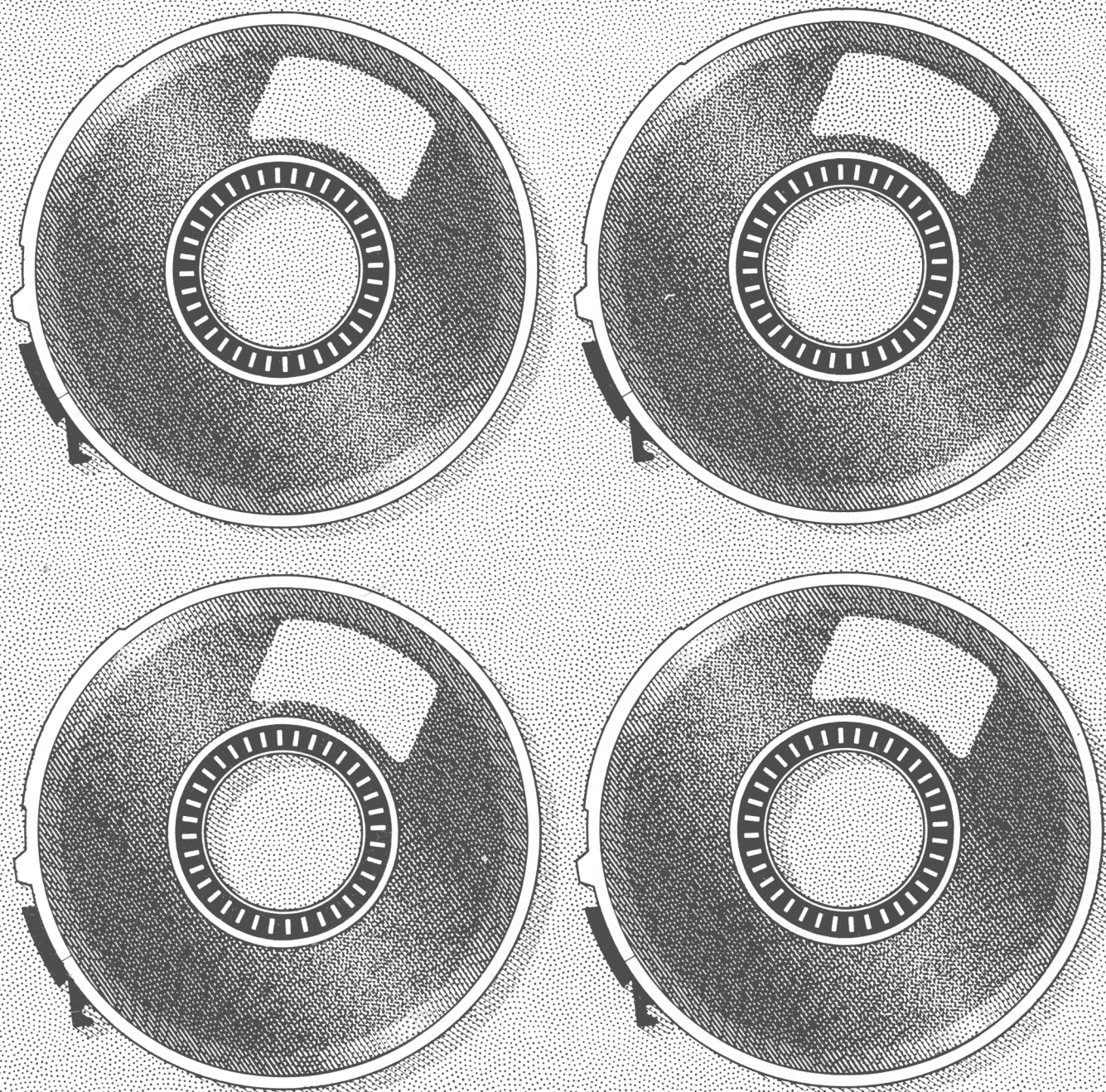


Public Use Data Tape Documentation

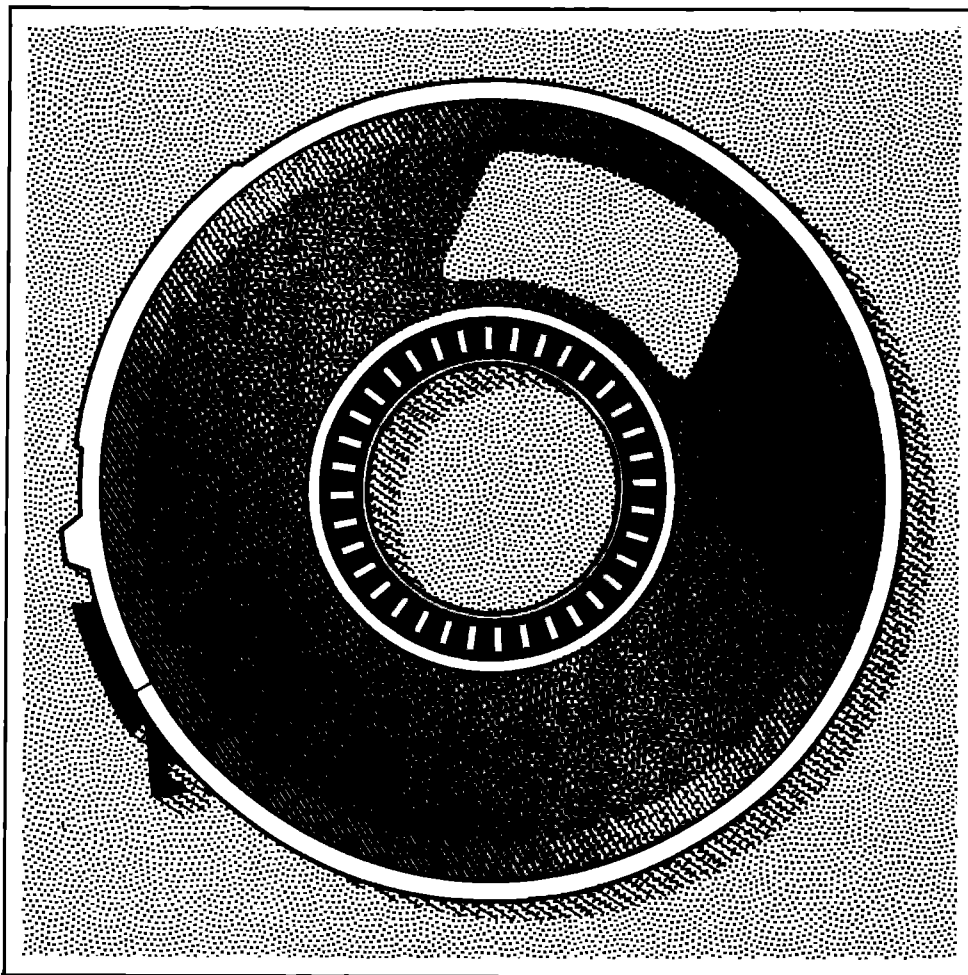
Multiple Cause of Death
for ICD-9 1980 Data

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES • Public Health Service • National Center for Health Statistics



Public Use Data Tape Documentation

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for ICD-9 1980 Data



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
National Center for Health Statistics

Hyattsville, Maryland
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Text

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Symbols Used in Tables

<u>Symbol</u>	<u>Explanation</u>
---	Data not available.
...	Category not applicable.
-	Quantity zero.
0.0	Quantity more than 0 but less than 0.5.
*	Figure does not meet standards of reliability or precision.

