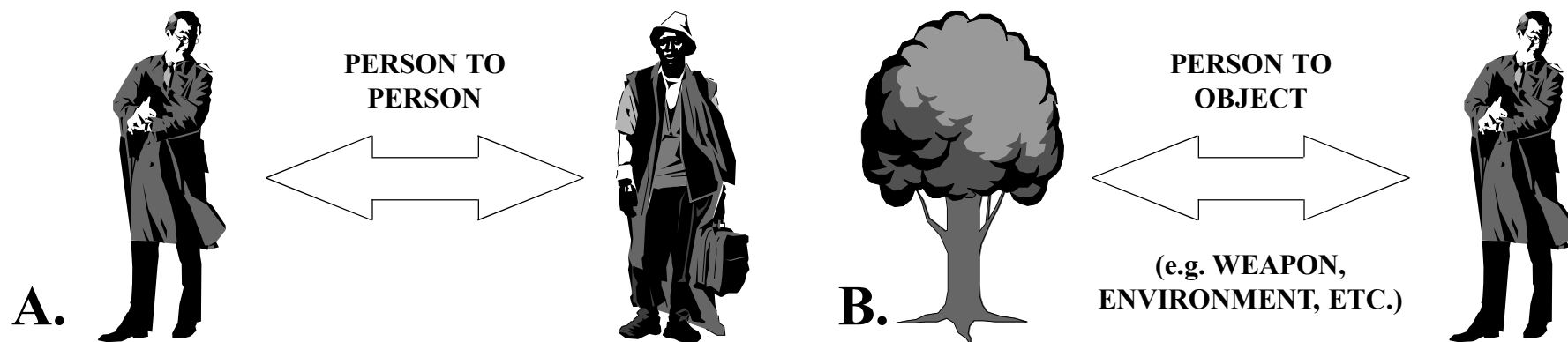
**TESTS ON EVIDENCE**

RE: CORONER'S CASES	127	4,175	1,336	5,511
RE: OUT OF COUNTY	24	923	238	1,161
SCENE VISIT RE: CORONER'S CASES	19	3,993	122	4,115
SCENE VISIT RE: OUT OF COUNTY	-	-	-	-
SCENE VISIT RE: NONFATAL	-	-	-	-
SCENE VISIT RE: OUT OF COUNTY NONFATAL	-	-	-	-
<b>TOTAL</b>	<b>170</b>	<b>9,091</b>	<b>1,696</b>	<b>10,787</b>

