

A nighttime photograph of the Cleveland skyline, Ohio, viewed from across the water. The city lights are reflected on the water's surface. The text is overlaid on the image in a yellow, cursive font.

50<sup>th</sup>  
Coroner's Statistical Report  
Cuyahoga County, Ohio 1988

Cleveland, Ohio









# **CUYAHOGA COUNTY CORONER'S STATISTICAL REPORT**

**1988**

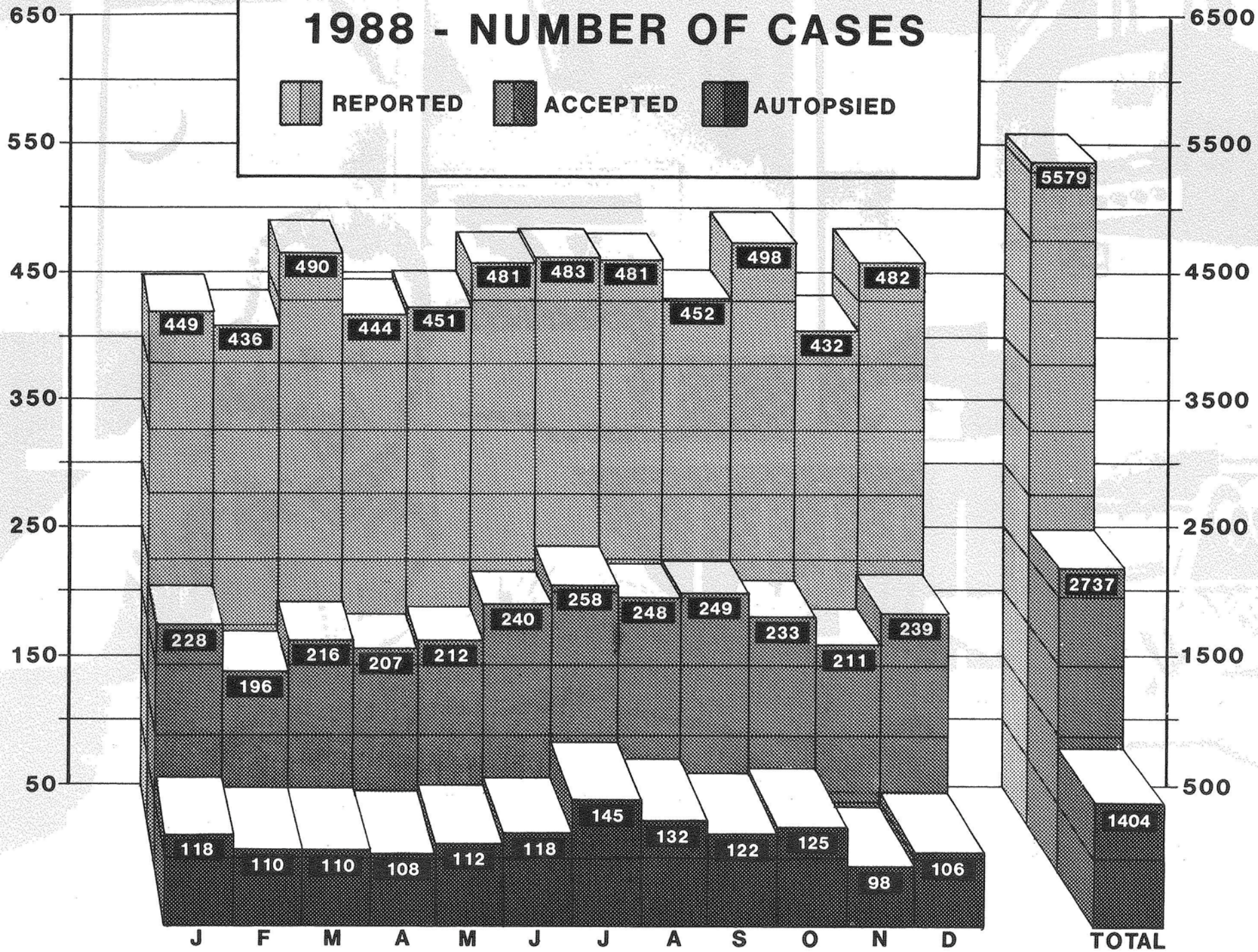
**ELIZABETH K. BALRAJ, M.D.  
CORONER**

**SAMUEL R. GERBER BUILDING  
2121 ADELBERT RD., CLEVELAND, OHIO 44106**



# 1988 - NUMBER OF CASES

REPORTED
  ACCEPTED
  AUTOPSIED





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

This year's statistical report, the fiftieth produced by this office, contains photographs of representative graphs and tables from past reports.

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# INTRODUCTION



County of Cuyahoga  
CORONER'S OFFICE

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

**Coroner**

**AUGUST, 1989**

The fiftieth annual report of the Cuyahoga County Coroner's Office has been prepared in accordance with our tradition of continuity, consistency and forward progress. As we look back at the past fifty years we are gratified to note the contribution that this institution has made in the service towards our community and in the development and growth of various disciplines of forensic science. As we look ahead at the years to come we are eager to meet the challenges that face us such as utilizing the fields of molecular biology (DNA finger printing) and computer science in the investigation of sudden and violent deaths in order to more effectively serve the public.

This report portrays the unified efforts of all of the coroner's staff. The expertise and the tireless effort of these individuals were utilized in the coroner's investigation during the year 1988, in order to provide for the health, safety and welfare of our community. Therefore this fiftieth annual report is dedicated to each and every member of the Cuyahoga County Coroner's Staff -- present and past in appreciation of their loyal and dedicated service to this office and to our community.





# FOREWORD

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 IN-

CIDENCE BY MONTH-SEX-RACE-AGE-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

"... 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 ..."

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

## AVAILABILITY OF PUBLIC RECORDS

SECTION 149.43 (A) AS USED IN THIS SECTION:

(1) "PUBLIC RECORD" 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 MEDICAL 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) "CONFIDENTIAL LAW ENFORCEMENT INVESTIGATORY RECORD" 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) "MEDICAL RECORD" 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 MEDICAL CONDITION OF A PATIENT AND THAT IS GENERATED AND MAINTAINED IN THE PROCESS OF MEDICAL TREATMENT.

(4) "TRIAL PREPARATION RECORD" 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 EVIDENCE 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 AMBULANCE 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, IF 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 CORONER, 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 SELL 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 THEREFOR, 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 RECOGNIZANCES 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 RECOGNIZANCES 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 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 THE 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 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 PROVISIONS 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 OF PERSONAL INFORMATION CONTAINED IN A 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)(2) 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 MEDICAL, PSYCHIATRIC, OR PSYCHOLOGICAL INFORMATION TO A PERSON WHO IS THE SUBJECT OF THE INFORMATION OR TO HIS LEGAL GUARDIAN, UNLESS A PHYSICIAN, 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 MAINTAINED BY THE AGENCY.

(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, TO INSPECT OR HAVE COPIED, PURSUANT TO SECTION 149.43 OF THE REVISED CODE, A 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 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 INDICA-

TIONS 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 A 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 CORONER 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 DISTRIBUTING CORNEAS TO BE USED FOR CORNEAL TRANSPLANTS OR OTHER MEDICAL OR MEDICAL 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 MEDICAL 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.S.C. 1, AS AMENDED.

(B) A COUNTY CORONER WHO PERFORMS AN AUTOPSY PURSUANT TO 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 MEDICAL RESEARCH PURPOSES;

(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 ORGANIZATION 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

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 DAY-CARE 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 DEPARTMENT 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 THE MAKING OF THE REPORTS, OR ANYONE 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 OR 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 IMPLEMENTATION 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 OFFICIAL 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 SUBDIVISION 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 TO 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.

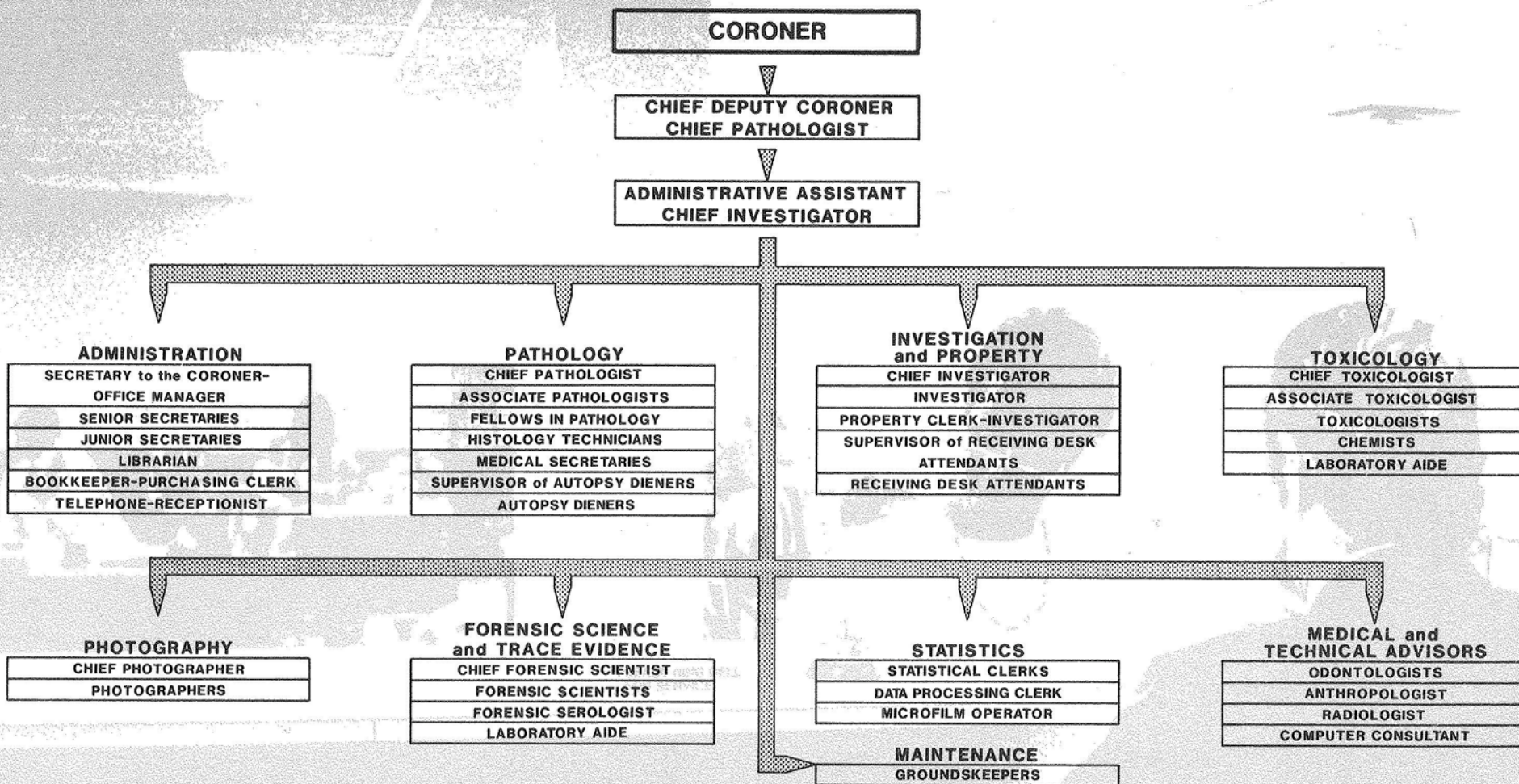
BODY AND INFORMATION RELATIVE TO THE ARMED SERVICES REFERRED TO IN SECTION 3705.26 OF THE REVISED CODE SHALL BE SIGNED BY THE FUNERAL DIRECTOR. THE FUNERAL DIRECTOR SHALL THEN PRESENT THE CERTIFICATE OF DEATH TO THE PHYSICIAN OR CORONER FOR CERTIFICATION OF THE CAUSE OF DEATH. THE MEDICAL CERTIFICATE 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 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.

## 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



# THE CORONER'S STAFF





# THE CORONER'S STAFF

**CORONER. . . . .1**

## ADMINISTRATION

Administrative Assistant - Chief Investigator . . . . .1

Secretary to Coroner - Office Manager . . . . .1

Senior Secretaries . . . . .2

Secretaries . . . . .6

Librarian . . . . .1

Communications Clerk . . . . .1

Bookkeeper - Requisition Clerk . . . . .1

Telephone Operator - Receptionist . . . . .1

## INVESTIGATION AND PROPERTY DEPARTMENT

Investigator - Property Clerks . . . . .2

Desk Attendants . . . . .8

Grounds Keepers . . . . .3

## PATHOLOGY DEPARTMENT

Chief Deputy Coroner - Chief Pathologist . . . . .1

Deputy Coroner - Pathologist . . . . .4

Fellow in Pathology . . . . .1

Histology Technicians . . . . .2

Medical Secretaries . . . . .2

Autopsy Dieners . . . . .3&1\*

## MEDICAL AND TECHNICAL ADVISORS

Odontologists . . . . .2\*

Anthropologist . . . . .1\*

Computer Consultant . . . . .1\*

Radiologist . . . . .1\*

(Technician - included in Autopsy Diener)

## PHOTOGRAPHIC DEPARTMENT

Chief Photographer . . . . .1

Photographers . . . . .2

## STATISTICAL DEPARTMENT

Statisticians . . . . .2

Technical Typist . . . . .1

Microfilm Operator . . . . .1

## TOXICOLOGY DEPARTMENT

Chief Toxicologist . . . . .1

Associate Toxicologist . . . . .1

Toxicologists . . . . .2

Chemists . . . . .3

Technical Typist . . . . .1

Laboratory Aide . . . . .1

## FORENSIC SCIENCE AND TRACE EVIDENCE

Chief Forensic Scientist . . . . .1

Forensic Scientists . . . . .2

Forensic Serologist . . . . .1

Laboratory Aide . . . . .1

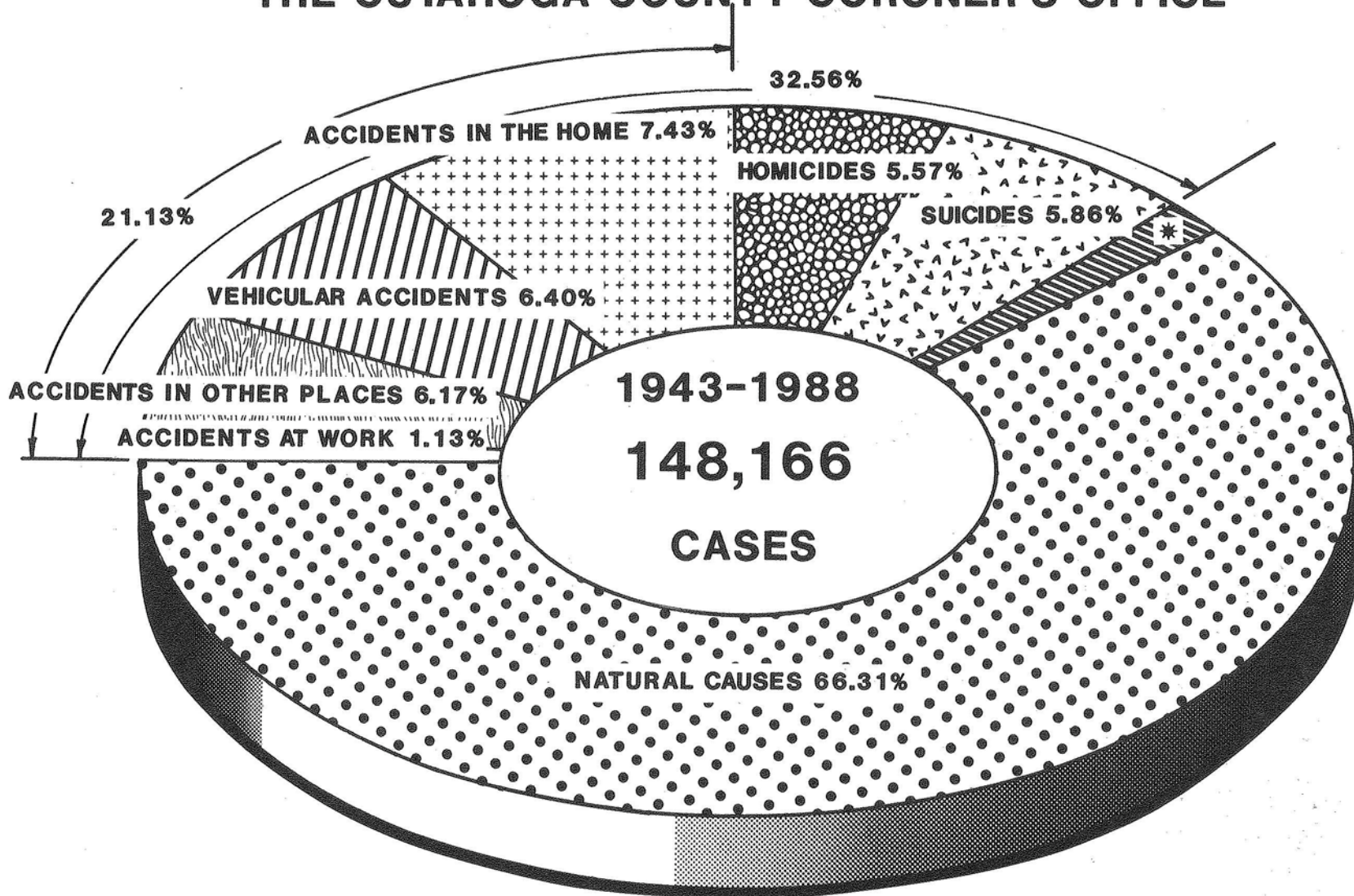
**TOTAL . . . . .52 & 6\***

\* Part Time



# TRENDS

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



DEATHS FROM VIOLENCE: 33.10%

DEATHS FROM NATURAL CAUSES: 66.90%

ABORTIONS: 0.05%

UNDETERMINED CAUSES: 0.17%

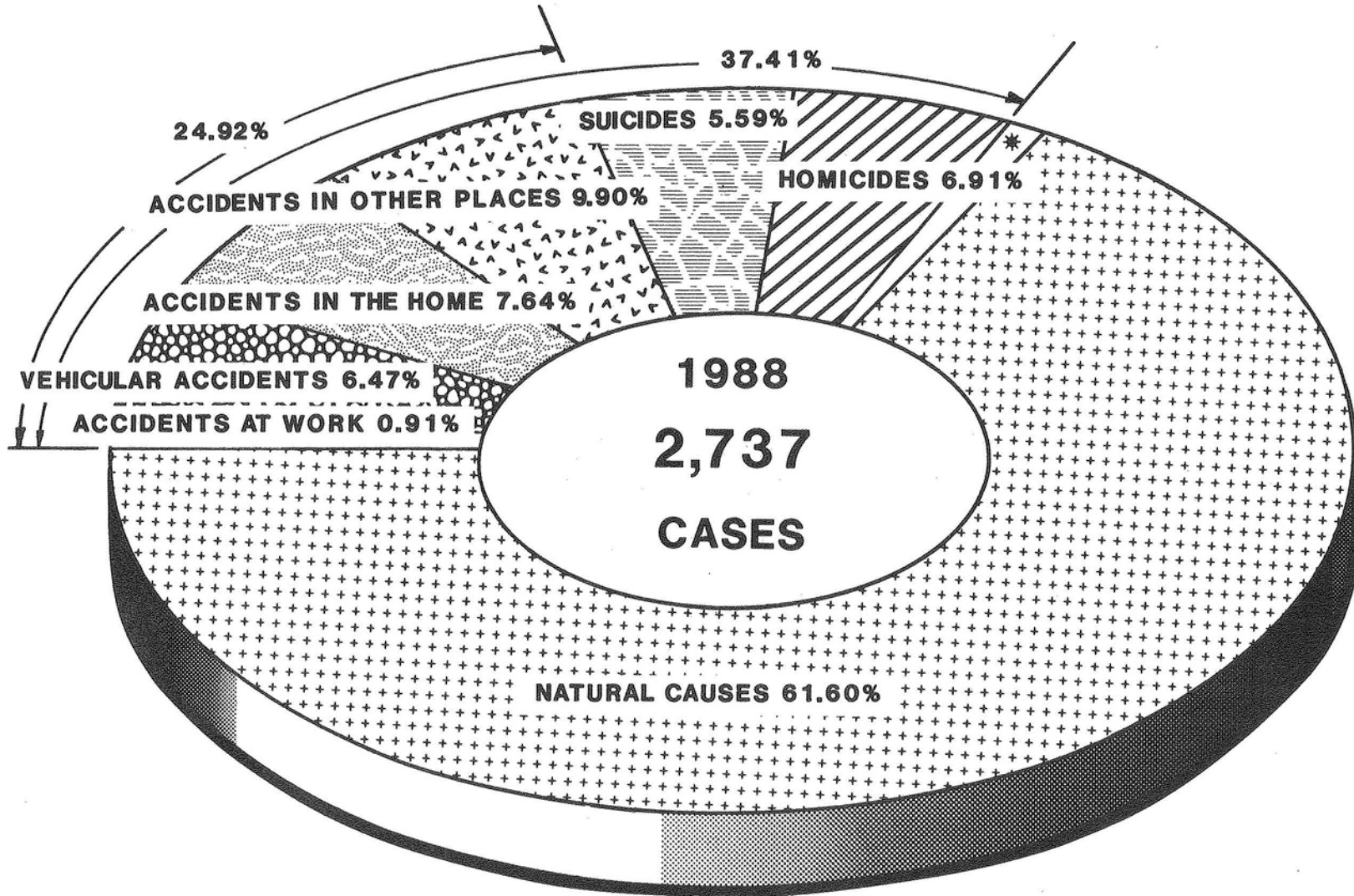
VIOLENCE OF UNDETERMINED ORIGIN: 0.54%

NEONATAL AND INTRA-UTERINE DEATHS: 0.37%

\*



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



DEATHS FROM VIOLENCE: 37.71%

DEATHS FROM NATURAL CAUSES: 62.29%

ABORTIONS: 0.00%

UNDETERMINED CAUSES: 0.51%

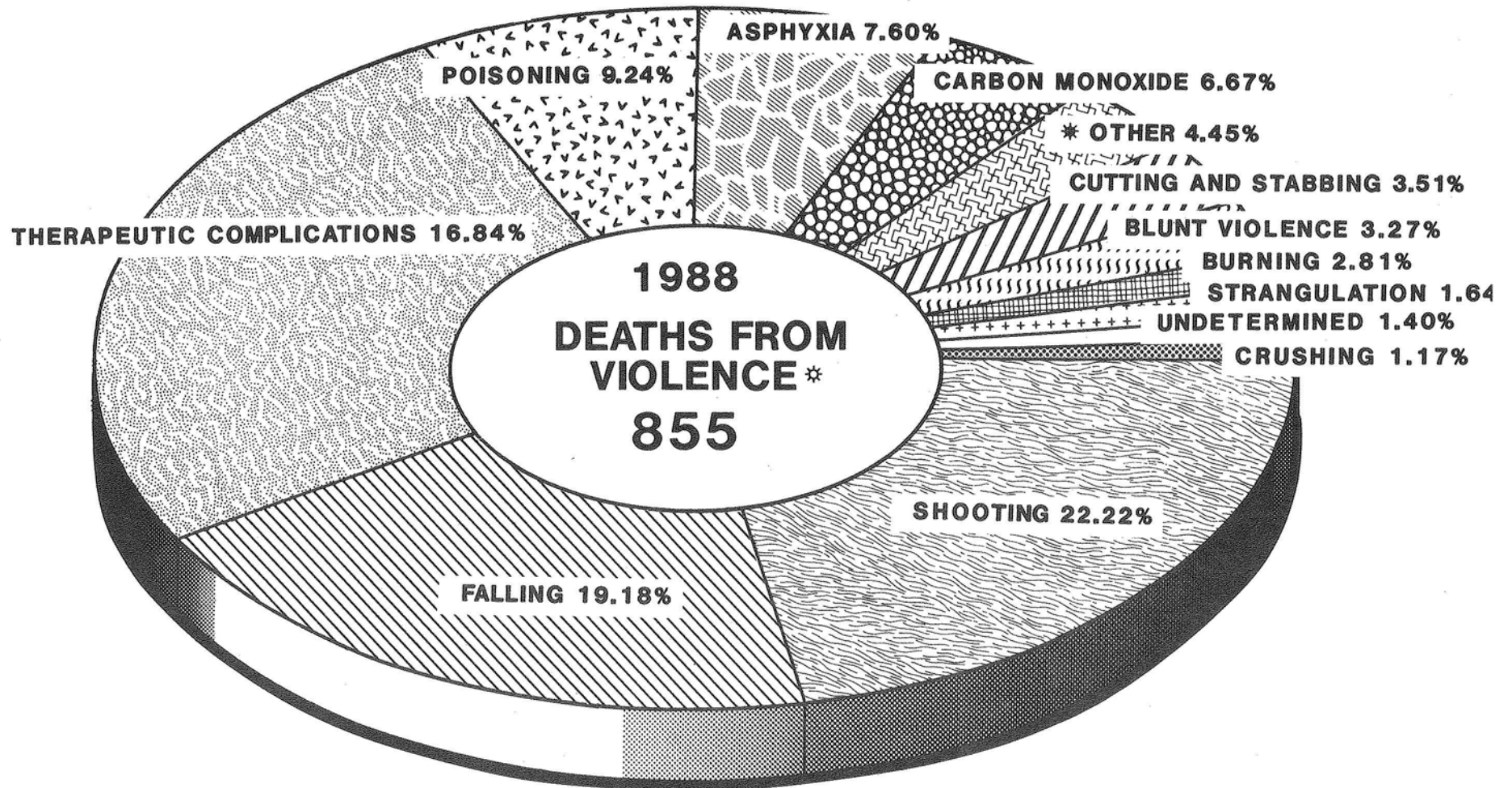
VIOLENCE OF UNDETERMINED ORIGIN: 0.29%

NEONATAL AND INTRA-UTERINE DEATHS: 0.18%

\*



## FATALITIES RESULTING FROM VIOLENCE MODE OF OCCURRENCE 1988

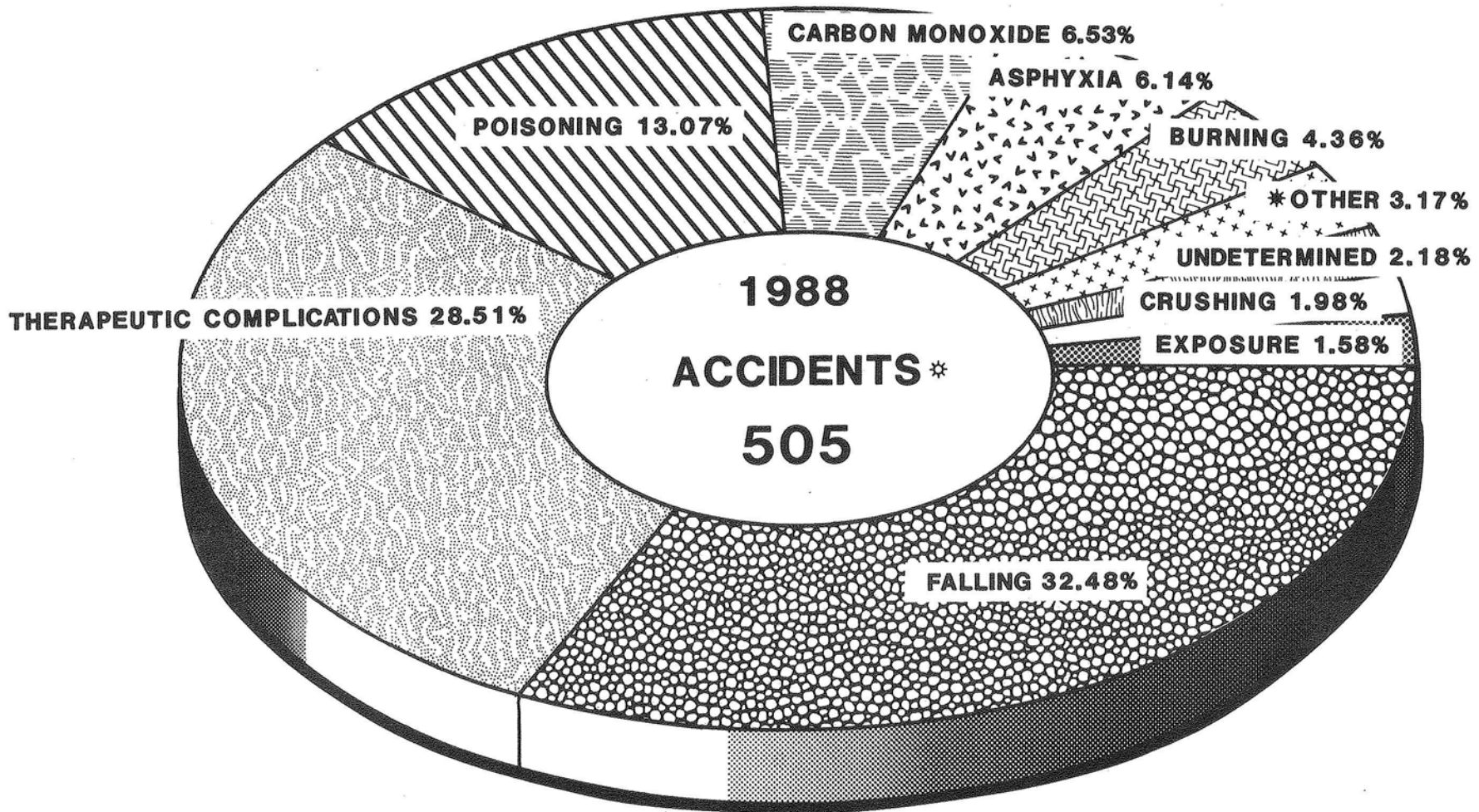


\* ELECTROCUTION, EXPLOSION, FRACTURE WHILE BEING MOVED, HIT HEAD ON BOTTOM OF POOL, SHAKEN BABY SYNDROME AND FALL, SHOOTING, SKATEBOARD COLLIDED WITH PEDESTRIAN, SOFTBALL PLAYERS COLLIDED, STRUCK BY OBJECT, STRUCK BY TRAIN AND OTHERS.

\* EXCLUDING VEHICULAR ACCIDENTS.



# FATALITIES RESULTING FROM ACCIDENTS MODE OF OCCURRENCE 1988

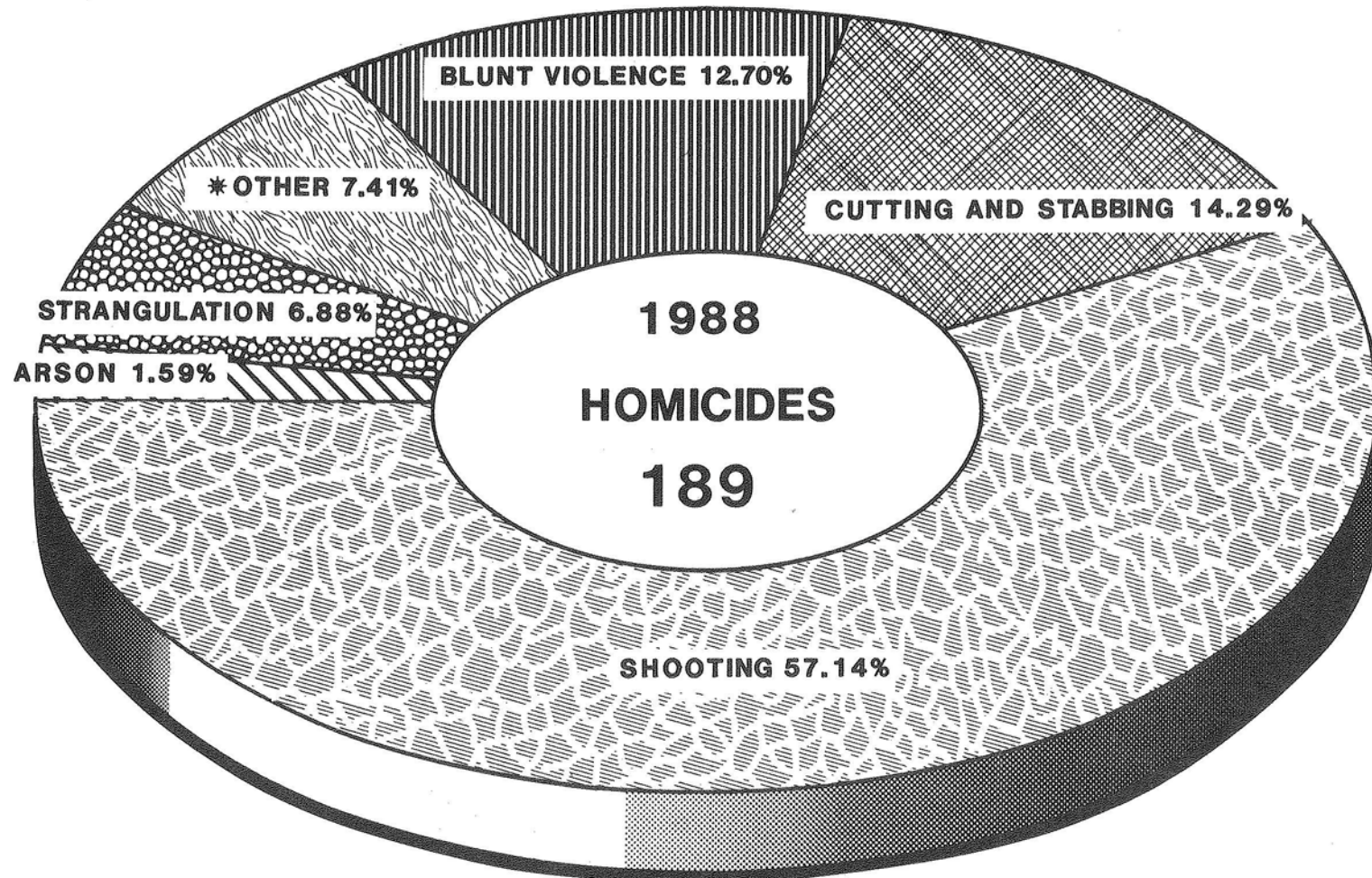


\* ARSON, AUTO COLLIDED WITH FIXED OBJECT, ELECTROCUTION, EXPLOSION, EXPOSURE, FELL FROM MOVING VEHICLE, FRACTURE WHILE BEING MOVED, HIT HEAD ON BOTTOM OF POOL, JUMPING, PLACED HEAD UNDER PUNCH PRESS, RUN OVER BY MOTOR VEHICLE, SHAKEN BABY SYNDROME AND FALL, SKATEBOARD COLLIDED WITH PEDESTRIAN, SOFTBALL PLAYERS COLLIDED, STRUCK BY OBJECT AND STRUCK BY TRAIN.

\* EXCLUDING VEHICULAR ACCIDENTS.



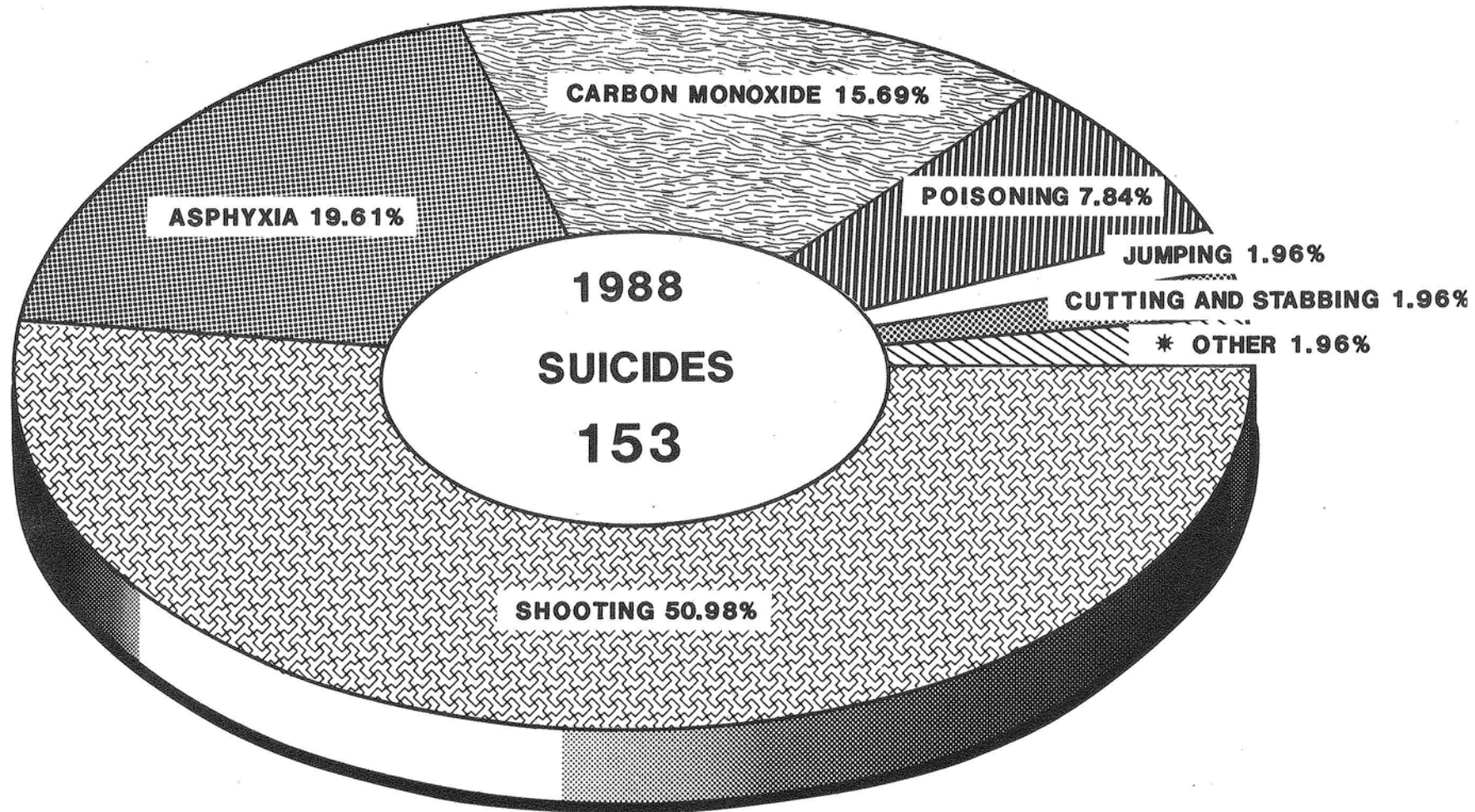
## FATALITIES RESULTING FROM HOMICIDES MODE OF OCCURRENCE 1988



\* AUTO COLLIDED WITH FIXED OBJECT, BURNING, FELL FROM MOVING VEHICLE, PLASTIC BAG, PUSHED, RUN OVER BY AUTO, WEDGED BETWEEN BED AND WALL, AND UNDETERMINED.



## FATALITIES RESULTING FROM SUICIDES MODE OF OCCURRENCE 1988



\* BURNING, LIGATURE AND PLACED HEAD UNDER A PUNCH PRESS.

# TYPES OF FATALITIES AND MISCELLANEOUS INFORMATION 1987 AND 1988

**TABLE A**

	1987	1988
ACCIDENTS IN THE HOME	190	209
ACCIDENTS WHILE AT WORK	15	25
VEHICULAR ACCIDENTS	181	177
ACCIDENTS IN OTHER PLACES	257	271
HOMICIDES	183	189
SUICIDES	187	153
VIOLENCE OF UNDETERMINED ORIGIN	21	8
<b>TOTAL VIOLENT DEATHS</b>	<b>1034</b>	<b>1032</b>
NATURAL CAUSES	1673	1686
ABORTIONS	0	0
NEONATAL AND INTRA-UTERINE DEATHS	1	5
UNDETERMINED CAUSES	5	14
CASES REPORTED-ADMITTED	2713	2737
CASES REPORTED-NOT ADMITTED	2623	2842
AUTOPSIES(Hospital Included)	1430*	1499**
AUTOPSIES Performed for Other Counties	53	78
UNIDENTIFIED BODIES	2	0
UNIDENTIFIED FOETUSES	1	0
IDENTIFIED AND UNCLAIMED	31	15
DEATHS IN COUNTY	15,502	15,667
PERCENTAGE OF DEATHS ADMITTED	18%	18%

\* Includes 99 Autopsies performed at hospitals

\*\* Includes 95 Autopsies performed at hospitals



## 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	209	117	92	148	61	159	5.81
ACCIDENTS WHILE AT WORK	25	25	0	20	5	24	0.88
VEHICULAR ACCIDENTS	177	115	62	137	40	174	6.36
ACCIDENTS IN OTHER PLACES	271	156	115	208	63	160	5.85
HOMICIDES	189	137	52	47	142	191	6.98
SUICIDES	153	117	36	121	32	150	5.48
VIOLENCE OF UNDETERMINED ORIGIN	8	5	3	5	3	8	0.29
NATURAL CAUSES	1686	1056	630	1064	622	614	22.43
ABORTIONS	0	0	0	0	0	0	0.00
NEONATAL AND INTRA-UTERINE DEATHS	5	3	2	2	3	5	0.18
UNDETERMINED CAUSES	14	5	9	4	10	14	0.51
<b>GRAND TOTAL</b>	<b>2737</b>	<b>1736</b>	<b>1001</b>	<b>1756</b>	<b>981</b>	<b>1499</b>	<b>54.77</b>

\* Includes 95 Autopsies performed at Hospitals.