DOCUMENTATION OF MULTIPLE CAUSE-OF-DEATH
PUBLIC USE TAPE FILE FOR 1980 DATA

I. Introduction

Information on all causes-of-death reported on the approximately two million death certificates filed in the United States annually has been coded since 1968 as a part of the NCHS multiple cause-of-death program. The data are released to the public in a variety of ways including published reports, special tabulations to answer data requests, and data tapes containing a statistical record for each death occurring in the United States¹. This document is intended to provide guidance to the consumer in accessing and utilizing the multiple cause-of-death public use tape file which covers deaths occurring in the United States during 1980. Each record on the annual tape file contains two multiple cause-of-death fields which have been coded using International Classification of Diseases, Ninth Revision (ICD-9). In addition, underlying cause, demographic, and geographic detail data accompanies the multiple cause data. The tape file contains the complete level of detail coded by NCHS except where precluded by confidentiality restrictions or lack of data reliability. This document provides the technical data processing information necessary to access the tapes and the classification structure and coding rules applied to create each variable on the file such that the user can readily assess relevance at varying levels of detail to his/her own particular research. Additionally, it conveys the characteristics of the multiple cause fields sufficient to guide the user in analyzing and interpreting multiple cause data. The user is alerted to certain pitfalls of interpretation, and the appropriateness of each type of multiple cause data to given applications is discussed.

II. Data File Characteristics

File Organization: One file, multiple reels

Record Type: Fixed Length

Record Length: 440

Blocksize: 26,400

Data Counts: Occurrence - 1,993,137
Residents of U. S. - 1,989,841
Non-Residents - 3,296

1. The data year was processed using the PL/1 language on an IBM 370/158.
2. The last block for the data year may be a short block.

¹ Data were processed on a 50 percent basis for 1972.

3. The data are recorded in IBM/EBCDIC 8-bit code for each character.
4. Codes may be numeric, alphabetic, or blank (Hex 40).
5. A code "Z" is the EBCDIC code for the letter "Z".
6. A code "&" is the EBCDIC code for an ampersand (a punched card code 12).

III. Tape Format and Variable Definition

Appendix A and its attachments provide documentation of variables, variable categories, and variable location on the multiple cause-of-death public use tapes. It is noted that the following material, while used in the processing of mortality data, is not included in this package:

- A. Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Death, Ninth Revision (ICD-9) Volumes 1 and 2.
- B. NCHS Instruction Manual Data Preparation Part 2a, Vital Statistics Instructions for Classifying the Underlying Cause of Death, 1980.
- C. NCHS Instruction Manual Data Preparation, Part 2b, Vital Statistics Instructions for Classifying Multiple Causes of Death, 1980.
- D. NCHS Instruction Manual Data Preparation, Part 2C, Vital Statistics ICD-9 ACME Decision Tables for Classifying Underlying Causes of Death, 1980.
- E. NCHS Instruction Manual Data Preparation, Part 2d, Vital Statistics NCHS Procedures for Mortality Medical Data System File Preparation and Maintenance, Effective 1979.
- F. NCHS Instruction Manual Data Tabulation, Part 2f, Vital Statistics ICD-9 TRANSAX Disease Reference Tables for Classifying Multiple Causes of Death, 1979-80
- G. NCHS Instruction Manual Data Preparation, Part 4, Vital Statistics Demographic Classification and Coding Instructions for Death Records, 1980.
- H. NCHS Instruction Manual Tabulation, Part 11, Vital Statistics Computer Edits for Mortality Data, Effective 1979.

These documents describe in detail the rules employed for demographic and medical classification on death records. Volumes 1 and 2 of the ICD-9 may be purchased from WHO publications Centre USA, 49 Sheridan Avenue, Albany, New York, 12210. The remaining documents (Items B-H), while not absolutely essential to the proper interpretation of the data for a number of general applications, should nevertheless be studied carefully prior to any detailed analysis of demographic or medical data variables. In particular, there are a number of exceptions to the ICD rules in multiple cause-of-death coding which, if not treated properly, may result in faulty analysis of the data. Users who do not already have access to these documents may request them from the Chief, Data Preparation Branch, Division of Data Processing, National Center for Health Statistics, P. O. Box 12214, Research Triangle Park, North Carolina 27709.

In addition, the user should refer to the Technical Appendices of the Vital Statistics of the United States for information on the source of data, coding procedures, quality of the data, etc. Technical Appendix information is enclosed.

IV. Multiple Cause Data

The original scheme for coding conditions contained on the death certificate was designed with two objectives in mind. First, to facilitate etiological studies of the relationships among conditions, it was necessary to reflect accurately in coded form each condition and its location on the certification in the exact manner given by the certifier. Secondly, the codification needed to be carried out in a manner by which the underlying cause-of-death could be assigned through computer applications. The approach was to suspend the linkage provisions of the ICD for the purpose of condition coding and code each entity with minimum regard to other conditions present on the certification. This general approach is hereafter called entity coding.

Unfortunately, the set of multiple cause codes produced by entity coding is not conducive to a third objective -- the generation of person based multiple cause statistics. Person based analysis requires that each condition be coded within the context of every other condition on the same certificate and modified or linked to such conditions as provided by ICD-9. By definition, the entity data cannot meet this requirement since the linkage provisions distort the character and placement of the information originally recorded by the certifying physician.

Since the two objectives are incompatible, DVS has chosen to create from the original set of entity codes a new code set called record axis multiple cause data. Essentially, the axis of classification has been converted from an entity basis to a record (or person) basis. The record axis codes are assigned in terms of the set of codes that best describe the overall medical

certification portion of the death certificate. The translation is accomplished by a computer system called TRANSAX (TRANSLATION OF AXIS) through selective use of traditional linkage and modification rules for mortality coding. Underlying cause linkages which simply prefer one code over another for purposes of underlying cause selection are not included. Each entity code on the record is examined and modified or deleted as necessary to create a set of codes which are free of contradictions and are the most precise within the constraints of ICD-9 and medical information on the record. Repetitive codes are deleted. The process may (1) combine two entity axis categories together to a new category thereby eliminating a contradiction or standardizing the data; or (2) eliminate one category in favor of another to promote specificity of the data or resolve contradictions. The following examples from ICD-9 illustrate the effect of this translation:

Case 1: When reported on the same record as separate entities, Cirrhosis of liver and alcoholism are coded to 5715 (cirrhosis of liver without mention of alcohol) and 303 (alcohol dependence syndrome). Tabulation of records with 5715 would on the surface falsely imply that such records had no mention of alcohol. A preferable codification would be 5712 (alcoholic cirrhosis of liver) in lieu of both 5715 and 303.