<b>GRAND TOTAL</b>	<b>1,038</b>	<b>17,741</b>	<b>5,327</b>	<b>23,068</b>
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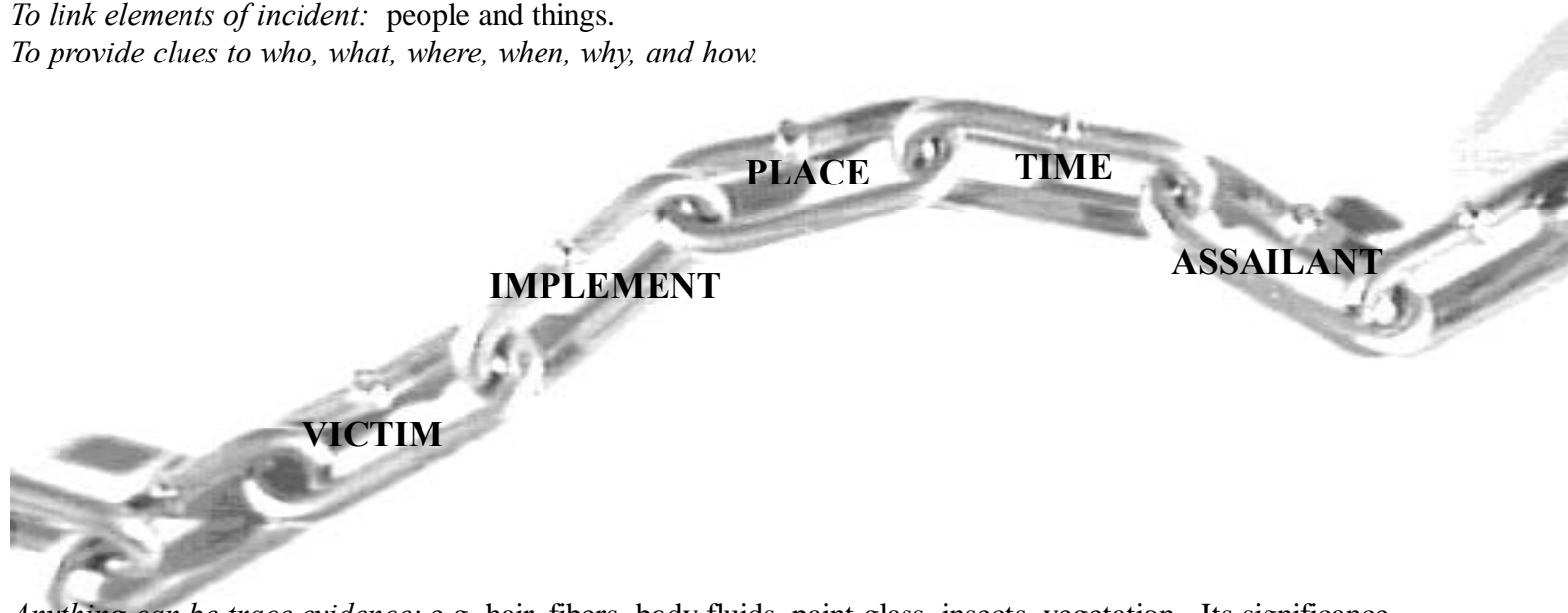
TRACE EVIDENCE

- I. **LOCARD'S PRINCIPLE:** *Contact produces a transfer and exchange of body fluids, hair, fibers, etc.*
  - A. *Exchange of body fluids, hair, fibers, etc.*
  - B. *Transfer of body fluids, hair, fibers, etc.; of components of objects, contaminants, and imprints.*



## II. OBJECTIVE:

- A. *To link elements of incident: people and things.*
- B. *To provide clues to who, what, where, when, why, and how.*



C. *Anything can be trace evidence; e.g. hair, fibers, body fluids, paint glass, insects, vegetation. Its significance is dependent on its individual characteristics.*

	CUYAHOGA COUNTY CORONER'S OFFICE	OTHER SOURCES*	TOTAL
<b><u>TISSUE SPECIMENS RECEIVED FROM:</u></b>			
AUTOPSIES	1,409	102	1,511
BIOPSIES, SPECIMENS, ETC.			
<b>TOTAL</b>	<b>1,409</b>	<b>102</b>	<b>1,511</b>
BLOCKS PREPARED	24,506	1,599	26,105
SECTIONS PREPARED	40,270	2,603	42,873
<b>TOTAL</b>	<b>64,776</b>	<b>4,202</b>	<b>68,978</b>
<b><u>SLIDES PREPARED AND STAINED:</u></b>			
ROUTINE HEMATOXLIN - EOSIN	25,281	1,650	26,931
<b><u>SPECIAL STAINS FOR THE DEMONSTRATION OF:</u></b>			
ACID FAST BACTERIA	38	2	40
AMYLOID	18		18
BILE PIGMENT	2		2
BROWN AND BRENN	17		17
ELASTIC	7		7
FONTANA	2		2
IRON	201	10	211
METHENAMINE SILVER	81	4	85
MOVAT	12		12
MUCIN		2	2
P.A.S.	43	4	47
PENTACHROME	8		8
WARTHIN-STARRY	4		4
SIMPLE SILVER	20		20
OTHER	17		17
<b>TOTAL</b>	<b>25,751</b>	<b>1,672</b>	<b>27,423</b>

\* Outside autopsies done for other counties and additional cuts and stains for other cases prior to 1998.