## TYPES OF FATALITIES - 1987 AND 1988

### INCIDENCE COMPARED

**TABLE C**

	PERCENTAGE OF TOTAL CASES ADMITTED	
	1987	1988
ACCIDENTS IN THE HOME	7.00	7.64
ACCIDENTS WHILE AT WORK	0.55	0.91
VEHICULAR ACCIDENTS	6.67	6.47
ACCIDENTS IN OTHER PLACES	9.47	9.90
HOMICIDES	6.75	6.91
SUICIDES	6.89	5.59
VIOLENCE OF UNDETERMINED ORIGIN	0.77	0.29
<b>TOTAL OF VIOLENT DEATHS</b>	<b>38.11</b>	<b>37.71</b>
NATURAL CAUSES	61.67	61.60
ABORTIONS	0.00	0.00
NEONATAL AND INTRA-UTERINE DEATHS	0.04	0.18
UNDETERMINED CAUSES	0.18	0.51



## TYPES OF FATALITIES - ALCOHOL INCIDENCE

**TABLE D**

	Number of Cases	Number of Cases Tested	Percentage of Cases Tested	Number Positive of Those Tested	Percentage Positive of Those Tested
ACCIDENTS IN THE HOME	209	125	59.81	29	23.20
ACCIDENTS WHILE AT WORK	25	22	88.00	1	4.55
VEHICULAR ACCIDENTS	177	152	85.88	55	36.18
ACCIDENTS IN OTHER PLACES	271	89	32.84	24	26.97
TOTAL	682	388	56.89	109	28.09
HOMICIDES	189	180	95.24	74	41.11
SUICIDES	153	150	98.04	43	28.67
VIOLENCE OF UNDETERMINED ORIGIN	8	7	87.50	4	57.14
TOTAL	1032	725	70.25	230	31.72
NATURAL CAUSES	1686	1342	79.60	124	9.24
ABORTIONS	0	0	0.00	0	0.00
UNDETERMINED CAUSES	14	13	92.86	4	30.77

# VEHICULAR FATALITIES

## DAILY ALCOHOL INCIDENCE

**TABLE E**

DAY	MOTORCYCLIST (1) NUMBER OF CASES		DRIVER (2) NUMBER OF CASES		PASSENGER (3) NUMBER OF CASES		PEDESTRIAN (4) NUMBER OF CASES		TOTAL NUMBER OF CASES	
	TESTED	POSITIVE	TESTED	POSITIVE	TESTED	POSITIVE	TESTED	POSITIVE	TESTED	POSITIVE
SUNDAY	3	2	19	8	8	4	4	2	34	16
MONDAY			12	4	3	1	4	3	19	8
TUESDAY	3	1	12	3	1	0	3	2	19	6
WEDNESDAY	2		10	4	3	0	5	0	20	4
THURSDAY	1		10	4	1	0	3	2	15	6
FRIDAY	2	1	9	3	1	0	4	3	16	7
SATURDAY	2		15	6	6	1	6	1	29	8
TOTAL	13	4	87	32	23	6	29	13	152	55

(1) SEE TABLE 59-A

(2) SEE TABLES 58 AND 59

(3) SEE TABLE 60

(4) SEE TABLE 61



# SUMMARY CHART

## DISTRIBUTION OF SELECTED CORONER'S CASES IN EACH MUNICIPALITY CUYAHOGA COUNTY

**TABLE F**

CITIES	TOTAL INSIDE CASES		NATURAL CAUSES		HOME, WORK AND OTHER FATALITIES		VEHICULAR FATALITIES		HOMICIDE		SUICIDE	
	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	1613	58.93	988	61.25	324	20.09	70	4.34	146	9.05	64	3.97
Bay Village	10	0.37	2	20.00	2	20.00	3	30.00			3	30.00
Beachwood	9	0.33	3	33.33	6	67.00						
Bedford	32	1.17	26	81.25	5	15.63			1	3.13		
Bedford Heights	9	0.33	2	22.22	3	33.33	2	22.22			2	22.22
Berea	15	0.55	10	66.67			2	13.33			3	20.00
Brecksville	9	0.33	5	55.56	2	22.22	1	11.11			1	11.11
Broadview Heights	18	0.66	7	38.89	3	16.67	4	22.22	3	16.67	1	5.56
Brooklyn	9	0.33	6	66.67	1	11.11	1	11.11			1	11.11
Brookpark	16	0.58	8	50.00	5	31.25	3	18.75				
Cleveland Heights	25	0.91	14	56.00	6	24.00	2	8.00	2	8.00	1	4.00
East Cleveland	100	3.65	74	74.00	8	8.00			15	15.00	2	2.00
Euclid	88	3.22	56	63.64	12	13.64	5	5.68	3	3.41	12	13.64
Fairview Park	22	0.80	16	72.73	4	18.18	1	4.55			1	4.55
Garfield Heights	60	2.19	42	70.00	8	13.33	2	3.33	4	6.67	3	5.00
Highland Heights	3	0.11			1	33.33			1	33.33	1	33.33
Independence	5	0.18	1	20.00	1	20.00	2	40.00	1	20.00		
Lakewood	66	2.41	46	69.70	13	19.70	2	3.03			5	7.58
Lyndhurst	9	0.33	5	55.56	3	33.33					1	11.11
Maple Heights	14	0.51	6	42.86	1	7.14	1	7.14	1	7.14	5	35.71
Mayfield Heights	55	2.01	43	78.18	9	16.36					2	3.64
Middleburg Heights	63	2.30	53	84.13	6	9.52	3	4.76			1	1.59
North Olmsted	15	0.55	8	53.33	3	20.00	2	13.33			2	13.33
North Royalton	6	0.22	3	50.00	2	33.33	1	16.67				
Olmsted Falls	3	0.11	1	33.33			1	33.33				
Parma	119	4.35	95	79.83	15	12.66	6	5.04			3	2.52
Parma Heights	13	0.47	10	76.92	3	23.08						
Pepper Pike	4	0.15	2	50.00			1	25.00			1	25.00
Richmond Heights	19	0.69	17	89.47	1	5.26					1	5.26
Rocky River	10	0.37	5	50.00	2	20.00					3	30.00
Seven Hills	6	0.22	4	66.67	1	16.67	1	16.67				
Shaker Heights	20	0.73	11	55.00	3	15.00			1	5.00	5	25.00
Solon	15	0.55	14	93.33			1	6.67				
South Euclid	9	0.33	2	22.22	2	22.22			1	11.11	3	33.33
Strongsville	18	0.66	6	33.33	2	11.11	5	27.78			5	27.78
University Heights	7	0.26	2	28.57	1	14.29			1	14.29	3	42.86
Warrensville Heights	60	2.19	54	90.00	3	5.00			1	1.67	1	1.67
Westlake	32	1.17	26	81.25	3	9.38	1	3.13			2	6.25

Not included in statistics are Violence of Undetermined Origin, Undetermined Causes, Out of the County Deaths and Live Birth and Foetal Deaths.

# SUMMARY CHART

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

### CUYAHOGA COUNTY

**TABLE F cont.**

VILLAGES AND TOWNSHIPS	TOTAL INSIDE CASES		NATURAL CAUSES		HOME, WORK AND OTHER FATALITIES		VEHICULAR FATALITIES		HOMICIDE		SUICIDE	
	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>VILLAGES:</b>												
Bentleyville												
Bratenahl	1	0.04					1	100.00				
Brooklyn Heights	1	0.04			1	100.00						
Chagrin Falls	5	0.18	1	20.00	3	60.00					1	20.00
Cuyahoga Heights	1	0.04			1	100.00						
Gates Mills	4	0.15	1	25.00			3	75.00				
Glenwillow												
Hunting Valley												
Linndale												
Mayfield	3	0.11	1	33.33			2	66.67				
Moreland Hills	2	0.07	1	50.00			1	50.00				
Newburgh Heights	4	0.15	2	50.00							2	50.00
North Randall	1	0.04							1	100.00		
Oakwood	3	0.11	1	33.33	1	33.33			1	33.33		
Orange	2	0.07	2	100.00								
Valley View	3	0.11					2	75.00			1	25.00
Walton Hills	4	0.15	1	25.00	2	50.00					1	25.00
Woodmere	1	0.04									1	100.00
<b>TOWNSHIPS:</b>												
Chagrin Falls												
Olmsted	8	0.29	3	37.50	3	37.50	2	25.00				
Riveredge												
Warrensville	1	0.04					1	100.00				
Turnpike in County	3	0.11					3	100.00				

\* Not included in statistics are Violence of Undetermined Origin, Undetermined Causes, Out of the County Deaths and Live Birth and Foetal Deaths.



# DEATHS IN COUNTY, DEATHS REPORTED TO CORONER CASES RECEIVED 1943-1988

COUNTY POPULATION 1940: 1,217,250

**TABLE G**

DEATHS IN COUNTY	TOTAL DEATHS REPORTED TO CORONER'S OFFICE	% OF DEATHS IN COUNTY	CASES ADMITTED TO CORONER'S OFFICE	% OF DEATHS IN COUNTY
1943: 13,931	2,739	19.7%	1,434	10.3%
1944: 13,234	2,544	19.2%	1,420	10.7%
1945: 13,104	2,624	20.0%	1,478	11.3%
1946: 13,049	2,890	22.0%	1,588	12.0%
1947: 13,946	3,120	22.4%	1,904	13.6%
1948: 13,695	3,203	23.4%	1,924	14.0%
1949: 13,837	3,849	25.2%	2,012	14.4%

COUNTY POPULATION 1950: 1,389,532

1950: 13,769	3,431	24.9%	2,218	16.8%
1951: 14,156	3,496	24.7%	2,213	14.7%
1952: 14,727	3,477	23.6%	2,183	14.8%
1953: 14,896	3,646	24.5%	2,392	16.0%
1954: 14,607	3,851	26.3%	2,767	18.9%
1955: 14,751	4,085	27.8%	2,945	20.0%
1956: 15,389	4,651	30.2%	3,259	21.1%
1957: 16,063	4,634	28.8%	3,274	20.3%
1958: 15,919	4,963	31.2%	3,602	22.6%
1959: 16,088	4,328	26.9%	3,626	22.5%

COUNTY POPULATION 1960: 1,647,895

1960: 16,425	5,159	31.4%	3,513	21.4%
1961: 16,144	5,019	31.1%	3,622	22.7%
1962: 16,701	5,231	31.3%	3,883	23.3%
1963: 17,142	5,385	31.4%	4,083	23.8%
1964: 16,915	5,490	32.5%	4,037	23.9%
1965: 17,062	5,227	30.6%	4,012	23.5%
1966: 17,415	5,303	30.5%	4,136	23.7%
1967: 17,300	5,518	31.9%	4,141	23.9%
1968: 18,087	5,997	33.2%	4,455	24.6%
1969: 17,287	5,415	31.3%	4,436	25.7%

## DEATHS IN COUNTY, DEATHS REPORTED TO CORONER CASES RECEIVED 1943-1988

COUNTY POPULATION 1970: 1,721,300

**TABLE G cont.**

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	25.1%
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	23.1%

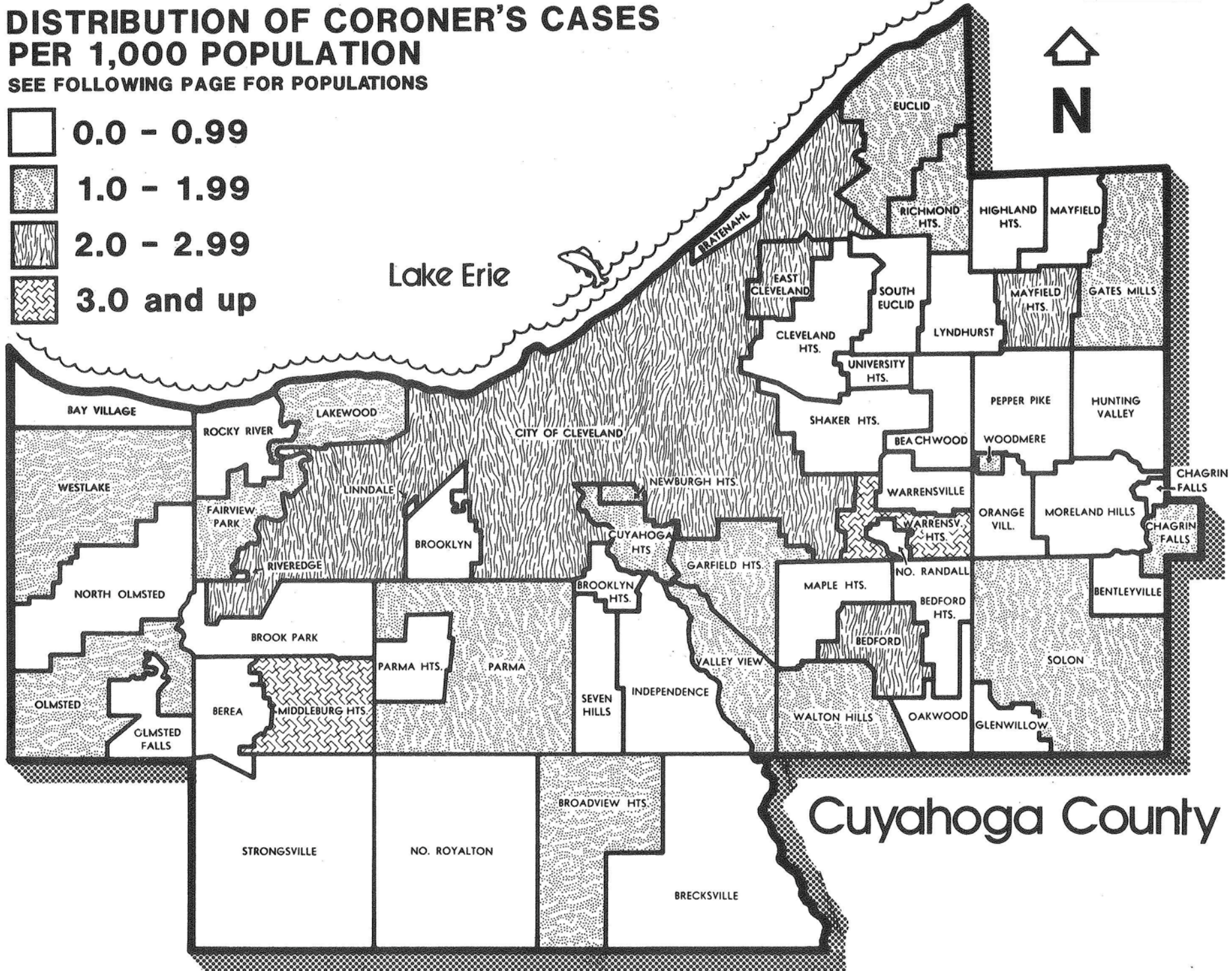
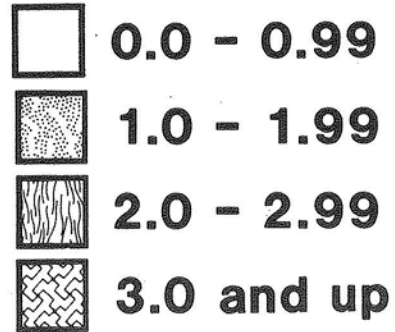
COUNTY POPULATION 1980: 1,498,400

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%



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

SEE FOLLOWING PAGE FOR POPULATIONS



# 1988

## POPULATION OF CUYAHOGA COUNTY BY CITIES, VILLAGES AND TOWNSHIPS

### (1980 CENSUS)

#### CITIES

CLEVELAND .....	573,822
Bay Village .....	17,846
Beachwood .....	9,983
Bedford .....	15,056
Bedford Heights .....	13,214
Berea .....	19,567
Brecksville .....	10,132
Broadview Heights .....	10,920
Brooklyn .....	12,342
Brook Park .....	26,195
Cleveland Heights .....	56,438
East Cleveland .....	36,957
Euclid .....	59,999
Fairview Park .....	19,311
Garfield Heights .....	34,938
Highland Heights .....	5,739
Independence .....	6,607
Lakewood .....	61,963
Lyndhurst .....	18,092
Maple Heights .....	29,735
Mayfield Heights .....	21,550

Middleburg Heights .....	16,218
North Olmsted .....	36,486
North Royalton .....	17,671
Olmsted Falls .....	5,868
Parma .....	92,548
Parma Heights .....	23,112
Pepper Pike .....	6,177
Richmond Heights .....	10,095
Rocky River .....	21,084
Seven Hills .....	13,650
Shaker Heights .....	32,487
Solon .....	14,341
South Euclid .....	25,713
Strongsville .....	28,577
University Heights .....	15,401
Warrensville Heights .....	16,565
Westlake .....	19,483

#### VILLAGES

Bentleyville .....	381
Bratenahl .....	1,485
Brooklyn Heights .....	1,653

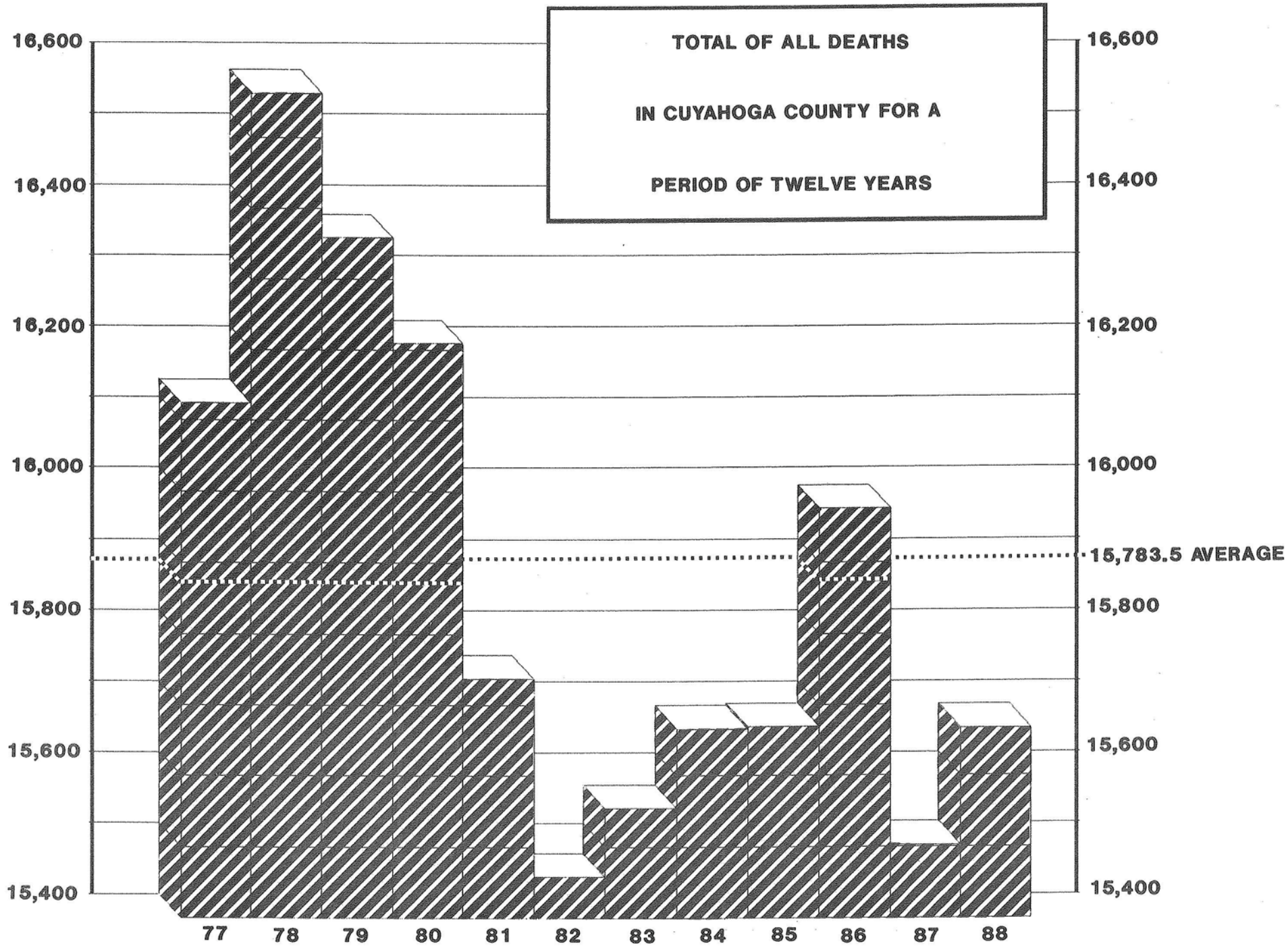
Chagrin Falls .....	4,335
Cuyahoga Heights .....	739
Gates Mills .....	2,236
Glenwillow .....	492
Hunting Valley .....	633
Linndale .....	129
Mayfield .....	3,577
Moreland Hills .....	3,083
Newburgh Heights .....	2,678
North Randall .....	1,054
Oakwood .....	3,786
Orange .....	2,376
Valley View .....	1,576
Walton Hills .....	2,199
Woodmere .....	877

#### TOWNSHIPS

Chagrin Falls .....	136
Olmsted .....	6,976
Riveredge .....	477
Warrensville .....	1,640

POPULATION OF CUYAHOGA COUNTY  
1,498,400





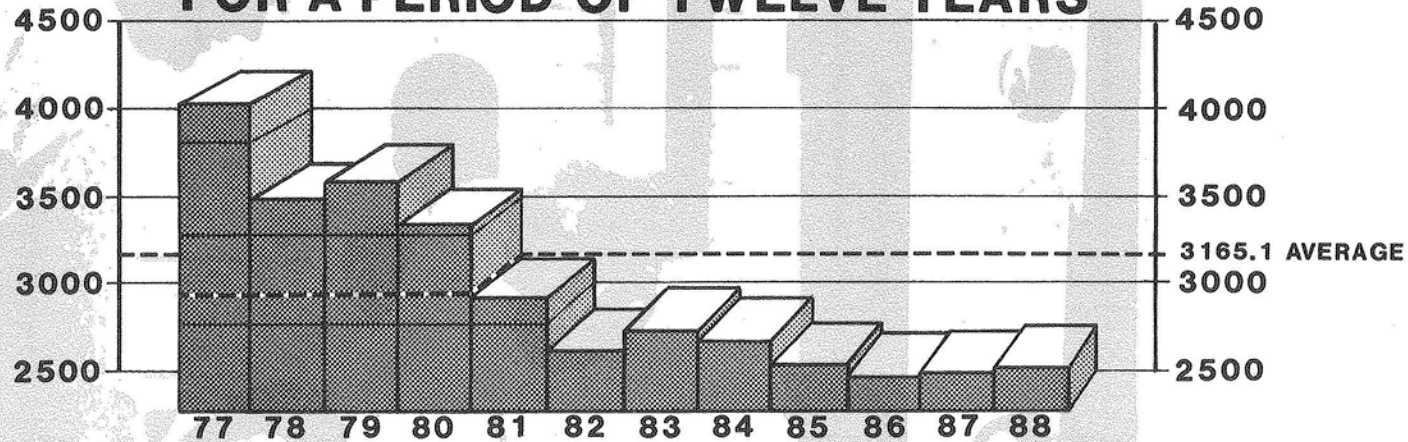




# SUMMARY OF CORONER'S CASES

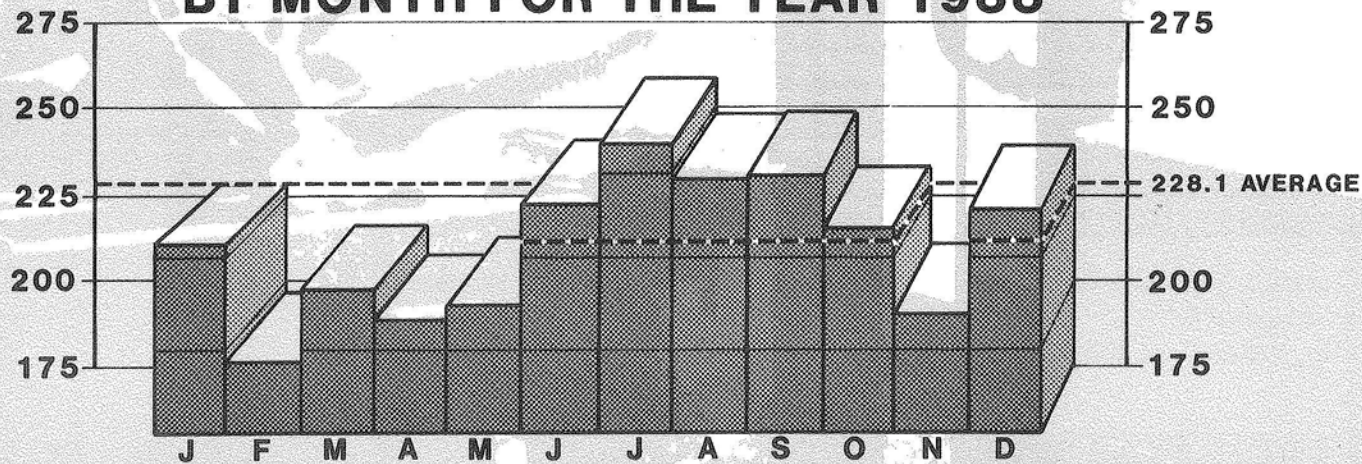
AUTOPSY

**FOR A PERIOD OF TWELVE YEARS**



1977 - 1988  
TOTAL CASES  
37,981

**BY MONTH FOR THE YEAR 1988**



1988  
TOTAL CASES  
2737



## SUMMARY OF ALL FATALITIES BY TYPE, LOCATION WITH MISCELLANEOUS DATA

**TABLE 1**

TYPE OF FATALITY	COUNTY			OUT OF COUNTY	TOTAL	MISCELLANEOUS	TOTAL
	CLEVELAND	OTHER CITIES	REST OF COUNTY				
ACCIDENTS IN THE HOME	116	70	5	18	209	CASES REPORTED – NOT ADMITTED	2842
ACCIDENTS WHILE AT WORK	13	7	2	3	25	AUTOPSIES**	1499
VEHICULAR ACCIDENTS*	70	53	15	39	177	AUTOPSIES(performed for other counties)	78
ACCIDENTS IN OTHER PLACES	195	63	4	9	271	UNIDENTIFIED BODIES	0
HOMICIDES	146	35	2	6	189	UNIDENTIFIED FOETUSES	0
SUICIDES	64	75	6	8	153	IDENTIFIED AND UNCLAIMED BODIES	15
VIOLENCE OF UNDETERMINED ORIGIN	6	1	0	1	8	DEATHS IN CUYAHOGA COUNTY	15,667
<b>TOTAL VIOLENT DEATHS</b>	<b>610</b>	<b>304</b>	<b>34</b>	<b>84</b>	<b>1032</b>		
NATURAL CAUSES	988	685	13	0	1686		
NEONATAL & INTRA-UTERINE DEATH	5		1	1	5		
ABORTIONS					0		
UNDETERMINED CAUSES	10	4			14		
<b>TOTAL CASES REPORTED AND ADMITTED</b>	<b>1613</b>	<b>993</b>	<b>47</b>	<b>84</b>	<b>2737</b>		

\* Vehicular Accidents, Summary Tables 1,2,4,6 and 8 are tabulated by date of death reflecting fatalities received in 1988.

\*\* Includes 95 autopsies performed at hospitals.

Rest of County includes Turnpikes, Villages and Townships.



# TOTAL CASES BY MONTH AND TYPE OF FATALITY

**TABLE 2**

TYPE OF FATALITY	JAN.		FEB.		MAR.		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	8	11	9	4	4	10	13	6	7	5	10	7	14	11	9	2	9	8	8	11	14	14	12	3	117	92	209
ACCIDENTS WHILE AT WORK	2		2		2		1		4		2		2		4		1		3		2				25		25
VEHICULAR ACCIDENTS	8	6	9	4	7	3	4	3	7	4	16	5	15	9	19	6	8	7	7	5	8	3	7	7	115	62	177
ACCIDENTS IN OTHER PLACES	10	3	10	6	12	6	10	9	14	9	12	10	17	9	13	6	18	16	15	12	10	13	15	16	156	115	271
HOMICIDES	14	2	11	3	12	3	12	6	7	7	15	6	13	3	8	3	10	5	9	5	11	5	15	4	137	52	189
SUICIDES	7	4	12	2	6	2	15	7	9	4	8	2	15	1	9	2	11	7	11	2	9	1	5	2	117	36	153
VIOLENCE OF UNDETERMINED ORIGIN	1				1		1				1					1	2	1							5	3	8
NATURAL CAUSES	94	55	78	40	93	54	69	50	88	47	93	53	93	56	95	68	94	49	92	52	74	47	93	59	1056	630	1686
ABORTIONS																											0
NEONATAL AND INTRA-UTERINE DEATHS	1		2	1														1							3	2	5
UNDETERMINED CAUSES		2	2	1		1	1								2	1		2		1				1	5	9	14
<b>GRAND TOTAL</b>	<b>145</b>	<b>83</b>	<b>135</b>	<b>61</b>	<b>137</b>	<b>79</b>	<b>125</b>	<b>82</b>	<b>136</b>	<b>76</b>	<b>157</b>	<b>83</b>	<b>169</b>	<b>89</b>	<b>159</b>	<b>89</b>	<b>153</b>	<b>96</b>	<b>145</b>	<b>88</b>	<b>128</b>	<b>83</b>	<b>147</b>	<b>92</b>	<b>1736</b>	<b>1001</b>	<b>2737</b>

# AUTOPSIES BY MONTH AND TYPE OF FATALITY

**TABLE 3**

TYPE OF FATALITY	JAN.		FEB.		MAR.		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	6	5	8	3	4	7	10	5	5		9	3	11	8	7		7	5	8	6	10	5	11	3	96	50	146
ACCIDENTS WHILE AT WORK	2		2		2		1		4		2		2		3		1		3		2				24		24
VEHICULAR ACCIDENTS	8	6	9	4	7	2	3	3	8	4	15	5	15	9	18	6	9	7	7	5	8	3	7	6	114	60	174
ACCIDENTS IN OTHER PLACES	4		7	3	8	2	5	1	5	2	6	1	12	4	3	4	6	4	10	3	3	3	4	4	73	31	104
HOMICIDES	14	2	12	3	12	3	12	5	7	8	14	6	14	3	8	3	10	5	9	6	11	5	15	4	138	53	191
SUICIDES	6	4	10	2	8	1	15	7	9	4	8	2	14	1	10	2	11	7	11	2	8	1	5	2	115	35	150
VIOLENCE OF UNDETERMINED ORIGIN			1		1		1				1				1	2	1								5	3	8
NATURAL CAUSES	47	12	30	9	33	19	22	17	35	21	28	18	36	16	42	22	31	13	35	19	27	12	27	17	393	195	588
ABORTIONS																											0
NEONATAL AND INTRA-UTERINE DEATHS	1		2	1													1								3	2	5
UNDETERMINED CAUSES		1	2	2		1	1								2	1	2		1				1		5	9	14
<b>GRAND TOTAL</b>	<b>88</b>	<b>30</b>	<b>83</b>	<b>27</b>	<b>75</b>	<b>35</b>	<b>69</b>	<b>39</b>	<b>73</b>	<b>39</b>	<b>83</b>	<b>35</b>	<b>104</b>	<b>41</b>	<b>93</b>	<b>39</b>	<b>77</b>	<b>45</b>	<b>83</b>	<b>42</b>	<b>69</b>	<b>29</b>	<b>69</b>	<b>37</b>	<b>966</b>	<b>438</b>	<b>1404</b>



# TOTAL CASES BY AGE GROUPS 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-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			
<b>ACCIDENTS:</b>																																									
<b>IN THE HOME</b>	3	1	4	4	2	2			4		3	2	2		12	5	9	2	12	2	5	4	3	1	6	1	9	7	10	5	6	8	6	11	21	37	117	92	209		
<b>WHILE AT WORK</b>								2		3		3		1		2		3		3		2		1		3		1							1		25		25		
<b>VEHICULAR</b>			3	2	2	2	6		8	7	19	9	17	7	9	7	8	4	6	3	1	2	6	1	6	1	5	5	7	3	4	1	4	1	4	7	115	62	177		
<b>IN OTHER PLACES</b>	6	3	3	2	2	1	1		3		3	2	9	1	13	3	9	3	6	3	10	3	5	4	9	8	21	11	14	11	16	10	12	9	14	41	156	115	271		
<b>HOMICIDE</b>	3	4	1	1			2	2	9	4	30	8	26	6	20	7	12	3	11	3	5	2	5	3	7	4	1		2	1	1	3	2		1	137	52	189			
<b>SUICIDE</b>								9		8	2	11	2	18	6	17	3	11	3	5	5	3	3	5	1	6	5	9	1	6	1	3	1	6	3	117	36	153			
<b>VIOLENCE OF UNDETERMINED ORIGIN</b>											1	1		1		1	1	1				1													1		5	3	8		
<b>NATURAL CAUSES</b>	37	19	2	3	2	1	1	1	4		7	5	5	5	21	15	27	13	40	24	64	27	66	29	113	46	156	78	163	74	140	88	90	57	118	145	1056	630	1686		
<b>ABORTIONS</b>																																									0
<b>NEONATAL AND INTRA-UTERINE DEATHS</b>	3	2																																				3	2	5	
<b>UNDETERMINED CAUSES</b>		1	1	1					1			1	1	1		1	1		1				2		1								1			5	9	14			
<b>GRAND TOTAL</b>	52	30	14	13	8	6	10	3	39	12	73	29	75	22	96	43	86	30	90	39	93	44	90	43	147	61	202	106	206	95	173	111	177	80	165	234	1736	1001	2737		

# AUTOPSIES BY AGE GROUPS AND TYPE OF FATALITY

**TABLE 5**

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-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			
<b>ACCIDENTS:</b>																																									
<b>IN THE HOME</b>	3		4	3	2	2			3		3	2	2		12	5	9	1	12	2	5	4	3	1	4	1	9	6	7	4	5	3	5	5	8	11	96	50	146		
<b>AT WORK</b>								2		3		3		1		2		3		3		2		1		3		1									24		24		
<b>VEHICULAR</b>			3	2	2	2	6		8	7	19	9	17	7	9	7	7	4	6	3	1	2	6	1	6	1	5	5	7	3	4	1	4	1	4	5	114	60	174		
<b>IN OTHER PLACES</b>	2	1			2	1	1		3		1	1	8		12	3	8	3	6	2	5	1	3	1	3	3	7	4	4	2	3	1	1	2	4	6	73	31	104		
<b>HOMICIDE</b>	3	4	1	1			2	2	9	4	30	8	27	6	20	7	12	3	11	3	5	2	5	3	7	4	1		2	1	1	3	2		2	138	53	191			
<b>SUICIDE</b>								9		8	2	11	2	18	6	17	3	11	3	5	5	3	3	5	1	6	5	9	1	5	1	2		6	3	115	35	150			
<b>VIOLENCE OF UNDETERMINED ORIGIN</b>												1	1		1		1	1	1																1		5	3	8		
<b>NATURAL CAUSES</b>	36	19	2	2	2	1		1	3		6	4	5	3	16	13	21	11	35	21	49	20	37	16	43	6	40	20	34	11	33	19	13	8	18	20	393	195	588		
<b>ABORTIONS</b>																																									0
<b>NEONATAL AND INTRA-UTERINE DEATHS</b>	3	2																																				3	2	5	
<b>UNDETERMINED CAUSES</b>		1	1	1					1			1	1	1		1	1		1				2			1						1				5	9	14			
<b>GRAND TOTAL</b>	47	27	11	9	8	6	9	3	37	12	70	27	75	19	90	41	78	27	85	35	73	35	59	27	69	16	72	40	64	22	51	28	27	17	41	47	966	438	1404		





# GEOGRAPHICAL LOCATION - ALL FATALITIES SUMMARY

VILLAGES AND TOWNSHIPS	VIOLENT DEATHS													TOTAL	GRAND TOTAL		
	ACCIDENTS					OTHER VIOLENCE											
	IN THE HOME	WHILE AT WORK	VEHICULAR	IN OTHER PLACES	TOTAL ACCIDENTS	HOMICIDE	SUICIDE	UNDETERMINED ORIGIN	TOTAL OTHER VIOLENCE	TOTAL ALL VIOLENCE	NATURAL CAUSES	ABORTIONS	LIVE BIRTH AND FOETAL DEATH			UNDETERMINED CAUSES	
<b><u>VILLAGES:</u></b>																	
Bentleyville																	0
Bratenahl			1		1					1							1
Brooklyn Heights	1				1					1							1
Chagrin Falls		1		2	3		1		1	4	1					1	5
Cuyahoga Heights		1			1					1							1
Gates Mills			3		3					3	1					1	4
Glenwillow																	0
Hunting Valley																	0
Linndale																	0
Mayfield			2		2					2	1					1	3
Moreland Hills			1		1					1	1					1	2
Newburgh Heights							2		2	2	2					2	4
North Randall						1			1	1							1
Oakwood	1				1	1			1	2	1					1	3
Orange											2						2
Valley View			2		2		1		1	3							3
Walton Hills				2	2		1		1	3	1					1	4
Woodmere							1		1	1							1
<b>TOTAL</b>	<b>2</b>	<b>2</b>	<b>9</b>	<b>4</b>	<b>17</b>	<b>2</b>	<b>6</b>		<b>8</b>	<b>25</b>	<b>10</b>					<b>10</b>	<b>35</b>
<b><u>TOWNSHIPS:</u></b>																	
Chagrin Falls																	0
Olmsted	3		2		5					5	3					3	8
Riveredge																	0
Warrensville			1		1					1							1
<b>TOTAL</b>	<b>3</b>		<b>3</b>		<b>6</b>					<b>6</b>	<b>3</b>					<b>3</b>	<b>9</b>

**TABLE 7**



# GEOGRAPHICAL LOCATION - ALL FATALITIES SUMMARY

**TABLE 7A**

TOTALS	VIOLENT DEATHS															
	ACCIDENTS					OTHER VIOLENCE					NATURAL CAUSES	ABORTIONS	LIVE BIRTH AND FOETAL DEATH	UNDETERMINED CAUSES	TOTAL	GRAND TOTAL
	IN THE HOME	WHILE AT WORK	VEHICULAR	IN OTHER PLACES	TOTAL ACCIDENTS	HOMICIDE	SUICIDE	UNDETERMINED ORIGIN	TOTAL OTHER VIOLENCE	TOTAL ALL VIOLENCE						
CITIES	186	20	123	258	587	181	139	7	327	914	1673	0	5	14	1692	2606
VILLAGES	2	2	9	4	17	2	6		8	25	10				10	35
TOWNSHIPS	3		3		6					6	3				3	9
OUT OF COUNTY	18	3	39	9	69	6	8	1	15	84						84
TURNPIKE			3		3					3						3
GRAND TOTAL	209	25	177	271	682	189	153	8	350	1032	1686	0	5	14	1705	2737

# ACCIDENTAL FATALITIES BY MONTH

**TABLE 8**

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	12	5			2	19	2					2	6	4				4	14	10	2			1	13	30	11				7	48
FEBRUARY	9	3			1	13	2					2	5	5	2			1	13	11	4	1			16	27	12	3			2	44
MARCH	11	3				14	1			1	2	5	4					1	10	13	5				18	30	12				2	44
APRIL	10	6		1	2	19			1		1	4	1			1	1	7	13	5	1			19	27	12	2	1	1	3	46	
MAY	5	6			1	12	2	2			4	4	3	2				2	11	11	11			1	23	22	22	2			4	50
JUNE	10	6			1	17	1	1			2	8	6	2				5	21	18	1			3	22	37	14	2			9	62
JULY	10	10	1		4	25	1	1			2	10	5		1		8	24	18	6			2	26	39	22	1	1		14	77	
AUGUST	7	3			1	11	1	2	1		4	12	6	1		1	5	25	13	5	1			19	33	16	3		1	6	59	
SEPTEMBER	7	8			2	17	1				1	4	6	1	1		3	15	25	9				34	37	23	1	1		5	67	
OCTOBER	10	6		2	1	19	1	1		1	3	4	4			1	3	12	20	5			2	27	35	16		2	1	7	61	
NOVEMBER	17	8	1		2	28	1			1	2	3	5				3	11	22		1			23	43	13	2			6	64	
DECEMBER	8	6			1	15						5	4	1	1		3	14	21	10				31	34	20	1	1		4	60	
<b>TOTAL</b>	<b>116</b>	<b>70</b>	<b>2</b>	<b>3</b>	<b>18</b>	<b>209</b>	<b>13</b>	<b>7</b>	<b>2</b>	<b>3</b>	<b>25</b>	<b>70</b>	<b>53</b>	<b>9</b>	<b>3</b>	<b>3</b>	<b>39</b>	<b>177</b>	<b>195</b>	<b>63</b>	<b>4</b>	<b></b>	<b>9</b>	<b>271</b>	<b>394</b>	<b>193</b>	<b>17</b>	<b>6</b>	<b>3</b>	<b>69</b>	<b>682</b>	



# HOMICIDES, SUICIDES, VIOLENCE OF UNDETERMINED ORIGIN

## FATALITIES BY MONTH

**TABLE 9**

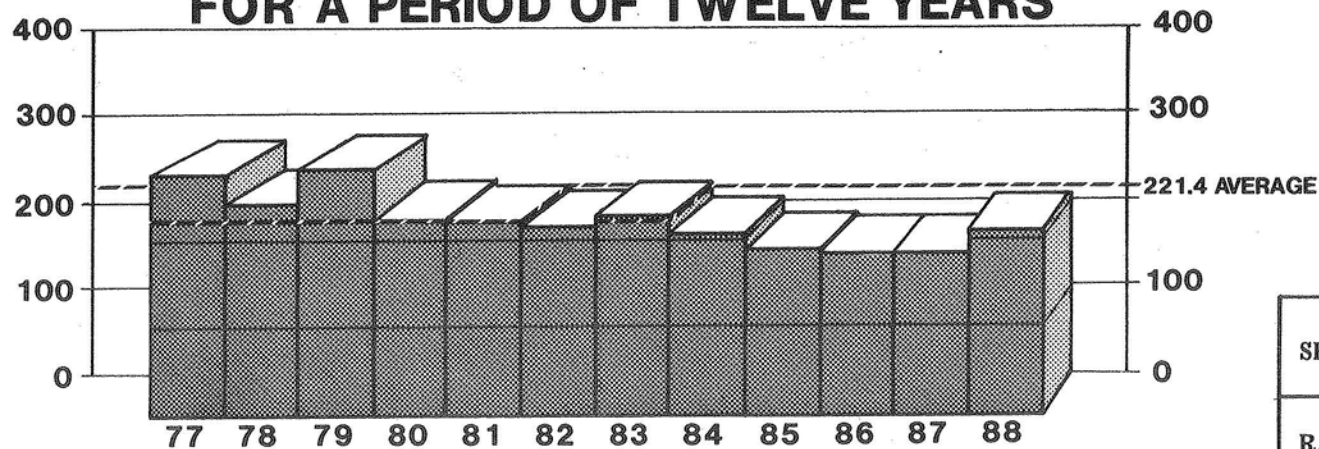
MONTH	HOMICIDES						SUICIDES						VIOLENCE OF UNDETERMINED ORIGIN						TOTAL					GRAND TOTAL
	CLEVELAND	OTHER CITIES	VILLAGES	TOWNSHIPS	OUT OF COUNTY	TOTAL	CLEVELAND	OTHER CITIES	VILLAGES	TOWNSHIPS	OUT OF COUNTY	TOTAL	CLEVELAND	OTHER CITIES	VILLAGES	TOWNSHIPS	OUT OF COUNTY	TOTAL	CLEVELAND	OTHER CITIES	VILLAGES	TOWNSHIPS	OUT OF COUNTY	
JANUARY	14	2				16	2	7			2	11	1					1	17	9			2	28
FEBRUARY	9	5				14	4	8	2		14								13	13	2			28
MARCH	12	3				15	2	4	1	1	8	1					1	15	7	1		1	24	
APRIL	11	6			1	18	6	11	2	3	22	1					1	18	17	2		4	41	
MAY	11	3				14	7	5	1		13							18	8	1			27	
JUNE	17	4				21	7	3			10	1					1	25	7				32	
JULY	13	1			2	16	7	9			16							20	10			2	32	
AUGUST	11					11	6	5			11		1				1	17	6				23	
SEPTEMBER	13	1	1			15	10	8			18	2				1	3	25	9	1		1	36	
OCTOBER	10	3			1	14	5	8			13							15	11			1	27	
NOVEMBER	10	4	1		1	16	5	4		1	10							15	8	1		2	26	
DECEMBER	15	3			1	19	3	3		1	7							18	6			2	26	
<b>TOTAL</b>	146	35	2		6	189	64	75	6		8	153	6	1			1	8	216	111	8		15	350