Case 2: If "gastric ulcer" and "bleeding gastric ulcer" are reported on a record they are coded to 5319 (gastric ulcer, unspecified as acute or chronic, without mention of hemorrhage or perforation) and 5314 (gastric ulcer, chronic or unspecified, with hemorrhage). A more concise codification would be to code 5314 only since the 5314 shows both the gastric ulcer and the bleeding.

A. Entity Axis Codes

The original conditions coded for selection of the underlying cause-of-death are reformatted and edited prior to creating the public use tape. The following paragraphs describe the format and application of entity axis data.

FORMAT: Each entity-axis code is displayed as an overall seven byte code with subcomponents as follows:

1. line indicator: The first byte represents the line of the certificate on which the code appears. Six lines (1-6) are allowable with the fourth and fifth denoting one or two written in "due to"s beyond the three lines provided in Part I of the U.S. standard death certificate. Line "6" represents Part II of the certificate.

2. position indicator: The next byte indicates the position of the code on the line, i.e., it is the first (1), second (2), --- eighth (8) code on the line.
3. cause category: The next four bytes represent the ICD-9 cause code.
4. nature of injury flag: ICD-9 uses the same series of numbers (800-999) to indicate nature of injury (N codes) and external cause codes (E codes). This flag distinguishes between the two with a one (1) representing nature of injury codes and a zero (0) representing all other cause codes.

A maximum of 20 of these seven byte codes is captured on a record for multiple cause purposes. This may consist of a maximum of 8 codes on any given line with up to 20 codes distributed across three or more lines depending on where the subject conditions are located on the certificate. Codes may be omitted from one or more lines, e.g., line 1 with one or more codes, line 2 with no codes, line 3 with one or more codes.

In writing out these codes, they are ordered as follows: line 1 first code, line 1 second code, etc. ----- line 2 first code, line 2 second code, etc. ----- line 3 ----- line 4 ----- line 5 ----- line 6. Any space remaining in the field is left blank. The specifics of locations are contained in Appendix A.

Edit: The original conditions are edited to remove invalid codes, reverify the coding of certain rare causes of death, and assure age/cause and sex/cause compatibility. Detailed information relating to the edit criteria and the sets of cause codes which are valid to underlying cause coding and multiple cause coding are provided in Part 11 of the NCHS Vital Statistics Instruction Manual Series. Table 1, Number of Resident Deaths Tabulated by Mention of an Underlying Cause, Record Axis Multiple Cause, or Entity Axis Multiple Cause-of-Death by ICD-9 Category, provides a summary list of valid underlying cause and multiple cause codes.

ENTITY AXIS APPLICATIONS: The entity axis multiple cause data set is appropriate to analyses which require that each condition be coded as a stand alone entity without linkage to other conditions and/or require information on the placement of such conditions in the certificate. Within this framework, the entity data are appropriate to the examination of etiological relationships among conditions, accuracy of certification reporting, and the validity of traditional

assumptions in underlying cause selection. Additionally, the entity data provide in certain categories a more detailed code assignment which is linked out in the creation of record axis data. Where such detail is needed for a study, the user should selectively employ entity data. Finally, the researcher may not wish to be bound by the assumptions used in the axis translation process preferring rather to investigate hypotheses of his own predilection.

By definition, the main limitation of entity axis data is that an entity code does not necessarily reflect the best code for a condition when considered within the context of the medical certification as a whole. As a result certain entity codes can be misleading or even contradict other codes in the record. For example, category 5750 is titled "Acute cholecystitis without mention of calculus". Within the framework of entity codes this is interpreted to mean that the codable entity itself contained no mention of calculus rather than that calculus was not mentioned anywhere on the record. Tabulation of records with a "5750" as a count of persons having acute cholecystitis without mention of calculus would therefore be erroneous. This illustrates the fact that under entity coding the ICD-9 titles cannot be taken literally. The user must study the rules for entity coding as they relate to his/her research prior to utilization of entity data. The user is further cautioned that the inclusion notes in ICD-9 which relate to modifying and combining categories are seldom applicable to entity coding (except where provided in Part 2b of the Vital Statistics Instruction Manual Series).

In tabulating the entity axis data, one may count codes with the resultant tabulation of an individual code representing the number of times the disease(s) represented by the code appears in the file. In this kind of tabulation of morbid condition prevalence, the counts among categories may be added together to produce counts for groups of codes. Alternatively, subject to the limitations given above one may count persons having mention of the disease represented by a code or codes. In this instance it is not correct to add counts for individual codes to create person counts for groups of codes. Since more than one code in the researcher's interest may appear together on the certificate, totaling must account for higher order interactions among codes. Up to 20 codes may be assigned on a record; therefore, a 20-way interaction is theoretically possible. All totaling must be based on mention of one or more of the categories under investigation.

B. Record Axis Codes

The following paragraphs describe the format and application of record-axis data. Part 2f of the Vital Statistics Instruction Manual Series describes the TRANSAX process for creating record axis data from entity axis data.

FORMAT: Each record (or person) axis code is displayed in five bytes. Locational information is not relevant. The code consists of the following components:

- Cause category: The first four bytes represent the ICD-9 cause code.
- Nature of injury flag: The last byte contains a 0 or 1 with the 1 indicating that the cause is a nature of injury category.

Again, a maximum of 20 codes are captured on a record for multiple cause purposes. The codes are written in a 100-byte field in ascending code number (5 bytes) order with any unused bytes left blank (See Appendix A).

EDIT: The record axis codes are edited for rare causes and age/cause and sex/cause compatibility. Likewise, individual code validity is checked. The valid code set for record axis coding is the same as that for entity coding.

RECORD AXIS APPLICATIONS: The record axis multiple cause data set is the basis for NCHS core multiple cause tabulations. Location of codes is not relevant to this data set and conditions have been linked into the most meaningful categories for the certification. The most immediate consequence for the user is that the codes on the record already represent mention of a disease assignable to that particular ICD-9 category. This is in contrast to the entity code which is assigned each time such a disease is reported on two different lines of the certification. Secondly, the linkage implies that within the constraints of ICD-9 the most meaningful code has been assigned. The translation process creates for the user a data set which is edited for contradictions, duplicate codes, and imprecisions. In contrast to entity axis data, record axis data are classified in a manner comparable to underlying cause of death classification thereby facilitating joint analysis of these variables. Likewise, they are comparable to general morbidity coding where the linkage provisions of ICD-9 are usually utilized. A potential disadvantage of record axis data is that some detail is sacrificed in a number of the linkages.

The user can take the record axis codes as literally representing the information conveyed in ICD-9 category titles. While knowledge of the rules for combining and linking and coding conditions is useful, it is not a prerequisite to meaningful analysis of the data as long as one is willing to accept the assumptions of the axis translation process. The user is cautioned, however, that due to special rules in mortality coding, not all linkage notes in ICD-9 are utilized. (See Part 2f of the Vital Statistics Instruction Manual Series.)

The user should proceed with caution in using record axis data to count conditions as opposed to people with conditions since linkages

have been invoked and duplicate codes have been eliminated. As with entity data, person based tabulations which combine individual cause categories must take into account the possible interaction of up to 20 codes on a single certificate.