The primary purpose of forensic photography at the Coroner's Office is to provide a credible, accurate visual record of medical/legal evidence. Scenes of death or bodily injury, associated evidence, wounds, organ specimens, and recognizable features of identification on a body are available for examination for only a short time. Therefore, all these subjects are routinely photographed. Afterwards, any processing or printing is done within the confines of this office. This is discreet, maintains the uninterrupted chain of possession of evidence, and facilitates the availability of negatives, prints, and slides.

Photography is, as part of a case report, the visual addendum to the written notes and observations of the pathologist, the forensic scientist, and other staff members. It is a teaching aid in lectures and a visual aid in court presentations and published research. It can also stand alone, saying things that words cannot, and be an investigative tool in itself. Besides recording what can be seen with the human eye, it can, through a variety of special techniques, go beyond that. Infrared, ultraviolet, high-contrast, tone-line, transparent overlays, and photomicrography can make the small large, the invisible visible, or otherwise enhance all or some aspect of the photographed subject.

The photo department at this office also has the responsibility and the resources to produce graphics (including this report) and three-dimensional constructs. Charts, graphs, and illustrations are utilized in court for teaching or publication purposes as succinct, effective ways for visually organizing and presenting large quantities of facts and figures. For the same purposes, crime scene reconstructions or other scale models can make a scientific or technical point or investigative process more accessible to jurors, students, or law enforcement personnel in a way that verbal description cannot.

The addition of computer equipment has augmented the talents and capabilities, both human and mechanical, present within this department. The investigative potential includes electronic image

enhancement for evidence, and computer aided design for answering spatial relation questions encountered in scene and accident reconstruction. Graphic assignments are completed more quickly and efficiently with the aid of desktop publishing and graphics software. The incorporation of computer technology within the photo department will better serve the citizens of Cuyahoga County.

<b>IDENTIFICATION PICTURES*</b>	<b>3,198</b>
<b>PICTURES OF BODIES, EVIDENCE AND SCENES</b>	<b>23,180</b>
<b>5" X 7" COLOR PRINTS PRODUCED</b>	<b>27,670</b>
<b>COLOR SLIDES ADDED TO THE FILE</b>	<b>621</b>
<b>BLACK AND WHITE PRINTS</b>	<b>75</b>
<b>POLAROID PRINTS</b>	<b>63</b>
<b>COMPUTER-GENERATED TYPE SLIDES PRODUCED</b>	<b>584</b>
<b>CHARTS AND GRAPHS PRODUCED</b>	<b>88</b>
<b>COMPUTER GRAPHICS</b>	<b>41</b>
<b>CAD** SCENE AND/OR EVIDENCE ANALYSIS</b>	<b>1</b>
<b>DIGITIZED OR COMPUTER ENHANCED IMAGES</b>	<b>617</b>
<b>SCALE MODELS</b>	<b>0</b>

\*Includes 102 out of county cases.

\*\*Computer-aided design software

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# ODONTOLOGY

EXAMINATIONS	CUYAHOGA COUNTY CORONER'S CASES	OTHER CORONERS CASES	TOTAL
NUMBER OF CASES EXAMINED	18	6	24
DENTAL CHARTING	19	6	25
INTRA-ORAL X-RAYS	19	6	25
COMPARISON WITH ANTEMORTEM DENTAL RECORDS	16	6	22
EXTRACTIONS FOR AGE ESTIMATIONS	2	0	2
BITE MARK ANALYSIS	2	2	4
FULL DENTURE ANALYSIS	0	1	1
SINGLE TOOTH ANALYSIS	0	0	0

The utilization of radiographic investigation in the Coroner's Office can be grouped under the following general broad headings:

1. **Foreign body identification and localization.**
2. **Documentation of the type and extent of traumatic injuries.**
3. **The identification of congenital anomalies affecting the skeleton.**
4. **Demonstration of underlying diseases which may or may not be related to the cause of death.**
5. **Investigative uses in conjunction with studying specific details.**
6. **Identification of persons in mass catastrophies or a single unknown victim.**

Foreign body identification and localization constitutes the major use of the X-ray equipment. The extent, number and position of the bullets or radiopaque materials can be documented rapidly with a great saving in time of examination and with high accuracy. If a bullet is not present, a search need not be conducted. Conversely, if a bullet is present it has to be recovered.