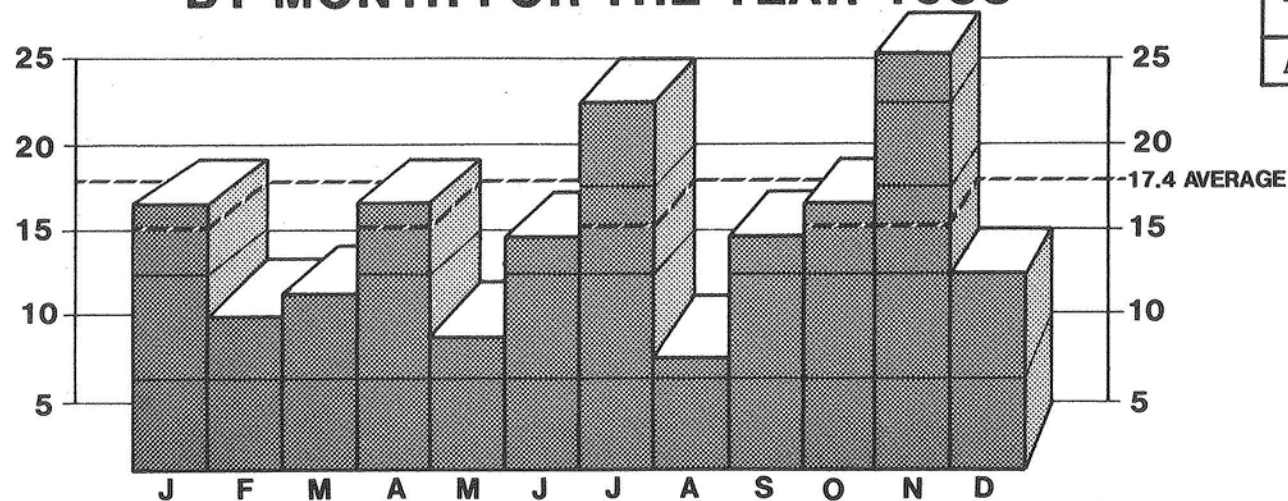


# ACCIDENTS IN THE HOME

FOR A PERIOD OF TWELVE YEARS



BY MONTH FOR THE YEAR 1988



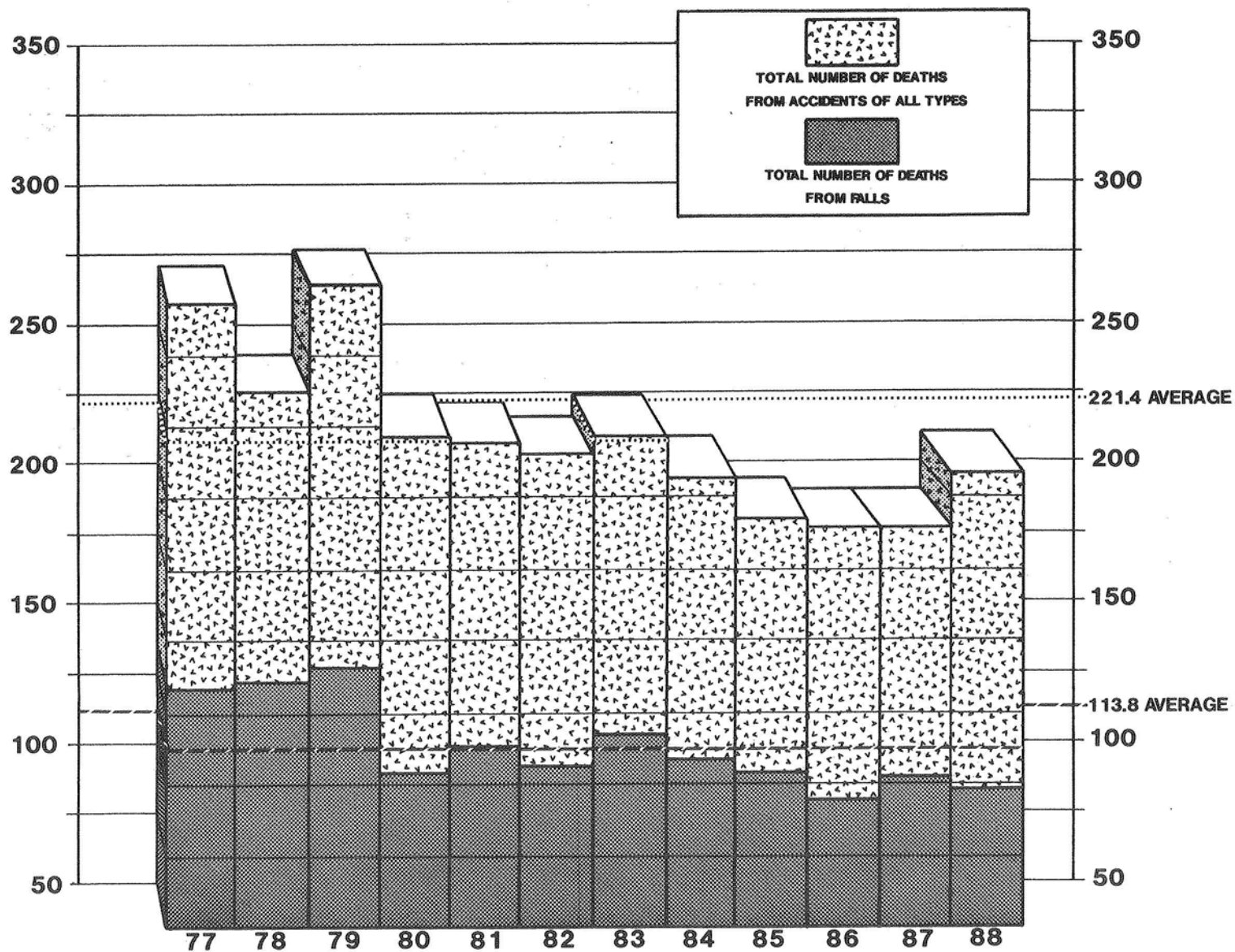
		NUMBER	PERCENT
SEX	MALE	117	56
	FEMALE	92	44
RACE	WHITE	148	71
	NON-WHITE	61	29
ALCOHOL	TESTED	125	60
	POSITIVE	29	23
AUTOPSY	AUTOPSIED	146	70

1988
TOTAL CASES
209





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



# FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

## MONTHLY ALCOHOL INCIDENCE

**TABLE 10**

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	19	8	11	5	7	3	2		2	3	7	2	6		1	1		5	4	4	3	1	1					1									1
FEBRUARY	13	9	4	8	1	1	2		1	4	2	3	1			1	1	5	2	4	2	1						1									
MARCH	14	4	10	4	7		3			1	3		3			1		3	7	3	6		1			1											
APRIL	19	13	6	7	3	5	2	1	1	4	3	4	2			1	9	3	6	2	3	1					1	1								2	
MAY	12	7	5	3	2	4	2		1	3	4	2	3			1	1	4	1	4	1																
JUNE	17	10	7	7	3	3	3		1	2	4	2	2			2	8	3	5	2	3	1	1				1					1	1				
JULY	25	14	11	6	4	4	7	4		6	3	4	1	1	1	1	8	8	8	5		3				1			1			1	1				
AUGUST	11	9	2	5	2	3		1		4	2	4	1			1	5		4		1		1														
SEPTEMBER	17	9	8	4	3	3	5	2		4	4	3	4			1	5	4	5	3		1		1													
OCTOBER	19	8	11	4	6	3	5	1			5		5				8	6	6	5	2	1			1		1									1	
NOVEMBER	28	14	14	10	7	3	6	1	1	5	9	4	6		1	1	2	9	5	4	4	5	1				1	1	2		2						
DECEMBER	15	12	3	7	1	4	2	1		2		2					10	3	7	3	3		1				1		1								
TOTAL	209	117	92	70	46	36	39	11	7	38	46	30	34	1	3	7	9	79	46	60	36	19	10	3	1	1	1		3	5	2	3	1	3	2	4	



# FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

## AGE AND 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	M	F	M	F	M	F
Under 1 Year	White	2	1	1		1				1			1	1																
	Non-White	2	2							2	2																			
1 - 4	White	4	1	3		2				2			1	1	1	1														
	Non-White	4	3	1							3	1	3	1																
5 - 9	White	1	1																											
	Non-White	3	1	2	1				1		1	2	1	2																
10 - 14	White																													
	Non-White																													
15 - 19	White	3	3		1					1		2	2																	
	Non-White	1	1		1		1												1											
20 - 24	White	2	1	1							1	1		1	1				1											
	Non-White	3	2	1							2	1	2	1																
25 - 29	White	2	2									2	1	1									1							
	Non-White																													
30 - 34	White	9	7	2							7	2	6	2	1							1								
	Non-White	8	5	3							5	3	2	1	3	2		1	1	1		1		1				1		
35 - 39	White	8	6	2		1		1			6	1	6		1			1												1
	Non-White	3	3								3		2	1																1
40 - 44	White	8	6	2	1		1				5	2	3	1	2	1						1	1					1		1
	Non-White	6	6								6		3	3												2		1		
45 - 49	White	3	1	2		1		1			1	1		1	1		1													
	Non-White	6	4	2							4	2	2	2	2		1										1			
50 - 54	White	2	2								2		2																	
	Non-White	2	1	1							1	1		1	1							1	1							
55 - 59	White	5	4	1	2		2				2	1	1	1	1							1								
	Non-White	2	2		2		2																							
60 - 64	White	10	6	4	2	1	1	1		1	4	3	3	3	1		1													
	Non-White	6	3	3	1		1				2	3	1	1	1	2		1						1				1		
65 - 69	White	11	7	4	4	2	4	2			3	2	3	2																
	Non-White	4	3	1	3		2			1		1	1																	
70 - 74	White	12	5	7	3	5	3	5			2	2	2	1		1										1				
	Non-White	2	1	1	1					1		1	1																	
75 - 79	White	11	4	7	1	4	2			2	3	3	3	2		1						1								
	Non-White	6	2	4							2	4	2	3		1												1		
80 - over	White	55	19	36	15	28	12	21		3	7	4	8	4	8															
	Non-White	3	2	1		1		1			2		2																	
TOTAL	White	148	76	72	30	45	24	33	1	3	5	9	46	27	38	23	8	4	2		1		2	3	1	1	1		1	
	Non-White	61	41	20	8	1	6	1			2		33	19	22	13	11	6	1	1	1		1	2	1	2	3	2	3	
GRAND TOTAL		209	117	92	38	46	30	34	1	3	7	9	79	46	60	36	19	10	3	1	1	1	3	5	2	3	1	3	2	4

















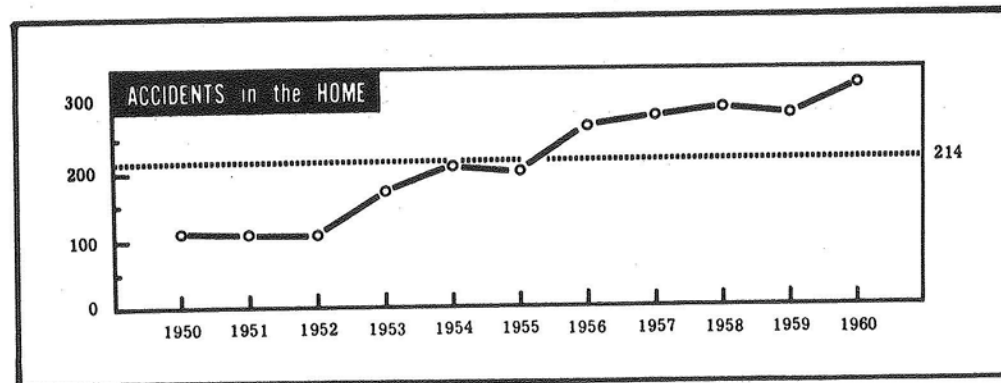
# FATALITIES RESULTING FROM ACCIDENTS IN THE HOME

## 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-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	1							1	1											1			1	2			1	1			1	6	5	11		
BURNING	1	1	3	1					1											1		1					2	3		1	1			2		13	5	18		
CARBON MONOXIDE	2		1		1	2			1			1							2	1		2	1	2		4	2			1	1	1	1	2	16	12	28			
CRUSHING																										1										1		1		
ELECTROCUTION				1																																	1		1	
EXPOSURE																																						2		2
FALLING											1					1	1	4		1	1	2		3		1	2	4	4	5	5	4	7	18	34	44	54	98		
POISONING										2		1			11	5	8	1	4	1	3	1		1		1	2					1				31	11	42		
SHOOTING								1							1										1												3		3	
UNDETERMINED																			1																		1	1	2	
OTHERS				1					1																		1										2	1	3	
<b>TOTAL</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>4</b>	<b>2</b>	<b>2</b>			<b>4</b>		<b>3</b>	<b>2</b>	<b>2</b>		<b>12</b>	<b>5</b>	<b>9</b>	<b>2</b>	<b>12</b>	<b>2</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>1</b>	<b>6</b>	<b>1</b>	<b>9</b>	<b>7</b>	<b>10</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>6</b>	<b>11</b>	<b>21</b>	<b>37</b>	<b>117</b>	<b>92</b>	<b>209</b>	

**FOR A PERIOD OF TWELVE YEARS - 1960**



From 1960 Coroner's Statistical Report





# 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-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	1			1		1		1	1		1		1	1	5	6	9	15		
E881 - From Ladder																																					3		3	
E882 - From Building or Other Structure											1								1																	1	3	1	4	
E884 - From One Level to Another																																								
Bed																																				2	3	2	3	5
Cane																																				1	1	1	1	2
Chair																								1				2								1	1	4	1	5
Couch																													1								1	1	1	2
Walker																																				2			2	2
E885 - On Same Level																		1	1									2	1	2	4	4	2	4	10	21	18	34	52	
E888 - Unspecified																	1	1																	3	1	6	2	8	
TOTAL											1					1	1	4			1	1	2		3		1	2	4	4	5	5	4	7	18	34	44	54	98	

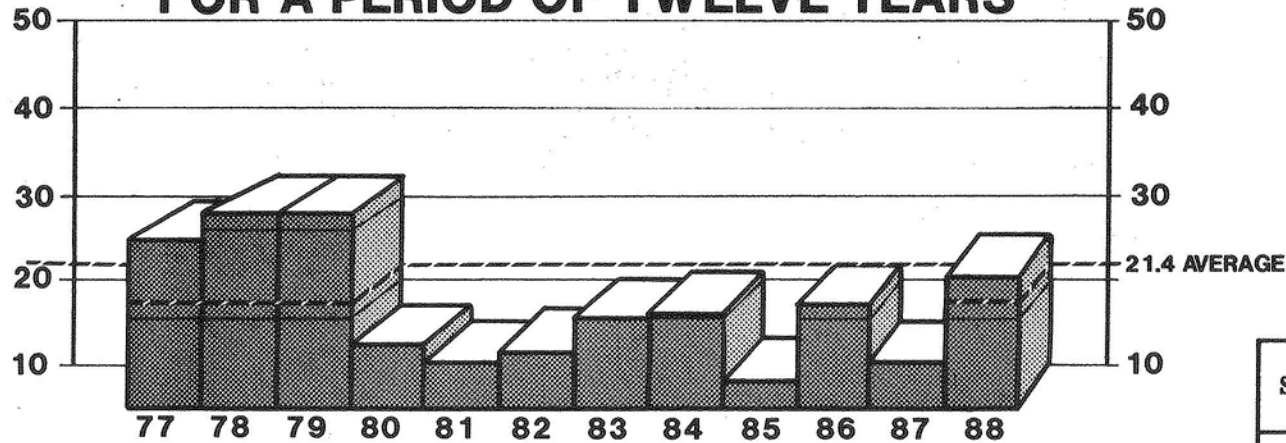
\* International Classification of Diseases by World Health Organization: Ninth Revision.



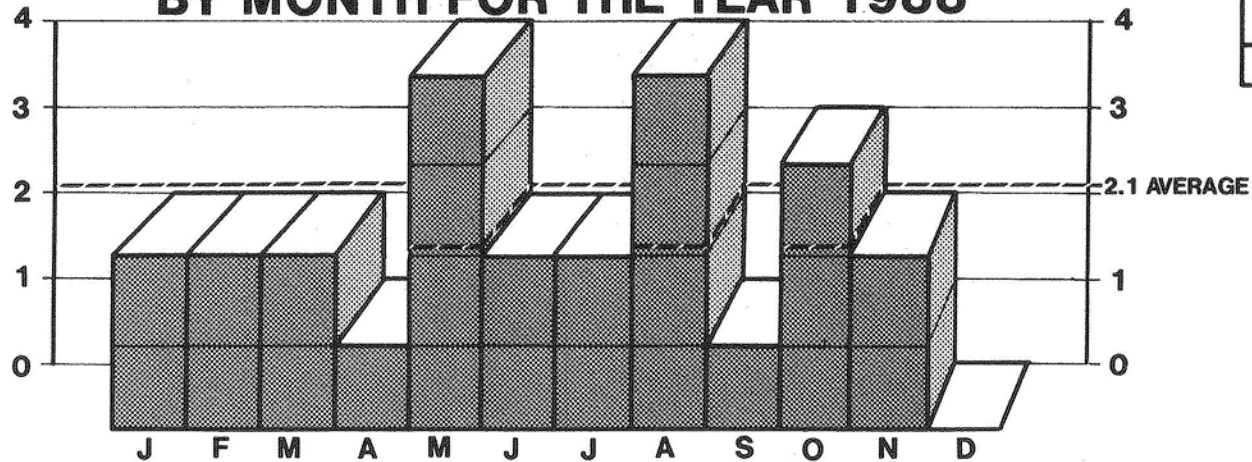


# ACCIDENTS WHILE AT WORK

**FOR A PERIOD OF TWELVE YEARS**



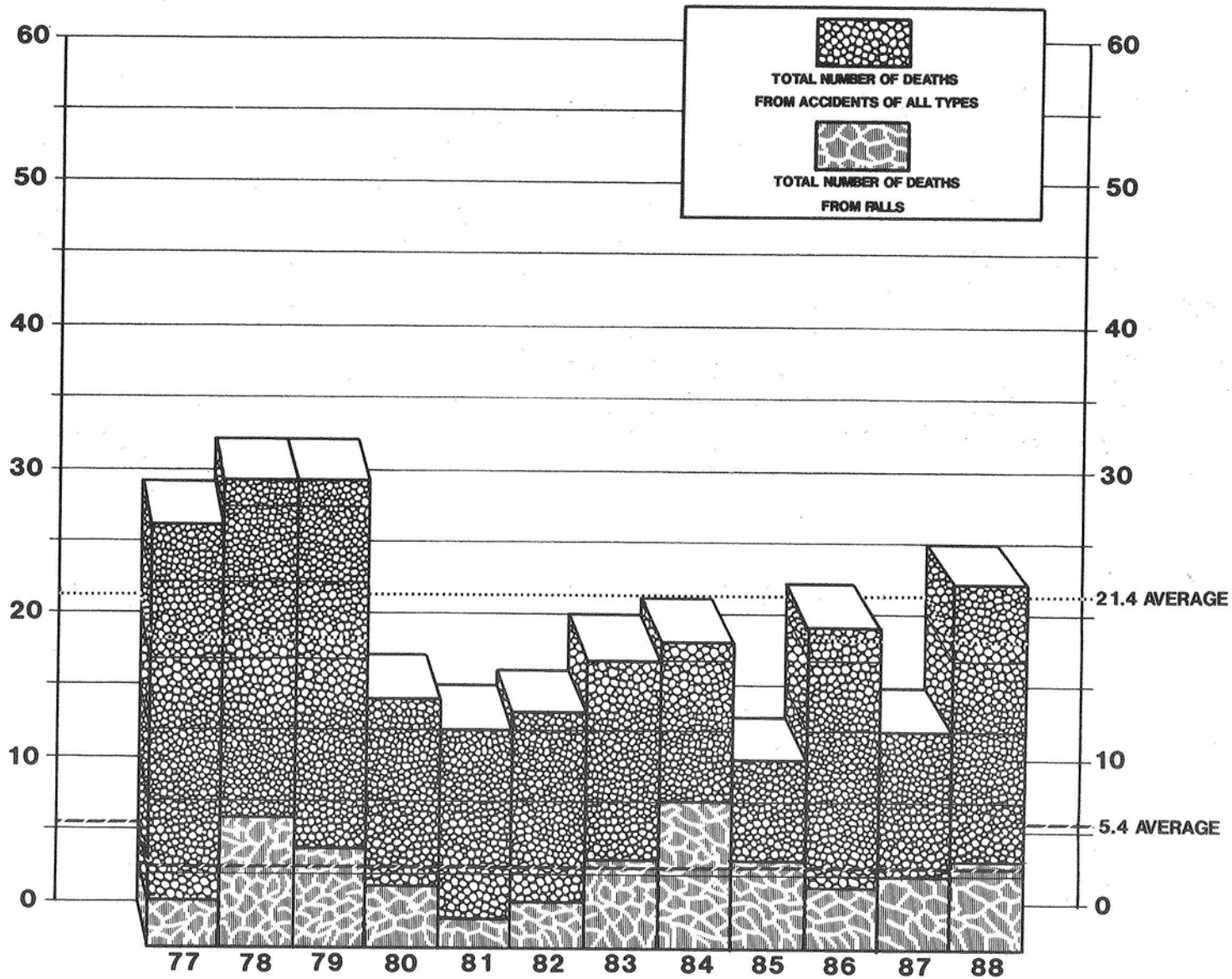
**BY MONTH FOR THE YEAR 1988**



		NUMBER	PERCENT
SEX	MALE	25	100
	FEMALE	0	0
RACE	WHITE	20	80
	NON-WHITE	5	20
ALCOHOL	TESTED	22	88
	POSITIVE	1	5
AUTOPSY	AUTOPSIED	24	96

1988
TOTAL CASES
25

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

















## FATALITIES RESULTING FROM ACCIDENTS WHILE AT WORK MODE - AGE GROUPS

TABLE 22

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-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																												1		1	
BURNING														1													1										2		2
CARBON MONOXIDE																			1		1						1										3		3
CRUSHING												1			1	1			2		1					1										7		7	
ELECTROCUTION															1																						1		1
EXPLOSION								1																													1		1
FALLING										2	1							2						1			1						1			8		8	
STRUCK BY OBJECT										1	1																										2		2
TOTAL								2		3		3		1		2		3		3		2		1		3		1						1		25		25	

## FALLS - ALCOHOL INCIDENCE

TABLE 23

FALLS BY CODE*	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	M	F											
E881 - From Ladder or Scaffolding	3	3																																						
E882 - From Building or Other Structure	2	2																																						
E884 - From One Level to Another																																								
Crane Bucket	1	1																																						
Truck	1	1																																						
E885 - On Same Level	1	1		1		1																																		
TOTAL	8	8			1		1																																	

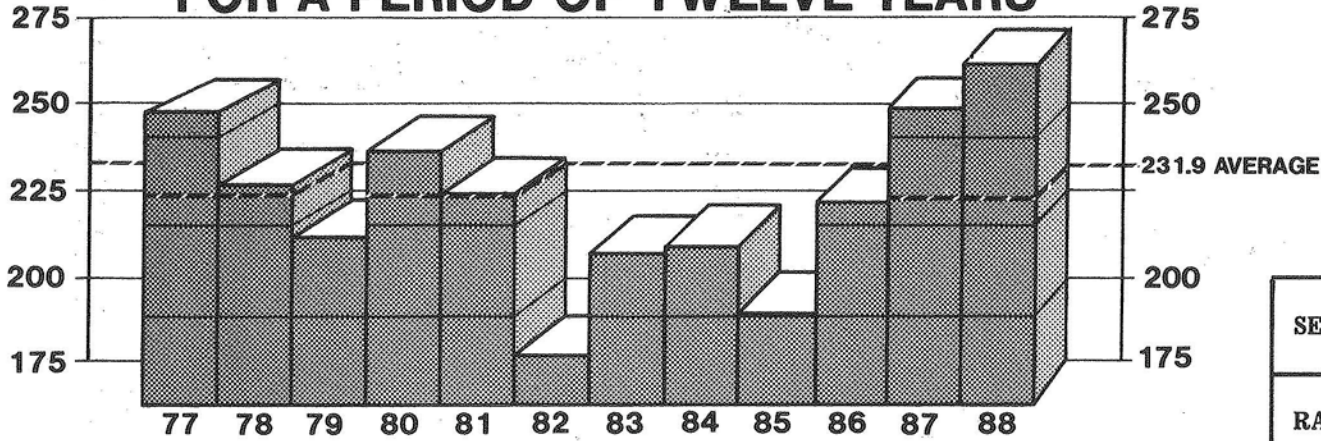
\* International Classification of Diseases by World Health Organization: Ninth Revision.





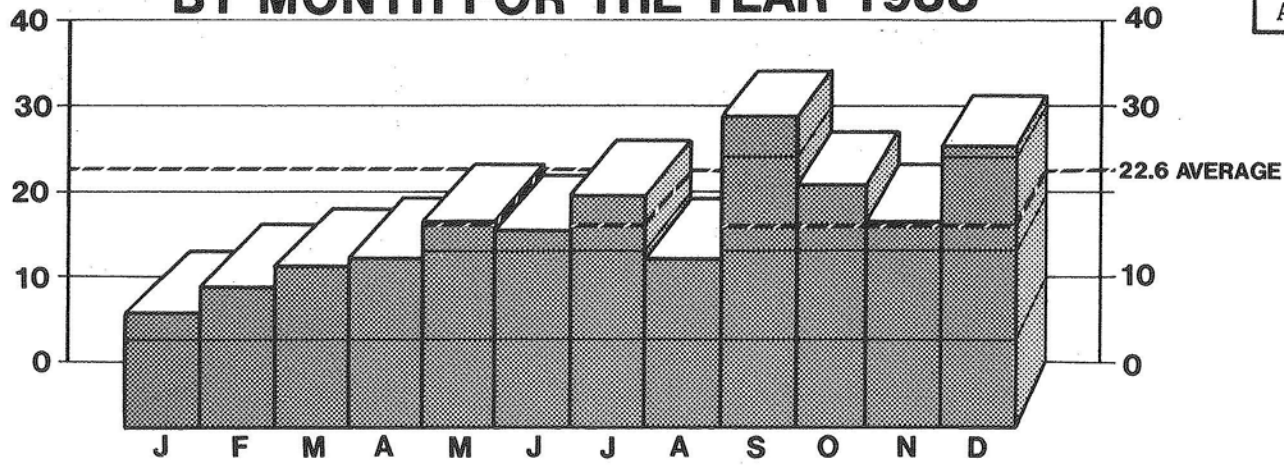
# ACCIDENTS IN OTHER PLACES

**FOR A PERIOD OF TWELVE YEARS**



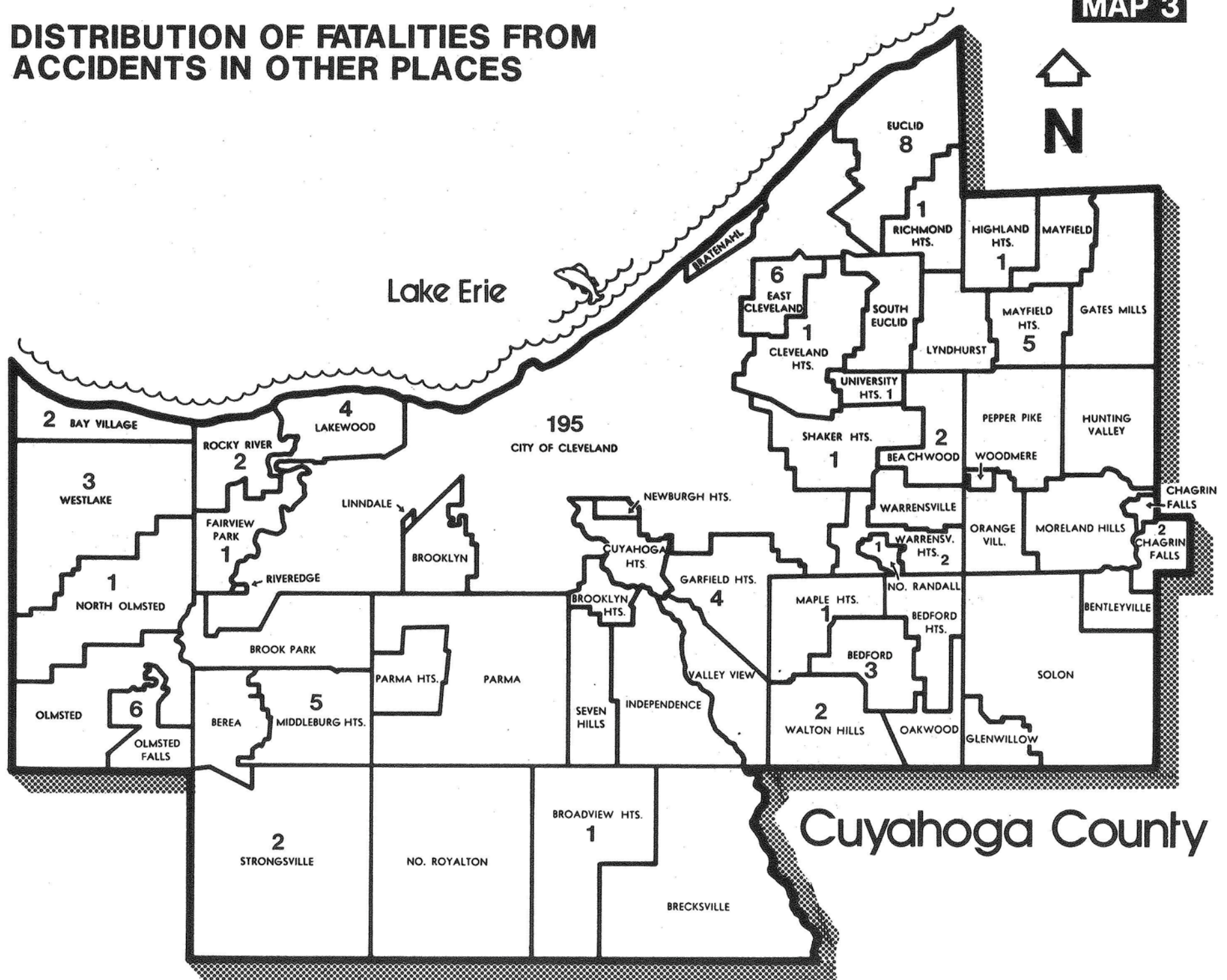
		NUMBER	PERCENT
SEX	MALE	156	58
	FEMALE	115	42
RACE	WHITE	208	77
	NON-WHITE	63	23
ALCOHOL	TESTED	89	33
	POSITIVE	24	27
AUTOPSY	AUTOPSIED	104	38

**BY MONTH FOR THE YEAR 1988**



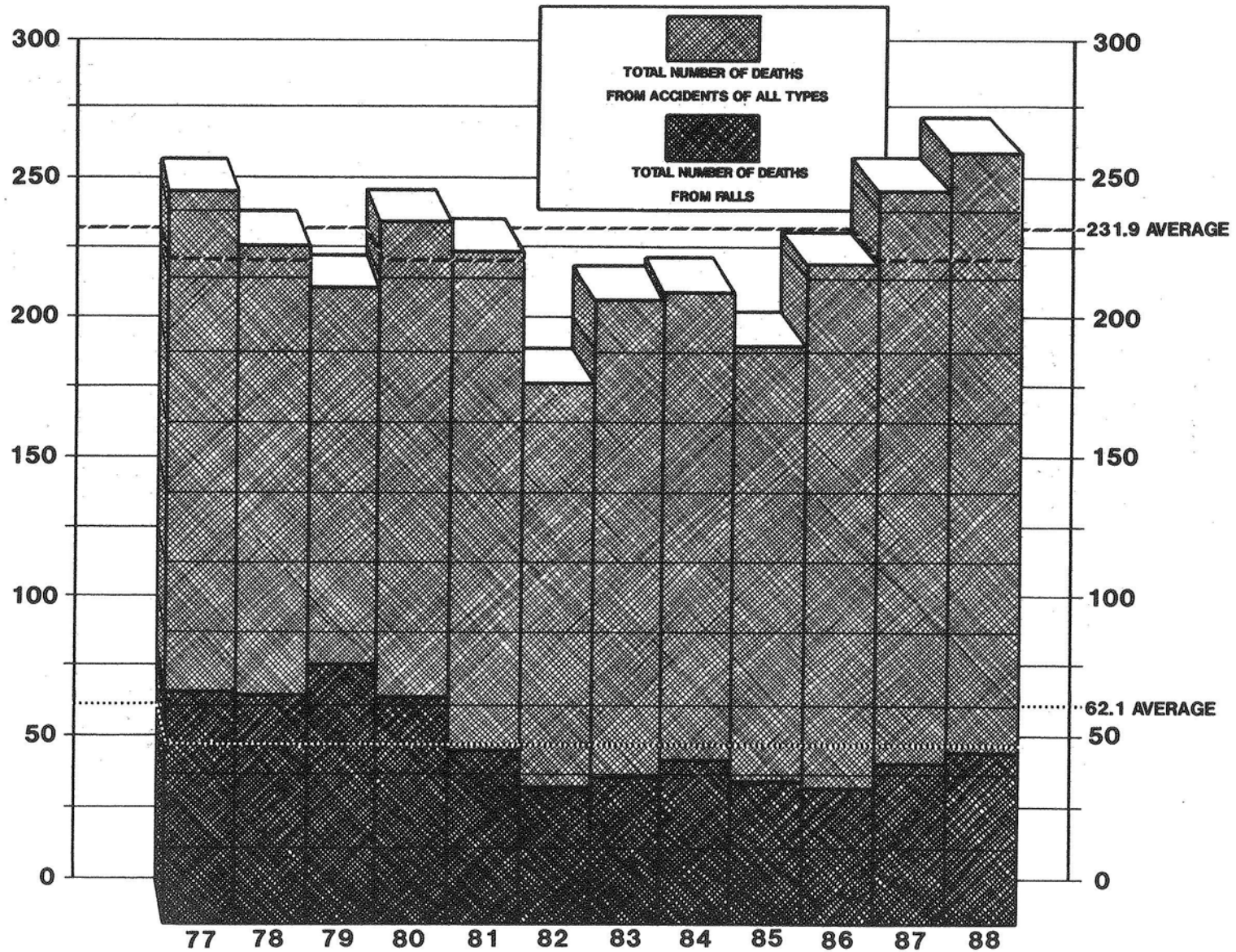
1988
TOTAL CASES
271

# DISTRIBUTION OF FATALITIES FROM ACCIDENTS IN OTHER PLACES





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









# FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES

## AGE-RACE-ALCOHOL INCIDENCE

**TABLE 26**

AGE	RACE	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	M	F	M	F	
Under 1 Year	White	8	6	2	5	2	2	1	3	1			1	1																			
	Non-White	1		1										1	1																		
1 - 4	White	5	3	2	3	2	1		2	2																							
	Non-White																																
5 - 9	White	3	2	1									2	1	2	1																	
	Non-White																																
10 - 14	White	1	1										1	1																			
	Non-White																																
15 - 19	White	2	2										2	2																			
	Non-White	1	1										1			1	1																
20 - 24	White	2	2		2		2																										
	Non-White	3	1	2		1					1	1	1	1																			
25 - 29	White	4	3	1	1	1	1	1				2			2						1	1											
	Non-White	6	6		1		1					5		3	2		2																
30 - 34	White	6	5	1	1		1					4	1	1	1	3					2					1							
	Non-White	10	8	2	1		1					7	2	3	2	4		1	1		1				1								
35 - 39	White	5	4	1								4	1		1	4					2		1						1				
	Non-White	7	5	2	2	1	2	1				3	1	2		1	1		1	1													
40 - 44	White	5	3	2	1	1	1	1				2	1	2	1																		
	Non-White	4	3	1	1		1					2	1	2			1					1											
45 - 49	White	8	6	2	4	2	2	2		2		2		2																			
	Non-White	5	4	1	2		1			1		2	1	1	1	1				1													
50 - 54	White	5	3	2	1	2		2		1		2		1		1										1							
	Non-White	4	2	2	2	1	1	1		1			1		1																		
55 - 59	White	14	8	6	7	5	5	3		2	2	1	1	1	1																		
	Non-White	3	1	2		1		1				1	1	1	1																		
60 - 64	White	23	17	6	13	3	5	2		8	1	4	3	3	3	1			1														
	Non-White	9	4	5	2	5	1	4		1	1	2		1		1										1							
65 - 69	White	23	13	10	11	7	1	2		10	5	2	3	1	3	1										1							
	Non-White	2	1	1		1					1	1		1																			
70 - 74	White	24	16	8	15	7	10	5		5	2	1	1	1	1																		
	Non-White	2		2		2					2																						
75 - 79	White	20	11	9	9	9	7	6		2	3	2		2																			
	Non-White	1	1		1					1																							
80 - over	White	50	13	37	8	32	7	24		1	8	5	5	5	5																		
	Non-White	5	1	4	1	3	1	2			1		1		1																		
TOTAL	White	208	118	90	81	73	45	49	5	3	31	21	37	17	25	17	12								1		5		4		1		1
	Non-White	63	38	25	13	15	9	9			4	6	25	10	15	8	10	2	4	1	2				1	1	1		1		1		
GRAND TOTAL		271	156	115	94	88	54	58	5	3	35	27	62	27	40	25	22	2	4	1	2				2	1	6		5		2		1

# FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES

## MODE - ALCOHOL INCIDENCE

**TABLE 27**

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	M	F	M	F	M	F		
ASPHYXIA	19	13	6	9	1	2	5	2		1	2		1			1	1	12	4	8	4	4		2		1								1					
BOATING ACCIDENT	2	2		2														2				2																	
BURNING	2	2				1		1		2		2																											
CARBON MONOXIDE	2	2		1				1										2		1		1															1		
EXPOSURE	6	5	1	4		1	1			1		1					4	1	2	1	2														1		1		
FALLING	59	27	32	12	12	11	19	4	1	15	27	10	21			5	6	12	5	9	5	3					2		1										
POISONING	24	19	5	18	5	1				2		1			1		17	5	8	3	9	2	2	1	1			1	3		2						1		
THERAPEUTIC COMPLICATION	144	76	68	70	52	6	16			69	56	36	35	5	3	28	18	7	12	7	12																		
TRAIN ACCIDENT	1	1		1													1				1								1										
UNDETERMINED	9	7	2	7	1		1			4	2	4				2	3			3																			
OTHER*	3	2	1			2	1				1		1				2			2																			
<b>TOTAL</b>	<b>271</b>	<b>156</b>	<b>115</b>	<b>124</b>	<b>71</b>	<b>24</b>	<b>43</b>	<b>8</b>	<b>1</b>	<b>94</b>	<b>88</b>	<b>54</b>	<b>58</b>	<b>5</b>	<b>3</b>	<b>35</b>	<b>27</b>	<b>62</b>	<b>27</b>	<b>40</b>	<b>25</b>	<b>22</b>	<b>2</b>	<b>4</b>	<b>1</b>	<b>2</b>		<b>2</b>	<b>1</b>	<b>6</b>		<b>5</b>		<b>2</b>		<b>1</b>			

\* Skateboard accident, softball player collided with plate and other player, and fracture while being moved.