V. Additional Information

In using the NCHS multiple cause data tapes, the user is urged to review the information in this document and its references. The instructional material does change from year to year and revision to revision. The user is cautioned that coding of specific ICD-9 categories should be checked in the appropriate instruction manual. What may appear on the surface to be the correct code by ICD-9 may in fact not be correct as given in the instruction manuals.

If on the surface it is not obvious whether entity axis or record axis data should be employed in a given application, detailed examination of Part 2f of the Vital Statistics Instruction Manual Series and its attachments will probably provide the necessary information to make a decision. It allows the user to determine the extent of the trade-offs between the two sets of data in terms of specific categories and the assumptions of axis translation. In certain situations, a combination of entity and record axis data may be the more appropriate alternative.

Several basic tabulations of data from selected variables contained on this tape have been produced and are included with this document as an aid to the user in determining if his own tabulations are correct. For verification of multiple cause-of-death data at the "each cause" level of detail, Table 1 provides counts of the number of deaths on which a given ICD-9 category is mentioned as the underlying cause of death, a record axis multiple cause-of-death, and an entity axis multiple cause-of-death, respectively. The counts for the record axis multiple cause-of-death field are divided into two distinct subtotals: (1) "total mention" and (2) "secondary". Secondary is defined as any code which is present in the record axis field but is not the underlying cause-of-death. Tables 2-9 provide additional control totals for the three cause-of-death fields by age, race, and sex. Tables 10-12 ignore cause-of-death and provide control totals based on age, race, sex, State of residence, State of occurrence, and month. Tables 1-11 are based on all resident deaths in the United States (excludes deaths to non-residents). Table 12 is based upon all deaths occurring in the United States (includes deaths to foreign residents).

Where further assistance is needed, Ronald F. Chamblee, Statistician, Technical Services Branch, Division of Vital Statistics, NCHS, Room 116, P. O. Box 12214, Research Triangle Park, North Carolina 27709, Telephone FTS 629-4558, Commercial (919) 541-4558 may be contacted.

1980
MULTIPLE CAUSE-OF-DEATH RECORD

<u>Data Items</u>	<u>Tape Locations</u>
1. <u>General</u>	
a. Data year	1-2
b. Reporting area	3
c. Record type	19
d. Resident status	20
e. Date of death	55-58
2. <u>Occurrence</u>	
a. State	21-22
b. County	23-25
c. Region	26
d. Division	27
3. <u>Residence</u>	
a. State	31-32
b. County	33-35
c. City	36-38
d. Population size	39
e. Met/Nonmet county	40
f. Region	41
g. Division	42
h. SMSA	46-48
4. <u>The Decedent</u>	
a. Sex	59
b. Race	60-63
c. Age	64-74
d. Marital status	77
e. State of birth	78-79
5. <u>Underlying Cause</u>	
a. ICD-9 code	142-145
b. 282 cause recode	146-150
c. 72 cause recode	151-153
d. 61 cause recode	154-156
e. 34 cause recode	157-159
f. Autopsy performed	84
g. Place of accident	141

1980
MULTIPLE CAUSE-OF-DEATH RECORD

<u>Data Items</u>	<u>Tape Locations</u>
6. <u>Multiple Conditions</u>	
a. <u>Entity-Axis conditions</u>	
1. Number of	160-161
2. The conditions	162-301
b. <u>Parenthetical conditions</u>	
1. Number of	302
2. The conditions	303-337
c. <u>Record-Axis conditions</u>	
1. Number of	338-339
2. The conditions	341-440

1980
MULTIPLE CAUSE-OF-DEATH RECORD

Tape Location	Field Size	Item and Code Outline
1-2	2	<u>Last 2 Digits of Current Data Year</u> 80 ... 1980
3	1	<u>Reporting Area</u> The following codes used with the State of Occurrence codes, locations 21-22, identify separate reporting areas. 1 ... Bronx Borough 2 ... Brooklyn Borough 3 ... Manhattan Borough 4 ... Queens Borough 5 ... Richmond Borough 6 ... Chicago 0 ... All other Areas
4-9	6	<u>Certificate Number</u> These positions are blank
10-11	2	<u>Shipment Number</u> 01-nn ... Shipments from each reporting area are numbered consecutively.
12-18	7	<u>Sequence Number (*)</u> These positions are blank
19	1	<u>Record Type (*)</u> 1 ... RESIDENTS State and County of Occurrence and Residence are the same. 2 ... NONRESIDENTS State and/or County of Occurrence and Residence are different

1980
MULTIPLE CAUSE-OF-DEATH RECORD

Tape Location	Field Size	Item and Code Outline
20	1	<u>Resident Status (*)</u> 1 ... RESIDENTS State and County of Occurrence and Residence are the same. 2 ... INTRASTATE NONRESIDENTS State of Occurrence and Residence are the same, but County is different. 3 ... INTERSTATE NONRESIDENTS State of Occurrence and Residence are different, but both are in the U.S. 4 ... FOREIGN RESIDENTS State of Occurrence is one of the 50 States or the District of Columbia, but Place of Residence is outside of the U.S.
21-30	10	<u>PLACE OF OCCURRENCE</u> Refer to the "Geographic code Manual: Codes used in computer processing effective with 1970 data" for a complete list of areas and codes.
21-22	2	<u>State</u> 01-51 ... Each State and the District of Columbia are numbered alphabetically. Appendix A gives a complete list of State names and codes.
23-25	3	<u>County</u> 001-nnn ... Counties and County equivalents are numbered alphabetically within each State. Virginia independent cities are numbered alphabetically following Virginia counties.
26	1	<u>Region (*)</u> 1 ... Northeast 2 ... North Central 3 ... South 4 ... West

1980
MULTIPLE CAUSE-OF-DEATH RECORD

Tape Location	Field Size	Item and Code Outline										
27-28	2	<u>Division and State Subcode of Occurrence(*)</u> States are coded within Division. The code structure is designed to sequence the States as they appear in NCHS Publications. Location 27 identifies the Division and location 28 identifies States within that Division. <table><thead><tr><th><u>Loc.</u> <u>27</u></th><th><u>Loc.</u> <u>28</u></th></tr></thead><tbody><tr><td><u>1 ...</u></td><td><u>New England</u> 1 ... Maine 2 ... New Hampshire 3 ... Vermont 4 ... Massachusetts 5 ... Rhode Island 6 ... Connecticut</td></tr><tr><td><u>2 ...</u></td><td><u>Middle Atlantic</u> 1 ... New York 2 ... New Jersey 3 ... Pennsylvania</td></tr><tr><td><u>3 ...</u></td><td><u>East North Central</u> 1 ... Ohio 2 ... Indiana 3 ... Illinois 4 ... Michigan 5 ... Wisconsin</td></tr><tr><td><u>4 ...</u></td><td><u>West North Central</u> 1 ... Minnesota 2 ... Iowa 3 ... Missouri 4 ... North Dakota 5 ... South Dakota 6 ... Nebraska 7 ... Kansas</td></tr></tbody></table>	<u>Loc.</u> <u>27</u>	<u>Loc.</u> <u>28</u>	<u>1 ...</u>	<u>New England</u> 1 ... Maine 2 ... New Hampshire 3 ... Vermont 4 ... Massachusetts 5 ... Rhode Island 6 ... Connecticut	<u>2 ...</u>	<u>Middle Atlantic</u> 1 ... New York 2 ... New Jersey 3 ... Pennsylvania	<u>3 ...</u>	<u>East North Central</u> 1 ... Ohio 2 ... Indiana 3 ... Illinois 4 ... Michigan 5 ... Wisconsin	<u>4 ...</u>	<u>West North Central</u> 1 ... Minnesota 2 ... Iowa 3 ... Missouri 4 ... North Dakota 5 ... South Dakota 6 ... Nebraska 7 ... Kansas
<u>Loc.</u> <u>27</u>	<u>Loc.</u> <u>28</u>											
<u>1 ...</u>	<u>New England</u> 1 ... Maine 2 ... New Hampshire 3 ... Vermont 4 ... Massachusetts 5 ... Rhode Island 6 ... Connecticut											
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<u>4 ...</u>	<u>West North Central</u> 1 ... Minnesota 2 ... Iowa 3 ... Missouri 4 ... North Dakota 5 ... South Dakota 6 ... Nebraska 7 ... Kansas											