Radiographs give an accurate documentation of the fractures and traumatic effects of the soft tissue organs unobtainable in other ways.

Radiology plays an important role in establishing a record of either the normal or abnormal features of the part of the body in question. The use of X-rays to discern multiple pre-existing injuries of specific type and recognizable pattern in a child, living or dead, is now well known in establishing "*The Battered Child Syndrome*".

The Cuyahoga County Coroner's Office utilized radiographs in identifying many of the victims of the East Ohio Gas Company disaster in 1944. In instances where visual recognition is dubious or impossible radiographs may provide identifying information. Studies of postmortem radiographs and comparable radiographs taken during life may serve to confirm or exclude a tentative identification.


The immediate availability of diagnostic radiographic equipment in the Coroner's Office offers the forensic pathologist an invaluable tool which aids in performing the autopsy, saving time, as well as accurately documenting pathologic changes.

**Two thousand sixty-two (2062) radiographs were made in 1998 of inside cases.**

**Ninety-five (95) radiographs were made in 1998 of outside cases.**



# ANTHROPOLOGY



<b>Number of Cases:</b>	12
<b>Remains not Human:</b>	4
<b>Field Recoveries</b>	1
<b>Cases for Other Counties</b>	-
<b><u>Human Remains</u></b>	
<b>Positive Identification:</b>	5
<b>Demographic Profiles:</b>	8
<b>Facial Reconstructions:</b>	2

## 1998 LECTURES GIVEN BY MEMBERS OF THE STAFF

### Elizabeth K. Balraj, M.D., Coroner

- January** Brooklyn Chamber of Commerce, "Investigation of Violent and Suspicious Deaths; Utilization of DNA Technology."
- February** American Academy of Forensic Sciences, Annual Meeting at San Francisco, California, oral presentation; "Incidence of Pulmonary Hemosiderosis in Infants Dying Suddenly (a Retrospective and Prospective Review of Cuyahoga County Coroner's Cases, including case control study)."
- March** Cleveland Bar Association , "Anatomy of Murder;" Panelist.
- South West General Hospital, "Coroner's Role in Trauma Deaths."
- Network of Indian Professionals, Cleveland Chapter Career Round Table, Speaker.
- St. Augustine Academy, "Duties and Functions of Cuyahoga County Coroner."
- May** Ohio Trial Lawyers Annual Seminar, Cincinnati, Ohio, "Medical Negligence."
- Domestic Violence Seminar Hosted by City of Cleveland Prosecutor's Office; Division of Police and Witness Victim Service Center of Cuyahoga County, "Domestic Violence Related Homicides."
- June** Cleveland Police Academy, "Duties and Functions of Cuyahoga County Coroner."
- Cuyahoga County Children and Family Services Special Investigation Unit, "Investigation of Death of Children."
- July** Cleveland Health Museum, "Duties and Functions of Cuyahoga County Coroner."
- September** Cuyahoga County Prosecutor's Office, "Training Seminar - Homicide Investigation by Coroner."
- Case Western Reserve University Law School, "Duties and Functions of Cuyahoga County Coroner."
- Life Banc Seminar, "Preservation of Evidence in Pediatric Donation."
- October** Larry Robinson Show, Channel 50 - Interview, "Cuyahoga County Coroner, Duties and Functions."
- November** Embalmers Association of Cuyahoga County; "Coroner's Procedures and Policies."