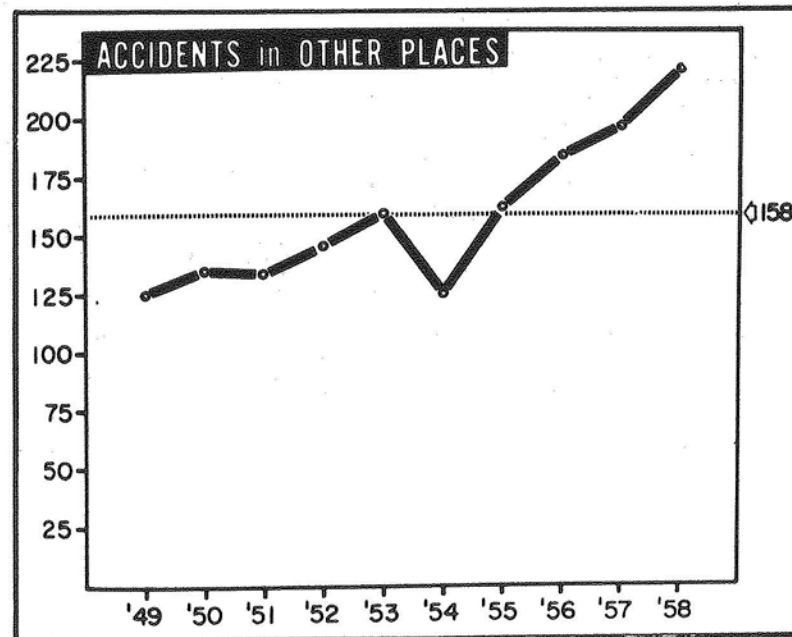


# FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES MODE-AGE GROUPS

**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-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					2	1			2		1		1	1	2		1		1				1					1	1			1	1	2	13	6	19	
BOATING ACCIDENT																2																				2		2	
BURNING										1														1												2		2	
CARBON MONOXIDE															1														1							2		2	
EXPOSURE															1		1							1		1		2								5	1	6	
FALLING								1					3					1		1		2	1	2	2	3	2		1		1	4	1	10	24	27	32	59	
POISONING												4		5	1	4	1	2	2	2	1			1		1										19	5	24	
THERAPEUTIC COMPLICATION	6	3	3	2						1	2				1	2	2	1	1	1	6	2	2	3	4	6	16	9	11	9	14	9	7	7	2	12	76	68	144
TRAIN ACCIDENT															1																					1		1	
UNDETERMINED													1		1				1		1							1		1					1	2	7	2	9
OTHER							1								1																				1	2	1	3	
<b>TOTAL</b>	<b>6</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>9</b>	<b>1</b>	<b>13</b>	<b>3</b>	<b>9</b>	<b>3</b>	<b>6</b>	<b>3</b>	<b>10</b>	<b>3</b>	<b>5</b>	<b>4</b>	<b>9</b>	<b>8</b>	<b>21</b>	<b>11</b>	<b>14</b>	<b>11</b>	<b>16</b>	<b>10</b>	<b>12</b>	<b>9</b>	<b>14</b>	<b>41</b>	<b>156</b>	<b>115</b>	<b>271</b>		

**FOR A PERIOD OF TWELVE YEARS - 1958**



From 1958 Coroner's Statistical Report

# FATALITIES RESULTING FROM ACCIDENTS IN OTHER PLACES

## FALLS - ALCOHOL INCIDENCE

**TABLE 31**

FALLS BY CODE*	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	M	F	M	F
E880 - From Stairs	2	1	1	1	1					1	1																				
E882 - From Building or Other Structure	8	7	1	2		1				1		5	1	2	1	3				2		1									
E884 - From One Level to Another																															
Bed	6	3	3	3	3	3	2				1																				
Chair	4	2	2	2	2	2	2																								
Examining Table	1		1		1		1																								
Stretcher	1		1									1			1																
Walker	5	1	4	1	3	1	2				1	1			1																
Wheelchair	1		1		1		1																								
E885 - On Same Level	28	11	17	5	15	2	12			3	3	6	2	6	2																
E888 - Unspecified	3	2	1	1	1	1	1					1		1																	
<b>TOTAL</b>	<b>59</b>	<b>27</b>	<b>32</b>	<b>15</b>	<b>27</b>	<b>10</b>	<b>21</b>			<b>5</b>	<b>6</b>	<b>12</b>	<b>5</b>	<b>9</b>	<b>5</b>	<b>3</b>				<b>2</b>		<b>1</b>									

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



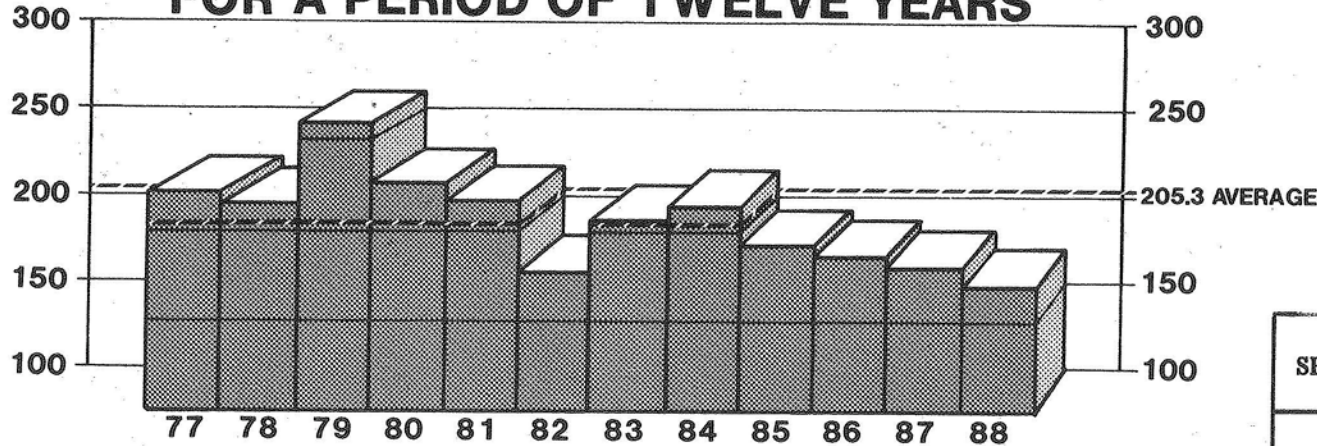




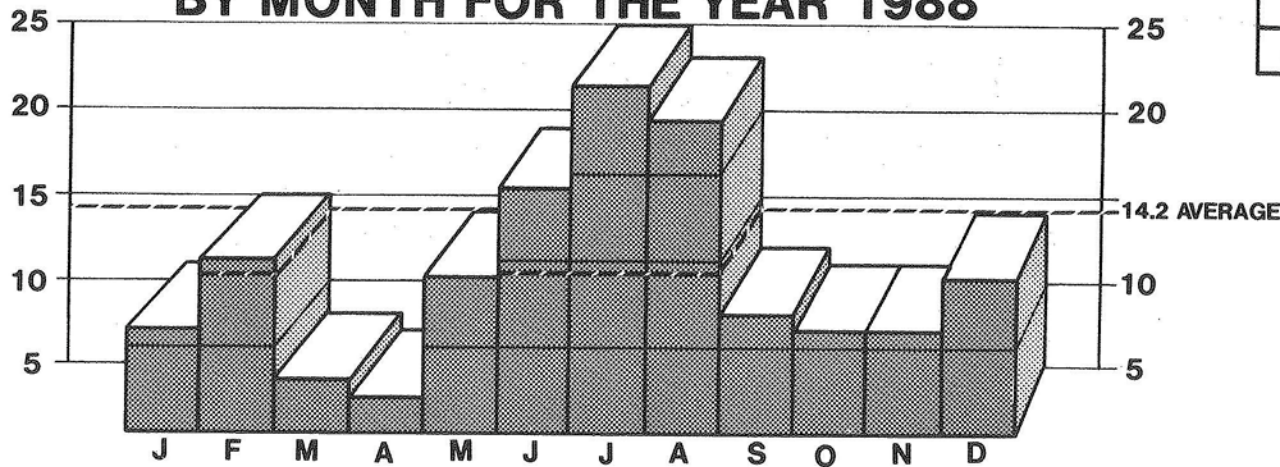


# VEHICULAR ACCIDENTS

FOR A PERIOD OF TWELVE YEARS



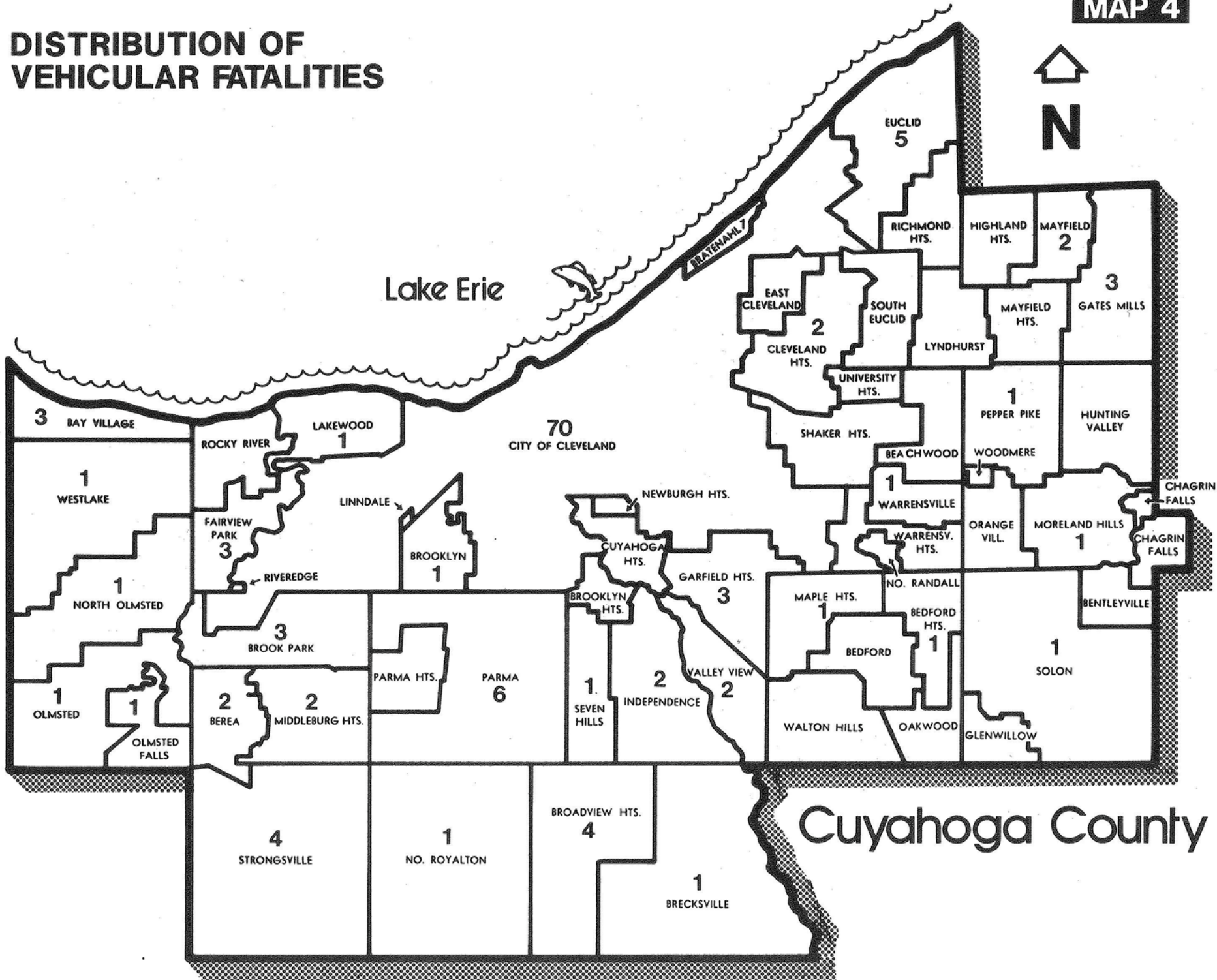
BY MONTH FOR THE YEAR 1988



		NUMBER	PERCENT
SEX	MALE	110	65
	FEMALE	60	35
RACE	WHITE	130	76
	NON-WHITE	40	24
ALCOHOL	TESTED	152	89
	POSITIVE	55	36
AUTOPSY	AUTOPSIED	170	100

1988
TOTAL CASES
170

# DISTRIBUTION OF VEHICULAR FATALITIES





# PHARMACOLOGICAL EFFECTS OF ALCOHOL



## 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  
GENEROSITY  
ALTERED JUDGMENT  
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



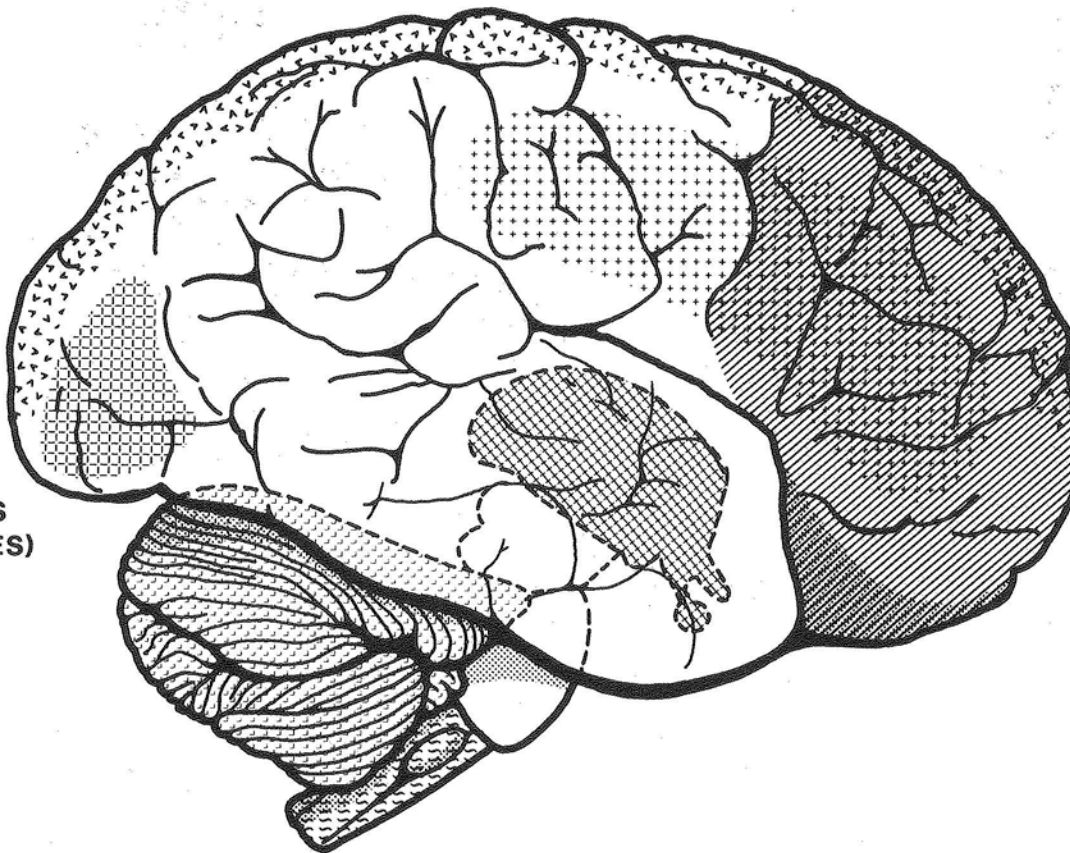
## DIENCEPHALON

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



## MEDULLA

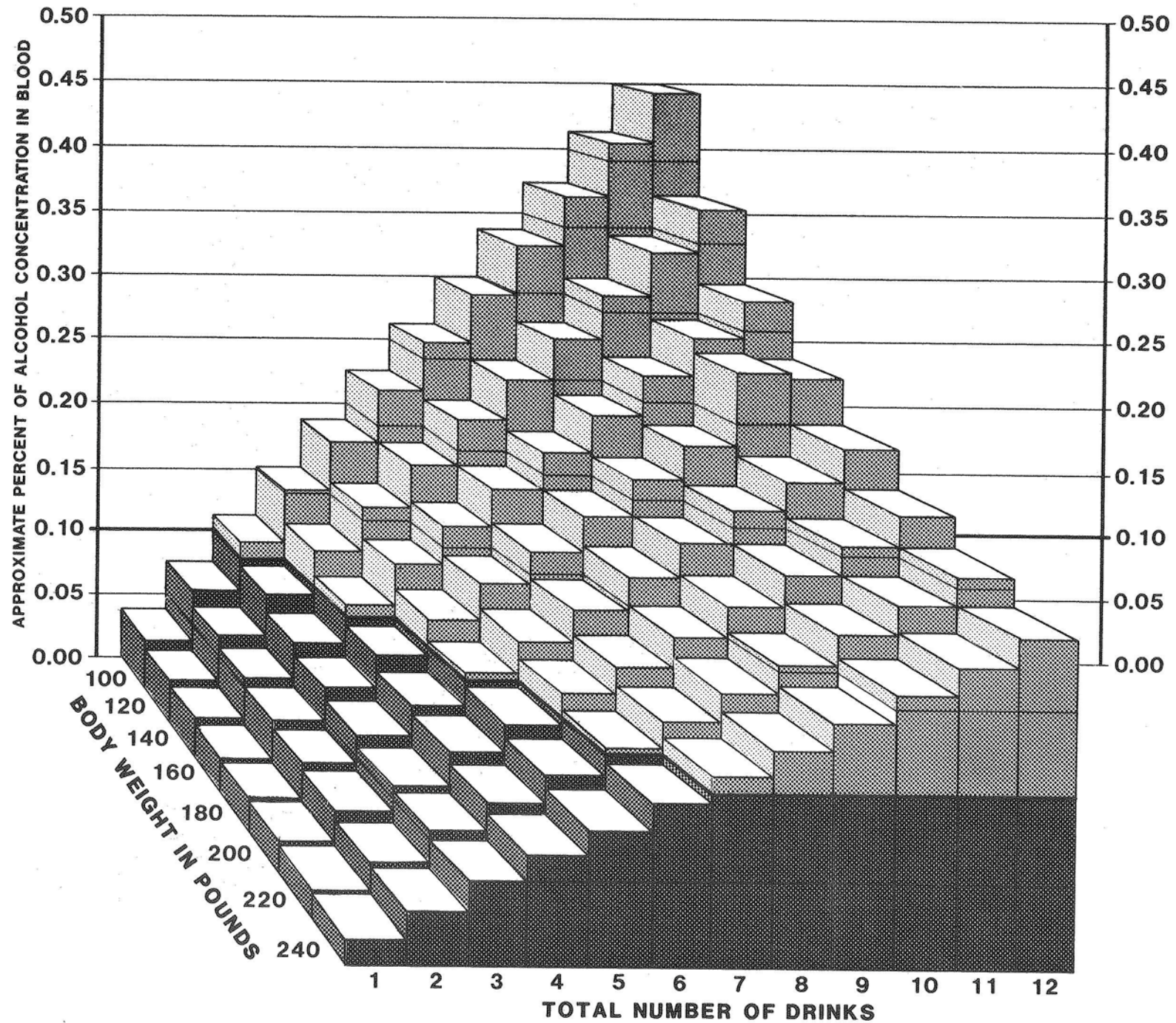
AFFECTED BY 0.40 - 0.50% ALCOHOL  
DEPRESSION OF RESPIRATION  
PERIPHERAL COLLAPSE  
SUBNORMAL TEMPERATURE  
DEATH



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



# BLOOD ALCOHOL CONCENTRATION BY WEIGHT





# 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	0.234
	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	0.169	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	10

TOTAL NUMBER OF DRINKS\*\*

\* 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.

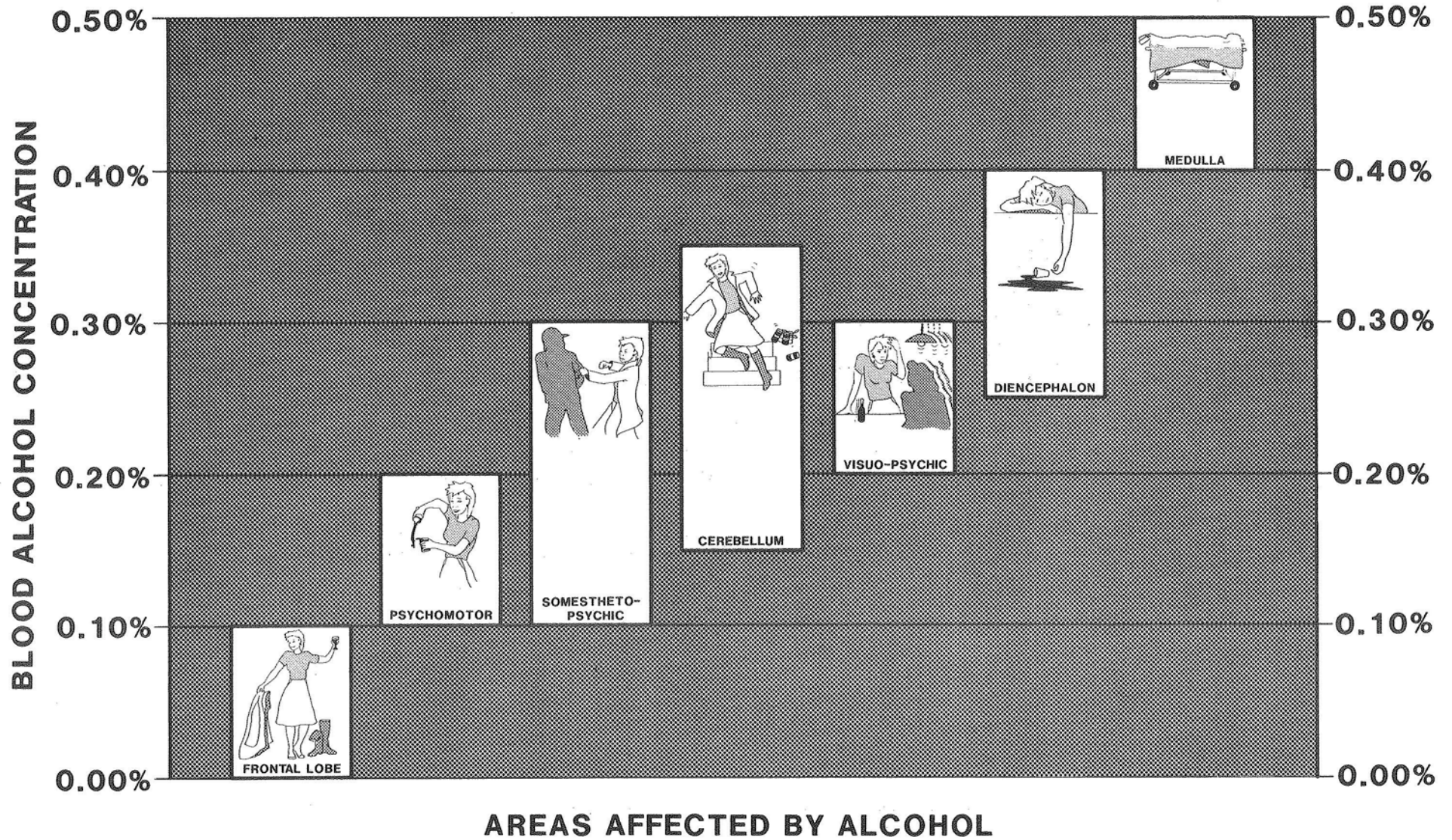
\*\* A drink is defined as one ounce of 100 proof of "hard liquor" (whiskey, vodka, gin, etc.) or twelve ounces of 4% beer or three ounces of fortified wine.

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

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.

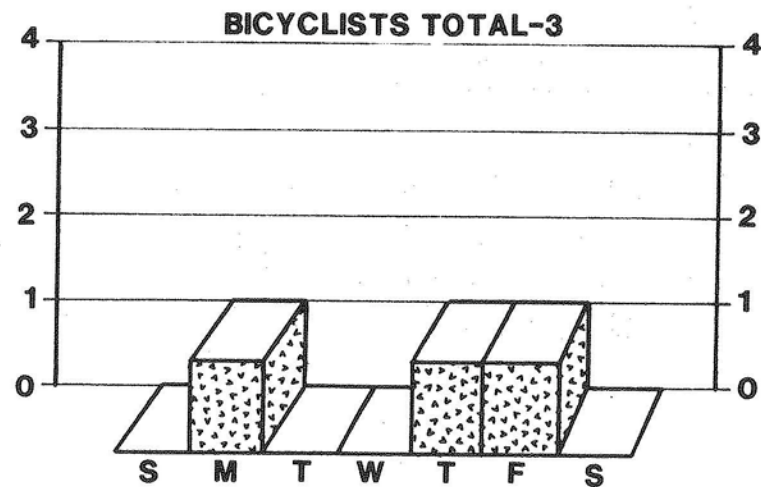
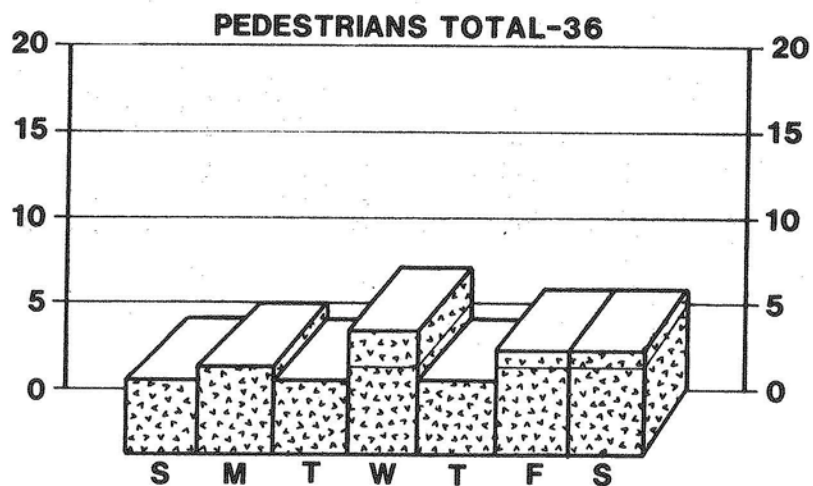
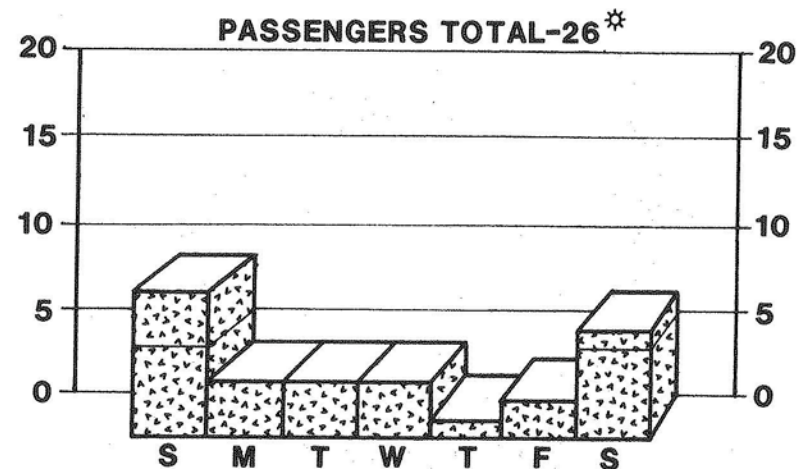
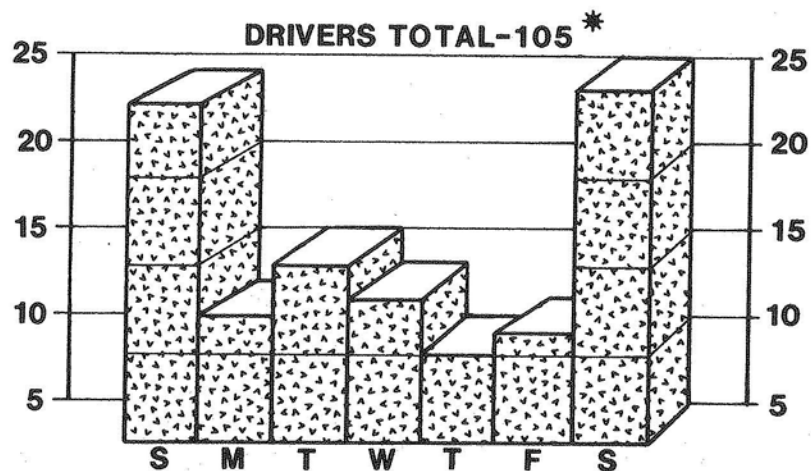


# ALCOHOL EFFECTS ON BRAIN DEMONSTRATED PICTORIALLY





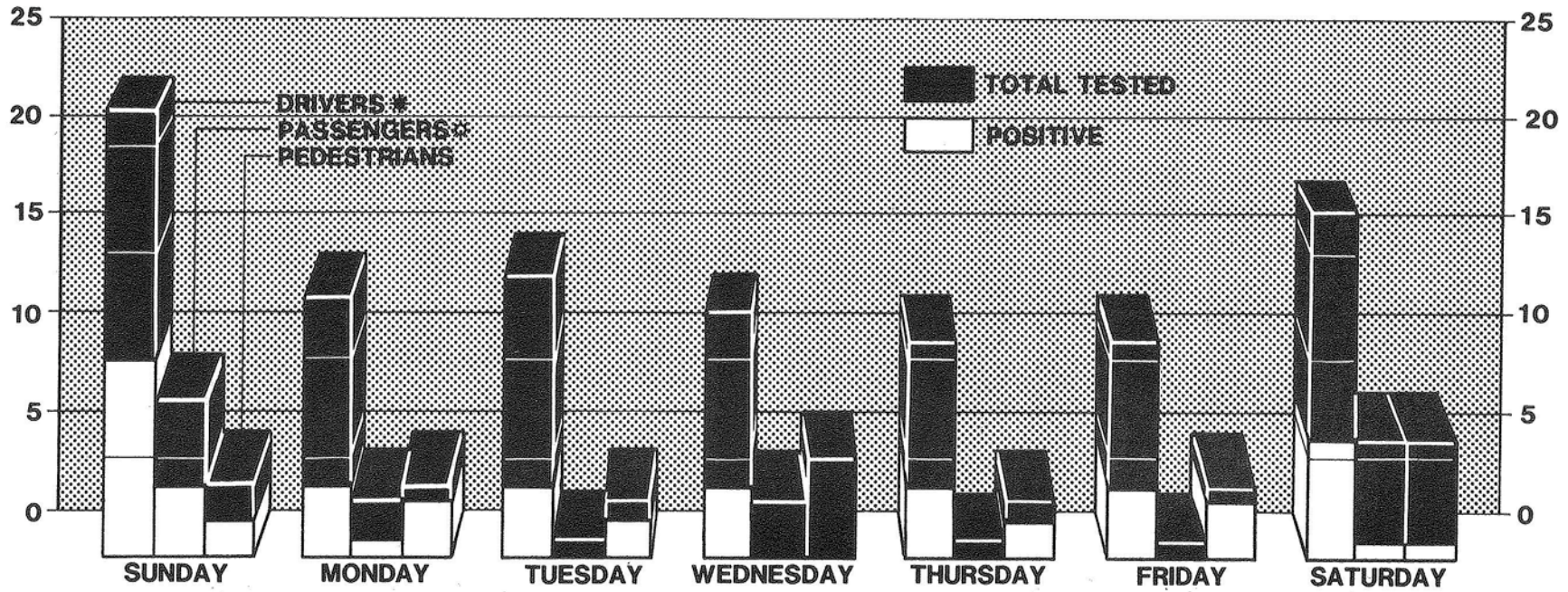
## VEHICULAR FATALITIES DAILY INCIDENCE



\* INCLUDES 13 MOTORCYCLISTS

\* INCLUDES 3 MOTORCYCLE PASSENGERS

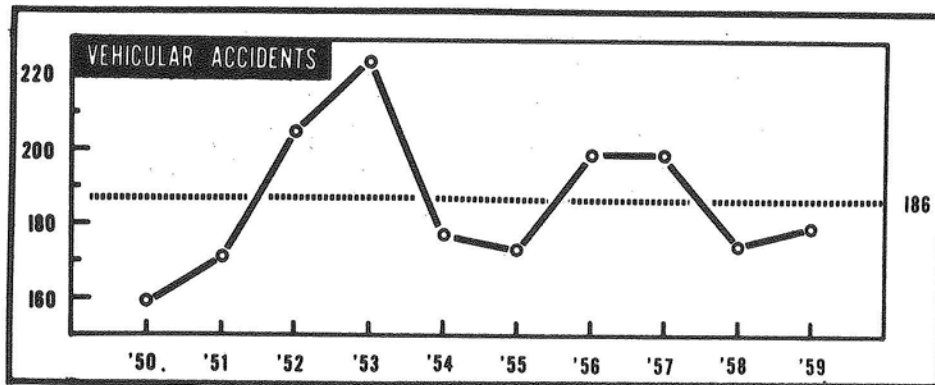
# VEHICULAR FATALITIES DAILY ALCOHOL INCIDENCE



- \* INCLUDES 13 MOTORCYCLE DRIVERS
- \* INCLUDES 3 BICYCLE DRIVERS
- \* INCLUDES 3 MOTORCYCLE PASSENGERS

	TESTED	POSITIVE
<b>DRIVERS:</b>	<b>100</b>	<b>36</b>
<b>PASSENGERS:</b>	<b>23</b>	<b>6</b>
<b>PEDESTRIANS:</b>	<b>29</b>	<b>13</b>
<b>TOTAL:</b>	<b>152</b>	<b>55</b>

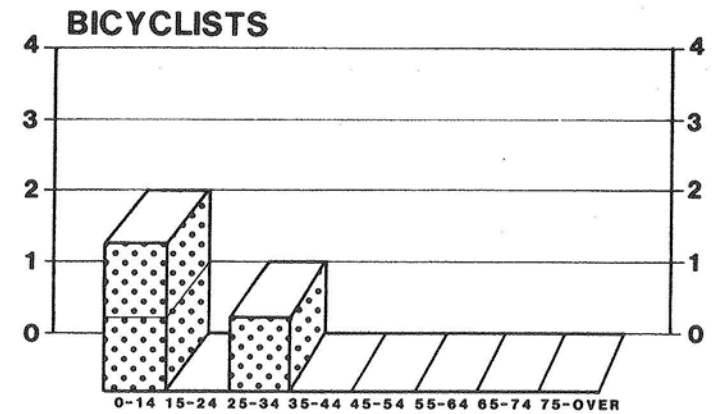
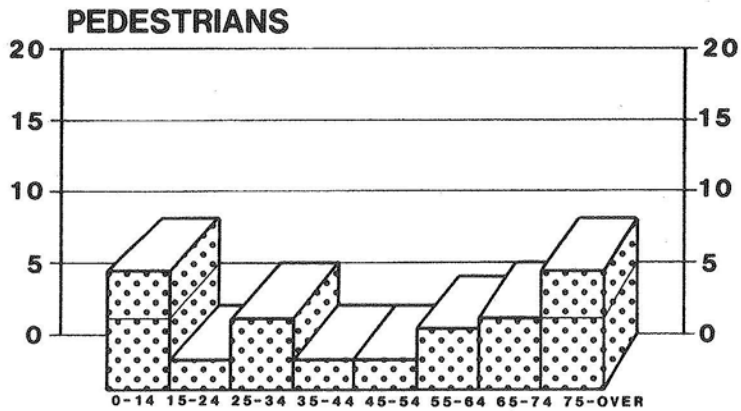
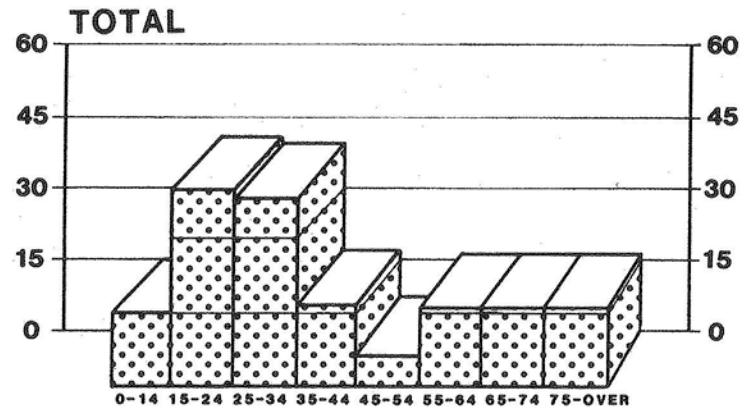
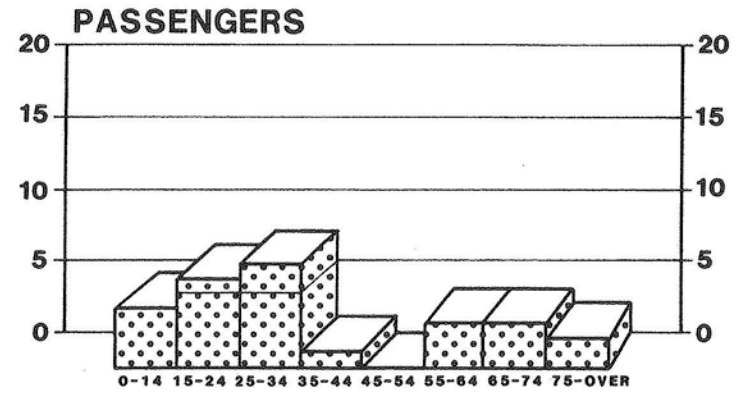
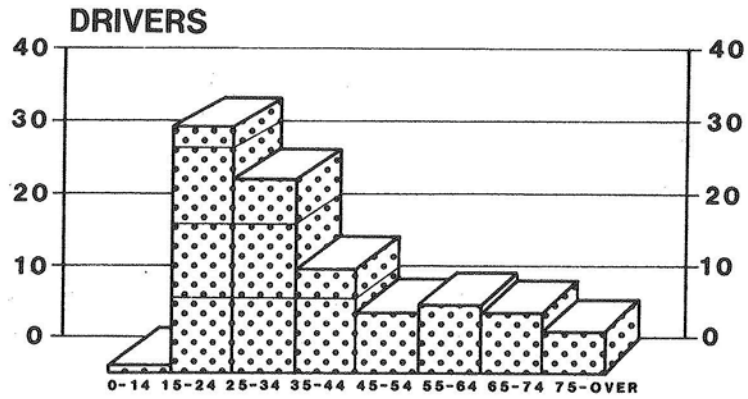
FOR A PERIOD OF TWELVE YEARS - 1959



From 1959 Coroner's Statistical Report



# VEHICULAR FATALITIES AGE GROUPS-CLASSIFICATION OF VICTIMS







# 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	M	F	M	F			
JANUARY	11	6	5	5	2	1	1		2				1		1					6	4	2	3	4	1	1		1						2	1					
FEBRUARY	15	10	5	3	2	6	3	1					3		1		2			7	5	4	3	3	2					2				1	1		1			
MARCH	8	6	2	4		1	2	1					1		1					6	1	1	1	5					2		1		1					1		
APRIL	7	4	3	2	2	1			1	1										4	3	1	2	3	1						1	1	2							
MAY	14	10	4	1	3	5	1	4					1				1			9	4	8		1	4		1				1		2	1						
JUNE	19	14	5	6	2	5	2	3	1				2		2					12	5	6	2	6	3			1		2		1	3	1		1				
JULY	25	17	8	8	3	4	3	4	2	1			3		2		1			14	8	8	6	6	2	2		1		2		2			1					
AUGUST	23	14	9	7	3	5	3	2	3				1	2	1	2				13	7	11	7	2							1								1	
SEPTEMBER	12	7	5	2	3	3	1	2	1				2		1			1		7	3	5	2	2	1						1	1				1				
OCTOBER	11	7	4	2	1	2	2	2	1	1										7	4	5	3	2	1						1	1		1						
NOVEMBER	11	8	3	3	1	3	2	2												8	3	7	1	1	2					1	1			1						
DECEMBER	14	7	7	2	3	3	3	2	1				1	1	1	1				6	6	4	5	2	1					1			1	1						
TOTAL	170	110	60	45	25	39	23	23	12	3			11	7	7	6	3		1	1	99	53	62	35	37	18	3	1	3		9	4	7	9	10	3	3	1	2	

# VEHICULAR FATALITIES

## DAILY ALCOHOL INCIDENCE

**TABLE 35**

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	M	F	M	F	M	F
SUNDAY	36	23	13	1	1	1	1					22	12	13	5	9	7			1		3	2	2	4	2	1			1	
MONDAY	21	15	6	1		1						14	6	7	5	7	1	1	1			2		2		1		1			
TUESDAY	22	16	6	3	1	1	1	2				13	5	10	2	3	3	1		1				1		1	1	1	1		
WEDNESDAY	23	16	7	1	2	1	2					15	5	13	3	2	2					1	1		1	1					
THURSDAY	16	10	6		1					1		10	5	5	4	5	1	1				1		1		2	1				
FRIDAY	20	13	7	2	2	1	2	1				11	5	5	4	6	1			1		1		2	1	2					
SATURDAY	32	17	15	3		2				1		14	15	9	12	5	3					1	1		2	2		1		1	
TOTAL	170	110	60	11	7	7	6	3		1	1	99	53	62	35	37	18	3	1	3		9	4	7	9	10	3	3	1	2	



# VEHICULAR FATALITIES AGE-RACE-ALCOHOL INCIDENCE

**TABLE 36**

AGE	RACE	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	M	F	M	F
Under 1 Year	White																															
	Non-White																															
1 - 4	White	3	2	1	1							1	1	1	1																	
	Non-White	2	1	1	1								1		1																	
5 - 9	White	2	1	1	1							1		1																		
	Non-White	2	1	1									1	1																		
10 - 14	White	4	4									4		3			1															
	Non-White	2	2									2		2																		
15 - 19	White	12	5	7		1		1				5	6	3	5	2	1					2	1									
	Non-White	3	3									3		3																		
20 - 24	White	20	14	6	2		2					12	6	6		6	6	1	1	1		3	2		3	1						
	Non-White	6	4	2								4	2	3	2	1								1								
25 - 29	White	19	13	6								13	6	7	2	6	4					1			2	3	1	1	1			
	Non-White	5	4	1	1		1					3	1	3	1																	
30 - 34	White	11	7	4								7	4	4	3	3	1							1	2		1					
	Non-White	4	1	3								1	3		3	1										1						
35 - 39	White	7	3	4								3	4	2	2	1	2					1		1	2							
	Non-White	3	3									3		1		2		1							1							
40 - 44	White	7	5	2		1		1				5	1	1		4	1						2	1	1			1				
	Non-White																															
45 - 49	White	1		1									1				1									1						
	Non-White	2	1	1								1	1	1			1									1						
50 - 54	White	3	2	1								2	1	2	1										1							
	Non-White	4	4									4		3		1								1								
55 - 59	White	6	6		1		1					5		3		2							1		1							
	Non-White	1		1									1		1																	
60 - 64	White	8	5	3	1					1		4	3	2	3	2						1		1								
	Non-White	1		1									1		1																	
65 - 69	White	9	5	4	1	3	1	2			1	4	1	3	1	1				1												
	Non-White	2	2									2				2					1		1									
70 - 74	White	4	3	1								3	1	2		1	1					1		1								
	Non-White	1	1									1		1																		
75 - 79	White	4	3	1								3	1	3	1																	
	Non-White																															
80 - over	White	10	3	7	1	2	1	2				2	5	1	5	1						1										
	Non-White	2	2		1		1					1		1																		
TOTAL	White	130	81	49	8	7	5	6	2		1	1	73	42	43	25	30	17	2	1	3		8	4	4	9	9	2	2	1	2	
	Non-White	40	29	11	3		2	1				26	11	19	10	7	1	1				1		3		1	1	1				
GRAND TOTAL		170	110	60	11	7	7	6	3		1	1	99	53	62	35	37	18	3	1	3		9	4	7	9	10	3	3	1	2	



















## VEHICULAR FATALITIES WHILE AT WORK TRAFFIC AND NON-TRAFFIC-MONTHLY ALCOHOL INCIDENCE

**TABLE 41**

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	M	F	M	F		
MAY	1	1				1														1	1																		
SEPTEMBER	1	1						1												1	1																		
<b>TOTAL</b>	<b>2</b>	<b>2</b>				1		1												<b>2</b>	<b>2</b>																		

## VEHICULAR FATALITIES WEATHER CONDITIONS-ALCOHOL INCIDENCE

**TABLE 42**

WEATHER	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		
CLEAR	137	91	46	38	20	31	16	20	10	2		8	4	6	3	1		1	1	83	42	49	26	34	16	3	1	2		9	4	7	9	8	2	3		2	
CLOUDY	7	5	2	3	1	1	1			1			1	1						5	1	5	1																
RAIN	15	10	5	4	2	5	3	1				2				2				8	5	5	3	3	2		1							2	1		1		
SNOW	2	1	1		1			1												1	1	1	1																
UNKNOWN	9	3	6		1	2	3	1	2			1	2	1	2					2	4	2	4																
<b>TOTAL</b>	<b>170</b>	<b>110</b>	<b>60</b>	<b>45</b>	<b>25</b>	<b>39</b>	<b>23</b>	<b>23</b>	<b>12</b>	<b>3</b>		<b>11</b>	<b>7</b>	<b>7</b>	<b>6</b>	<b>3</b>		<b>1</b>	<b>1</b>	<b>99</b>	<b>53</b>	<b>62</b>	<b>35</b>	<b>37</b>	<b>18</b>	<b>3</b>	<b>1</b>	<b>3</b>		<b>9</b>	<b>4</b>	<b>7</b>	<b>9</b>	<b>10</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>2</b>	



# 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	M	F	M	F	M	F	M	F	M	F		
DRY	127	83	44	33	20	28	15	20	9	2		8	4	6	3	1		1	1	75	40	47	25	28	15	3	1	2		6	4	6	9	6	1	3		2	
ICE	1	1						1												1		1																	
SNOW	7	4	3	2	2	1	1	1											4	3	4	2		1												1			
WET	27	19	8	10	2	8	5		1	1		2	1		1	2			17	7	8	5	9	2			1		3		1		4	1		1			
UNKNOWN	8	3	5		1	2	2	1	2			1	2	1	2				2	3	2	3																	
TOTAL	170	110	60	45	25	39	23	23	12	3		11	7	7	6	3		1	1	99	53	62	35	37	18	3	1	3		9	4	7	9	10	3	3	1	2	

## 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	M	F	M	F	M	F	M	F	M	F		
DAWN	3	3						2		1									3		3																		
DAY	66	40	26	14	10	13	10	12	6	1		6	5	4	4	1		1	1	34	21	26	19	8	2	2			2		1	2	2					1	
DUSK	3	3				2		1				1		1					2		2																		
NIGHT WITH STREET LIGHTS	79	50	29	30	14	17	11	3	4			4	1	2	1	2			46	28	23	14	23	14		1	3		4	3	6	7	7	2	2	1	1		
NIGHT WITH-OUT STREET LIGHTS	16	13	3	1	1	7	2	4		1									13	3	7	1	6	2	1			3	1					1	1	1			
UNKNOWN	3	1	2					1	2			1		1					1	1	1	1																	
TOTAL	170	110	60	45	25	39	23	23	12	3		11	7	7	6	3		1	1	99	53	62	35	37	18	3	1	3		9	4	7	9	10	3	3	1	2	

## VEHICULAR FATALITIES CLASSIFICATION OF VICTIMS-AGE GROUPS

TABLE 45

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-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										
BICYCLIST					1	1								1																										2	1	3						
DRIVER									6	7	11	5	10	3	6	3	3	3	4	2		1	5	1	4	1	3	1	2		4	1	2	1	1	2			61	31	92							
CYCLIST DRIVER							1		1		3		3		1		1		1		1																			13		13						
PASSENGER			1	1	1		1		1		2	3	2	2		1																								2	10	13	23					
PEDESTRIAN			2	1		1	4				2		1	1	1	2	2																									1	4	3	24	12	36	
PASSENGER ON MOTORCYCLE														1		1																														3		3
TOTAL			3	2	2	2	6		8	7	18	8	17	7	8	7	6	4	5	2	1	2	6	1	6	1	5	4	7	4	4	1	3	1	5	7	110	60	170									

## 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-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											
JANUARY						1					1		1			1	2			1		1			1				1	1											6	5	11						
FEBRUARY			1		1		1			1			1	1			1					1	1			1											1	1			10	5	15						
MARCH											1				1			1	1			1				1																1	6	2	8				
APRIL									1	1			2			1		1	1																									4	3	7			
MAY							1				1	3	2	1			1							1		1						1												10	4	14			
JUNE			1		1				3		4	1	4	1				1	1																									1	14	5	19		
JULY			1	1			1		3	2	6	2		1	1	1									1		1	1	1															2	17	8	25		
AUGUST				1		1	2		1	1		2	1	1	3	1		1					2			1		1		1														2	14	9	23		
SEPTEMBER									2				2	1	2										1		1																				7	5	12
OCTOBER							1				1	2			2		1		1								1	1																		1	7	4	11
NOVEMBER								1		1			1	1	1			1						2					1	1				1													8	3	11
DECEMBER								1		1			2			1								1		1					1	2				1	1	1									7	7	14
TOTAL			3	2	2	2	6		8	7	18	8	17	7	8	7	6	4	5	2	1	2	6	1	6	1	5	4	7	4	4	1	3	1	5	7	110	60	170										



# AUTOPSIES-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-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		
	JANUARY						1					1	1				1	4		1	1		1			1			1	1										8
FEBRUARY			1		1		1						2	1			1			1		1				1									1			9	4	13
MARCH											1					1			1	1		1			1		1	1	1									7	2	9
APRIL									1	1			2			1		1																				3	3	6
MAY							1				1	3	2	1					1					1							1				1			8	4	12
JUNE			1		1				3		4	1	3	1	1			1	1							1						1				1		15	5	20
JULY			1	1			1		3	2	6	2	1	1	1	1										1	2							1			15	9	24	
AUGUST				1		1	2				1		2	1	1	3	1		1				3		1		1		1		1		2		1		18	6	24	
SEPTEMBER									3	1		2	1	2											1		1		1	1			1			2		9	7	16
OCTOBER							1				1	2				2		1		1							1	1	1							1		7	5	12
NOVEMBER								1		1		1	1	1				1						2				1	1			1					8	3	11	
DECEMBER								1		1		2			1				1				1	1		1				2			1		1		7	6	13	
TOTAL			3	2	2	2	6		8	7	19	9	17	7	9	7	7	4	6	3	1	2	6	1	6	1	5	5	7	3	4	1	4	1	4	5	114	60	174	

# VEHICULAR FATALITIES

## MAJOR INJURY AND SURVIVAL INTERVAL

**TABLE 48**

MAJOR INJURY	BICYCLIST					DRIVER**					PASSENGER***					PEDESTRIAN					TOTAL								
	TOTAL	DOA*	LESS THAN 12 HOURS	12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE	TOTAL	DOA	LESS THAN 12 HOURS	12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE	TOTAL	DOA	LESS THAN 12 HOURS	12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE	TOTAL	DOA	LESS THAN 12 HOURS	12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE					
<b>To Brain:</b>																													
With Fracture of Skull only	2	1	1			18	4	7	6	1	3	2	1					12	2	8		1	1	35	9	17		7	2
With Fracture of Skull and Body Fractures						1		1																	1		1		
Without Fracture of Skull						11		2	5	4	2						2							13		2		5	6
<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>1</b>			<b>30</b>	<b>4</b>	<b>10</b>	<b>11</b>	<b>5</b>	<b>5</b>	<b>2</b>	<b>1</b>				<b>2</b>	<b>12</b>	<b>2</b>	<b>8</b>		<b>1</b>	<b>1</b>	<b>49</b>	<b>9</b>	<b>20</b>		<b>12</b>	<b>8</b>
<b>To Spinal Cord:</b>																													
With Fracture of Vertebra						2				1	1							1	1						3	1		1	1
<b>TOTAL</b>						<b>2</b>				<b>1</b>	<b>1</b>						<b>1</b>	<b>1</b>						<b>3</b>	<b>1</b>		<b>1</b>	<b>1</b>	
<b>To Chest:</b>																													
With Fracture of Thoracic Cage																									0				
Without Fracture of Thoracic Cage						1	1					1	1												2	2			
<b>TOTAL</b>						<b>1</b>	<b>1</b>					<b>1</b>	<b>1</b>											<b>2</b>	<b>2</b>				
<b>To Extremities:</b>																													
<b>TOTAL</b>																									0				
<b>Multiple Injuries:</b>																													
To Head and Trunk	1		1			18	9	7		2	3	1	2				9	2	5				2	31	12	15		4	
To Head, Trunk and Extremities						27	11	13	3		7	3	4				10	3	6				1	44	17	23		3	1
To Trunk						17	3	12	1	1	10	4	5		1		4	1	2				1	31	8	19		2	2
To Trunk and Extremities						7	2	4	1															7	2	4		1	
<b>TOTAL</b>	<b>1</b>		<b>1</b>			<b>69</b>	<b>25</b>	<b>36</b>	<b>5</b>	<b>3</b>	<b>20</b>	<b>8</b>	<b>11</b>		<b>1</b>		<b>23</b>	<b>6</b>	<b>13</b>				<b>4</b>	<b>113</b>	<b>39</b>	<b>61</b>		<b>6</b>	<b>7</b>
<b>Miscellaneous Injuries:</b>						3	3																	3	3				
<b>TOTAL</b>						<b>3</b>	<b>3</b>																	<b>3</b>	<b>3</b>				
<b>GRAND TOTAL</b>	<b>3</b>	<b>1</b>	<b>2</b>			<b>105</b>	<b>33</b>	<b>46</b>	<b>17</b>	<b>9</b>	<b>26</b>	<b>11</b>	<b>12</b>		<b>1</b>	<b>2</b>	<b>36</b>	<b>9</b>	<b>21</b>		<b>1</b>	<b>5</b>	<b>170</b>	<b>54</b>	<b>81</b>		<b>19</b>	<b>16</b>	

NOTE: "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.