1980
MULTIPLE CAUSE-OF-DEATH RECORD

Tape Location	Field Size	Item and Code Outline
27-28	2	<u>Division and State Subcode of Occurrence(*) (Cont'd)</u>
		<u>Loc. 27</u> <u>Loc. 28</u>
		<u>5 ...</u> <u>South Atlantic</u>
		1 ... Delaware
		2 ... Maryland
		3 ... District of Columbia
		4 ... Virginia
		5 ... West Virginia
		6 ... North Carolina
		7 ... South Carolina
		8 ... Georgia
		9 ... Florida
		<u>6 ...</u> <u>East South Central</u>
		1 ... Kentucky
		2 ... Tennessee
		3 ... Alabama
		4 ... Mississippi
		<u>7 ...</u> <u>West South Central</u>
		1 ... Arkansas
		2 ... Louisiana
		3 ... Oklahoma
		4 ... Texas
		<u>8 ...</u> <u>Mountain</u>
		1 ... Montana
		2 ... Idaho
		3 ... Wyoming
		4 ... Colorado
		5 ... New Mexico
		6 ... Arizona
		7 ... Utah
		8 ... Nevada
		<u>9 ...</u> <u>Pacific</u>
		1 ... Washington
		2 ... Oregon
		3 ... California
		4 ... Alaska
		5 ... Hawaii

1980
MULTIPLE CAUSE-OF-DEATH RECORD

Tape Location	Field Size	Item and Code Outline
29-30	2	<u>Expanded State of Occurrence Code (*)</u> This item is designed to separately identify New York City records from other New York State records. Appendix A gives a complete list of names and expanded codes. 01-52 ... Code range
31-48	18	<u>PLACE OF RESIDENCE</u> Refer to the "Geographic Code Manual: Codes used in computer processing effective with 1970 data" for a complete list of areas and codes.
31-32	2	<u>State</u> 01-51 ... Each State and the District of Columbia are numbered alphabetically. Appendix A gives a complete list of State names and codes. <u>Foreign Residents</u> 52 ... Puerto Rico 53 ... Virgin Islands 54 ... Guam 55 ... Canada 56 ... Cuba 57 ... Mexico 59 ... Remainder of the World
33-35	3	<u>County</u> 001-nnn ... Counties and County equivalents are numbered alphabetically within each State. Virginia independent cities are numbered alphabetically following Virginia counties. ZZZ ... Foreign Residents
36-38	3	<u>City</u> 001-mnn ... Cities are numbered alphabetically within each State and identify each city with a population of 100,000 or more in 1970. 999 ... Balance of County ZZZ ... Foreign Residents

1980
MULTIPLE CAUSE-OF-DEATH RECORD

Tape Location	Field Size	Item and Code Outline
39	1	<u>Population Size of City of Residence (*)</u> 0 ... 1,000,000 or more 1 ... 500,000 to 1,000,000 2 ... 250,000 to 500,000 3 ... 100,000 to 250,000 4 ... 50,000 to 100,000 5 ... 25,000 to 50,000 6 ... 10,000 to 25,000 9 ... All other areas in the U.S. Z ... Foreign Residents
40	1	<u>Metropolitan - Nonmetropolitan County of Residence (*)</u> 1 ... Metropolitan County 2 ... Nonmetropolitan County Z ... Foreign Residents
41	1	<u>Region (*)</u> 0 ... Foreign Residents 1 ... Northeast 2 ... North Central 3 ... South 4 ... West

1980
MULTIPLE CAUSE-OF-DEATH RECORD

Tape Location	Field Size	Item and Code Outline
42-43	2	<u>Division and State Subcode of Residence (*)</u> States are coded within Division. The code structure is designed to sequence the States as they appear in NCHS Publications. Location 42 identifies the Division and location 43 identifies States within that Division. 00 ... Foreign Residents <u>Loc.</u> <u>Loc.</u> <u>42</u> <u>43</u> <u>1 ...</u> <u>New England</u> 1 ... Maine 2 ... New Hampshire 3 ... Vermont 4 ... Massachusetts 5 ... Rhode Island 6 ... Connecticut <u>2 ...</u> <u>Middle Atlantic</u> 1 ... New York 2 ... New Jersey 3 ... Pennsylvania <u>3 ...</u> <u>East North Central</u> 1 ... Ohio 2 ... Indiana 3 ... Illinois 4 ... Michigan 5 ... Wisconsin <u>4 ...</u> <u>West North Central</u> 1 ... Minnesota 2 ... Iowa 3 ... Missouri 4 ... North Dakota 5 ... South Dakota 6 ... Nebraska 7 ... Kansas

1980
MULTIPLE CAUSE-OF-DEATH RECORD

Tape Location	Field Size	Item and Code Outline
42-43	2	<u>Division and State Subcode of Residence(*) (Cont'd)</u>
		<u>Loc. 42</u> <u>Loc. 43</u>
		<u>5 ...</u> <u>South Atlantic</u>
		1 ... Delaware
		2 ... Maryland
		3 ... District of Columbia
		4 ... Virginia
		5 ... West Virginia
		6 ... North Carolina
		7 ... South Carolina
		8 ... Georgia
		9 ... Florida
		<u>6 ...</u> <u>East South Central</u>
		1 ... Kentucky
		2 ... Tennessee
		3 ... Alabama
		4 ... Mississippi
		<u>7 ...</u> <u>West South Central</u>
		1 ... Arkansas
		2 ... Louisiana
		3 ... Oklahoma
		4 ... Texas
		<u>8 ...</u> <u>Mountain</u>
		1 ... Montana
		2 ... Idaho
		3 ... Wyoming
		4 ... Colorado
		5 ... New Mexico
		6 ... Arizona
		7 ... Utah
		8 ... Nevada
		<u>9 ...</u> <u>Pacific</u>
		1 ... Washington
		2 ... Oregon
		3 ... California
		4 ... Alaska
		5 ... Hawaii