## 1998 LECTURES GIVEN BY MEMBERS OF THE STAFF (continued)

### Joseph A. Felo, D.O., Deputy Coroner

**January** Ohio College of Podiatric Medicine, "Male Genitourinary Pathology."

**March** Ohio College of Podiatric Medicine, "Gastrointestinal Pathology."

**August – Dec.** Demonstration Autopsies (three)

### Stela Miron, M.D., Deputy Coroner

**March** Medical Scientist Training Program, Case Western Reserve University (participants were M.D.'s, Ph.D.'s and students). "Coroner's Office: Structure and Functions, Role of Forensic Pathologist in the Medicolegal Investigation of Death (Case Presentation)"

**Friday Conf.** "Histological Timing of Wounds" (Jan 98)

"Drowning"

"Hypothermia"

"Fatal Chlorine Poisoning"

**January – Nov.** Autopsy Demonstrations (nine)

**December** Participant to training workshop on, "Population Statistics in the DNA Analysis."

### Carlos Santoscoy Jr., M.D., Deputy Coroner

**March** Case Western Reserve University Medical School, Pulmonary Committee.

**February – Dec.** Demonstration Autopsies.

### Stanley Seligman, M.D., Deputy Coroner

**January - Dec.** Demonstration Autopsy Classes (eight)

**June** Police Academy Lectures (two)

## 1998 LECTURES GIVEN BY MEMBERS OF THE STAFF (continued)

### Linda M. Luke, B.S., Trace Evidence Chief Forensic Serologist, DNA Technical Manager Supervisor, DNA Section

- January** The Cuyahoga Valley Business Association, "DNA".
- March** Orange Village, Emergency Medical Squad and Fire Department, "Protection of Evidence".
- April** Strongsville High School Students - "Trace Evidence".
- Pathologists of the Cuyahoga Coroner's Office - "Trace Evidence/DNA".
- Meridia South Pointe Hospital - Trace Evidence, Sexual Assault and Collection.
- Cleveland Homicide Unit - "Evidence Collection and Proper Sealing and Labeling of Evidence".
- Cleveland Clinic Emergency Department - "Rape Kit".
- May** Pathologists of the Cuyahoga Coroner's Office - Part I and II "DNA".
- June** Pathologists of the Cuyahoga Coroner's Office "Part III and IV "DNA".
- July** FBI - "Trace Evidence/DNA" - Tour.
- Cleveland Health Museum Students - "Trace Evidence Department Tour".
- Detectives, Patrolmen and Evidence Technicians from the following municipalities were trained in an intensive, hands-on, mock crime scene format:
- Walton Hills - Part I and II, North Randall, North Randall, Glenwillow, Middleburg Heights - Part I "Crime Scene Seminar Workshop".
- August** Detectives, Patrolmen and Evidence Technicians from the following municipalities were trained in an intensive, hands-on, mock crime scene format:
- Linndale, Metroparks, Seven Hills, Independence, Parma Heights, Gates Mills, Highland Heights, Lyndhurst, Mayfield Heights, Mayfield Village and Richmond Heights - "Crime Scene Seminar Workshop".
- September** Detectives, Patrolmen and Evidence Technicians from the following municipalities were trained in an intensive, hands-on, mock crime scene format:
- Garfield Heights, Chagrin Falls, Bedford, Strongsville and Brooklyn - "Crime Scene Seminar Workshop".
- Prosecutor Lectures - Part I and II, "Trace Evidence/DNA" - Tour.
- Case Western Law students - "Trace Evidence/DNA".

## 1998 LECTURES GIVEN BY MEMBERS OF THE STAFF (continued)

**October** Detectives, Patrolmen and Evidence Technicians from the following municipalities were trained in an intensive, hands-on, mock crime scene format:  
Middleburg Heights - Part II - Crime Scene Seminar Workshop.

**November** Criminal Justice, Kent State University - Trace Evidence.  
Juvenile Prosecutor Lecture - Trace Evidence/DNA.

### Elizabeth Lansky, Trace Evidence, BS and BA Degree

**June** Cleveland Police Department Academy  
Juvenile Court Prosecutors

**November** Ohio State Highway Patrol (two)

### Shadowing Students

Carolyn Cvar, Ohio University  
Liz Delp, Strongsville High School  
Ann Huml, Ohio State University  
Bella Gandhi  
Nellie Gertsburg, Brush High School

### Kay May, Trace Evidence, BS Degree

### Shadowing Students

### Toxicology Department

**April** C.D. Poloha, L.D. Wilkins, and A.J. Jenkins: Drug Use in Homicide Victims in a Midwestern Metropolitan County: A Seven Year Study. Advances in Clinical and Forensic Toxicology V, Annual Meeting of the Midwestern Association for TDM and Toxicology, Columbus, OH.