# VEHICULAR FATALITIES

## MAJOR INJURY AND SURVIVAL INTERVAL-AGE GROUPS BICYCLIST

**TABLE 53**

AGE	BRAIN					MULTIPLE INJURIES					TOTAL				
	TOTAL	DOA	LESS THAN 12 HOURS 12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE	TOTAL	DOA	LESS THAN 12 HOURS 12 - 24 HOURS	1 - 7 DYAS	8 DAYS OR MORE	TOTAL	DOA	LESS THAN 12 HOURS 12 - 24 HOURS	1 - 7 DAYS	8 DAYS OR MORE
5 - 9	1		1			1		1			2		2		
25 - 29	1	1									1	1			
<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>1</b>			<b>1</b>		<b>1</b>			<b>3</b>	<b>1</b>	<b>2</b>		





# VEHICULAR FATALITIES

## GEOGRAPHICAL LOCATION-TYPE OF ACCIDENT

### CLASSIFICATION OF VICTIMS

TABLE 54 cont.

CITIES	AUTO														BUS		MTC		TRUCK						TOTALS								GRAND TOTAL		
	AUTO		BICYCLE		BUS		FIXED OBJECT		PEDESTRIAN		MOTORCYCLE		TRUCK		BICYCLE		FIXED OBJECT		TRUCK		FIXED OBJECT		PEDESTRIAN		TRUCK		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	F	M	F	M	F	M	F	M	F		M	F
Garfield Heights Motorcyclist											1																							1	
Pedestrian									1																									1	
Independence Driver							1																											1	
Passenger																																		1	
Lakewood Pedestrian																																		1	
Maple Heights Driver	1																																	1	
Middleburg Heights Driver							1																											2	
North Olmsted Driver							1																											1	
Pedestrian									1																									1	
North Royalton Driver		1																																1	
Olmsted Falls Driver							1																											1	
Parma Driver		1					1																											3	
Pedestrian									1	2																								3	
Pepper Pike Passenger									1																									1	
Seven Hills Driver							1																											1	
Solon Passenger	1																																	1	
Srrongsville Driver							2	1																										3	
Pedestrian									1																									1	
Westlake Pedestrian																																			1
<b>TOTAL</b>	<b>10</b>	<b>16</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>26</b>	<b>9</b>	<b>17</b>	<b>10</b>	<b>5</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>45</b>	<b>21</b>	<b>7</b>	<b>13</b>	<b>21</b>	<b>11</b>	<b>2</b>	<b>120</b>					

MTC. - Motorcycle

**VEHICULAR FATALITIES**  
**GEOGRAPHICAL LOCATION-TYPE OF ACCIDENT**  
**CLASSIFICATION OF VICTIMS**

**TABLE 55**

VILLAGES, TOWNSHIPS AND TURNPIKE	AUTO					MTC.		TRUCK			N.C.		TOTAL						GRAND TOTAL					
	AUTO		FIXED OBJECT		PEDESTRIAN		TRAIN		TRUCK		FIXED OBJECT		TRUCK		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><u>VILLAGES:</u></b>																								
Bratenahl Driver			1															1						1
Gates Mills Driver											1		1					2						2
Passenger									1										1					1
Mayfield Driver		1																	1					1
Pedestrian					1																1			1
Moreland Hills Driver			1															1						1
Valley View Driver														1				1						1
Motorcycle										1								1						1
<b><u>TOWNSHIPS:</u></b>																								
Olmsted Driver							1												1					1
Pedestrian					1																1			1
Warrensville Driver		1																	1					1
<b><u>OHIO TURNPIKE:</u></b>																								
Driver											1		1					2						2
Passenger																	1			1				1
<b>TOTALS</b>		2	2		2		1	1		1		2		3		1		8	3	2		2		15

MTC. - Motorcycle

N.C. - Non-collision



# VEHICULAR FATALITIES

## GEOGRAPHICAL LOCATION-TYPE OF ACCIDENT

### CLASSIFICATION OF VICTIMS

**TABLE 56**

	AUTO										MTC.		TRUCK			N.C.			TOTAL						
	AUTO		BICYCLE		FIXED OBJECT		MOTORCYCLE		TRUCK		FIXED OBJECT		PEDESTRIAN		MOTORCYCLE		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	M	F	
OUT OF COUNTY																									GRAND TOTAL
BICYCLE				1																					1
DRIVER	5	6			7			2	1			1					1		16	7					23
MOTORCYCLE							1				2					2			5						5
PASSENGER	1	2																			1	2			3
PASSENGER ON MOTORCYCLE											1											1			1
PEDESTRIAN														1	1								1	1	2
TOTAL	6	8		1	7		1	2	1	2	1	1		1	1	2		1	21	8	1	3	1	1	35

MTC. - Motorcycle  
 N.C. - Non-collision





# 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	POSITIVE	TOTAL	TESTED	POSITIVE	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			
12 AM																										
1 AM													1	1	1							1	1	1	1	
2 AM																										
3 AM																										
4 AM																										
5 AM																										
6 AM																										
7 AM																										
8 AM																										
9 AM																										
10 AM																										
11 AM																										
TOTAL AM													1	1	1							1	1	1	1	
12 PM																										
1 PM																										
2 PM																										
3 PM																										
4 PM																1	1					1	1		1	
5 PM																						1	1		1	
6 PM					1	1																1	1		1	
7 PM																										
8 PM																										
9 PM																										
10 PM																										
11 PM																										
TOTAL PM					1	1										1	1					1	1		2	
GRAND TOTAL					1	1										1	1	1	1			2	1	2	1	3

# VEHICULAR FATALITIES

## HOURLY-DAILY-ALCOHOL INCIDENCE DRIVER

**TABLE 59**

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	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																	
12 AM					1	1		1	1	1	1	1													2	1	2	1		1	3																	
1 AM	2		2				2	2	1								1	1	1						8	3	7	2	3	1	11																	
2 AM					1	1				1	1	1	1												4	2	4	2	2	1	6																	
3 AM	2	2	2	2	1	2		1		1															5	6	5	6	3	5	11																	
4 AM	1		1							1	1			1	1										2	2	2	1		6																		
5 AM		1		1	1	1		1																	2	1	2	1		5																		
6 AM					1	1		1						2	2											3		3		1	3																	
7 AM					1	1							1	1											1		3		2		3																	
8 AM	4		3															1	1						4	1	3	1		5																		
9 AM																																																
10 AM					1	1								1	1											1	1	1	1		2																	
11 AM										1	1	1	1													1	1	1	1		2																	
TOTAL AM	9	3	8	3	1	3	8	1	8	1	2	1	3	3	3	3	2	6	2	6	1	2	1	4	3	4	3	1			2																	
12 PM																										1	1	1	1		2																	
1 PM	2		2		1					2	1			1	1	1										1	1	1	1		5																	
2 PM																																																
3 PM	2		2							1	1			1	1					2	1					5	1	4	1		6																	
4 PM																			1	1						1		1			1																	
5 PM	1		1		1			2	2							1	1	1								1	1	1	1		6																	
6 PM					1	1		1						1	1											2	1	1			4																	
7 PM		2		1	1					1	1															1	2	1	1		3																	
8 PM		1		1															1	1	1					1	1	1	1		2																	
9 PM		1		1	1					1	1															1	1	1	1		2																	
10 PM														1	1	1										1	1	1	1		1																	
11 PM										1	1	1							1	1	1	1	1	1		1	2	1	2	1	1	3																
TOTAL PM	5	4	5	5	2	2	1	2	1	2	1	1	5	1	4	1	1	1	2	1	2	2	2	5	2	4	2	1	1	3	2	2	2	1	22	13	19	12	8	4	35							
GRAND TOTAL	14	7	13	6	3	5	9	3	9	3	3	1	8	4	7	4	1	2	7	4	7	3	2	2	6	3	6	3	3	6	3	5	3	2	1	11	7	8	7	4	2	61	31	55	29	18	13	92



# 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	POSITIVE	TOTAL	TESTED	POSITIVE	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		
12 AM																									
1 AM																									
2 AM								1	1	1												1	1	1	1
3 AM	2	2	2																			2	2	2	2
4 AM																									
5 AM																									
6 AM																									
7 AM																									
8 AM																									
9 AM																									
10 AM																									
11 AM																									
TOTAL AM	2	2	2					1	1	1												3	3	3	3
12 PM														1	1							1	1		1
1 PM																									
2 PM																									
3 PM																									
4 PM																									
5 PM								2	2													2	2		2
6 PM																		1	1			1	1		1
7 PM																									
8 PM															1	1	1					1	1	1	1
9 PM									1	1								1	1			2	2		2
10 PM															1	1						1	1		1
11 PM	1	1									1	1										2	2		2
TOTAL PM	1	1						2	2		2	2		1	1		2	2	1	2	2	10	10	1	10
GRAND TOTAL	3	3	2					3	3	1	2	2		1	1		2	2	1	2	2	13	13	4	13











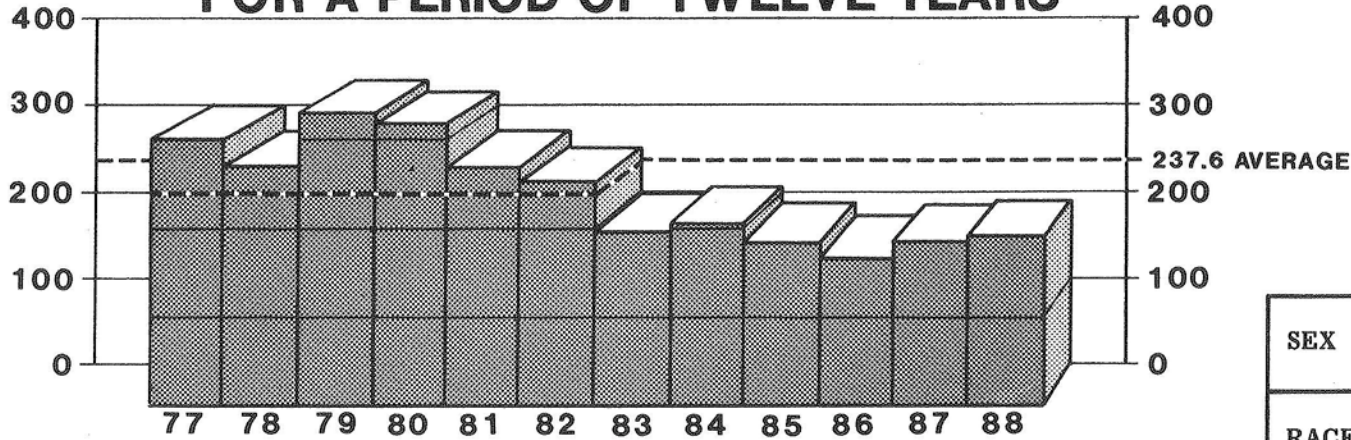




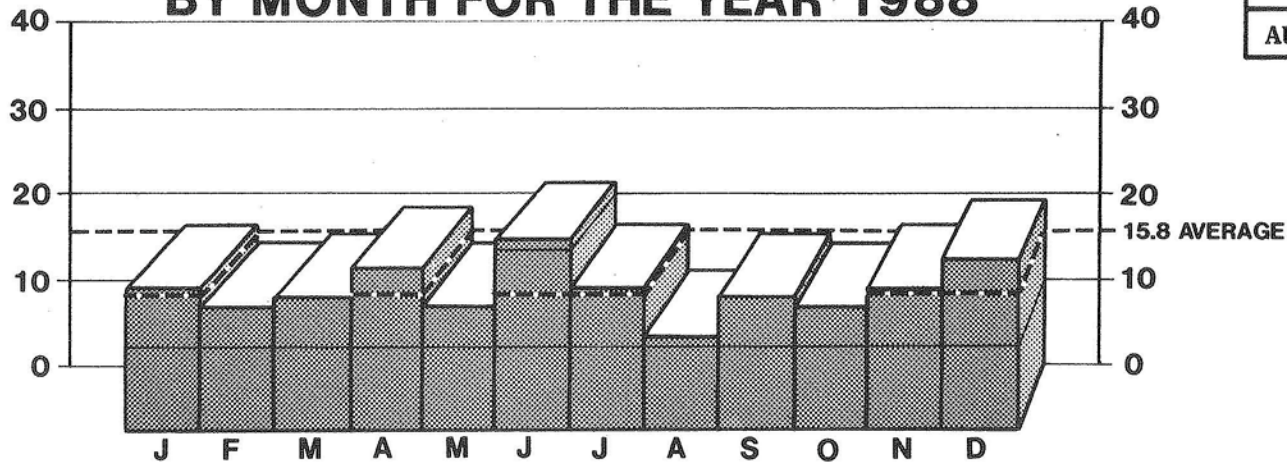


# HOMICIDES

**FOR A PERIOD OF TWELVE YEARS**



**BY MONTH FOR THE YEAR 1988**



		NUMBER	PERCENT
SEX	MALE	137	72
	FEMALE	52	28
RACE	WHITE	47	25
	NON-WHITE	142	75
ALCOHOL	TESTED	180	95
	POSITIVE	74	41
AUTOPSY	AUTOPSIED	189	100

1988
TOTAL CASES
189





# HOMICIDES

## MONTHLY ALCOHOL INCIDENCE

**TABLE 64**

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
JANUARY	16	14	2	12	2	2				1	1						13	2	7	1	6	1					3			2		1	1			
FEBRUARY	14	11	3	6	3	5											11	3	6	2	5	1	2			1	1		2							
MARCH	15	12	3	9	3	3											12	3	7	2	5	1				1	5									
APRIL	18	12	6	6	5	5	1	1									12	6	8	4	4	2	1	1	2				1	1						
MAY	14	7	7	5	6	2	1				1	1					7	6	1	2	6	4	1	1		3				3	2					
JUNE	21	15	6	13	4	2	2			1				1			14	6	6	5	8	1			1	3		2	2		1					
JULY	16	13	3	11	2		1	2			1				1		13	2	8	1	5	1	1		1	2			1	1						
AUGUST	11	8	3	8	3					2	1	2	1				6	2	4	2	2		1				1									
SEPTEMBER	15	10	5	8	5	2				1		1					9	5	5	5	4		1			1	1								1	
OCTOBER	14	9	5	8	2	1	2		1								9	5	5	3	4	2	1	1	2		1					1				
NOVEMBER	16	11	5	7	3	4	1		1		1				1		11	4	6	3	5	1				2	1		2		1					
DECEMBER	19	15	4	12	3	2	1	1									15	4	10	3	5	1	1		4								1			
TOTAL	189	137	52	105	41	28	9	4	2	5	4	4	2			1	2	132	48	73	33	59	15	9	3	9	1	15	4	9		10	5	6	2	1

# HOMICIDES

## AGE-RACE-ALCOHOL INCIDENCE

**TABLE 65**

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	M	F	M	F	M	F
Under 1 Year	White																															
	Non-White	7	3	4									3	4	3	4																
1 - 4	White	1	1										1		1																	
	Non-White	1		1										1		1																
5 - 9	White																															
	Non-White																															
10 - 14	White																															
	Non-White	4	2	2									2	2	2	2																
15 - 19	White	4	1	3		1						1	1	2		1	1	1			1											
	Non-White	9	8	1									8	1	7	1	1				1											
20 - 24	White	8	5	3									5	3	2	2	3	1			2							1				
	Non-White	30	25	5									25	5	14	4	11	1	3	1	2		3		1	2						
25 - 29	White	10	8	2	1		1						7	2	2	2	5			1				1	1	1	1		1			
	Non-White	22	18	4									18	4	14	2	4	2	1			1	2			1	2		1	1		
30 - 34	White	7	6	1									6	1	3	1	3			2			1									
	Non-White	20	14	6	2		1				1		12	6	1	2	11	4	1		1		4	2	1		1	2	3			
35 - 39	White	3	3										3		2		1						1									
	Non-White	12	9	3	1		1						8	3	2	2	6	1		1	1		1		2		1	1				
40 - 44	White	4	4										4		1		3				1		1				1					
	Non-White	10	7	3		1						1	7	2	5	1	2	1	1				1				1					
45 - 49	White	3	2	1									2	1	2	1																
	Non-White	4	3	1									3	1	1	1	2									2						
50 - 54	White	2	1	1									1	1	1	1																
	Non-White	6	4	2									4	2	3		1	2								1	1		1			
55 - 59	White	3	2	1									2	1	2	1																
	Non-White	8	5	3		1		1					5	2	2	1	3	1	1			1			2							
60 - 64	White																															
	Non-White	1	1										1		1																	
65 - 69	White																															
	Non-White	3	2	1									2	1		1	2							2								
70 - 74	White	1		1										1																1		
	Non-White	3	1	2	1	1	1	1						1		1																
75 - 79	White	1	1										1		1																	
	Non-White	1	1										1		1																	
80 - over	White																															
	Non-White	1		1										1		1																
TOTAL	White	47	34	13	1	1	1					1	33	12	17	9	16	3	2	1	4		5		1		2	1	1	1	1	
	Non-White	142	103	39	4	3	3	2			1	1	99	36	56	24	43	12	7	2	5	1	10	4	8		8	4	5	1		
GRAND TOTAL		189	137	52	5	4	4	2				1	2	132	48	73	33	59	15	9	3	9	1	15	4	9		10	5	6	2	1



# 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	M	F	M	F	M	F	M	F	M	F		
ARSON	3	1	2	1	2						1	1							1	1																			
ASPHYXIA	2	1	1	1	1														1	1	1	1																	
ASSAULT	24	18	6	13	6	3		2		2	1	1	1		1			16	5	10	3	6	2		3		1	1	2					1					
BURNING	1	1		1														1		1																			
SHOOTING	108	84	24	66	19	16	4	2	1	2		2					82	24	47	18	35	6	8	1	4		8	2	6		4	2	4	1	1				
STABBING	27	20	7	18	4	2	3				1				1		20	6	7	3	13	3	1		1	1	6	1	1		2	1	2						
STRANGULATION	13	3	10	3	9		1										3	10	1	6	2	4		2						2	2								
UNDETERMINED	1		1				1				1					1																							
OTHERS*	10	9	1	2		7			1	1		1					8	1	5	1	3			1						2									
<b>TOTAL</b>	<b>189</b>	<b>137</b>	<b>52</b>	<b>105</b>	<b>41</b>	<b>28</b>	<b>9</b>	<b>4</b>	<b>2</b>	<b>5</b>	<b>4</b>	<b>4</b>	<b>2</b>			<b>1</b>	<b>2</b>	<b>132</b>	<b>48</b>	<b>73</b>	<b>33</b>	<b>59</b>	<b>15</b>	<b>9</b>	<b>3</b>	<b>9</b>	<b>1</b>	<b>15</b>	<b>4</b>	<b>9</b>		<b>10</b>	<b>5</b>	<b>6</b>	<b>2</b>	<b>1</b>			

\* Run over by motor vehicle and fall from motor vehicle.

## 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-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				
ARSON			1																																		1	2	3	
ASPHYXIA		1									1																											1	1	2
ASSAULT	1	2		1							1		1	1	3		2		3		1		1		2	1	1		1		1	1					18	6	24	
BURNING	1																																					1	1	
SHOOTING		1					1	7		17	6	21	4	15	4	7	2	6	2	3	1	3	1	4	1		1			1						84	24	108		
STABBING							2	1	7		3		2	2	3		1	1		1		1	1	1							1						20	7	27	
STRANGULATION						1	2			2					1		1	1				1	1		1			1		1							3	10	13	
UNDETERMINED									1																													1	1	
OTHERS	1					2				4		1	1							1																	9	1	10	
<b>TOTAL</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>1</b>		<b>2</b>	<b>2</b>	<b>9</b>	<b>4</b>	<b>30</b>	<b>8</b>	<b>26</b>	<b>6</b>	<b>20</b>	<b>7</b>	<b>12</b>	<b>3</b>	<b>11</b>	<b>3</b>	<b>5</b>	<b>2</b>	<b>5</b>	<b>3</b>	<b>7</b>	<b>4</b>	<b>1</b>		<b>2</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>2</b>		<b>1</b>	<b>137</b>	<b>52</b>	<b>189</b>			





# HOMICIDES (NON-JUSTIFIABLE)

## PLACE OF OCCURRENCE-CIRCUMSTANCES-ASSAILANTS

### VICTIMS-ALCOHOL INCIDENCE

**TABLE 69**

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		
<b>HOME CIRCUMSTANCES:</b>																															
During or following an argument																															
Acquaintance	17	15	2	14	2	1				1	1					14	2	5		9	2	1		1		1	1	3	2	1	1
Relative																															
Daughter	1		1		1											1				1				1							
Son	2		2		2						1		1			1		1													
Spouse	5	4	1	3	1	1									4	1		1	4								2		2		
During or following the commission or attempted commission of a felony																															
Acquaintance	2	2		2											2		2														
Stranger	3	2	1	1		1	1								2	1	1	1	1				1								
Unknown	2	2		1		1									2		1	1	1								1				
Unknown																															
Stranger	6	2	4	2	4						1		1		2	3	1	1	1	2				1			1	1			
Unknown	16	9	7	3	6	6	1								9	7	3	6	6	1	3	1			3				1	1	
Other																															
Acquaintance	21	16	5	14	4	1		1	1						16	5	13	3	3	2	1			1		1			2		
Strangers	2		2		2										2			2													
Relative																															
Mother	3	1	2	1	2										1	2	1	2													
Sister	2	1	1	1			1								1	1	1	1													
Spouse	4		4		3		1								4		2		2			1					1				
Stepson	1	1		1						1		1																			
Uncle	3	2	1	1	1			1							2	1	1	1	1			1									
<b>TOTAL</b>	<b>90</b>	<b>57</b>	<b>33</b>	<b>44</b>	<b>28</b>	<b>11</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>		<b>55</b>	<b>31</b>	<b>29</b>	<b>21</b>	<b>26</b>	<b>10</b>	<b>5</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>6</b>	<b>3</b>	<b>6</b>	<b>6</b>	<b>3</b>	<b>1</b>	<b>2</b>

# HOMICIDES (NON-JUSTIFIABLE)

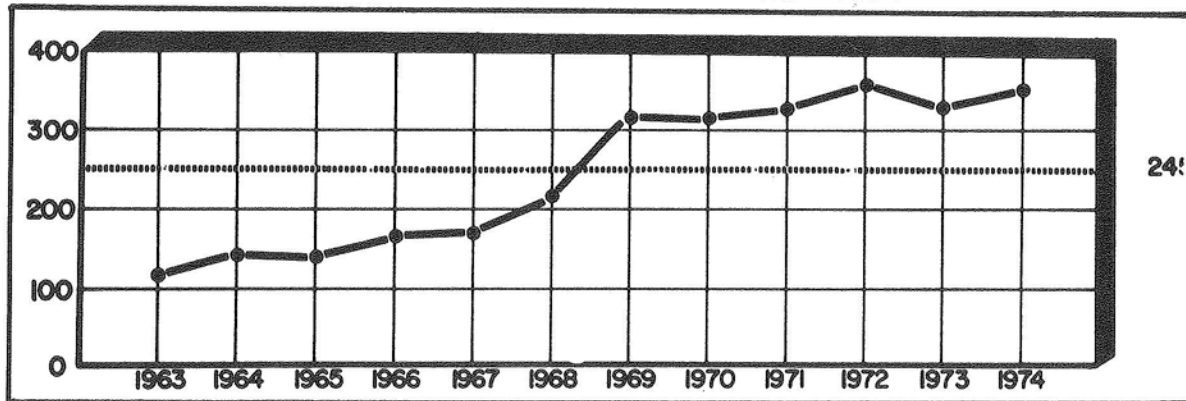
## PLACE OF OCCURRENCE-CIRCUMSTANCES-ASSAILANTS

### VICTIMS-ALCOHOL INCIDENCE

**TABLE 69A**

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			
<b>PUBLIC CIRCUMSTANCES:</b>																																						
During or following an argument																																						
Acquaintance	16	16		13		2		1		2		1				1		14		4		10				1		2		3		1		2		1		
Stranger	3	3		1		2											3		2		1				1													
During or following the commission or attempted commission of a felony																																						
Acquaintance	2	2		1		1											2		1		1																	
Stranger	3	3		3													3		2		1																	
Unknown circumstances																																						
Acquaintance	2		2		2												2		1		1				1													
Relative																																						
Spouse	1		1					1								1		1																				
Strangers	6	4	2	4	2										4	2	3	1	1	1	1	1	1	1														
Unknown	25	18	7	14	5	4	2			1				1	18	6	13	4	5	2	2	2	2			1					1	1						
Other circumstances																																						
Acquaintance	21	16	5	12	3	4	2			1				1	16	4	11	4	5		1		1		2									1				
Relative																																						
Cousin	1	1		1											1						1																	
Spouse	2	1	1					1	1						1	1	1	1																				
Stranger	10	9	1	7	1	2				1		1			8	1	4		4	1			2		1							1	1					
<b>TOTAL</b>	<b>92</b>	<b>73</b>	<b>19</b>	<b>56</b>	<b>13</b>	<b>15</b>	<b>5</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>2</b>			<b>1</b>	<b>2</b>	<b>70</b>	<b>17</b>	<b>41</b>	<b>12</b>	<b>29</b>	<b>5</b>	<b>4</b>	<b>2</b>	<b>7</b>	<b>7</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>			

**FOR A PERIOD OF TWELVE YEARS - 1974**



From 1974 Coroner's Statistical Report



# HOMICIDES IN CUYAHOGA COUNTY 1964-1988

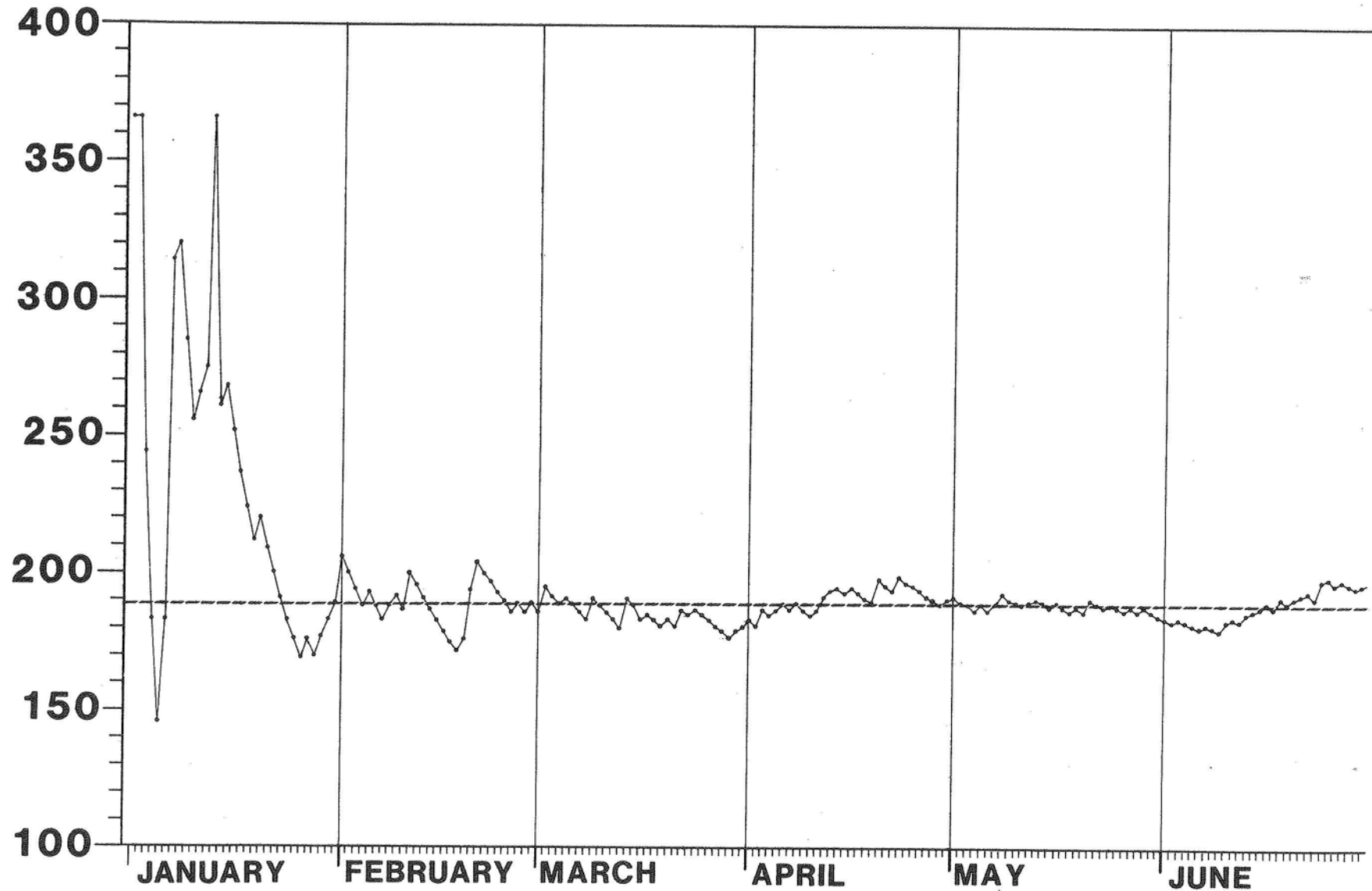
(INCLUDES CULPABLE AND JUSTIFIABLE HOMICIDES)

**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*
1964	137	83	60.58	17	30	5	2
1965	129	86	66.67	17	21	3	2
1966	166	111	66.87	15	35	3	2
1967	185	117	63.24	15	34	5	14
1968	210	167	79.52	16	26	1	0
1969	317	254	80.13	29	29	1	4
1970	310	242	78.06	23	34	6	5
1971	324	265	81.79	24	28	4	3
1972	363	287	79.06	33	23	16	4
1973	327	271	82.87	24	20	10	2
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	108	57.14	24	27	13	17

\* Arson, 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 and Stress.

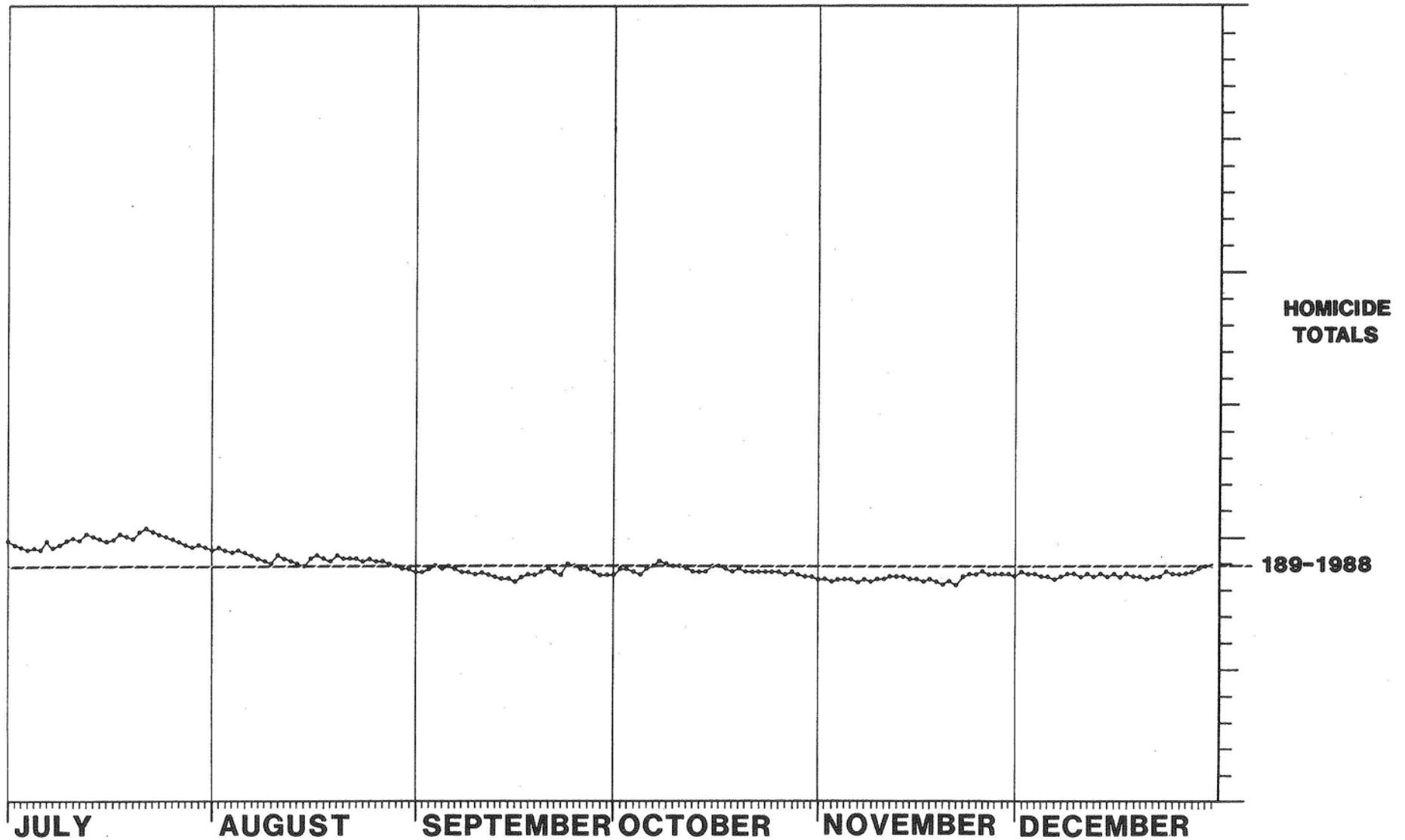
# MOVING PROJECTED



In order to establish the direction of annual numerical trends in homicidal deaths in our 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, and D is the number of days which have elapsed since the calendar 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 death was



# ANNUAL HOMICIDE TOTAL



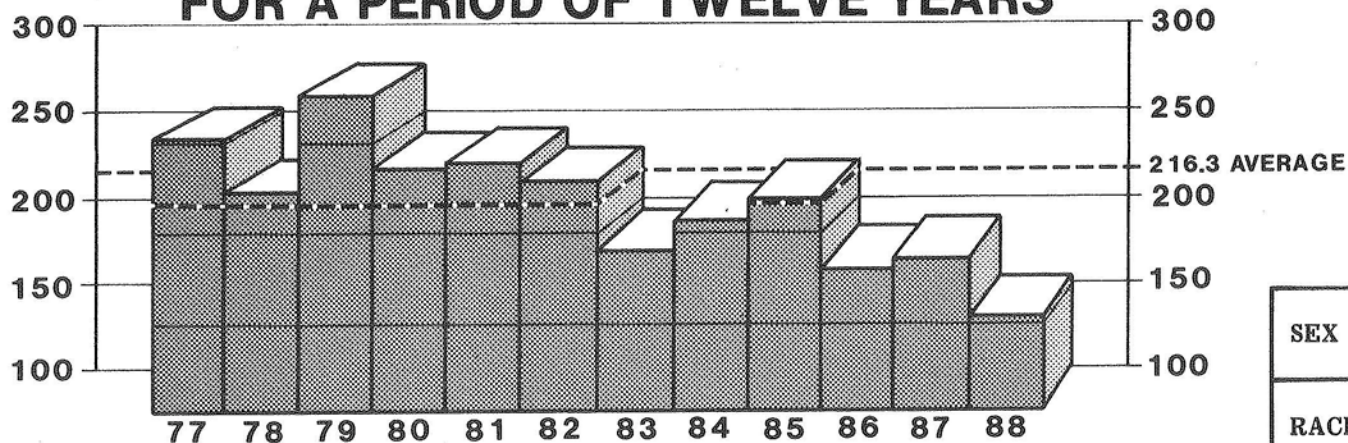
pronounced, NOT necessarily the same day as when the lethal incident occurred or when death actually took place, is utilized to establish D. Thus, if ten homicide victims were to have been pronounced dead in Cuyahoga County from January first until midnight of February 5, 36 days will have elapsed since 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 equals 101, the number of homicides that will have been pronounced dead during the entire calendar year should the same rate prevail.