1980
MULTIPLE CAUSE-OF-DEATH RECORD

Tape Location	Field Size	Item and Code Outline
44-45	2	<u>Expanded State of Residence Code (*)</u> This item is designed to separately identify New York City records from other New York State records. Appendix A gives a complete list of names and expanded codes. 00 ... Foreign Residents 01-52 ... Code range
46-48	3	<u>NCHS Standard Metropolitan Statistical Area (SMSA)</u> NCHS uses the SMSA's established for 1980 by the U.S. Office of Management and Budget except for New England States, in which case the New England County Metropolitan Areas (NECMA) are used. A list of SMSA's and their component counties is at the back of this documentation. Tape locations 129-132 contain the Federal Information Processing Standards (FIPS) SMSA codes. 000 ... Nonmetropolitan counties 001-305 ... The 305 SMSA's established for 1980 ZZZ ... Foreign Residents
49-54	6	<u>Reserved Positions</u>

1980
MULTIPLE CAUSE-OF-DEATH RECORD

Tape Location	Field Size	Item and Code Outline
55-58	4	<u>DATE OF DEATH</u> ¹
55-56	2	<u>Month</u> 01 ... January 07 ... July 02 ... February 08 ... August 03 ... March 09 ... September 04 ... April 10 ... October 05 ... May 11 ... November 06 ... June 12 ... December
57-58	2	<u>Day</u> 01-31 ... As applicable to Month of Death 99 ... Day of Death not stated
59	1	<u>Sex</u> 1 ... Male 2 ... Female
60-63	4	<u>RACE</u>
60-61	2	<u>Detail Race</u> 00 ... Other Asian or Pacific Islander 01 ... White 02 ... Black 03 ... Indian (includes Aleuts and Eskimos) 04 ... Chinese 05 ... Japanese 06 ... Hawaiian (includes Part-Hawaiian) 07 ... All other Races 08 ... Filipino
62	1	<u>Race Recode 3 (*)</u> 1 ... White 2 ... Races other than White or Black 3 ... Black
63	1	<u>Race Recode 2 (*)</u> 1 ... White 2 ... All Other Races

¹Year of death is identified in tape locations 1-2.

1980
 MULTIPLE CAUSE-OF-DEATH RECORD

Tape Location	Field Size	Item and Code Outline
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64-74	11	<u>AGE</u>
64-66	3	<u>Detail Age</u>

Three positions are used to code detail age. Location 64 identifies age in years, months, days, etc. Locations 65-66 are the number of years, months, days, etc.

<u>Loc. 64</u>		<u>Loc. 65-66²</u>
0	Years less than 100	01-99
1	Years 100 or more	00-99
2	Months	01-11,99
3	Weeks	01-03,99
4	Days	01-27,99
5	Hours	01-23,99
6	Minutes	01-59,99
9	Age not stated	99

²Unknowns in infant age are recoded:

CODE AND MEANING	TAPE LOCATIONS			
	67-68	69-70	71-72	73-74
299 - Months	12	02	01	12
399 - Weeks	09	01	01	09
499 - Days	03	01	01	03
599 - Hours	01	01	01	01
699 - Minutes	01	01	01	01

1980
MULTIPLE CAUSE-OF-DEATH RECORD

Tape Location	Field Size	Item and Code Outline
67-68	2	<u>Age Recode 52 (*)</u>
		01 ... Under 1 hour
		02 ... 1-23 hours
		03 ... 1 day
		04 ... 2 days
		05 ... 3 days
		06 ... 4 days
		07 ... 5 days
		08 ... 6 days
		09 ... 7-13 days
		10 ... 14-20 days
		11 ... 21-27 days
		12 ... 1 month
		13 ... 2 months
		14 ... 3 months
		15 ... 4 months
		16 ... 5 months
		17 ... 6 months
		18 ... 7 months
		19 ... 8 months
		20 ... 9 months
		21 ... 10 months
		22 ... 11 months
		23 ... 1 year
		24 ... 2 years
		25 ... 3 years
		26 ... 4 years
		27 ... 5-9 years
		28 ... 10-14 years
		29 ... 15-19 years
		30 ... 20-24 years
		31 ... 25-29 years
		32 ... 30-34 years
		33 ... 35-39 years
		34 ... 40-44 years
		35 ... 45-49 years
		36 ... 50-54 years
		37 ... 55-59 years
		38 ... 60-64 years
		39 ... 65-69 years
		40 ... 70-74 years

1980
MULTIPLE CAUSE-OF-DEATH RECORD

Tape Location	Field Size	Item and Code Outline
67-68	2	<u>Age Recode 52 (*) (Cont'd)</u> 41 ... 75-79 years 42 ... 80-84 years 43 ... 85-89 years 44 ... 90-94 years 45 ... 95-99 years 46 ... 100-104 years 47 ... 105-109 years 48 ... 110-114 years 49 ... 115-119 years 50 ... 120-124 years 51 ... 125 years and over 52 ... Age not stated
69-70	2	<u>Age Recode 27 (*)</u> 01 ... Under 1 month 02 ... 1 month - 11 months 03 ... 1 year 04 ... 2 years 05 ... 3 years 06 ... 4 years 07 ... 5-9 years 08 ... 10-14 years 09 ... 15-19 years 10 ... 20-24 years 11 ... 25-29 years 12 ... 30-34 years 13 ... 35-39 years 14 ... 40-44 years 15 ... 45-49 years 16 ... 50-54 years 17 ... 55-59 years 18 ... 60-64 years 19 ... 65-69 years 20 ... 70-74 years 21 ... 75-79 years 22 ... 80-84 years 23 ... 85-89 years 24 ... 90-94 years 25 ... 95-99 years 26 ... 100 years and over 27 ... Age not stated

1980
MULTIPLE CAUSE-OF-DEATH RECORD

Tape Location	Field Size	Item and Code Outline
71-72	2	<u>Age Recode 12 (*)</u> 01 ... Under 1 year 02 ... 1-4 years 03 ... 5-14 years 04 ... 15-24 years 05 ... 25-34 years 06 ... 35-44 years 07 ... 45-54 years 08 ... 55-64 years 09 ... 65-74 years 10 ... 75-84 years 11 ... 85 years and over 12 ... Age not stated
73-74	2	<u>Infant Age Recode 22 (*)</u> Blank... Age 1 year and over or not stated 01 ... Under 1 hour 02 ... 1-23 hours 03 ... 1 day 04 ... 2 days 05 ... 3 days 06 ... 4 days 07 ... 5 days 08 ... 6 days 09 ... 7-13 days 10 ... 14-20 days 11 ... 21-27 days 12 ... 1 month 13 ... 2 months 14 ... 3 months 15 ... 4 months 16 ... 5 months 17 ... 6 months 18 ... 7 months 19 ... 8 months 20 ... 9 months 21 ... 10 months 22 ... 11 months