L.M. Vinsick, S. Miron and A.J. Jenkins: Three Clozapine Related Fatalities. Advances in Clinical and Forensic Toxicology V, Annual Meeting of the Midwestern Association for TDM and Toxicology, Columbus, OH.

**June** A.J. Jenkins: Forensic Toxicology-Interaction with Law Enforcement. Cleveland Police Department, Academy Class of 1998, Cleveland OH [Sessions 1 and 2].

## 1998 LECTURES GIVEN BY MEMBERS OF THE STAFF (continued)

**September** A.J. Jenkins: Forensic Toxicology-What Prosecutors Need To Know. Cuyahoga County Prosecutor's Office Lecture Tour, Cleveland, OH [Sessions 1 and 2].

A.J. Jenkins: Forensic Toxicology. In *Scientific Evidence Class*. Case Western Reserve University School of Law, Cleveland, OH.

**October** D.A. Engelhart and A.J. Jenkins: Identification of Cocaine, Opiates and Their Metabolites in Nails from Postmortem Cases. Joint Meeting of the Society of Forensic Toxicologists and The International Association of Forensic Toxicologists, Albuquerque, NM.

A.J. Jenkins: The Effect of Route of Administration and Rate of Delivery on the Appearance of Drugs in Saliva. In *Pharmacology and Analytical Toxicology of Drugs in Saliva Workshop*. Joint Meeting of the Society of Forensic Toxicologists and The International Association of Forensic Toxicologists, Albuquerque, NM.

A.J. Jenkins and E.J. Cone: Disposition of Heroin and Metabolites in Multiple Biological Matrices after Low Dose Oral Heroin Administration in Humans. Joint Meeting of the Society of Forensic Toxicologists and The International Association of Forensic Toxicologists, Albuquerque, NM.

E.J. Cone, A.J. Jenkins, W.D. Darwin, M.L. Smith, J. Summers, E. Shimomura, and B.D. Paul: Detection Times of Morphine and 6-Acetylmorphine in Urine after Intravenous Heroin. Joint Meeting of the Society of Forensic Toxicologists and The International Association of Forensic Toxicologists, Albuquerque, NM.

E.S. Lavins, H.M. Wogoman, and A.J. Jenkins: Mirtazapine (Remeron®) Detection of a New Antidepressant in Postmortem Cases. Joint Meeting of the Society of Forensic Toxicologists and The International Association of Forensic Toxicologists, Albuquerque, NM.

E.S. Lavins, R.L. Cechner, and A.J. Jenkins: Y2K The Year 2000 Computer Bug, Concerns of a Coroner's Office and Toxicology Laboratory. Joint Meeting of the Society of Forensic Toxicologists and The International Association of Forensic Toxicologists, Albuquerque, NM.

**November** A.J. Jenkins: Forensic Toxicology. Clinical Pathology Conference Series. Department of Pathology, School of Medicine, Case Western Reserve University, Cleveland, OH.

A.J. Jenkins: Detection and Interpretation of Illicit Drug Use in Surgery Patients. ANAES 456. Department of Anaesthesiology, School of Medicine, Case Western Reserve University, Cleveland, OH.