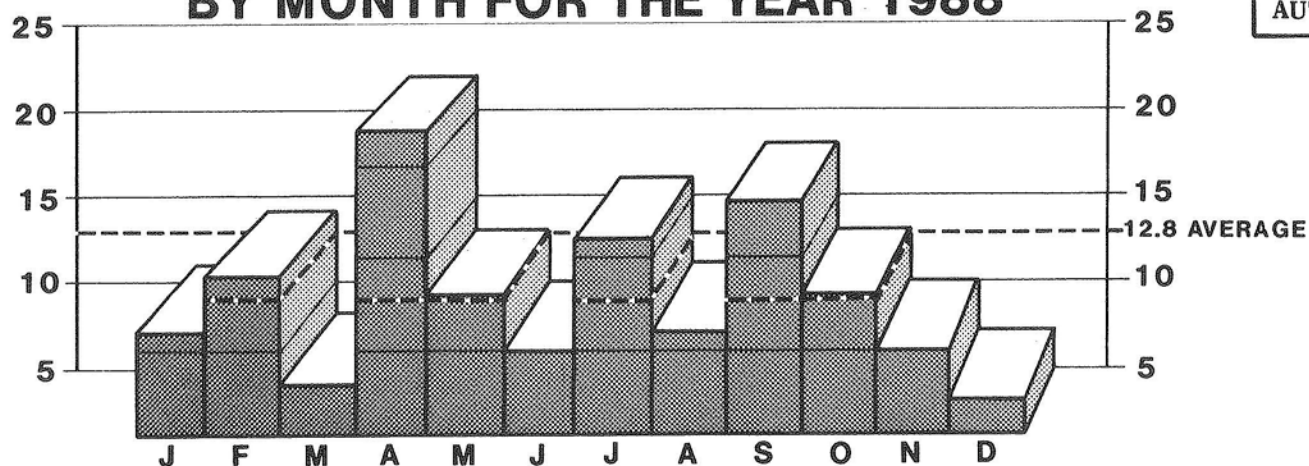


# SUICIDES

**FOR A PERIOD OF TWELVE YEARS**



**BY MONTH FOR THE YEAR 1988**



		NUMBER	PERCENT
SEX	MALE	117	76
	FEMALE	36	24
RACE	WHITE	121	79
	NON-WHITE	32	21
ALCOHOL	TESTED	150	98
	POSITIVE	43	29
AUTOPSY	AUTOPSIED	150	98

1988
TOTAL CASES
153





# SUICIDES

## MONTHLY ALCOHOL INCIDENCE

**TABLE 70**

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	11	7	4	1	1	6	1		2		1		1					7	3	5	2	2	1	1	1										1		
FEBRUARY	14	12	2	4		8	2											12	2	11	1	1	1		1												
MARCH	8	6	2	2		3	2	1		1		1						5	2	4	2	1												1			
APRIL	22	15	7	4	2	9	4	2	1		1					1	15	6	11	5	4	1				3								1	1		
MAY	13	9	4	5	2	4	2										9	4	8	2	1	2	1					1						1			
JUNE	10	8	2	6	1	2	1										8	2	5	2	3				2			1									
JULY	16	15	1	6	1	9											15	1	11	1	4			2	1	1											
AUGUST	11	9	2	5	1	4	1										9	2	4	1	5	1	1	1	1	1	1	1	1		1						
SEPTEMBER	18	11	7	5	5	6	2										11	7	6	5	5	2	3	1			1	2									
OCTOBER	13	11	2	4	1	7	1										11	2	7	2	4			2			2										
NOVEMBER	10	9	1	4	1	4		1									9	1	5	1	4		1	1			2										
DECEMBER	7	5	2	2	1	2	1	1									5	2	5	1		1													1		
TOTAL	153	117	36	48	16	64	17	5	3	1	2	1	1			1	116	34	82	25	34	9	7	3	6		7	2	9	1	2		2	3	1		

# SUICIDES

## AGE AND RACE-ALCOHOL INCIDENCE

**TABLE 71**

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	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	4	4									4	4																	
	Non-White	5	5									5	4	1														1		
20 - 24	White	8	6	2								6	2	3	2	3			1		1		1							
	Non-White	2	2									2		1		1														
25 - 29	White	9	8	1								8	1	6	1	2			1		1									
	Non-White	4	3	1								3	1	1	1	2			1		1									
30 - 34	White	17	12	5		1		1				12	4	7	1	5	3	1			1	1	1	1	1	2			1	
	Non-White	7	6	1								6	1	4	1	2		1			1									
35 - 39	White	14	11	3								11	3	5	1	6	2	2	1	2		1		1					1	
	Non-White	6	6									6		4		2		1					1							
40 - 44	White	12	10	2	1		1					9	2	7	1	2	1		1	1				1						
	Non-White	2	1	1								1	1	1	1															
45 - 49	White	9	4	5								4	5	3	4	1	1	1											1	
	Non-White	1	1									1			1									1						
50 - 54	White	4	3	1								3	1	2		1	1					1	1							
	Non-White	2		2									2		2															
55 - 59	White	5	4	1		1						1	4		3		1		1											
	Non-White	1	1									1		1																
60 - 64	White	11	6	5								6	5	4	5	2								1						1
	Non-White																													
65 - 69	White	9	8	1								8	1	8			1		1											
	Non-White	1	1									1		1																
70 - 74	White	7	6	1								6	1	5	1	1													1	
	Non-White																													
75 - 79	White	4	3	1								3	1	3	1															
	Non-White																													
80 - over	White	8	6	2								6	2	5	2	1								1						
	Non-White	1		1									1		1															
TOTAL	White	121	91	30	1	2	1	1			1	90	28	65	19	25	9	5	3	5		4	2	7	1	2		1	3	1
	Non-White	32	26	6								26	6	17	6	9		2		1		3		2				1		
GRAND TOTAL		153	117	36	1	2	1	1			1	116	34	82	25	34	9	7	3	6		7	2	9	1	2		2	3	1



# SUICIDES

## MODE-ALCOHOL INCIDENCE

**TABLE 72**

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	M	F	M	F	M	F
ASPHYXIA	30	22	8	10	2	12	5		1		1						1	22	7	14	6	8	1	1		2		1		3		1					
BURNING	1	1				1												1		1																	
CARBON MONOXIDE	24	15	9	4	4	10	4	1	1									15	9	10	7	5	2	2	1			1	1					1		1	
CUTTING AND STABBING	3	3		2		1												3		3																	
JUMPING	3	2	1	1		1	1											2	1	1	1	1					1										
POISONING	12	6	6	2	2	4	3		1									6	6	3	3	3	3	1	1		1	1	1						1		
SHOOTING	78	66	12	28	8	34	4	4		1	1	1	1					65	11	48	8	17	3	3	1	4		3		5	1	1		1	1		
OTHERS*	2*	2		1		1												2		2																	
<b>TOTAL</b>	<b>153</b>	<b>117</b>	<b>36</b>	<b>48</b>	<b>16</b>	<b>64</b>	<b>17</b>	<b>5</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>				<b>1</b>	<b>116</b>	<b>34</b>	<b>82</b>	<b>25</b>	<b>34</b>	<b>9</b>	<b>7</b>	<b>3</b>	<b>6</b>		<b>7</b>	<b>2</b>	<b>9</b>	<b>1</b>	<b>2</b>		<b>2</b>	<b>3</b>	<b>1</b>	

\* Ligature strangulation, placed head under punch press.







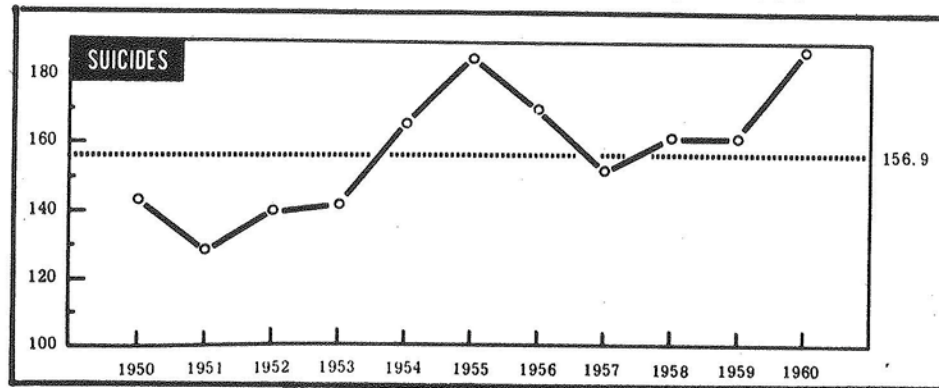
# SUICIDES

## MODE-AGE GROUPS

**TABLE 75**

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-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		1		2		2	1	3		1		2	1	2			1	2	1	1		1	1	2		2	3	22	8	30	
BURNING																																					1		1	
CARBON MONOXIDE									1		1	1	1		3		4	1	1	1		2		1		1	2			3				1			15	9	24	
CUTTING AND STABBING													1																							1		3		3
JUMPING														1	1												1										2	1	3	
POISONING											1					1	1	1	1				1			2		2		1					1		6	6	12	
SHOOTING									7		5	1	7	1	11	4	9	1	8	2	3	1	1	2	3		2		6		1		1		2		66	12	78	
OTHER															1																					1		2		2
TOTAL									9		8	2	11	2	18	6	17	3	11	3	5	5	3	3	5	1	6	5	9	1	6	1	3	1	6	3	117	36	153	

**FOR A PERIOD OF TWELVE YEARS - 1960**



From 1960 Coroner's Statistical Report



# SUICIDES

## MODE-GEOGRAPHICAL LOCATION AND MARITAL STATUS

**TABLE 76**

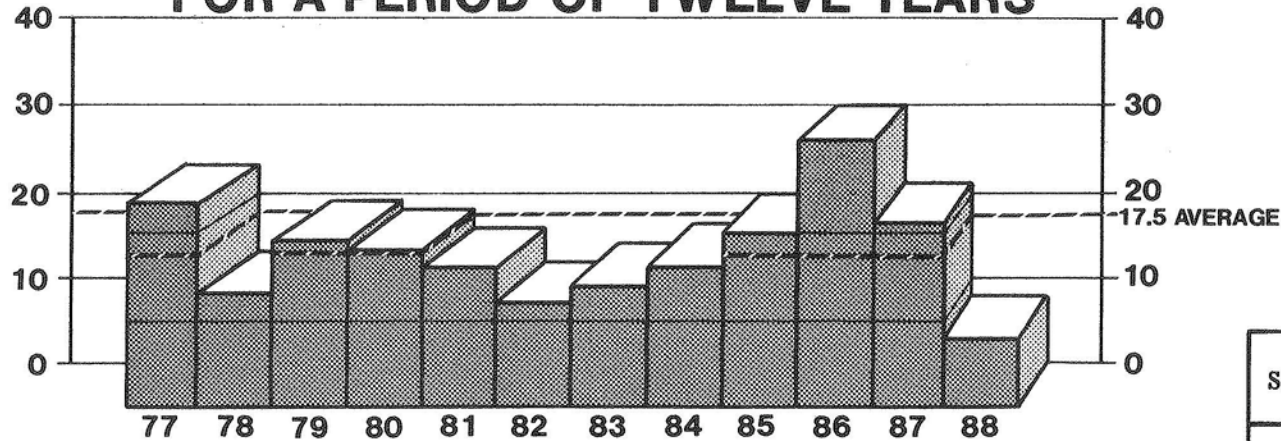
MODE	CLEVELAND												COUNTY												OUT OF COUNTY												TOTAL	GRAND TOTAL														
	MARRIED		SINGLE		WIDOWED		DIVORCED		UNKNOWN		TOTAL		MARRIED		SINGLE		WIDOWED		DIVORCED		UNKNOWN		TOTAL		MARRIED		SINGLE		WIDOWED		DIVORCED		UNKNOWN		TOTAL																	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F																
ASPHYXIA	7			1	2	1	1					10	2	5	1	6			2	1	2													12	5	1								1	22	8	30					
BURNING														1																															1		1					
CARBON MONOXIDE	1	2		1	1	1	2					4	4	2		2	1	2	1	4	2														10	4			1	1					1	1	15	9	24			
CUTTING AND STABBING				1		1						2		1																																2		3				
JUMPING	1											1		1		1																														1	1	2	1	3		
POISONING			1	1			1	1				2	2		3	1		1		2																											1		1	6	6	12
SHOOTING	10	4	11	3	3		3			1	1	27	8	14	2	10	2	5		5																											4		66	12	78	
OTHERS	1											1								1																												1		2		
TOTAL	20	6	13	6	7	2	7	1	1	1	48	16	24	6	19	4	8	3	13	4																												5	3	117	36	153



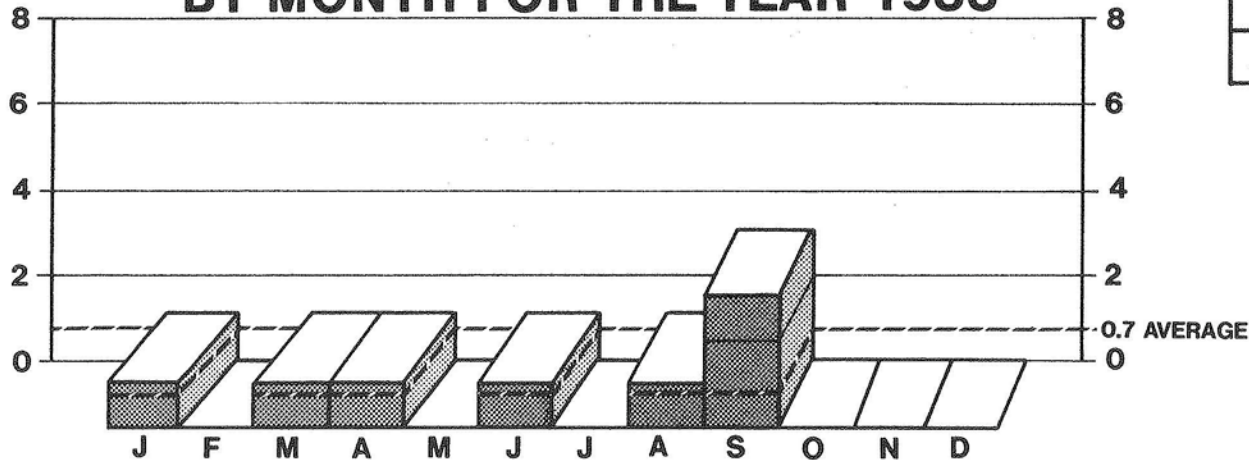


# VIOLENCE OF UNDETERMINED ORIGIN

**FOR A PERIOD OF TWELVE YEARS**



**BY MONTH FOR THE YEAR 1988**



		NUMBER	PERCENT
SEX	MALE	5	63
	FEMALE	3	37
RACE	WHITE	5	63
	NON-WHITE	3	37
ALCOHOL	TESTED	7	88
	POSITIVE	4	57
AUTOPSY	AUTOPSIED	8	100

1988
TOTAL CASES
8





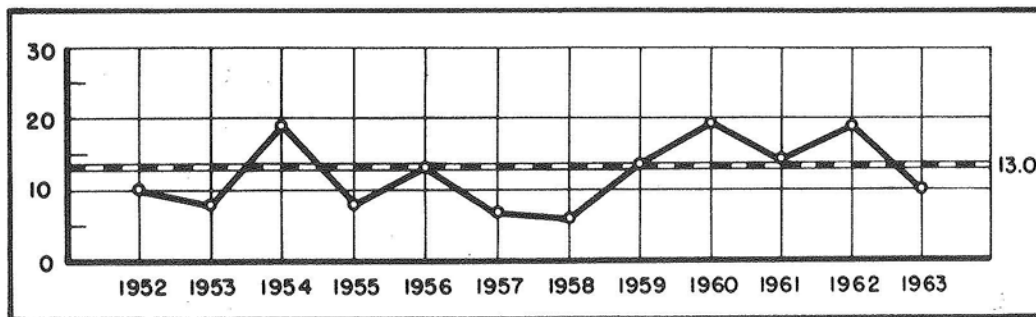
# FATALITIES FROM VIOLENCE OF UNDETERMINED ORIGIN

## 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	F	M	F	M	F
CERVICAL COMPRESSION	1		1				1											1			1		1														
DROWNING	1	1		1														1			1		1														
INJURY TO BODY	2	2		1			1		1		1						1	1																			
INJURY TO HEAD	2	1	1	1	1												1	1		1	1						1										
POISONING	1		1		1												1		1																		
SHOOTING	1	1		1													1			1																1	
<b>TOTAL</b>	<b>8</b>	<b>5</b>	<b>3</b>	<b>4</b>	<b>2</b>			<b>1</b>	<b>1</b>		<b>1</b>		<b>1</b>				<b>4</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>1</b>				<b>1</b>							<b>1</b>		

**FOR A PERIOD OF TWELVE YEARS - 1963**



From 1963 Coroner's Statistical Report

# FATALITIES FROM VIOLENCE OF UNDETERMINED ORIGIN AGE-RACE-ALCOHOL INCIDENCE

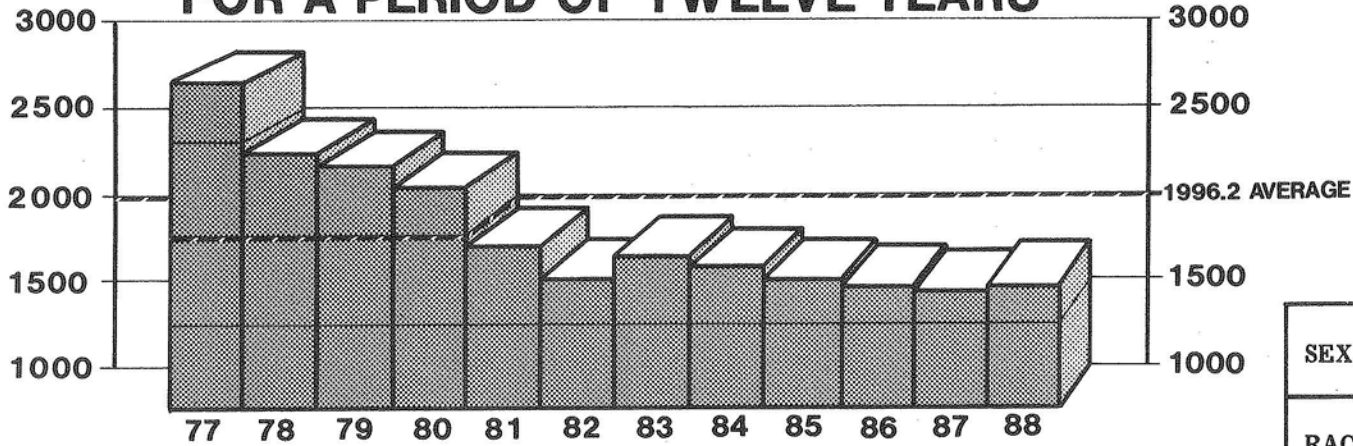
**TABLE 79**

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	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	1		1								1			1															
	Non-White																													
30 - 34	White	1		1								1			1							1								
	Non-White																													
35 - 39	White	1		1								1			1			1												
	Non-White	1		1								1			1			1												
40 - 44	White																													
	Non-White	1		1								1			1															1
45 - 49	White																													
	Non-White	1		1								1			1															
50 - 54	White																													
	Non-White																													
55 - 59	White																													
	Non-White																													
60 - 64	White																													
	Non-White																													
65 - 69	White																													
	Non-White																													
70 - 74	White																													
	Non-White																													
75 - 79	White																													
	Non-White																													
80 - over	White	1		1		1		1																						
	Non-White																													
TOTAL	White	5		3		2		1		1		2		2		1		1		1		1								
	Non-White	3		2		1						2		1		1		2		1										1
GRAND TOTAL		8		5		3		1		1		4		3		1		2		3		1		1		1				1

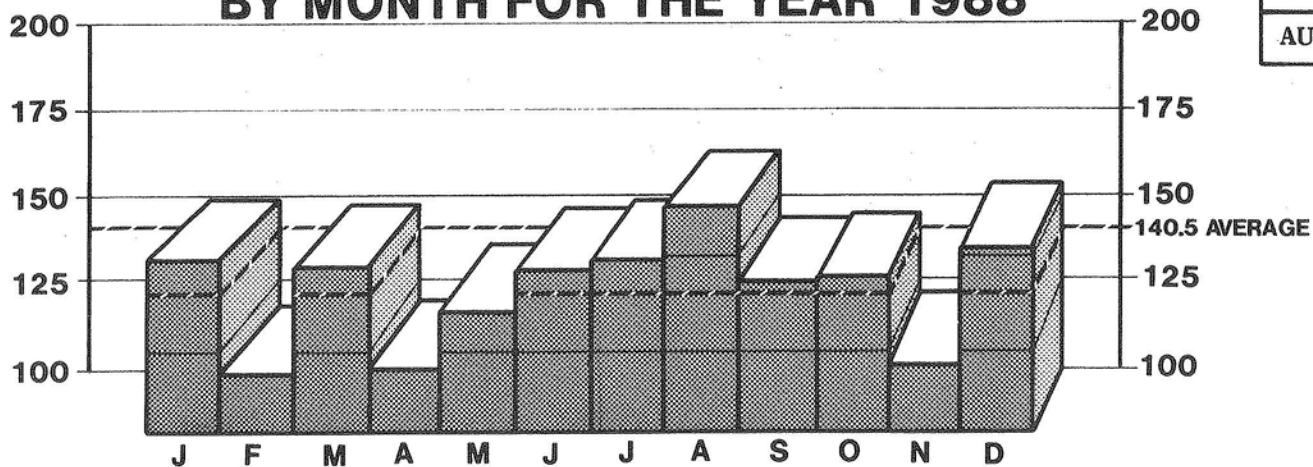


# NATURAL CAUSES

**FOR A PERIOD OF TWELVE YEARS**



**BY MONTH FOR THE YEAR 1988**



		NUMBER	PERCENT
SEX	MALE	1056	63
	FEMALE	630	37
RACE	WHITE	1064	63
	NON-WHITE	622	37
ALCOHOL	TESTED	1342	80
	POSITIVE	124	9
AUTOPSY	AUTOPSIED	588	35

1988
TOTAL CASES
1686

## DEATHS FROM NATURAL CAUSES

## MONTHLY ALCOHOL INCIDENCE

TABLE 80

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	M	F	M	F
JANUARY	149	94	55	11	6	2	1			9	5	83	49	72	44	11	5	4	1	3	3	1		2		1				1	
FEBRUARY	118	78	40	7	8	1	3			6	5	71	32	64	30	7	2	3	1			2	1	1		1					
MARCH	147	93	54	9	7	4	2			5	5	84	47	77	44	7	3	2	2	1		2		2	1						
APRIL	119	69	50	17	14					17	14	52	36	41	36	11		4		1		3		1		1		1			
MAY	135	88	47	12	9	1	1			11	8	76	38	70	35	6	3		1		1	2		1		1	1	1		1	
JUNE	146	93	53	26	17	1	2			25	15	67	36	64	32	3	4	1	2		1	1		1				1			
JULY	149	93	56	31	19	2	1			29	18	62	37	52	34	10	3	2	2	5	1	2		1							
AUGUST	163	95	68	23	22	1	3			22	19	72	46	63	41	9	5	4	2	1	2	3	1	1							
SEPTEMBER	143	94	49	19	10	1	1	2		16	9	75	39	67	36	8	3	3		3	1			1		1	1	1			
OCTOBER	144	92	52	24	18	1	4			23	14	68	34	61	32	7	2	1		2	1	1		1	1			1		1	
NOVEMBER	121	74	47	7	11		1			7	10	67	36	65	35	2	1					1					2				
DECEMBER	152	93	59	8	9		1			8	8	85	50	77	46	8	4	5	2		1	1		1				1	1		
TOTAL	1686	1056	630	194	150	14	20	2		178	130	862	480	773	445	89	35	29	13	16	11	18	3	13	2	4	2	7	3	2	1



# DEATHS FROM NATURAL CAUSES

## INTERNATIONAL CODE OF CAUSES OF DEATH LISTED BY MONTH

**TABLE 81**

CLASSIFICATION OF DISEASES BY CODE*	JAN.		FEB.		MAR.		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	8		2
Neoplasms	4		3	1	3	3	2	1	3	1	2	1	1	1	6	3	4		1	1	1		3	5	33	17	50	
Allergic, Endocrine System, Metabolic and Nutritional Diseases				1								1		1	1	1						1				4	2	6
Diseases of the Blood and Blood-forming Organs						1																				1	1	
Mental, Psychoneurotic and Personality Disorders**			1		1		1		1						2			1	4	1					9	3	12	
Diseases of the Nervous System and Sense Organs	1			2			1	1		1					2	1	1	1							5	6	11	
Diseases of the Circulatory System	79	52	68	33	77	45	57	42	75	35	76	44	83	48	77	58	80	42	73	41	64	43	82	49	891	532	1423	
Diseases of the Respiratory System	2				3	3	3	2		2	4	1	1	1	3		2	1	4	2	3	1	1		26	13	39	
Diseases of the Digestive System	3	2	2	2	7	2	3	3	5	3	5	2	2		1	3	2	2	2	3	1	1	2	3	35	26	61	
Diseases of the Genito-urinary System	1												1				1			1					2	2	4	
Deliveries and Complications of Pregnancy, Childbirth and the Puerperium																				1						1	1	
Diseases of the Skin and Cellular Tissue			1														1				1				3		3	
Diseases of the Bones and Organs of Movement					1																				1		1	
Congenital Malformation									1					2			1	1							2	3	5	
Certain Diseases of Early Infancy										1																	0	
Symptoms, Senility and Ill-defined Conditions***	4	1	2	1	1		2	1	2	5	3	4	5	2	3	2	2	1	6	2	3	2	4	1	37	22	59	
<b>TOTAL</b>	<b>94</b>	<b>55</b>	<b>78</b>	<b>40</b>	<b>93</b>	<b>54</b>	<b>69</b>	<b>50</b>	<b>88</b>	<b>47</b>	<b>93</b>	<b>53</b>	<b>93</b>	<b>56</b>	<b>95</b>	<b>68</b>	<b>94</b>	<b>49</b>	<b>92</b>	<b>52</b>	<b>74</b>	<b>47</b>	<b>93</b>	<b>59</b>	<b>1056</b>	<b>630</b>	<b>1686</b>	

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

\*\* In Mental, Psychoneurotic and Personality Disorders 11 were due to alcoholism.(Alcoholism with associated physical disease totaled 18.)

\*\*\* Sudden Infant Death Syndrome Totaled 41.

# AUTOPSIES-DEATHS FROM NATURAL CAUSES

## INTERNATIONAL CODE OF CAUSES OF DEATH LISTED BY MONTH

**TABLE 82**

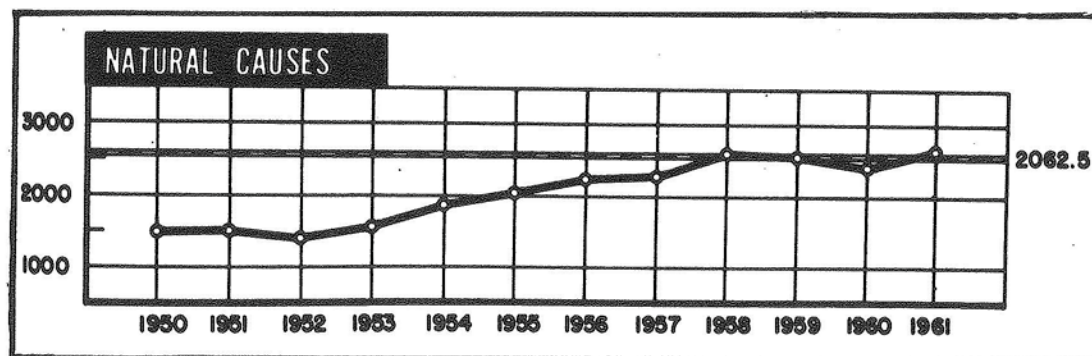
CLASSIFICATION OF DISEASES BY CODE*	JAN.		FEB.		MAR.		APRIL		MAY		JUNE		JULY		AUG.		SEPT.		OCT.		NOV.		DEC.		TOTAL		GRAND TOTAL		
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
Infective and Parasitic Diseases			1				1		1						1				1				1	1	6	1	7		
Neoplasms	2		1	1	2				4						3	1	2			1			1	2	13	7	20		
Allergic, Endocrine System, Metabolic and Nutritional Diseases				1							1		1	1	1												3	2	5
Diseases of the Blood and Blood-forming Organs						1																				1	1		
Mental, Psychoneurotic and Personality Disorders**			1		1		1			1					2			1	4	1					9	3	12		
Diseases of the Nervous System and Sense Organs								1	1		1					2	1	1	1						4	4	8		
Diseases of the Circulatory System	37	10	24	6	23	11	12	12	22	13	18	12	27	11	29	15	26	7	18	10	19	7	19	10	274	124	398		
Diseases of the Respiratory System	1				2	3	3	2		1	3	1	2	1	2		1	1	2		3	2	1		20	11	31		
Diseases of the Digestive System	2	7	1		4	2	3	1	4	2	3	1	1		1	2		2	2	2	1	1	1	3	23	17	40		
Diseases of the Genito-urinary System	1												1						1	1					2	2	4		
Deliveries and Complications of Pregnancy, Childbirth and the Puerperium																				1						1	1		
Diseases of the Skin and Cellular Tissue			1																		1				2		2		
Diseases of the Bones and Organs of Movement					1																				1		1		
Congenital Malformations										1										1					1	1	2		
Certain Diseases of Early Infancy																											0		
Symptoms, Senility and Ill-defined Conditions***	4	1	2	1	1		2	1	2	4	2	4	5	2	3	2	1	1	6	2	3	2	4	1	35	21	56		
<b>TOTAL</b>	<b>47</b>	<b>12</b>	<b>30</b>	<b>9</b>	<b>33</b>	<b>19</b>	<b>22</b>	<b>17</b>	<b>35</b>	<b>21</b>	<b>28</b>	<b>18</b>	<b>36</b>	<b>16</b>	<b>42</b>	<b>22</b>	<b>31</b>	<b>13</b>	<b>35</b>	<b>19</b>	<b>27</b>	<b>12</b>	<b>27</b>	<b>17</b>	<b>393</b>	<b>195</b>	<b>588</b>		

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

\*\* In Mental, Psychoneurotic and Personality Disorders 11 were due to Alcoholism. (Alcoholism with associated Physical Diseases total 18)

\*\*\* Sudden Unexpected Infant Deaths Totaled 40.

**FOR A PERIOD OF TWELVE YEARS - 1961**





# DEATHS FROM NATURAL CAUSES

## MONTHS AND AGE GROUPS

**TABLE 83**

AGE	JAN.		FEB.		MAR.		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	5	1	1	1	1	1	3	1	2	3	4	2	4	1	4	3	3	3	6	1	3	2	1		37	19	56
1 - 4			1					1				1											1	1	2	3	5
5 - 9													1						1					1	2	1	3
10 - 14		1														1									1	1	2
15 - 19	1										3														4		4
20 - 24	1							1			1			3	1	1	1		1				2		7	5	12
25 - 29								1			1	1	1	1			1		1	2			1		5	5	10
30 - 34	1	1		1	2		2		1	4		1	3	1	1	1	3		1	4	2	1	5	1	21	15	36
35 - 39	3			1	2	3	3		2	2	4	2	1	2	4		2	1	2	1	3		1	1	27	13	40
40 - 44	5		6		1		1	2	4	1	1	4	2	1	7	6	1	3	4	3	2	1	6	3	40	24	64
45 - 49	9	4	5	3	10	2	3	2	9	4	3	4	4		2	2	7	1	2	2	4	1	6	2	64	27	91
50 - 54	7	3	5	2	6	2	8	1	8	1	6		6	6	6	7	6		2	3	4	3	2	1	66	29	95
55 - 59	9	7	10	3	9	2	7	6	8	4	7	4	10	3	13	4	12	6	8	3	10		10	4	113	46	158
60 - 64	17	4	14	8	12	7	14	8	8	7	9	5	14	3	14	6	16	4	15	9	10	11	13	6	156	78	234
65 - 69	15	6	11	7	15	7	11	9	23	4	10	5	17	5	14	6	12	6	16	3	9	7	10	9	163	74	237
70 - 74	12	5	10	4	12	12	7	7	12	7	19	8	12	10	12	11	11	7	12	7	8	1	13	9	140	88	228
75 - 79	4	7	3	3	13	6	4	3	6	5	11	3	6	7	13	7	8	3	6	1	9	5	7	7	90	57	147
80-over	5	16	12	7	10	12	6	8	5	5	14	13	12	13	4	14	10	15	15	13	10	15	15	14	118	145	233
TOTAL	94	55	78	40	93	54	69	50	88	47	93	53	93	56	95	68	94	49	92	52	74	47	93	59	1056	630	1686

# AUTOPSIES-DEATHS FROM NATURAL CAUSES

## MONTHS AND AGE GROUPS

**TABLE 84**

AGE	JAN.		FEB.		MAR.		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	5	1	1	1	1	1	3	1	2	3	4	2	4	1	4	3	2	2	6	2	3	2	1		36	19	55
1 - 4			1					1															1	1	2	2	4
5 - 9													1						1					1	2	1	3
10 - 14		1																								1	1
15 - 19											3														3		3
20 - 24	1							1			1		2	1	1				1				2		6	4	10
25 - 29								1			1	1	1						2	1			1		5	3	8
30 - 34		1			2		1		1	4		1	2	1	1	1	2		1	3	2	2	4		16	13	29
35 - 39	3			1	1	3	2		2	1	2	2	1	2	3		2	1	2		2		1	1	21	11	32
40 - 44	5		6				1	2	4	1	1	3	2		6	6	1	3	3	3	2	1	4	2	35	21	56
45 - 49	6	2	4	1	9	1	2	3	5	3	2	4	4		2	2	5	1	2	1	4	1	4	1	49	20	69
50 - 54	4		3	1	5	2	3	1	5		3		3	5	5	3	3			2	3	1		1	37	16	53
55 - 59	5		2	1	4		2	1	5	1	2		2		7	1	5	1	4		3		2	1	43	6	49
60 - 64	4		4	1	4	4	5	3	2	2		2	2		5	2	3	1	6	2	3		2	3	40	20	60
65 - 69	6	1	1	1	2		1		5	1	3		5	1	2	1	2	3	4		2	2	1	1	34	11	45
70 - 74	4	2	4		2	3		2	2	2	5	1	5	2	2	2	3	1	2	2	2		2	2	33	19	52
75 - 79	2	2			1	1			1	1	1		1	1	3		1		1		1	1	1	2	13	8	21
80-Over	2	2	4	2	2	4	2	1	1	2		2	3	1	1		2			3		2	1	1	18	20	38
<b>TOTAL</b>	<b>47</b>	<b>12</b>	<b>30</b>	<b>9</b>	<b>33</b>	<b>19</b>	<b>22</b>	<b>17</b>	<b>35</b>	<b>21</b>	<b>28</b>	<b>18</b>	<b>36</b>	<b>16</b>	<b>42</b>	<b>22</b>	<b>31</b>	<b>13</b>	<b>35</b>	<b>19</b>	<b>27</b>	<b>12</b>	<b>27</b>	<b>17</b>	<b>393</b>	<b>195</b>	<b>588</b>



# DEATHS FROM NATURAL CAUSES

## INTERNATIONAL CODE OF CAUSES OF DEATH LISTED BY AGE GROUPS

**TABLE 85**

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-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		2	2	1											1		1										1		1									8	2	10
Neoplasms									1						1	2			2	1			6	3	3	1	7	1	6	1	4	2	3	2		4	33	17	50			
Allergic, Endocrine System, Metabolic and Nutritional Diseases	1									1						1				1	1		1															4	2	6		
Diseases of the Blood and Blood-forming Organs																		1																						1		
Mental, Psychoneurotic and Personality Disorders **												1		2		1	2	2	1							2			1									9	3	12		
Diseases of the Nervous System and Sense Organs								1											1				2	1		1	2	2			1								5	6	11	
Diseases of the Circulatory System	3	2					1	1		1	3	3	2	15	7	14	7	31	14	57	21	51	20	101	43	134	68	148	70	130	82	87	52	115	140	891	532	1423				
Diseases of the Respiratory System	2	1		1				1		3			1		2	3	2	1		1	1	2	1	2	1	3	1	3	1				2					26	13	39		
Diseases of the Digestive System							1			1					1	3	5		5	5	3	4	5	2	4		4	4	3	2	2	2		3	1	1			35	26	61	
Diseases of the Genito-urinary System											1	1						1									1													2	2	4
Deliveries and Complications of Pregnancy, Childbirth and the Puerperium													1																											1	1	
Diseases of the Skin and Cellular Tissue										1																	2														3	3
Diseases of the Bones and Organs of Movement																											1														1	1
Congenital Malformations		1									1		1	2																										2	3	5
Certain Diseases of Early Infancy																																										0
Symptoms, Senility and Ill-defined Conditions ***	30	15			1	1							1	2						1				1				2	2	1										37	22	59
<b>TOTAL</b>	<b>37</b>	<b>19</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>7</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>21</b>	<b>15</b>	<b>27</b>	<b>13</b>	<b>40</b>	<b>24</b>	<b>64</b>	<b>27</b>	<b>66</b>	<b>29</b>	<b>113</b>	<b>16</b>	<b>156</b>	<b>78</b>	<b>163</b>	<b>74</b>	<b>140</b>	<b>88</b>	<b>90</b>	<b>57</b>	<b>118</b>	<b>145</b>	<b>1056</b>	<b>630</b>	<b>1686</b>				

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

\*\* In Mental, Psychoneurotic and Personality Disorders 11 were due to Alcoholism. (Alcoholism with associated Physical Disease Totaled 18.)

\*\*\* Sudden Unexpected Infant Deaths Totaled 41.

# AUTOPSIES-DEATHS FROM NATURAL CAUSES

## INTERNATIONAL CODE OF CAUSES OF DEATH LISTED BY AGE GROUPS

**TABLE 86**

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-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		2	1	1														1																					6	1	7	
Neoplasms														2			1						3	3	2		1	1	3			1	1	1				13	7	20				
Allergic, Endocrine, Metabolic and Nutritional Diseases	1									1										1	1		1																3	2	5			
Diseases of the Blood and Blood-forming Organs																1																								1	1	2		
Mental, Psychoneurotic and Personality Disorders **													1		2		1	2	2	1						2														9	3	12		
Diseases of the Nervous System and Sense Organs						1														1			2	1		1	1	1												4	4	8		
Diseases of the Circulatory System	3	2				1	1		1	3	3	2	11	7	10	5	27	13	45	14	27	9	34	5	30	14	25	9	29	16	12	6	16	18				274	124	398				
Diseases of the Respiratory System	2	1		1			1		3				2	3	2	1			1	1	2	1	1		2	1	1	1	1	1					2			20	11	31				
Diseases of the Digestive System									1				1	2	5		4	4	1	4	3		3		1	2	2	1	2	2		1			1			23	17	40				
Diseases of the Genito-urinary System										1	1															1														2	2	4		
Deliveries and Complications of Pregnancy, Childbirth and the Puerperium																																									1	1	2	
Diseases of the Skin and Cellular Tissue																																										2		2
Diseases of the Bones and Organs of Movement																											1															1		1
Congenital Malformations		1											1														1														1	1	2	
Certain Diseases of Early Infancy																																												0
Symptoms, Senility and Ill-defined Conditions ***	29	15			1	1							1	2		1				1				1	1		1	1	1												35	21	56	
<b>TOTAL</b>	<b>36</b>	<b>19</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>		<b>1</b>	<b>3</b>		<b>6</b>	<b>4</b>	<b>5</b>	<b>3</b>	<b>16</b>	<b>13</b>	<b>21</b>	<b>11</b>	<b>35</b>	<b>21</b>	<b>49</b>	<b>20</b>	<b>37</b>	<b>16</b>	<b>43</b>	<b>6</b>	<b>40</b>	<b>20</b>	<b>34</b>	<b>11</b>	<b>33</b>	<b>19</b>	<b>13</b>	<b>8</b>	<b>18</b>	<b>20</b>	<b>393</b>	<b>195</b>	<b>588</b>					

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

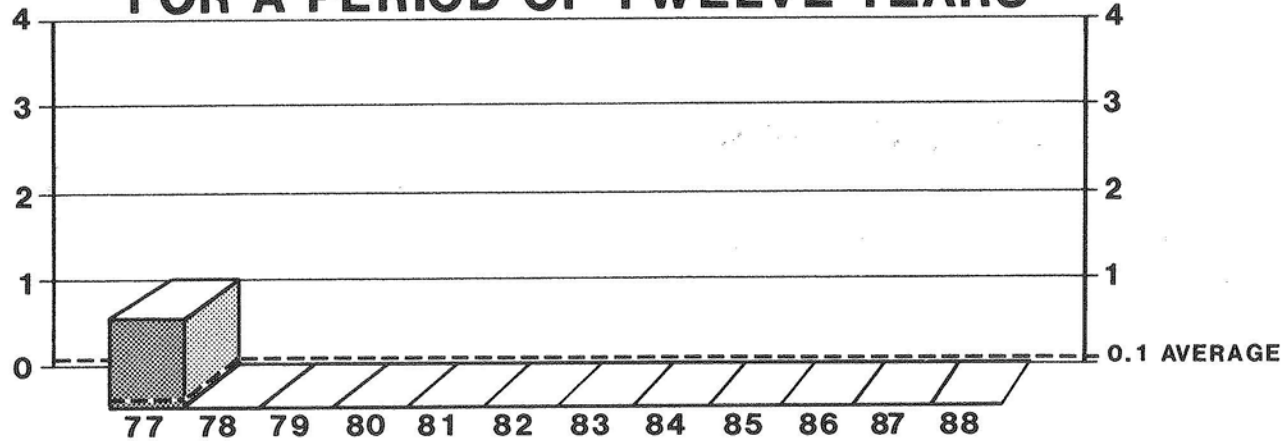
\*\* In Mental, Psychoneurotic and Personality Disorders 11 were due to Alcoholism. (Alcoholism with associated Physical Disease Totaled 18.)

\*\*\* Sudden Unexpected Infant Deaths Totaled 40.

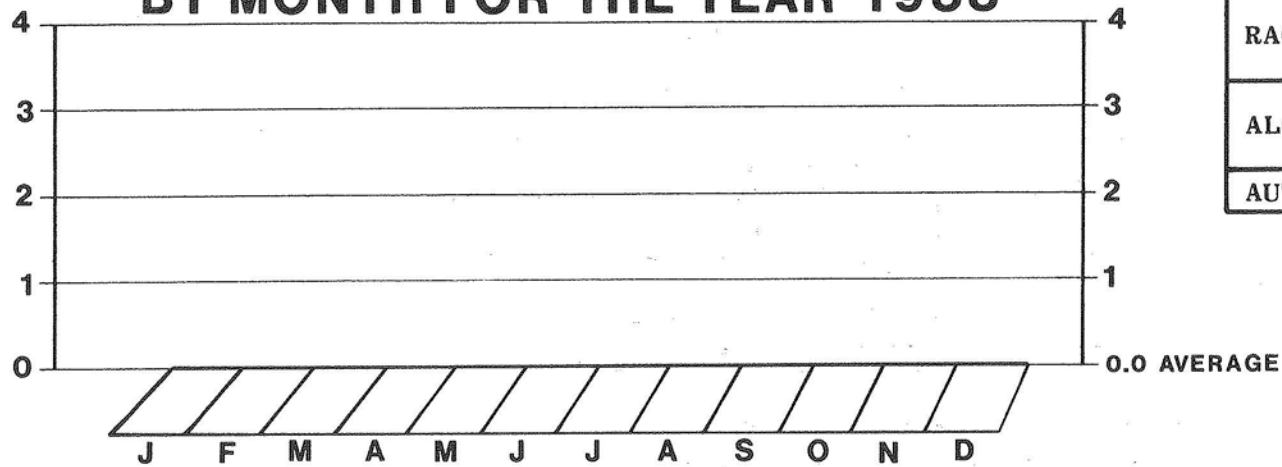


# ABORTIONS

FOR A PERIOD OF TWELVE YEARS



BY MONTH FOR THE YEAR 1988



		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

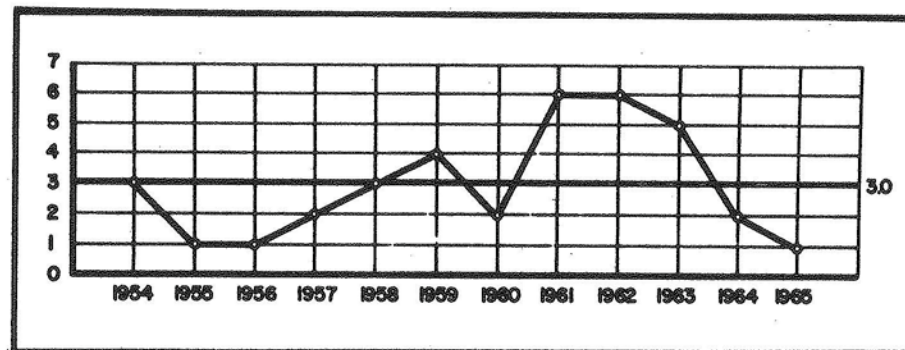
1988
TOTAL CASES
0

# ABORTION FATALITIES

**TABLE 87**

**NO FATALITIES  
RECORDED IN THIS CATEGORY IN 1988**

**FOR A PERIOD OF TWELVE YEARS - 1965**

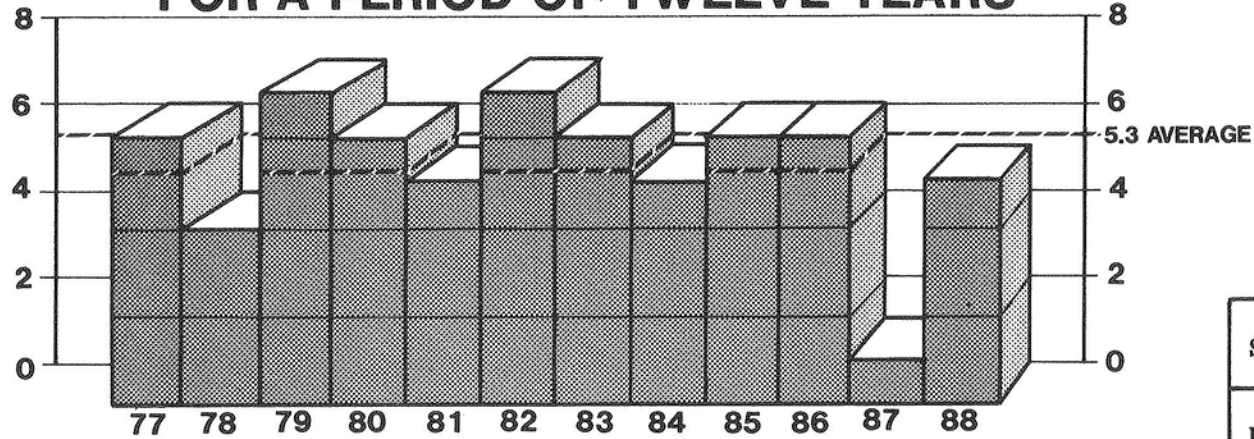


From 1965 Coroner's Statistical Report

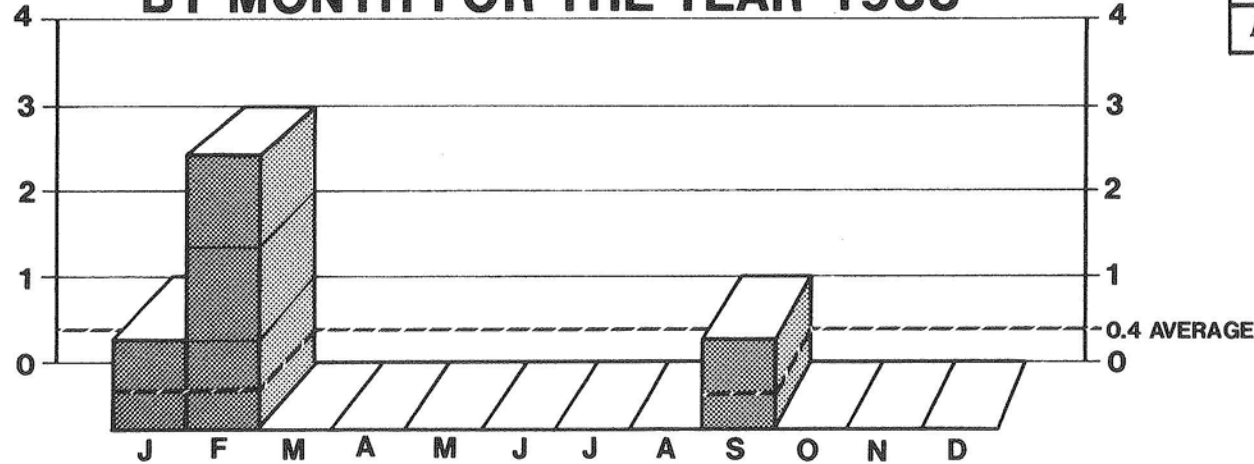


# NEONATAL AND INTRA-UTERINE DEATHS

FOR A PERIOD OF TWELVE YEARS



BY MONTH FOR THE YEAR 1988



		NUMBER	PERCENT
SEX	MALE	3	60
	FEMALE	2	40
RACE	WHITE	2	40
	NON-WHITE	3	60
ALCOHOL	TESTED	0	0
	POSITIVE	0	0
AUTOPSY	AUTOPSIED	5	100

1988
TOTAL CASES
5

# NEONATAL AND INTRA-UTERINE DEATHS \*

## BY MONTH AND AGE GROUPS

**TABLE 88**

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							1	1			1							2	1
MARCH																			
APRIL																			
MAY																			
JUNE																			
JULY																			
AUGUST																			
SEPTEMBER							1												1
OCTOBER																			
NOVEMBER																			
DECEMBER																			
TOTAL						1	2	1			1							3	2

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

This category includes stillbirths (foetal deaths) and deaths due to natural causes in the 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 - NEONATAL AND INTRA-UTERINE DEATHS\*

## BY MONTH AND AGE GROUPS

**TABLE 89**

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							1	1			1							2	1
MARCH																			
APRIL																			
MAY																			
JUNE																			
JULY																			
AUGUST																			
SEPTEMBER							1												1
OCTOBER																			
NOVEMBER																			
DECEMBER																			
TOTAL							1	2	1			1						3	2

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

This category includes stillbirths (foetal deaths) and deaths due to natural causes in the early neonatal period (live births).