1980
MULTIPLE CAUSE-OF-DEATH RECORD

Tape Location	Field Size	Item and Code Outline
75	1	<u>Hospital and Status</u> 1... Hospital, Clinic or Medical Center -- Inpatient 2... Hospital, Clinic or Medical Center -- Outpatient or admitted to Emergency Room 3... Hospital, Clinic or Medical Center -- Dead on Arrival 4... Hospital, Clinic or Medical Center -- Patient status unknown 5... Hospital, Clinic or Medical Center -- Patient status not on certificate 6... Other Institutions providing patient care 7... All other reported entries 8... Dead on Arrival -- Hospital, Clinic, Medical Center -- name not given 9... Hospital and patient status not stated
76	1	<u>Reserved Position</u>
77	1	<u>Marital Status</u> 1 ... Never married, single 2 ... Married 3 ... Widowed 4 ... Divorced 8 ... Marital Status not on certificate 9 ... Marital Status not stated
78-79	2	<u>State of Birth</u> 01-51 ... Each State and the District of Columbia are numbered alphabetically. Appendix A gives a complete list of State names and codes. 52 ... Puerto Rico 53 ... Virgin Islands 54 ... Guam 55 ... Canada 56 ... Cuba 57 ... Mexico 59 ... Remainder of the World 99 ... State of birth unknown

1980
MULTIPLE CAUSE-OF-DEATH RECORD

Tape Location	Field Size	Item and Code Outline
80-83	4	<u>Reserved Positions</u>
84	1	<u>Autopsy Performed</u> 1... Yes 2... No 8... Autopsy performed not on certificate 9... Autopsy performed not stated
85-128	44	<u>Reserved Positions</u>
129-132	4	<u>FIPS SMSA</u> See tape location 46-48 for an explanation of SMSA's adapted for use by NCHS. A list of SMSA's and their component counties is at the back of this documentation. 0000 ... Nonmetropolitan counties 0040-9340 ... Code range ZZZZ ... Foreign residents
133-140	8	<u>Reserved Positions</u>

1980
 MULTIPLE CAUSE-OF-DEATH RECORD

Tape Location	Field Size	Item and Code Outline
141	1	<u>Place of Accident for Causes E850-E929</u>
		Blank ... Causes other than E850-E929 0 ... Home 1 ... Farm 2 ... Mine and Quarry 3 ... Industrial Place and Premises 4 ... Place for Recreation and Sport 5 ... Street and Highway 6 ... Public Building 7 ... Resident Institution 8 ... Other Specified Places 9 ... Place of Accident not Specified
142-159	18	<u>Underlying Cause of Death</u>
142-145	4	<u>ICD Code (9th Revision)</u>
		See the "International Classification of Diseases", 1975 Revision, Volume 1. For injuries and poisoning, the external cause is coded (E800-E999) rather than the Nature of Injury (800-999). These positions do not include the letter E for the external cause of injury. For those causes that do not have a 4th digit, location 145 is blank.
146-150	5	<u>282 Cause Recode</u>
		A recode of the ICD cause code into 282 groups for NCHS publications. See attachment for a complete list of recodes and the causes included. 00300-35800 ... Code range (not inclusive)
151-153	3	<u>72 Cause Recode</u>
		A recode of the ICD cause code into 72 groups for NCHS publications. See attachment for a complete list of recodes and the causes included. 010-840 ... Code range (not inclusive)

1980
MULTIPLE CAUSE-OF-DEATH RECORD

Tape Location	Field Size	Item and Code Outline
154-156	3	<u>61 Infant Cause Recode</u> A recode of the ICD cause code into 61 groups for NCHS publications. See attachment for a complete list of recodes and the causes included. 010-680 ... Code range (not inclusive)
157-159	3	<u>34 Cause Recode</u> A recode of the ICD cause code into 34 groups for NCHS Publications. See attachment for a complete list of recodes and the causes included. 010-370 ... Code range (not inclusive)

1980
MULTIPLE CAUSE-OF-DEATH RECORD

Tape Location	Field Size	Item and Code Outline
160-440	281	<u>Multiple Conditions</u>
160-161	2	<u>Number of Entity - Axis Conditions</u> 00-20 ... Code range
162-301	140	<u>Entity-Axis Conditions</u> Space has been provided for maximum of 20 conditions. Each condition takes 7 positions in the record. Records that do not have 20 conditions are blank in the unused area. Position 1 Part/line number on certificate. 1 ... Part I, line 1 (a) 2 ... Part I, line 2 (b) 3 ... Part I, line 3 (c) 4 ... Part I, line 4 (d) 5 ... Part I, line 5 (e) 6 ... Part II Position 2 Sequence of condition within part/line 1-7 ... Code range Positions 3-6 Condition code See Table 1 for a complete list of codes. Position 7 Nature of Injury Flag 1 ... Indicates that the code in positions 3-6 is a Nature of Injury code. 0 ... All other codes.
162-168	7	1st Condition
169-175	7	2nd Condition

1980
MULTIPLE CAUSE-OF-DEATH RECORD

Tape Location	Field Size	Item and Code Outline
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Entity-Axis Conditions (Cont'd)

176-182	7	3rd Condition
183-189	7	4th Condition
190-196	7	5th Condition
197-203	7	6th Condition
204-210	7	7th Condition
211-217	7	8th Condition
218-224	7	9th Condition
225-231	7	10th Condition
232-238	7	11th Condition
239-245	7	12th Condition
246-252	7	13th Condition
253-259	7	14th Condition
260-266	7	15th Condition
267-273	7	16th Condition
274-280	7	17th Condition
281-287	7	18th Condition
288-294	7	19th Condition
295-301	7	20th Condition

302-337	36	<u>Reserved Positions</u>
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1980
MULTIPLE CAUSE-OF-DEATH RECORD

Tape Location	Field Size	Item and Code Outline
338-339	2	<u>Number of Record Axis Conditions</u> 00-20 ... Code range
340	1	Reserved position
341-440	100	<u>Record Axis Conditions</u> Space has been provided for a maximum of 20 conditions. Each condition takes 5 positions in the record. Records that do not have 20 conditions are blank in the unused area. Positions 1-4 Condition code See Table 1 for a complete list of codes. Position 5 Nature of Injury Flag 1 ... Indicates that the code in positions 1-4 is a Nature of Injury code. 0 ... All other codes
341-345	5	1st Condition
346-350	5	2nd Condition
351-355	5	3rd Condition
356-360	5	4th Condition
361-365	5	5th Condition
366-370	5	6th Condition
371-375	5	7th Condition
376-380	5	8th Condition
381-385	5	9th Condition
386-390	5	10th Condition
391-395	5	11th Condition

1980
MULTIPLE CAUSE-OF-DEATH RECORD

Tape Location	Field Size	Item and Code Outline
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Record-Axis Conditions (Cont'd)

396-400	5	12th Condition
401-405	5	13th Condition
406-410	5	14th Condition
411-415	5	15th Condition
416-420	5	16th Condition
421-425	5	17th Condition
426-430	5	18th Condition
431-435	5	19th Condition
436-440	5	20th Condition