### 1998 Toxicology Department Interns

**January- Mar.** Jennifer Chow, Case Western University School of Medicine, Cleveland, OH [ELECTIVE].

**February-Apr.** SeAnna Periandri, Ursuline College, Cleveland, OH [INTERNSHIP]

**June-August** Erica Horak, Ohio University, Athens, OH [INTERNSHIP].

**December:** Janelle Sprachtmann, Polaris Career Center, Middleberg Heights, OH [SHADOWING EXPERIENCE].

## 1998 LECTURES GIVEN BY MEMBERS OF THE STAFF

### Ron Abrams, Past Administrative Assistant

- July** Tour of the Cuyahoga County Coroner's Office for "The Leaders of Tomorrow Program," funded by the Cuyahoga County Juvenile Court.
- November** Tour of the Cuyahoga County Coroner's Office for "The Youth Employment Program, 1468 West 25<sup>th</sup> Street, Cleveland, Ohio
- Tour of the Cuyahoga County Coroner's Office for the Lake County Victim Assistance Task Force
- December** "The Duties and Functions of the Cuyahoga County Coroner's Office for the Garfield Heights High School Biology Students
- Airport Emergency Plan Review and Table Top Exercise at the Aircraft Rescue and Fire Fighting (ARFF), Cleveland Hopkins International Airport, Cleveland, Ohio

### James Wentzel, Forensic Photographer

- February** *The State of Ohio vs. Lamont Clark and other Computer Reconstructions*. Slide presentation and lecture regarding expert testimony for Evidence Class at the University of Akron Law School; Akron, Ohio
- July** *Crime and Accident Scene Documentation*. Detectives, Patrolman and Evidence Technicians from the following municipalities were trained in an intensive, hands-on, mock crime scene format: Walton Hills, North Randall, Glenwillow and Middleburg Heights.
- August** *Crime and Accident Scene Documentation*. Detectives, Patrolman and Evidence Technicians from the following municipalities were trained in an intensive, hands-on, mock crime scene format: Linndale, Cleveland Metroparks, Seven Hills, Independence, Parma Heights, Gates Mills, Highland Heights, Lyndhurst, Mayfield Heights, Mayfield Village and Richmond Heights
- September** *Crime and Accident Scene Documentation*. Detectives, Patrolman and Evidence Technicians from the following municipalities were trained in an intensive, hands-on, mock crime scene format: Garfield Heights, Chagrin Falls, Bedford, Strongsville and Brooklyn.
- October** *Crime and Accident Scene Documentation*. Detectives, Patrolman and Evidence Technicians from Middleburg were trained in an intensive, hands-on, mock crime scene format.
- Instructor** "Forensic Training Program," Federal Award Grant #97-DG-G03-7455, Year 2, Byrne Memorial Law Enforcement Assistance Program.

### C. Owen Lovejoy, M.D. Anthropology Consultant

- December** "Becoming Bipedal: A Brief History of Human Locomotion," Departments of Anthropology and Zoology, Miami University.

## 1998 PUBLICATIONS BY MEMBERS AND ASSOCIATES OF THE STAFF

**Engelhart, D.A., Lavins, E.S., and Sutheimer, C.A.:** Detection of Drugs of Abuse in Nails. *J. Anal. Toxicol.* **22:** 314-318 (1998).

**Engelhart, D.A., Lavins, E.S., Hazenstab, C.B., and Sutheimer, C.A.:** Unusual Death Attributed to the Combined Effects of Chloral Hydrate, Lidocaine, and Nitrous Oxide. *J. Anal. Toxicol.* **22:** 246-247 (1998).

**Jenkins, A.J.:** Detecting Drugs of Abuse in Saliva. *Therapeutic Drug Monitoring and Toxicology* **19 (3):** 63-79 (1998). American Association for Clinical Chemistry, Inc.

**Jenkins, A.J., and Cone, E.J.:** Pharmacokinetics Drug Absorption, Distribution and Elimination. In *Handbook on Drug Abuse*. S. Karch, editor. 1998 CRC Press, Inc., Boca Raton, FL.

**Jenkins, A.J., and Lavins, E.S.:** 6-Acetylmorphine Determination in Postmortem Cerebrospinal Fluid. *J. Anal. Toxicol.* **22:** 173-175 (1998).

**Jenkins, A.J., Sarconi, K., and Raaf, H.:** Determination of Olanzapine in a Postmortem Case. *J. Anal. Toxicol.* **22:** 605-609 (1998).

**Lovejoy, C. Owen and Tague, R.G.:** AL 228-1--Lucy or Lucifer: gender confusion in the Pliocene. *Journal of Human Evolution.* **35 :** 75-94(1998)





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