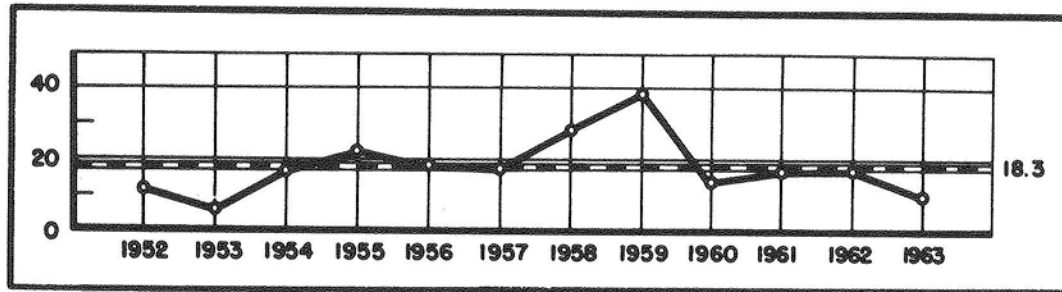
GROUP I - Less than 20 completed weeks of gestation.

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

GROUP III - 28 completed weeks of gestation and over.

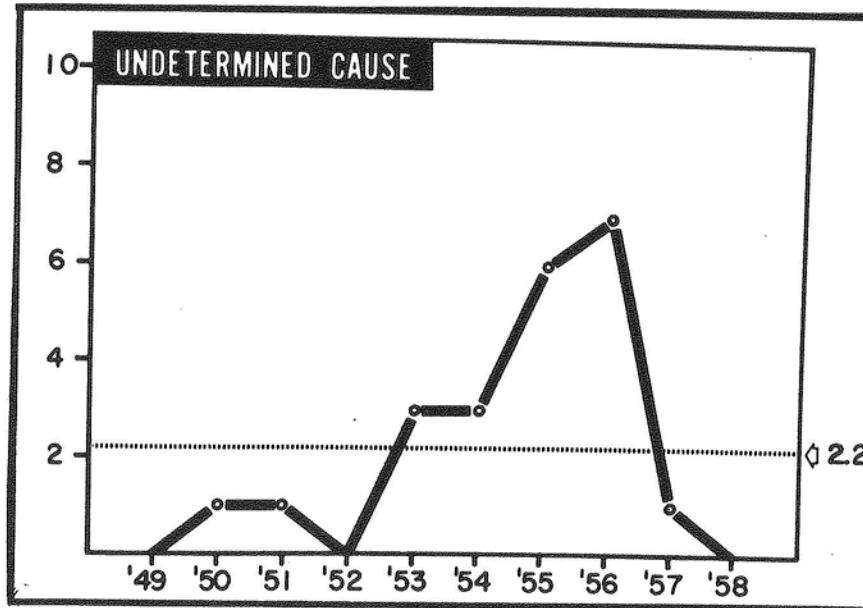
GROUP IV - Gestation period not classifiable in Group I, II and III.

**NEONATAL AND INTRA-UTERINE DEATHS, FOR A PERIOD OF TWELVE YEARS - 1963**



From 1963 Coroner's Statistical Report

**FOR A PERIOD OF TWELVE YEARS - 1958**

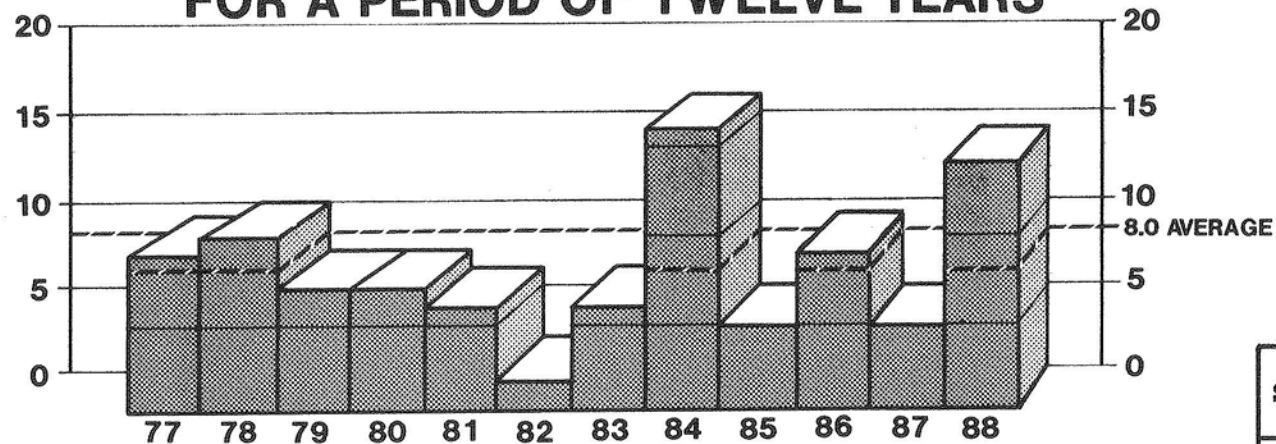


From 1958 Coroner's Statistical Report

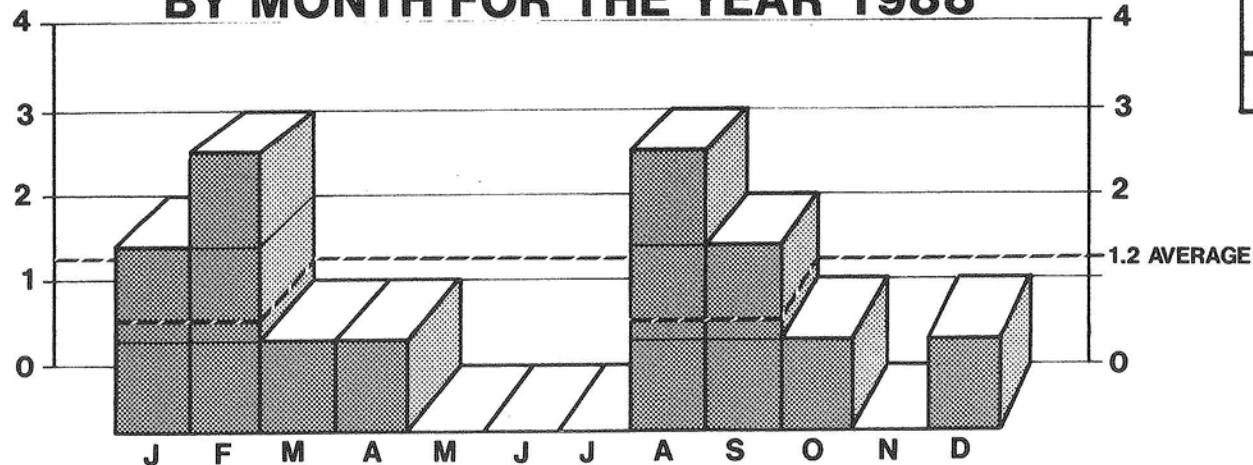


# UNDETERMINED CAUSES

## FOR A PERIOD OF TWELVE YEARS



## BY MONTH FOR THE YEAR 1988



		NUMBER	PERCENT
SEX	MALE	5	36
	FEMALE	9	64
RACE	WHITE	4	29
	NON-WHITE	10	71
ALCOHOL	TESTED	13	93
	POSITIVE	4	31
AUTOPSY	AUTOPSIED	14	100

1988
TOTAL CASES
14

## DEATHS FROM UNDETERMINED CAUSES

**TABLE 90**

COLOR	SEX	AGE	MARITAL STATUS	DATE OF DEATH	OCCUPATION	WHERE DEATH OCCURRED	CASE NUMBER
Black	Female	28	Single	1/29/88	Unemployed	Cleveland	200084
Black	Female	00	Infant	1/31/88	Infant	Cleveland	200109
Black	Female	50	Single	2/9/88	Homemaker	Cleveland	200183
Black	Male	60	Single	2/23/88	None	Cleveland	200273
White	Male	27	Single	2/26/88	Survey Information	Mayfield Heights	200294
Black	Female	51	Divorced	3/26/88	Secretary	Cleveland	200498
White	Male	02	Child	4/16/88	Child	Cleveland	200644
Black	Male	38	Single	8/4/88	None	Cleveland	201476
Black	Female	17	Single	8/14/88	Student	Warrensville Heights	201561
Black	Male	32	Single	8/16/88	Unemployed	East Cleveland	201574
White	Female	78	Widowed	9/19/88	Clerk	Cleveland	201844
Black	Female	36	Single	9/20/88	Housekeeping	Garfield Heights	201858
Black	Female	02	Child	10/4/88	Child	Cleveland	201963
White	Female	41	Married	12/27/88	Credit Manager	Cleveland	202578

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

Advanced postmortem decomposition in 6 cases.

Toxicology examination and alcohol determination conducted on 13 cases.

Alcohol determination resulted in 4 positive cases and 9 negative cases.



# TOXICOLOGY

## INCIDENCE OF POISONINGS (%) IN TESTED INDIVIDUALS

**TABLE 91**

CUYAHOGA COUNTY CORONER'S OFFICE		
CASES		
	NUMBER OF DECEDENTS	NUMBER OF FATAL POISONINGS
AUTOPSIED	1404 (51.3%)	134 (97.8%)
NON-AUTOPSIED	1333 (48.7%)	3 ( 2.2%)
<b>TOTAL</b>	<b>2737 (100.0%)</b>	<b>137 (100.0%)</b>
<b>NO SAMPLES*</b>	<b>506 (18.5%)</b>	<b>4 ( 2.9%)</b>

\* No specimens submitted for toxicological analysis.

81.5% of Coroner's Cases were tested for toxicological analysis.

SAMPLES RECEIVED	
OUTSIDE REFERRING AGENCIES	
SOURCE	NUMBER
OTHER HOSPITALS AND FORENSIC AGENCIES	39 (10.1%)
DECEDENTS FROM OTHER CORONER'S JURISDICTION	78 (20.3%)
PROFICIENCY CASES	80 (20.8%)
POLICE CASES	188 (48.8%)
<b>TOTAL</b>	<b>385 (100.0%)</b>

## TOXICOLOGY - 1937, 1938, and 1939

Table No. 10 (A)

CHEMICAL WORK YEARS 1937 1938 1939									
	1937			1938			1939		
	POSITIVE	NEGATIVE	TOTAL	POSITIVE	NEGATIVE	TOTAL	POSITIVE	NEGATIVE	TOTAL
<b>ALCOHOLIC DETERMINATIONS</b>									
<b>AT COUNTY MORGUE SOURCE</b>									
Urine	203	140	343	167	145	312	152	110	262
Blood	207	197	404	208	227	435	192	224	416
Spinal Fluid	67	47	114	13	5	18			
Bladder Substance	0	1	1						
Stomach Contents	8	2	10	10		10	10	3	13
Liver							0	1	1
	485	387	872	398	377	775	354	338	692
<b>ALCOHOL TESTS, AT MORGUE FOR CLEVELAND POLICE DEPT.</b>									
Urine	374	7	381	70	5	75			
<b>ALCOHOL TESTS AT MORGUE FROM HOSPITAL SURVEY</b>									
Blood	5	0	5	7	0	7	7	0	7
Urine	78	116	194	11	0	11	8	0	8
	83	116	199	18	0	18	15	0	15
<b>TOTAL ALCOHOL TEST</b>			1452			868			707
<b>OTHER URINARY TESTS</b>									
<b>NATURE OF TEST</b>									



# TOXICOLOGY LABORATORY REPORT

## INCIDENCE AND FREQUENCY OF POSITIVE FINDINGS

**TABLE 91A**

SUBSTANCES	CUYAHOGA COUNTY CORONER'S LABORATORY CASES <sup>1</sup>					
	POSITIVE CASES			FATAL POISONINGS		
	INCIDENCE	% TOTAL CASES	% SAMPLES RECEIVED	INCIDENCE	% TOTAL CASES	% SAMPLES RECEIVED
Acetaminophen	53	1.94	2.38	8	5.84	5.94
Barbiturates (Total)	(35)	1.32	1.57			
Butabarbital	1	0.04	0.04			
Pentabarbital	2	0.07	0.09			
Phenobarbital	32	1.17	1.43			
Benzodiazepine (Total)	(112)	4.09	5.02	(48)	35.04	35.82
Chloradizepoxide	6	0.22	0.27	2	1.46	1.49
Diazepam	43	1.57	1.93	17	12.41	12.69
n-Desmethylchlordiazepoxide	2	0.07	0.13			
n-Desmethyldiazepam	55	2.01	1.93	25	18.25	18.66
Demoxepam	2	0.07	0.09	2	1.46	1.49
Lorazepam	1	0.04	0.04			
Oxazepam	2	0.07	0.09	1	0.73	0.75
Temazepam	1	0.04	0.04	1	0.73	0.75
Benztropine	1	0.04	0.04			
Brompheniramine	4	0.15	0.18	1	0.73	0.75
Caffeine	12	0.44	0.54	1	0.73	0.75
Carbon Monoxide <sup>2</sup>	63	2.30	2.82	53	38.69	39.55
Carbamazepine <sup>2</sup>	7	0.26	0.31	1	0.73	0.75
Carbinoxamine	2	0.07	0.09			
Chlorpheniramine	11	0.40	0.49	1	0.73	0.75
Chlorpropamide	11	0.40	0.49			
Cocaine	75	2.74	3.36	27	19.71	20.15
Cocaine Metabolite	70	2.56	3.14	24	17.52	17.91
Cyclobenzaprine	3	0.11	0.13	2	1.46	1.49
Dextromethorphan	11	0.40	0.49	1	0.73	0.75
Diphenhydramine	28	1.02	1.26	6	4.38	4.48
Doxylamine	9	0.33	0.40	2	1.46	1.49
Ibuprofen	1	0.04	0.04	1	0.73	0.75
Ketamine	5	0.18	0.22			
Lidocaine	251	9.17	11.25	17	12.41	12.69
Meperidine	20	0.73	0.90	2	1.46	1.49
Meprobamate	1	0.04	0.04	1	0.73	0.75

# TOXICOLOGY LABORATORY REPORT

## INCIDENCE AND FREQUENCY OF POSITIVE FINDINGS

**TABLE 91A cont.**

CUYAHOGA COUNTY CORONER'S LABORATORY CASES <sup>1</sup>						
SUBSTANCES	POSITIVE CASES			FATAL POISONINGS		
	INCIDENCE	% TOTAL CASES	% SAMPLES RECEIVED	INCIDENCE	% TOTAL CASES	% SAMPLES RECEIVED
Methadone	5	0.18	0.22			
Normeperidine	4	0.15	0.18			
Norpropoxyphene	30	1.10	1.34	11	8.03	8.21
Opiates (Total)	(103)	3.76	4.62	(41)	29.93	30.50
Codeine	29	1.06	1.30	13	9.49	9.70
Morphine	73	2.67	3.27	27	19.71	20.15
Oxycodone	1	0.04	0.04	1	0.73	0.75
Pentazocine	2	0.07	0.09	1	0.73	0.75
Phencyclidine	5	0.18	0.22	1	0.73	0.75
Phenothiazines (Total)	(24)	0.88	1.08	(9)	6.57	6.72
Chlorpromazine	5	0.18	0.22	1	0.73	0.75
Thioridazine	6	0.22	0.27	3	2.19	2.24
Others	13	0.47	0.58	5	3.65	3.73
Phenytoin	41	1.50	1.84	1	0.73	0.75
Placidyl	1	0.04	0.04	1	0.73	0.75
Propoxyphene	35	1.28	1.57	14	10.22	10.45
Propranolol	3	0.11	0.13	1	0.73	0.75
Primadone	4	0.15	0.18			
Quinidine	8	0.29	0.36			
Quinine	14	0.51	0.63	5	3.65	3.73
Tricyclic Antidepressants (Total)	(76)	2.78	3.41	(30)	21.90	22.39
Amitriptyline	21	0.77	0.94	7	5.11	5.22
Amoxapine	1	0.04	0.04	1	0.73	0.75
Desimipramine	9	0.33	0.40	3	2.19	2.24
Doxepin	13	0.47	0.58	7	5.11	5.22
Imipramine	2	0.07	0.13	1	0.73	0.75
Nordoxepin	10	0.36	0.45	6	4.38	4.48
Nortriptyline	20	0.73	0.90	5	3.65	3.73



# TOXICOLOGY LABORATORY REPORT

## INCIDENCE AND FREQUENCY OF POSITIVE FINDINGS

**TABLE 91A cont.**

SUBSTANCES	CUYAHOGA COUNTY CORONER'S LABORATORY CASES <sup>1</sup>					
	POSITIVE CASES			FATAL POISONINGS		
	INCIDENCE	% TOTAL CASES	% SAMPLES RECEIVED	INCIDENCE	% TOTAL CASES	% SAMPLES RECEIVED
Salicylate	8	0.29	0.36	1	0.73	0.75
Sympathomimetics (Total)	(28)	1.10	1.34	(8)	5.84	5.97
beta-Phenethylamine <sup>2</sup>	2	0.07	0.09			
Ephedrine	13	0.47	0.58	3	2.19	2.24
Phentermine	3	0.11	0.13	1	0.73	0.75
Phenylpropanolamine	10	0.37	0.45	4	2.92	2.99
Theophylline <sup>2</sup>	5	0.18	0.22			
Volatiles (Total)	(463)	17.06	20.93	(65)	47.45	48.51
Acetone	18	0.66	0.81			
Chloroform	1	0.04	0.04			
Ethanol	441	16.11	19.77	63	45.99	47.01
Methanol	1	0.04	0.04	1	0.73	0.75
Trichloroethanol	2	0.07	0.09	1	0.73	0.75
<b>TOTAL</b>	<b>1644</b>			<b>385</b>		

1. All autopsied decedents from whom specimens were submitted and 30% of the remaining unautopsied decedents preceding spot tests were completely evaluated. (as defined by items 2 – 10 on Table 92) Specimens from the remaining decedents were tested primarily for ethyl alcohol and its analogues and spot tests when urine was submitted.
2. Evaluation for this agent only carried out by special request.

# TOXICOLOGY LABORATORY REPORT

## INCIDENCE OF ANALYTES IN POSITIVE CASES\*

**TABLE 91B**

CUYAHOGA COUNTY CORONER'S LABORATORY CASES											
1985		1986				1987					
ALL CASES (%)	FATAL POISONINGS (%)	ALL CASES (%)	FATAL POISONINGS (%)	ALL CASES (%)	FATAL POISONINGS (%)	ALL CASES (%)	FATAL POISONINGS (%)	ALL CASES (%)	FATAL POISONINGS (%)		
Ethanol	15.42	Carbon Monoxide	44.00	Ethanol	14.10	Benzodiazepines	41.36	Ethanol	15.46	Carbon Monoxide	41.91
Lidocaine	6.54	Benzodiazepines	36.80	Lidocaine	5.99	Carbon Monoxide	35.34	Lidocaine	8.12	Ethanol	29.41
Acetaminophen	5.86	Ethanol	31.20	Acetaminophen	5.29	Ethanol	31.58	Acetaminophen	3.80	Benzodiazepines	27.21
Benzodiazepines	4.74	Tricyclic Antidepressants	26.40	Benzodiazepines	5.25	Tricyclic Antidepressants	27.07	Benzodiazepines	3.36	Tricyclic Antidepressants	26.40
Salicylate	2.70	Opiates	16.80	Salicylate	3.07	Propoxyphene/ Norpropoxyphene	22.20	Cocaine/ Cocaine Metabolite	3.32	Propoxyphene/ Norpropoxyphene	22.79
Opiates	2.52	Acetaminophen	15.20	Opiates	2.89	Opiates	19.58	Opiates	3.21	Opiates	21.32
Carbon Monoxide	2.19	Propoxyphene/ Norpropoxyphene	12.00	Cocaine/ Cocaine Metabolite	2.37	Acetaminophen	18.05	Carbon Monoxide	2.47	Cocaine/ Cocaine Metabolite	15.44
				Tricyclic Antidepressants	2.37			Tricyclic Antidepressants	2.47		
Sympathomimetics	2.16	Barbiturates	10.40	Carbon Monoxide	2.29	Cocaine/ Cocaine Metabolite	15.79	Propoxyphene/ Norpropoxyphene	2.21	Acetaminophen	14.71
Tricyclic Antidepressants	2.08	Sympathomimetics	9.60	Propoxyphene/ Norpropoxyphene	1.81	Sympathomimetics	9.42	Salicylate	1.77	Lidocaine	8.82
		Lidocaine	9.60	Sympathomimetics	1.81						
Meperidine/ Normeperidine	1.98	Cocaine/ Cocaine Metabolite	7.20	Meperidine/ Normeperidine	1.44	Salicylate	7.52	Barbiturates	1.33	Barbiturates	5.15

\* A "Positive Case" is one wherein an exogenous chemical substance was detected from Table 91A. They are based upon total cases submitted in each category.



# TOXICOLOGY LABORATORY REPORT

## INCIDENCE OF ANALYTES IN POSITIVE CASES

CUYAHOGA COUNTY CORONER'S LABORATORY CASES

1988

**TABLE 91B cont.**

ALL CASES (%)		FATAL POISONINGS (%)	
Ethanol	16.11	Ethanol	45.99
Lidocaine	9.17	Carbon Monoxide	38.69
Cocaine/ Cocaine Metabolite	5.30	Cocaine/ Cocaine Metabolite	37.23
Benzodiazepines	4.09	Benzodiazepines	35.04
Opiates	3.76	Opiates	29.93
Tricyclic/ Antidepressants	2.78	Tricyclic/ Antidepressants	21.90
Propoxyphene/ Norpropoxyphene	2.37	Propoxyphene/ Norpropoxyphene	18.25
Carbon Monoxide	2.30	Lidocaine	12.41
Acetaminophen	1.94	Phenothiazines	6.57
Phenytoin	1.50	Acetaminophen	5.84

\* A "Positive Case" is one wherein an exogenous chemical substance was detected from Table 91A. They are based upon total cases submitted in each category.

# TOXICOLOGY LABORATORY REPORT

## NUMBER OF TESTS PERFORMED

**TABLE 92**

DRUG GROUP	CUYAHOGA COUNTY CORONER'S LABORATORY CASES TESTS <sup>12</sup>	OUTSIDE REFERRING AGENCIES TESTS <sup>12</sup>	TOTALS
Antiepileptic drugs <sup>1</sup>	6,320	595	6,915
Barbiturates <sup>2</sup>	9,492	1,249	10,741
Benzodiazepines <sup>3</sup>	22,111	2,560	24,671
Carbon Monoxide	280	15	295
Spot tests <sup>4</sup>	2,643	253	2,896
Cocaine metabolite <sup>5</sup>	1,732	263	1,995
Neutral drugs <sup>6</sup>	20,540	1,912	22,452
Opiates <sup>7</sup>	17,692	2,002	19,694
Organic bases <sup>8</sup>	95,007	10,954	105,961
Phencyclidine	2,251	302	2,553
Salicylate	3,160	267	3,427
Sympathomimetics <sup>9</sup>	18,850	2,376	21,226
Volatiles <sup>10</sup>	34,591	3,919	38,510
Xanthenes <sup>11</sup>	5,154	478	5,632
<b>TOTAL</b>	<b>239,823</b>	<b>27,145</b>	<b>266,968</b>



# TOXICOLOGY LABORATORY REPORT

## AGENTS INCLUDED IN DRUG GROUPS ON TABLE 92

- |  |   |
|--|---|
| 1) Antiepileptic Drugs   | Primadone, Phenytoin, Carbamazepine and Phenobarbital.  |
| 2) Barbiturates  | Amobarbital, Butobarbital, Butalbital, Pentobarbital and Secobarbital.  |
| 3) Benzodiazepines   | Chlordiazepoxide, Diazepam, Flurazepam, n-Desalkylflurazepam, n-Desmethylchlordiazepoxide, n-Desmethyldiazepam, Demoxepam and Oxazepam.   |
| 4) Spot Tests  | Ethchlorvynol, Acetaminophen, Salicylate, Glucose and Ketone Bodies, Imipramine and Phenothiazines.   |
| 5) Cocaine Metabolite  | Benzoyllecgonine.   |
| 6) Neutral Drugs   | Glutethimide, Meprobamate, Methaqualone, Methyprylon, Chlorpropamide and Tolbutamide.   |
| 7) Opiates   | Codeine, Hydrocodone, Hydromorphone, Morphine and Oxycodone.  |
| 8) Organic Bases   | Amitriptyline, Amoxapine, Brompheniramine, Chlorpheniramine, Chlorpromazine, Cocaine, Cogentin, Cyclizine, Desipramine, Dextromethorphan, Diphenhydramine, Doxepin, Doxylamine, Disopyramide, Imipramine, Ketamine, Lidocaine, Loxapine, Meperidine, Methapyrilene, Methadone, Methadone Metabolite, Nordoxepin, Nortriptyline, Norpropoxyphene, Normeperidine, Orphenadrine, Pentazocine, Phencyclidine, Phenyltoloxamine, Pheniramine, Promethazine, Propoxyphene, Protriptyline, Pylamine, Propranolol, Quinine, Quinidine, Trimpramine and Tripeleminamine. |
| 9) Sympathomimetics  | Amphetamine, Methamphetamine, Ephedrine, Phenmetrazine, Phendimetrazine, Phentermine, Mephentermine and Phenylpropanolamine.  |
| 10) Volatiles  | Acetone, Ethyl Alcohol, Isopropanol and Methanol.   |
| 11) Xanthenes  | Acetaminophen, Caffeine and Theophylline.   |
| 12) Number of tests performed for total analytes from a given group. |   |

# TOXICOLOGY LABORATORY REPORT

## PROFICIENCY STUDIES

**TABLE 92A**

AGENCY	SURVEY TYPE	NUMBER OF SURVEYS	NUMBER OF SAMPLES			NUMBER OF SUBSTANCES FOUND
			BLOOD	URINE	OTHER	
College of American Pathologists (CAP)	Alcohol Toxicology	8	24		8	30
College of American Pathologists (CAP)	Urine Toxicology	4		12		41
Programa DeControl DeCalidad (Spain)	Urine Toxicology Drugs of Abuse	4		24		57
Department of Transportation (Federal)	Alcohol	2	8			8
Greater Cleveland Hospital Association	Urine Toxicology	1		1		3
Ohio Department of Health	Alcohol	1	5		1	5
Pennsylvania Department of Health	Drugs of Abuse	4		16		36
Wisconsin State Laboratory of Hygiene	Alcohol	11	23	5		28
<b>TOTAL</b>		<b>35</b>	<b>60</b>	<b>58</b>	<b>9</b>	<b>208</b>

In 1988 the Cuyahoga County Coroner's Office Toxicology Laboratory participated in 35 proficiency surveys. The performance of the laboratory was rated satisfactory by the agencies conducting the surveys.



# TOXICOLOGY LABORATORY REPORT

## SUBSTANCES INVOLVED IN FATAL POISONINGS

**TABLE 93**

SUBSTANCES	ACCIDENT	SUICIDE	V.U.O.*	TOTAL
<b><u>Single Chemical Agent:</u></b>				
Caffeine	1			1
Cocaine	7		1	8
Codeine	2			2
Doxepin		1		1
Insulin		1		1
Intravenous Nartotism	3			3
Methanol		1		1
Opiate	4			4
Pencyclidine	1			1
Propoxyphene	1			1
Salicylate	1			1
Thioridazine	1			1
<b>TOTAL</b>	<b>21</b>	<b>3</b>	<b>1</b>	<b>25</b>
<b><u>Combined Effect of Ethanol and:</u></b>				
Cocaine	7			7
Diphenhydramine	1			1
Opiate	5			5
Propoxyphene	1			1
Thioridazine	1			1
Thichloroethanol	1			1
Benzodiazepine and Propoxyphene		1		1
Cocaine and Opiate	1			1
Diazepam and Opiate	1			1
Doxepin and Diazepam	1			1
Ibuprofen and Doxepin		1		1
Opiates and Imiptamine	1			1
Propoxyphene and Cocaine	1			1
Thioridazine and Diphenhydramine	1			1
Acetaminophen, Amitriptyline and Propoxyphene		1		1
Cocaine, Morphine, Amitriptyline and Nortriptyline	1			1
<b>TOTAL</b>	<b>23</b>	<b>3</b>		<b>26</b>
<b><u>Combined Effect of Two Chemical Agents:</u></b>				
Amitriptyline and Nortriptyline	1			1
Cocaine and Propoxyphene	1			1
Cocaine and Morphine	1			1

\* Violence of Undetermined Origin

# TOXICOLOGY LABORATORY REPORT

## SUBSTANCES INVOLVED IN FATAL POISONINGS

**TABLE 93 cont.**

SUBSTANCES	ACCIDENTS	SUICIDE	V.U.O.*	TOTAL
<u>Combined Effect of Two Chemical Agents: (continued)</u>				
Cocaine and Diazepam	1			1
Codeine and Morphine	1			1
Codeine and Diazepam	1			1
Desmethyldiazepam and Amitriptyline	1			1
Doxepin and Amitriptyline		1		1
Hydrocarbons and Organophosphates (Wood Finisher)		1		1
Nordoxepin and Doxepin	1			1
Opiate and Diazepam	1			1
Opiates and Chlorpheniramine	1			1
Opiates and Diazepam	1			1
Propoxyphene and Acetaminophen	1	1		2
<b>TOTAL</b>	<b>12</b>	<b>3</b>		<b>15</b>
<u>Combined Effect of Three Chemical Agents:</u>				
Amitriptyline, Carboamazepine and Diphenhydramine	1			1
Amoxepin, Doxepin and Propoxyphene		1		1
Cocaine, Diazepam and Phentermine	1			1
Doxepin, Nordoxepin and Morphine	1			1
Morphine, Codeine and Diazepam	1			1
Opiates, Cocaine and Diazepam	1			1
<b>TOTAL</b>	<b>5</b>	<b>1</b>		<b>6</b>
<u>Combined Effect of Four Chemical Agents:</u>				
Acetaminophen, Diazepam, Nordiazepam and Propoxyphene	1			1
Acetaminophen, Propoxyphene, Amitriptyline and Diazepam		1		1
Codeine, Diazepam, Chlordiazepoxide and Salicylate	1			1
Ethchlorvynol, Diazepam, Propoxyphene and Oxycodone	1			1
Opiate, Diazepam, Oxazepam and Cocaine	1			1
Propoxyphene, Codeine, Temazepam and Diazepam	1			1
<b>TOTAL</b>	<b>5</b>	<b>1</b>		<b>6</b>
<u>Combined Effect of Seven Chemical Agents:</u>				
Codeine, Quinine, Meperidine, Propoxyphene, Acetaminophen, Diphenhydramine and Pentazocine		1		1
<b>TOTAL</b>		<b>1</b>		<b>1</b>
<b>GRAND TOTAL</b>	<b>66</b>	<b>12</b>	<b>1</b>	<b>79</b>

\* Violence of Undetermined Origin.



# TOXICOLOGY LABORATORY REPORT

## CARBON MONOXIDE FATALITIES

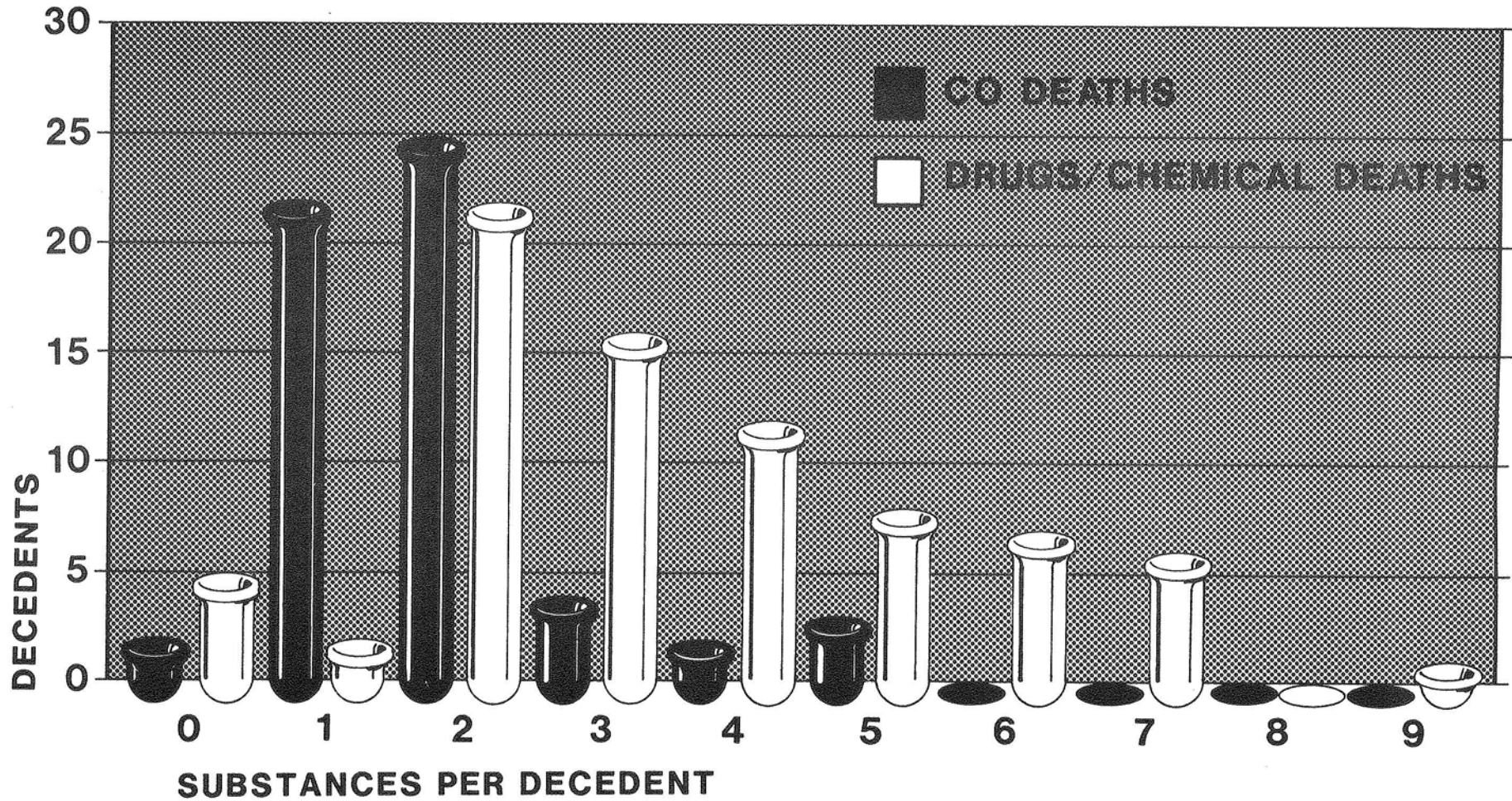
**TABLE 93A**

SUBSTANCES	ACCIDENTAL			SUICIDE	HOMICIDE	TOTAL
	SMOKE	AUTO EXHAUST	NATURAL GAS	AUTO EXHAUST	SMOKE	
Carbon Monoxide	13	4		5	1	23
Carbon Monoxide and Ethanol	5	2	1	7		15
Carbon Monoxide, Ethanol and Other Medications						
n-Desmethyldiazepam				2		2
Meprobamate	1					1
Quinine				1		1
Diazepam and n-Desmethyldiazepam	1					1
n-Desmethyldiazepam, Chlordiazepoxide, Demoxepam				1		1
Carbon Monoxide and Other Medications						
Chlorpheniramine				1		1
Codeine				1		1
Diazepam				1		1
Desipramine				1		1
Lidocaine	3			1	1	5
Quinine	1					1
Amphetamines and Phenylpropanolamine	1					1
Chlorpromazine and Phenothiazine				1		1
Diazepam, n-Desmethyldiazepam, Chlorpheniramine and Diphenhydramine				1		1
Acetaminophen, Xanthenes, Desipramine, Dextromethorphan, Amphetamines, Ephedrine and Doxylamine				1		1
<b>TOTAL</b>	<b>25</b>	<b>6</b>	<b>1</b>	<b>24</b>	<b>2</b>	<b>58</b>



# TOXICOLOGY LABORATORY REPORT

## INCIDENCE OF POLYPHARMACY (FINDINGS FROM 137 POISONING FATALITIES)





# TOXICOLOGY LABORATORY REPORT

## POISONING FATALITIES 1977 - 1988

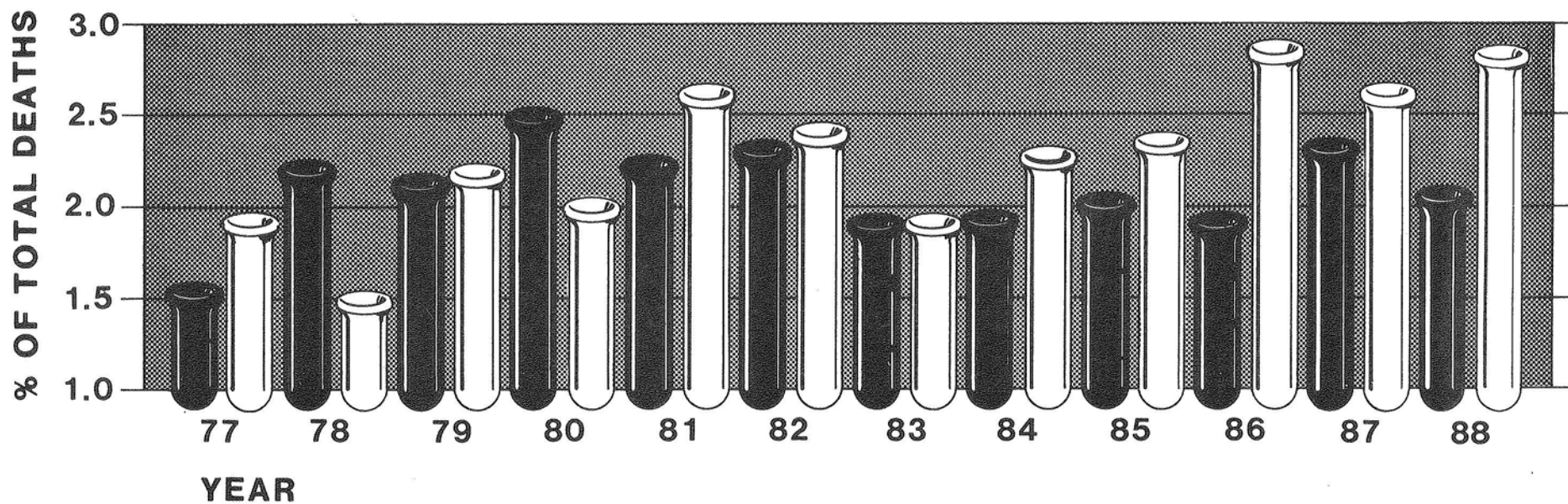
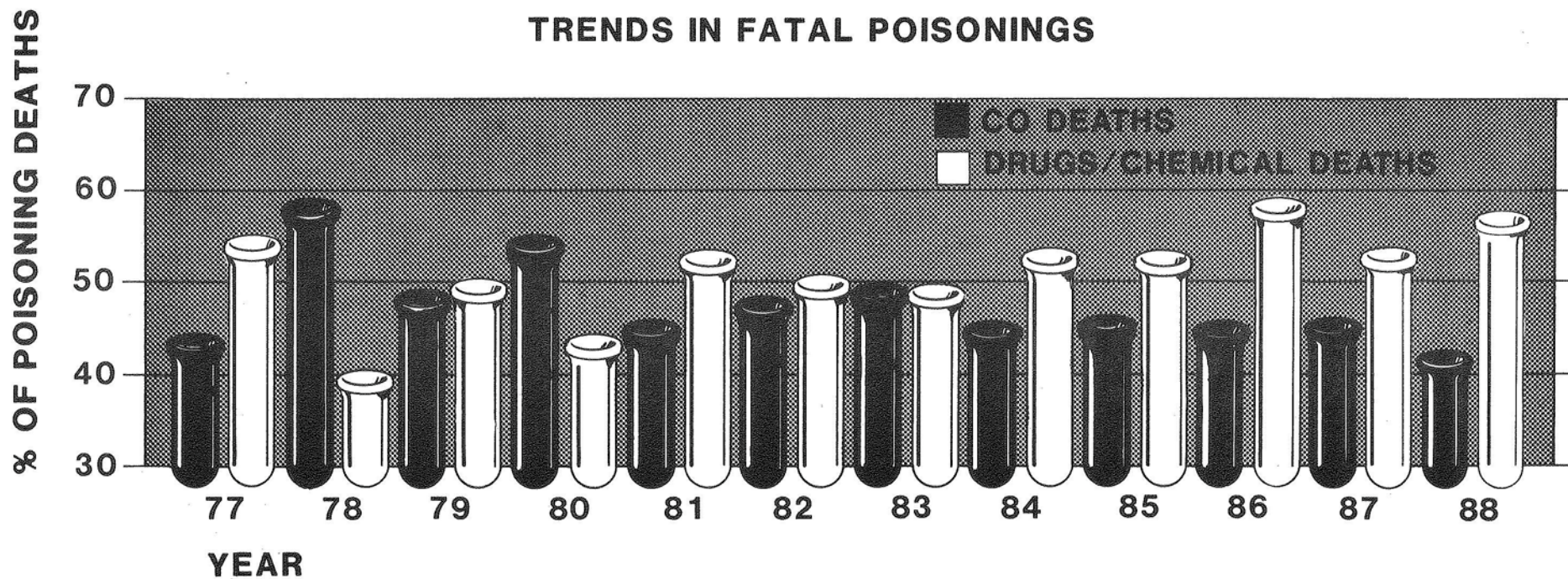
**TABLE 93B**

YEAR	ACCIDENTS						HOMICIDE		SUICIDE		MANNER UNDETERMINED		TOTAL	
	HOME		WORK		OTHER PLACES									
	CO	OTHERS	CO	OTHERS	CO	OTHERS	CO	OTHERS	CO	OTHERS	CO	OTHERS	CO	OTHERS
1977	35	24			1	14		1	31	39		5	67	83
1978	39	17			5	4			39	30		6	83	57
1979	38	31	1	1	3	5	1		38	44	2	4	83	85
1980	35	24			2	12	10		42	35	1	2	90	73
1981	30	38			1	5	3		33	41	5		72	84
1982	33	28	1		1	6	4	1	28	35			67	70
1983	24	26			4	3	3		26	28	1	1	58	58
1984	24	37	1		4	4			26	25	3	2	58	68
1985	21	27	2			7	3		32	29		4	58	67
1986	24	34				11	3		26	27	1	7	54	79
1987	24	34			1	12	9		24	22	4	6	62	74
1988	28	42	2		2	24	2		24	12		1	58	79
TOTAL	355	362	7	1	24	107	38	2	369	367	17	38	810	877
TOTALS	717		8		131		40		736		55		1687	



# TOXICOLOGY LABORATORY REPORT

## TRENDS IN FATAL POISONINGS





# TOXICOLOGY LABORATORY REPORT

## RELATIVE LETHALITY INDEX (RLI) 1983 -1988

**TABLE 93C**

DRUG/GROUP	1983	1984	1985	1986	1987	1988
Acetaminophen	11	11	12	17	19	15
Barbiturates (Total)	25	30	30	27	19	0
Phenobarbital	10	19	0	11	10	0
Benzodiazepines (Total)	26	27	35	39	41	43
Diazepam	25	28	29	33	41	40
n-desmethyldiazepam	24	23	28	38	42	45
n-desalkylflurazepam	26	17	*	*	*	*
Carbon Monoxide	100	90	90	76	85	84
Chlorpheniramine	0	36	15	25	*	9
Chlorpropamide	0	8	0	*	*	0
Cocaine	0	28	17	48	24	36
Cocaine Metabolite	40	31	22	26	22	34
Dextromethorphan	*	*	*	17	*	9
Diphenhydramine	16	21	31	37	5	21
Doxylamine	20	20	*	17	*	*
Ethanol	9	10	9	11	10	14
Lidocaine	7	2	6	5	5	7
Meperidine	15	26	14	4	0	10
Methadone	*	33	*	*	*	*
Methadone Metabolite	*	27	*	*	*	*
Normeperidine	18	35	15	0	*	*
Norpropoxyphene	41	29	27	65	52	37
Opiates (Total)	22	23	30	35	33	40
Codeine	15	21	18	29	27	45
Morphine	13	27	39	34	38	37

# TOXICOLOGY LABORATORY REPORT

## RELATIVE LETHALITY INDEX (RLI) 1983 -1988

**TABLE 93C cont.**

DRUG/GROUP	1983	1984	1985	1986	1987	1988
Phenothiazines (Total)	23	23	13	35	19	38
Phenytoin	8	4	8	7	18	2
Propoxyphene	50	32	50	56	52	40
Quindine	*	5	0	12	*	*
Quinine	*	18	8	*	10	36
Tricyclic Antidepressant (Total)	45	42	57	56	52	39
Amitriptyline	42	39	*	73	40	33
Desipramine	70	*	*	*	8	*
Doxepine	*	*	*	60	*	54
Imipramine	40	*	*	*	*	*
Nordoxepine	*	*	*	50	*	60
Nortriptyline	45	44	58	64	48	25
Salicylate	8	13	11	12	15	*
Sympathomimetics (Total)	10	8	20	25	6	27
Ephedrine	10	*	25	20	8	23
Phenylpropanolamine	12	10	18	28	0	40
Theophylline	9	*	6	0	*	*
Tripelennamine	31	*	*	*	*	*

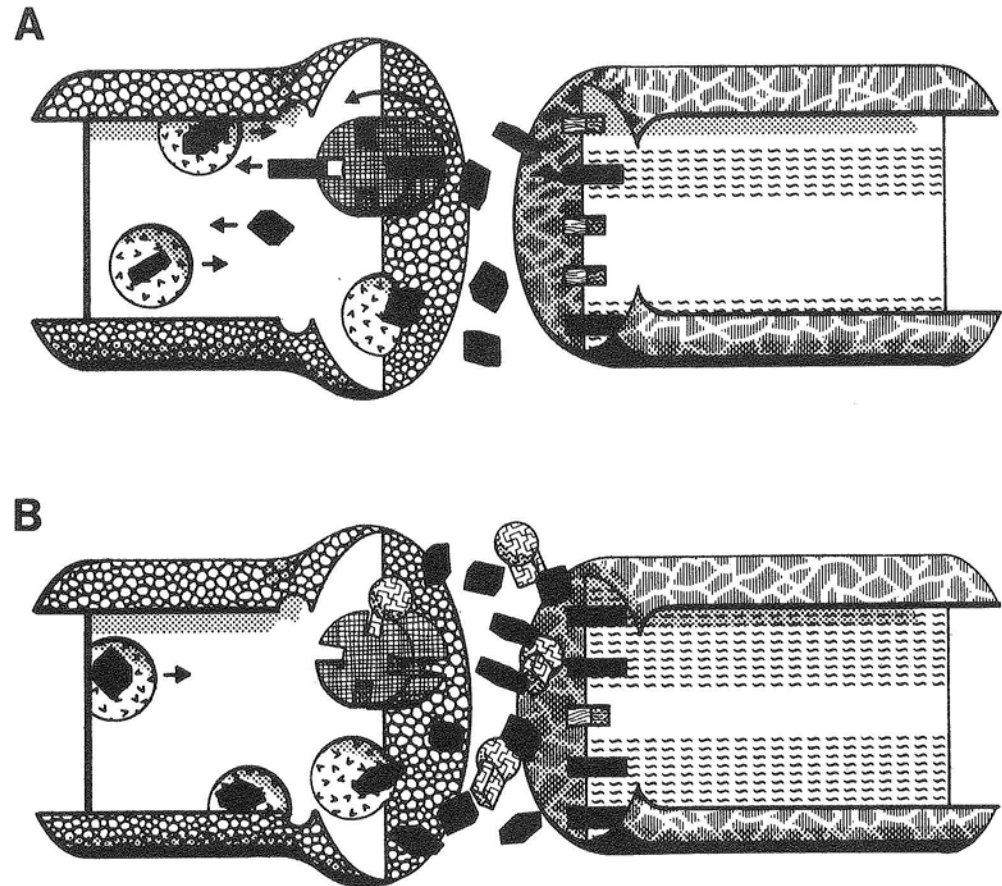
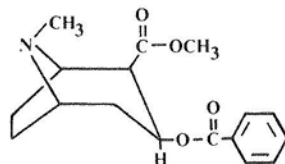
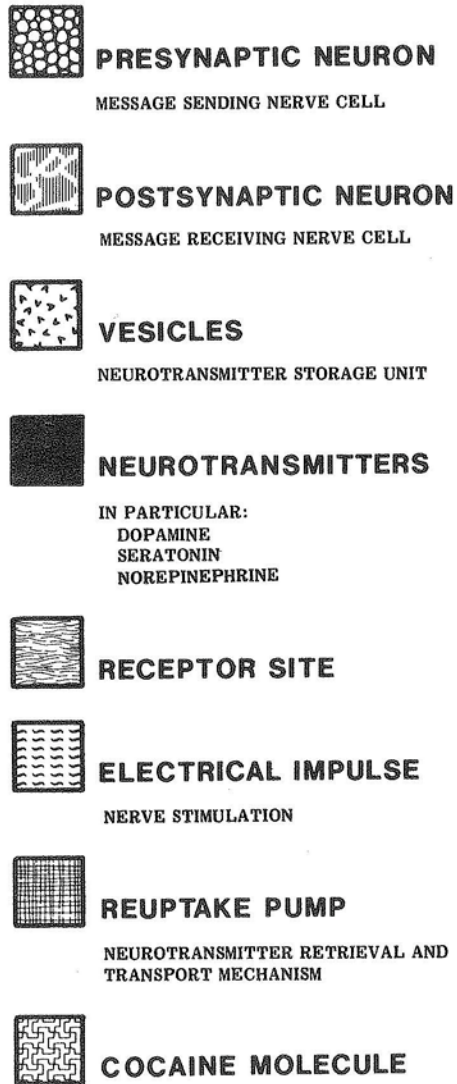
RLI - Number of times analyte/group found in poisoning death divided by total number of times analyte/group found times one hundred, taken to the nearest whole number.

NOTE: These calculations and comparisons are based upon ten or more findings per total population.

\* Less than ten findings per total population.



# EFFECT OF COCAINE ON THE REUPTAKE OF NEUROTRANSMITTERS

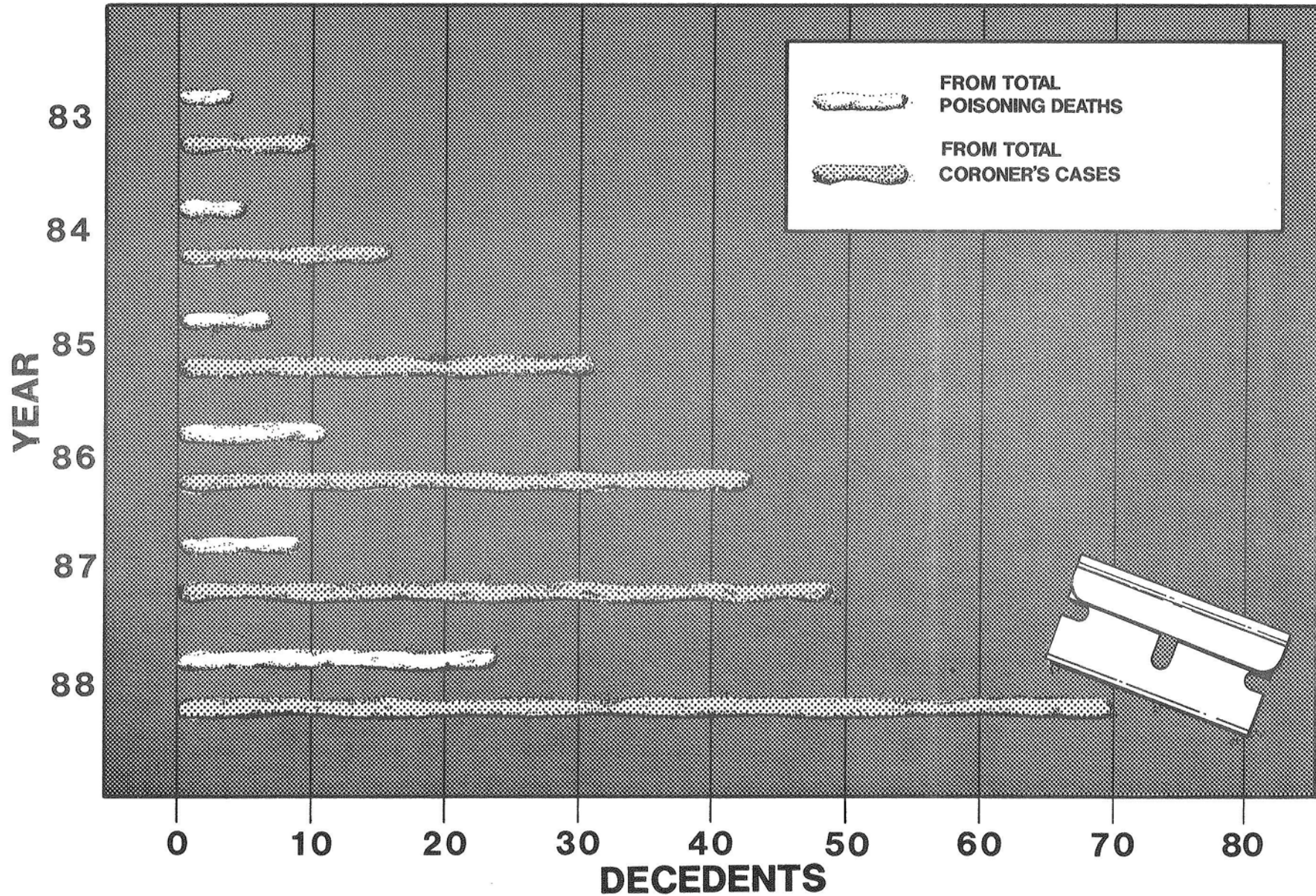


Among the many effects of cocaine are those that involve the blockage of the reuptake of neurotransmitters in various nerve tracks within the brain. Under normal circumstances (A), a message is sent along a nerve track by the action of the release of neurotransmitters from vesicles within the presynaptic 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 postsynaptic 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 reuptake 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 reuptake 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 abuse of cocaine. Within the sympathetic nervous system this leads to increases in heart rate and blood pressure.



# TOXICOLOGY LABORATORY REPORT

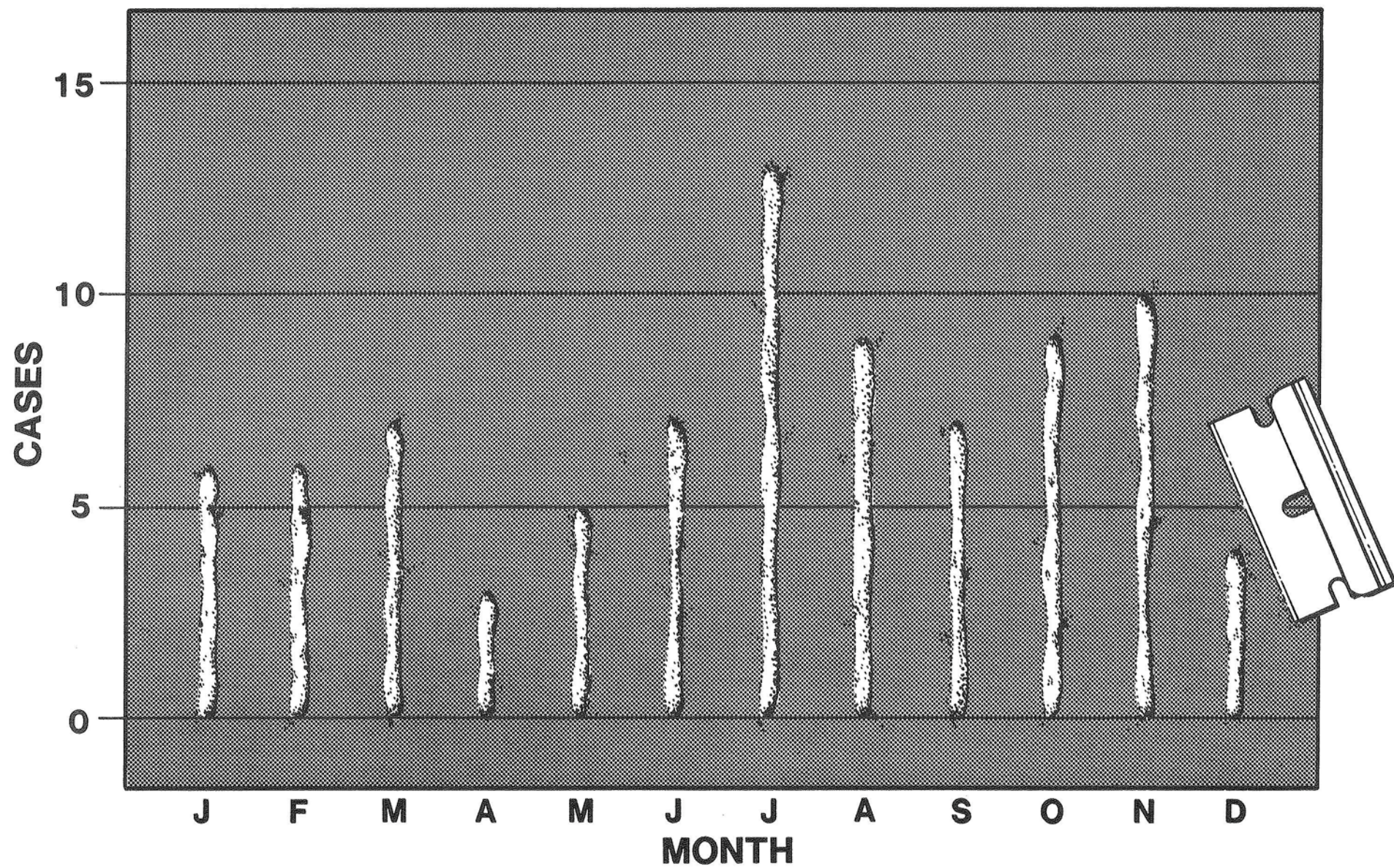
## TREND IN COCAINE METABOLITE INCIDENCE 1983 - 1988





# TOXICOLOGY LABORATORY REPORT

## TREND IN COCAINE CASE INCIDENCE - 1988





# TRACE EVIDENCE

**TABLE 94**

	<b>CORONER'S CASES*</b>	<b>SPECIMENS FROM OTHER SOURCES** RE: CORONER'S CASES</b>	<b>SPECIMENS FROM OTHER CORONER'S CASES AUTOPSIED AT CUYAHOGA COUNTY CORONER'S OFFICE</b>	<b>SPECIMENS FROM OTHER SOURCES** NOT RE: CORONER'S CASES</b>	<b>TOTAL</b>
<b>INDIVIDUAL CASES</b>	706	(89)	(46)	17	723
<b>SPECIMENS SUBMITTED</b>	2177	553	(104)	171	2901
<b>EXAMINATIONS</b>	3308	3435	(193)	730	7473

\* The 706 Coroner's Cases requiring Trace Evidence Examinations represents 25.79% of the total Cuyahoga County Coroner's Cases for 1988.

\*\* Other Sources: Specimens from investigations submitted by Police and Sheriff's Departments or collected by Trace Evidence Personnel.

Figures in parenthesis ( ) are included in previous column.

Time away from office for court appearances: 208 hours and 54 minutes.

Actual time spent testifying at court: 23 hours and 21 minutes.



## TRACE EVIDENCE LABORATORY

TABLE 94A

EXAMINATIONS	CUYAHOGA COUNTY CORONER'S CASES	OTHER CORONER'S CASES	SPECIMENS FROM OTHER SOURCES** RE: CORONER'S CASES	SPECIMENS FROM OTHER SOURCES** NOT RE: CORONER'S CASES	TOTAL
<b>ACID PHOSPHATASE</b>					
Specimens from bodies	124	(21)	2	21	147
<b>Electrophoretic determinations</b>					
Cellulose Acetate					
Specimens from bodies	117	(21)		28	145
Stains	12	(2)	12	91	115
<b>MICROSCOPIC EXAMINATION FOR SPERMATOZA</b>					
Specimens from bodies	106	(21)		27	133
Stains	12	(2)		74	86
<b>BLOOD DETECTION</b>					
Presumptive Tests	25	(7)	1368	13	1406
<b>PRECIPITIN TESTS</b>					
Species Identification	5	(2)	285	13	303
<b>BLOOD GROUP DETERMINATION</b>					
Fluid Blood (ABO)	767	(45)	28	14	809
Secretor/Non secretor	204	(11)	29	12	245
<b>ENZYME: Electrophoretic determinations</b>					
Erythrocyte Acid Phosphatase	62	(4)	15	9	86
Esterase D	62	(4)	15	9	86
Phosphoglucomutase	62	(4)	15	21	98
Phosphoglucomutase sub-typing	5			18	23
Others	4			3	7
<b>Other specimens from bodies</b>					
Absorption Inhibition	107	(1)	20	50	177
Absorption Elution	55			11	66
Stains (ABO)	20		214	16	250
<b>ENZYME Electrophoretic determinations</b>					
Erythrocyte Acid Phosphatase	7		148	10	165
Esterase D	7		148	10	165
Phosphoglucomutase	17		148	18	183
Phosphoglucomutase sub-typing	5		2	9	16
Others	21		2	18	41

## TRACE EVIDENCE LABORATORY

TABLE 94A cont.

EXAMINATIONS	CUYAHOGA COUNTY CORONER'S CASES	OTHER CORONER'S CASES	SPECIMENS FROM OTHER SOURCES** RE: CORONER'S CASES	SPECIMENS FROM OTHER SOURCES** NOT RE: CORONER'S CASES	TOTAL
<b>CLOTHING DESCRIPTIONS</b>					
Descriptions	91				91
Inspections	128	(2)			128
Stereomicroscopic Examinations	76				76
<b>GUNFIRE RESIDUE DETECTION TESTS</b>					
Clothing and Related Items	107		1	1	109
Targets			23		23
<b>HAND EXAMINATIONS</b>					
Trace Metal Detection	223	(9)			223
Gunshot Residue (Harrison-Gilroy Test)	223	(9)			223
<b>MICROSCOPIC EXAMINATIONS</b>					
Fingernail Scrapings	10	(1)	2	12	24
Gastric Contents	25	(3)			25
Hair	132	(7)	168	27	327
Fibers	4		33	15	52
Paint	3				3
Glass	5	(2)	6		11
Miscellaneous	73	(3)			73
<b>STEREOMICROSCOPIC EXAMINATIONS</b>					
Powder Grains	90	(3)	1		91
Miscellaneous	201	(8)	553	92	846
<b>PHYSICAL MATCH</b>	6		9	4	19
<b>HISTOLOGIC STUDIES</b>	4		6	1	11
<b>IDENTIFICATION PROCEDURES</b>	5	(1)			5
<b>LIGATURES</b>	34				34
<b>ITEMS INSPECTED-no relevant findings</b>	62		182	83	327
<b>TOTAL</b>	<b>3308</b>	<b>(3308)</b>	<b>3435</b>	<b>730</b>	<b>7473</b>



## TRACE EVIDENCE - 1938

MATERIAL EXAMINED	KIND OF POISON	1938 (Continued)		
		POSITIVE	NEGATIVE	TOTAL
CONTENTS OF BUCKET	CONSTITUENTS			1
SAND AND FLESH FROM TORSO	CRANKEASE DRAININGS	1		
	BLOOD	1		
	HAIR	1		
	COMPLETE SPECTROGRAPHIC			8
	ANALYSIS:			
	SILICON	8		
	ALUMINUM	8		
	IRON	8		
	MANGANESE	8		
	CHROMIUM	8		
	CALCIUM	8		
	MAGNESIUM	8		
	TRACE OF COPPER	8		
	TRACE OF SODIUM	8		
TRACE OF POTASSIUM	8			
TRACE OF LEAD	8			
TRACE OF ZINC	8			
	TOTAL	104	20	17
			1339	

# HISTOLOGY

**TABLE 95**

	CUYAHOGA COUNTY CORONER'S OFFICE	OTHER SOURCES	TOTAL
<b>TISSUE SPECIMENS RECEIVED FROM:</b>			
<b>AUTOPSIES</b>	1,404	78	1,482
<b>BIOPSIES, ETC.</b>	4		4
<b>TOTAL</b>	1,408	78	1,486
<b>SECTIONS PREPARED</b>			
<b>BLOCKS PREPARED</b>	30,437	1,707	32,144
<b>TOTAL</b>	17,037	934	17,971
<b>TOTAL</b>	47,474	2,641	50,115
<b><u>SLIDES PREPARED AND STAINED:</u></b>			
<b>ROUTINE HEMATOXLIN - EOSIN</b>	17,490	1,004	18,494
<b>TEACHING SLIDES</b>	47	2	49
<b><u>SPECIAL STAINS FOR DEMONSTRATION OF:</u></b>			
<b>ACID FAST BACTERIA</b>	16		16
<b>AMYLOID</b>	14	4	18
<b>SENILE PLAQUES</b>	3		3
<b>IRON</b>	13	6	19
<b>MYELIN</b>	6	2	8
<b>FUNGUS</b>	29		29
<b>P.A.S.</b>	13		13
<b>FAT</b>	6		6
<b>GRAM STAIN</b>	14		14
<b>TRICHROME</b>	8		8
<b>TOTAL</b>	17,659	1,018	18,677



## HISTOLOGY - 1937, 1938, and 1939

Table No 10

CHEMICAL WORK YEARS 1937 1938 1939									
HISTOLOGICAL SECTIONS	1937			1938			1939		
	Positive	Negative	Total	Positive	Negative	Total	Positive	Negative	Total
		6000			5000			4750	
BACTERIOLOGY AND SEROLOGICAL TESTS									
AT COUNTY MORGUE									
Nature of Test	1937	1938	1939	Total	1937	1938	1939	Total	1937
Smears	69	2	71	63	12	75	68	14	82
Cultures	19	0	19	15	1	16	20	7	27
Blood Cultures	10	3	13	12	6	18	17	4	21
Klines	9	9	18	9	27	36	6	16	22
	107	14	121	99	46	145	111	41	152
MISCELLANEOUS TESTS									
Sperm	3	11	14	2	1	3			
Hematology:									
Smears									15

From 1937 - 1939 Coroner's Statistical Report



# PHOTOGRAPHY

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 continually 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 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, ultra-violet, high-contrast, tone-line, transparent overlays, and photomicrography can make the small large, the invisible visible, or otherwise bring out what is there.

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 and for teaching or publication purposes as succinct, effective ways of 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 will augment 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. Future graphic assignments will be 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.

IDENTIFICATION PICTURES	2,815*
PICTURES OF BODIES AND EVIDENCE	14,540
5" x 7" COLOR PRINTS PRODUCED	18,014
COLOR SLIDES ADDED TO THE FILE	1,762
BLACK AND WHITE PRINTS	208
POLAROID PRINTS	174
TYPE SLIDES	94
CHARTS AND GRAPHS	66
ILLUSTRATIONS	14
SCALE MODELS	0

\* Includes 78 Out of the County Cases

## PHOTOGRAPHY - 1953

PHOTOGRAPHY FILE DATA 1953	
CASES PHOTOGRAPHED IN COLOR	142
COLOR SLIDES ADDED TO LIBRARY	358

From 1953 Coroner's Statistical Report



# FORENSIC ODONTOLOGY

EXAMINATIONS	CUYAHOGA COUNTY CORONER'S CASES	OTHER CORONER'S CASES	TOTAL
Number of cases examined	22	6	28
Dental charting	22	4	26
Intra-oral x-rays	19	3	22
Comparison with antemortem dental records	9	2	11
Extractions for histology and age estimations	8	1	9
Bite mark analysis			0
Full denture analysis of edentulous	1	1	2
Single tooth analysis			0



# RADIOLOGY

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 disease 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 a 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 hundred and seventy radiographs were made in 1988.

RADIOLOGY - 1937, 1938, and 1939

	78	850	955	24	137	178	6	25	48
X-RAY Plates			20			25			20
	CHEMICAL TESTS FOR POISONS								

From 1937 - 1939 Coroner's Statistical Report



# ANTHROPOLOGY

<b>NUMBER OF CASES</b>	<b>7</b>
<b>REMAINS NOT HUMAN</b>	<b>2</b>
<b>HUMAN REMAINS</b>	
<b>POSITIVE IDENTIFICATION</b>	<b>3</b>
<b>DEMOGRAPHIC PROFILES</b>	<b>5</b>
<b>CASES FOR OTHER COUNTIES</b>	<b>4</b>
<b>COURT APPEARANCES</b>	<b>1</b>

#### **ADDITIONAL LECTURES:**

**Human Origins: View from the Laboratory.** Kent State University Honors College Guest of Honor Series, February 22, 1988.

**A New method for estimation of skeletal dimorphism in fossil samples with an application to Australopithecus afarensis.** Annual Meetings of the American Anthropological Association, Pheonix, Arizona (with S.W. Simpson, K.F. Kern and R.S. Meindl), November 18, 1988.

**Keynote Address, Graduate Convocation, Kent State University, August 20, 1988.**

#### **ADDITIONAL PUBLICATIONS:**

**Lovejoy, C.Owen, "Evolution of Human Walking." SCIENTIFIC AMERICAN, Vol.259, No.5, pp.118-125, November, 1988.**



# LECTURES

## GIVEN BY THE STAFF

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

#### **FEBRUARY:**

Cleveland Health Museum, "Roles and Functions of Coroner of Cuyahoga County."

Channel 25 - On camera interview, "Roles and Functions of Coroner of Cuyahoga County."

Case Western Reserve University, Center for Criminal Justice, Basic Police School, "Functions of the Coroner's Office, Cuyahoga County, Ohio."

Carrying Concealed Weapons, Class, Sponsored by Judge Burt Griffin.

#### **MARCH:**

Case Western Reserve University, Law Medicine Center, Forensic Pathology, "Forensic Medicine and Scientific Evidence."

#### **APRIL:**

Carrying Concealed Weapons, Class, Sponsored by Judge Burt Griffin.

#### **MAY:**

Cleveland Heights Police Academy, Basic School, "Functions of Cuyahoga County Coroner's Office."

Cleveland Crime Clinic, "Cuyahoga County Coroner's Office."

#### **JUNE:**

Carrying Concealed Weapons, Class, Sponsored by Judge Burt Griffin.

Case Western Reserve University, Law Medicine Center Advanced Homicide School, "Determining Time of Death and Identification of Human Remains."

#### **JULY:**

Cleveland Mensa Group, "Dead Men Do Tell Tales."

University Hospitals of Cleveland, Institute of Pathology, Pathology Residents and Fellows, "Forensic Pathology."

Cleveland Metro Park Rangers, "Functions of the Cuyahoga County Coroner's Office."



## LECTURES GIVEN BY THE STAFF

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

- JULY:** Case Western Reserve University, Center for Criminal Justice, Cleveland Police Academy, Basic School.  
"Functions of the Cuyahoga County Coroner's Office."
- Cleveland Metro Park Rangers, "Functions of the Cuyahoga County Coroner's Office."
- AUGUST:** Optimist Club of West Suburban Cleveland, "Roles and Functions of Cuyahoga County Coroner."
- SEPTEMBER:** Metro Health Center, House Staff, "Roles and Functions of Cuyahoga County Coroner."  
Fairview General Hospital, Grand Rounds, "Cuyahoga County Coroner's Office."  
Cleveland Heights Police Academy, Basic School, "Functions of the Cuyahoga County Coroner's Office."  
Case Western Reserve University, School of Law, Law Medicine Center, "Medicine and Man" Lecture Series-  
Forensic Pathology
- OCTOBER:** Emergency Room Nurses Association, "Role and Functions of Cuyahoga County Coroner."
- NOVEMBER:** Biomedical Christian Fellowship of Cleveland, "Cuyahoga County Coroner - My God and My Career."
- DECEMBER:** Carrying Concealed Weapons, Class, Sponsored by Judge Burt Griffin.  
Cleveland Police Academy, Basic School, "Functions of Cuyahoga County Coroner's Office."

### ROBERT C. CHALLENGER, M.D., CHIEF DEPUTY CORONER

- FEBRUARY:** Cleveland Heights Police Academy, Basic School, "Autopsy."
- APRIL:** University Hospitals, Institute of Pathology, "Forensic Pathology." (four)
- MAY:** Cleveland Heights Police Academy, Basic School, "Autopsy."
- JUNE:** American Industrial Hygiene Association.

## LECTURES GIVEN BY THE STAFF

### ROBERT C. CHALLENGER, CHIEF DEPUTY CORONER

- JULY:** Metro Park Rangers (two)  
Cleveland Police Academy
- SEPTEMBER:** Cleveland Heights Police Academy, Basic School, "Autopsy."
- DECEMBER:** Cleveland Police Academy (two)  
Kiwanis Club West Park

### MARY E. COWAN, SENIOR FORENSIC SCIENTIST, BS DEGREE

- JANUARY:** Wooster Business College
- FEBRUARY:** Cleveland Heights Police Academy, Basic School  
Lakewood Methodist Youth Group
- MARCH:** Case Western Reserve University Law Students
- MAY:** Cleveland Heights Police Academy, Basic School  
Dental Assistants
- JUNE:** Wooster Business College  
Case Western Reserve University, Center for Criminal Justice, Homicide Seminar  
American Industrial Hygiene Association
- JULY:** Metro Park Rangers (two)  
Cleveland Police Academy, Basic School
- AUGUST:** Case Western Reserve University, Center for Criminal Justice, Basic School



## LECTURES GIVEN BY THE STAFF

### MARY E. COWAN, SENIOR FORENSIC SCIENTIST, BS DEGREE

- SEPTEMBER: Cleveland Heights Police Academy, Basic School
- NOVEMBER: Case Western Reserve University Law Students  
 Wooster Business College
- DECEMBER: Case Western Reserve University, Center for Criminal Justice, Basic School (two)  
 Cleveland Police Academy (two)

### BARBARA A. CAMPBELL, FORENSIC SCIENTIST, BA DEGREE

- JANUARY: Lakeland Community College, Lake County, Basic School
- MARCH: Lakeland Community College, Lake County, Basic School
- JUNE: Case Western Reserve University, Center for Criminal Justice, Homicide Seminar
- AUGUST: Case Western Reserve University, Center for Criminal Justice, Basic School
- NOVEMBER: Lakeland Community College, Lake County, Basic School

### LINDA LUKE, FORENSIC SEROLOGIST, BS DEGREE

- DISPLAY: Models on Crime Scenes, "Dead Men Do Tell Tales."
- MARCH: University Hospital School of Medical Technology, "Forensic Serology."  
 Baldwin Wallace, "Trace Evidence."  
 Hillcrest Hospital, "Collection of Samples in Sexual Assault Cases."
- MAY: University Hospital School of Medical Technology, "Forensic Serology."
- JUNE: Case Western Reserve University, Center for Criminal Justice, Homicide Seminar, "Forensic Serology, Collection of Evidence, Flight Characteristics and Models of Scenes."

## LECTURES GIVEN BY THE STAFF

### LINDA LUKE, FORENSIC SEROLOGIST, BS DEGREE

- AUGUST:** Case Western Reserve University, Center for Criminal Justice, Basic School, "Bloodstain Analysis and Collection and Preservation - Sexual Assault Cases."
- Metro General Hospital Medical Technology Students, "Serology and Trace Evidence."
- DECEMBER:** Case Western Reserve University, Center for Criminal Justice, Basic School,(two) "Collection, Serology, Flight Characteristics and Bloodstains."
- Olmsted Falls Grade School, 6th Grade, "Trace Evidence."

### SHARON B. ROSENBERG, FORENSIC SCIENTIST, BS DEGREE

- FEBRUARY:** Cuyahoga County Sheriff's Department, "Trace Evidence for Explorer Scouts."
- JUNE:** Case Western Reserve University, Center for Criminal Justice, Homicide Seminar, "Gang Wars."
- AUGUST:** Case Western Reserve University, Center for Criminal Justice, Basic School, "Trace Evidence."
- DECEMBER:** Case Western Reserve University, Center for Criminal Justice, Basic School, "Trace Evidence."
- VISITORS:** Mentorships for Trace Evidence and Serology
- |                |  |
|----------------|--|
| Steve Waite    | Student from Oberlin College   |
| Paul Kostyach  | Brush High School Student  |
| Frank Sheranko | Coordinator for Mentorship and Independent Study Program (Brush High School) |
| Wanda Thompson | Beaumont High School   |



## LECTURES GIVEN BY THE STAFF

### CRAIG A. SUTHEIMER, PH.D., CHIEF TOXICOLOGIST

- JANUARY:** Case Western Reserve University Graduate School, School of Medicine, "Basic Toxicology of Xenobiotic Materials." (two)
- Case Western Reserve University Graduate School, School of Medicine, "Absorption and Distribution of Xenobiotic Materials."
- FEBRUARY:** Case Western Reserve University Graduate School, School of Medicine, "Metabolism of Xenobiotic Materials I and II"(two)
- Cleveland Heights Basic Police School, "The Role of the Toxicology Laboratory in Coroner's Investigations/Proper Submission of Specimens and Evidence for Toxicologic Examination."
- Case Western Reserve University Graduate School, School of Medicine, "Chemical Toxicity."
- Case Western Reserve University Graduate School, School of Medicine, "Elimination of Xenobiotic Materials."
- MARCH:** Case Western Reserve University Graduate School, School of Medicine, "Acute VS Chronic Toxicity."
- Case Western Reserve University Graduate School, School of Medicine, "Invivo Measurement of Toxicity."
- Case Western Reserve University Law School, "The Role of the Toxicology Laboratory in Coroner's Investigations/Reliability of Forensic Drug Testing/ Advances in Analytical and Forensic Toxicology."
- Case Western Reserve University Graduate School, School of Medicine, "Detection and Measurement of Xenobiotics."
- APRIL:** Case Western Reserve University Graduate School, School of Medicine, "Xenobiotic Time Course."
- Case Western Reserve University Graduate School, School of Medicine, "Pharmacokinetics I and II"(two)
- MAY:** Cleveland Heights Basic Police School, "The Role of the Toxicology Laboratory in Coroner's Investigation/Proper Submission of Specimens and Evidence for Toxicologic Examination."
- JULY:** Metro Park Rangers, "The Role of the Toxicology Laboratory in Coroner's Investigations/Proper Submission of Specimens and Evidence for Toxicologic Examination." (two)
- Cleveland Basic Police School, "The Role of the Toxicology Laboratory in Coroner's Investigations/Proper Submission of Specimens and Evidence for Toxicologic Examination."

## LECTURES GIVEN BY THE STAFF

### CRAIG A. SUTHEIMER, PH.D., CHIEF TOXICOLOGIST

- SEPTEMBER:** Cleveland Heights Basic Police School, "The Role of the Toxicology Laboratory in Coroner's Investigations/Proper Submission of Specimens and Evidence for Toxicologic Examination."
- DECEMBER:** Cleveland Basic Police School, "The Role of the Toxicology Laboratory in Coroner's Investigations/Proper Submission of Specimens and Evidence for Toxicologic Examination."

### BRADFORD HEPLER, PH.D., ASSOCIATE TOXICOLOGIST

- FEBRUARY:** Cleveland State University Analytical Toxicology I: "Sample Preparation in Drug Analysis." (five)
- JULY AND  
AUGUST:** As a College of American Pathologists (CAP) Laboratory Inspector in the Forensic Urine Drug Testing (FUDT) Program, Participated in two Laboratory Inspections.
- NOVEMBER:** Task Force on Violent Crime Workshop for CMHA Residents on Drug Abuse, "Drug Related Fatalities in Cleveland, 1988."
- DECEMBER:** Case Western Reserve University, Department of Pathology MT(ASCP) Program (two)
- HONORS:** Chairman, of the Northeast Ohio Section (NEO) of the American Association for Clinical Chemistry (AACC), 1988.

### ELIZABETH ROBINSON, D.D.S., FORENSIC ODONTOLOGIST

- JANUARY –  
MARCH:** Senior Dental Students Course on Forensic Dentistry
- MARCH:** Cleveland Health Museum, "Dead Men Do Tell Tales."
- JUNE:** Attorneys and Law Enforcement Officials
- AUGUST:** Freshman Dental Students, "History of Dentistry and Forensic Dentistry."
- RESEARCH:** Bitemark Photography with Jim Wentzel (Photographer)



## LECTURES GIVEN BY THE STAFF

### RONALD ABRAMS, INVESTIGATOR, PROPERTY CLERK

**APRIL:** Parma High School, "The Functions and Service of the Coroner's Office." (six)

**OCTOBER:** Parma High School, "The Functions and Service of the Coroner's Office." (six)

### HAROLD MURPHY, ADMINISTRATIVE ASSISTANT

**FEBRUARY:** Cleveland Police Academy, Basic School, "Laws Relevant to the Coroner's Offices in Ohio and Procedures at the Cuyahoga County Coroner's Office."

**MAY:** Cleveland Heights Police Academy, Basic School, "Laws and Procedures and How they Effect the Coroner's Office."

**JUNE:** Case Western Reserve University, Center for Criminal Justice, Homicide Seminar, "Laws and Procedures and How they Effect the Coroner's Office."

**AUGUST:** Case Western Reserve University, Center for Criminal Justice, Basic Police School, "Laws and Procedures and How they Effect the Coroner's Office."

**SEPTEMBER:** Cleveland Heights Police Academy, Basic School, "Laws and Procedures and How they Effect the Coroner's Office."

**DECEMBER:** Case Western Reserve University, Center for Criminal Justice, Basic Police School, "Laws and Procedures and How they Effect the Coroner's Office."

### C. OWEN LOVEJOY PH.D., ANTHROPOLOGIST

**MAY:** "The Origins of Man," Keynote Address, 52nd Annual Meeting of the American Rheumatism Association, Houston, Texas.



# **PUBLICATIONS**

## **BY MEMBERS AND ASSOCIATES OF THE STAFF**

Lovejoy, C. Owen. "Wie aus dem (tier-) Mannchen der (Menschen-) Mannebestand." *P.M. MAGAZIN*, Vol. 5: 70-78, 1988.

Hepler, B.R., Book Review, "Drug and Chemical Toxicology: Statistics for Toxicologists," *THERAPEUTIC DRUG MONITOR*, 10,354, 1988.

Schwartz, H.J., Sutheimer, C.A., Gauerke, M.B. and Yunginger, J.W., "Hymenoptera Venom-specific IgE Antibodies in Post-Mortem Sera from Victims of Sudden, Unexpected Death." *CLIN. ALLERGY*, 18, 461-468, 1988.

Challener, R.C., Morrissey, A.M. and Jacobs, M.R., "Postmortem Diagnosis of Meningococemia by Detection of Capsular Polysaccharides," *JOURNAL OF FORENSIC SCIENCES*, Vol. 33:2, 336 - 346, 1988.



**THE 1988 CORONER'S STATISTICAL REPORT  
HAS BEEN PREPARED BY:**

**ANNA CHANG**

**Statistical data**

**BARBARA HARRELL**

**Statistical data, proof reading**

**DONNA JONES**

**Proof reading**

**BERNADETTE JUSCZAK**

**Photographs, illustrations, layout, and type**

**ELIZABETH TIDWELL**

**Statistical data, layout and type**

**JAMES WENTZEL**

**Graphic design, photographs, illustrations, layout, and type**

**BARBARA WOODARD**

**Statistical data**

**The Cover:**



**Downtown Cleveland at night as seen from across the recently completed North Coast Harbor.**

**Photograph by James Wentzel**