1980
STATE CODES USED IN NCHS/DVS

Appendix A

<u>Name</u>	<u>Abbrev.</u>	<u>Code</u>	<u>Expanded Code</u>	<u>Name</u>	<u>Abbrev.</u>	<u>Code</u>	<u>Expanded Code</u>
Alabama	AL	01	01	Nebraska	NB	28	28
Alaska	AK	02	02	Nevada	NV	29	29
Arizona	AZ	03	03	New Hampshire	NH	30	30
Arkansas	AR	04	04	New Jersey	NJ	31	31
California	CA	05	05	New Mexico	NM	32	32
Colorado	CO	06	06	New York	NY	33	33
Connecticut	CT	07	07	New York City	NYC	33	34
Delaware	DE	08	08	North Carolina	NC	34	35
District of Columbia	DC	09	09	North Dakota	ND	35	36
Florida	FL	10	10	Ohio	OH	36	37
Georgia	GA	11	11	Oklahoma	OK	37	38
Hawaii	HI	12	12	Oregon	OR	38	39
Idaho	ID	13	13	Pennsylvania	PA	39	40
Illinois	IL	14	14	Rhode Island	RI	40	41
Indiana	IN	15	15	South Carolina	SC	41	42
Iowa	IA	16	16	South Dakota	SD	42	43
Kansas	KS	17	17	Tennessee	TN	43	44
Kentucky	KY	18	18	Texas	TX	44	45
Louisiana	LA	19	19	Utah	UT	45	46
Maine	ME	20	20	Vermont	VT	46	47
Maryland	MD	21	21	Virginia	VA	47	48
Massachusetts	MA	22	22	Washington	WA	48	49
Michigan	MI	23	23	West Virginia	WV	49	50
Minnesota	MN	24	24	Wisconsin	WI	50	51
Mississippi	MS	25	25	Wyoming	WY	51	52
Missouri	MO	26	26				
Montana	MT	27	27				

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCMS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

NCMS SMSA	NCMS STATE	NCMS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
001	44	030 127 221	ABILENE, TEX TEXAS CALLAHAN JONES TAYLOR	0040
002	36	067 077	AKRON, OHIO OHIO PORTAGE SUMMIT	0080
003	11	047 088	ALBANY, GA GEORGIA DOUGHERTY LEE	0120
004	33	001 027 039 042 043	ALBANY-SCHENECTADY-TROY, N.Y NEW YORK ALBANY MONTGOMERY RENSSELAER SARATOGA SCHENECTADY	0160
005	32	001 023	ALBUQUERQUE, N. MEX NEW MEXICO BERNALILLO SANDOVAL	0200
006	19	022 040	ALEXANDRIA, LA LOUISIANA GRANT RAPIDES	0220
007	31 39	021 013 039 048	ALLENTOWN-BETHLEHEM-EASTON, PA.-N.J NEW JERSEY WARREN PENNSYLVANIA CARBON LEHIGH NORTHAMPTON	0240
008	39	007	ALTOONA, PA PENNSYLVANIA BLAIR	0280
009	44	188 191	AMARILLO, TEX TEXAS POTTER RANDALL	0320

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
010	05	030	ANAHEIM-SANTA ANA-GARDEN GROVE, CALIF CALIFORNIA ORANGE	0360
011	02	010	ANCHORAGE, ALASKA ALASKA DIST. 10, ANCHORAGE	0380
012	15	048	ANDERSON, IND INDIANA MADISON	0400
013	41	004	ANDERSON, S.C SOUTH CAROLINA ANDERSON	0405
014	23	081	ANN ARBOR, MICH MICHIGAN WASHTENAW	0440
015	01	008	ANNISTON, ALA ALABAMA CALHOUN	0450
016	50	008 045 071	APPLETON-OSHKOSH, WIS WISCONSIN CALUMET OUTAGAMIE WINNEBAGO	0460
017	34	011 058	ASHEVILLE, N.C NORTH CAROLINA BUNCOMBE MADISON	0480
018	11	029 078 097 108	ATHENS, GA GEORGIA CLARKE JACKSON MADISON OCONEE	0500

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
019	11		ATLANTA, GA	0520
			GEORGIA	
		018	BUTTS	
		028	CHEROKEE	
		031	CLAYTON	
		033	COBB	
		044	DE KALB	
		048	DOUGLAS	
		056	FAYETTE	
		058	FORSYTH	
		060	FULTON	
		067	GWINNETT	
		075	HENRY	
		107	NEWTON	
		110	PAULDING	
		122	ROCKDALE	
		147	WALTON	
020	31		ATLANTIC CITY, N.J.	0560
			NEW JERSEY	
		001	ATLANTIC	
021	11		AUGUSTA, GA.-S.C	0600
			GEORGIA	
		036	COLUMBIA	
		121	RICHMOND	
	41		SOUTH CAROLINA	
		002	AIKEN	
022	44		AUSTIN, TEX	0640
			TEXAS	
		105	HAYS	
		227	TRAVIS	
		246	WILLIAMSON	
023	05		BAKERSFIELD, CALIF	0680
			CALIFORNIA	
		015	KERN	
024	21		BALTIMORE, MD	0720
			MARYLAND	
		002	ANNE ARUNDEL	
		003	BALTIMORE	
		004	BALTIMORE CITY IND	
		007	CARROLL	
		013	HARFORD	
		014	HOWARD	

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
025	20	010	BANGOR, MAINE MAINE PENOBSCOT	0733
026	19	003 017 032 061	BATON ROUGE, LA LOUISIANA ASCENSION EAST BATON ROUGE LIVINGSTON WEST BATON ROUGE	0760
027	23	008 013	BATTLE CREEK, MICH MICHIGAN BARRY CALHOUN	0780
028	23	009	BAY CITY, MICH MICHIGAN BAY	0800
029	44	100 123 181	BEAUMONT-PORT ARTHUR-ORANGE, TEX TEXAS HARDIN JEFFERSON ORANGE	0840
030	48	037	BELLINGHAM, WASH WASHINGTON WHATCOM	0860
031	23	011	BENTON HARBOR, MICH MICHIGAN BERRIEN	0870
032	27	056	BILLINGS, MONT MONTANA YELLOWSTONE	0880
033	25	023 024 066	BILOXI-GULFPORT, MISS MISSISSIPPI HANCOCK HARRISON STONE	0920
034	33 39	003 050 058	BINGHAMTON, N.Y.-PA NEW YORK BROOME TIOGA PENNSYLVANIA SUSQUEHANNA	0960

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
035	01	037 058 059 064	BIRMINGHAM, ALA ALABAMA JEFFERSON ST CLAIR SHELBY WALKER	1000
036	35	008 030	BISMARCK, N.D NORTH DAKOTA BURLEIGH MORTON	1010
037	15	053	BLOOMINGTON, IND INDIANA MONROE	1020
038	14	057	BLOOMINGTON-NORMAL, ILL ILLINOIS MC LEAN	1040
039	13	001	BOISE CITY, IDAHO IDAHO ADA	1080
040	22	005 009 011 012 013	BOSTON-LOWELL-BROCKTON-LAWRENCE-HAVERHILL, MASS MASSACHUSETTS ESSEX MIDDLESEX WORPOLK PLYMOUTH SUFFOLK	1123
041	10	041	BRADENTON, FLA FLORIDA MANATEE	1140
042	48	018	BREMERTON, WASH WASHINGTON KITSAP	1150
043	07	001	BRIDGEPORT-STAMFORD-NORWALK-DANBURY, CONN CONNECTICUT FAIRFIELD	1163
044	44	031	BROWNSVILLE-HARLINGEN-SAN BENITO, TEX TEXAS CAMERON	1240

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
045	44	021	BRYAN-COLLEGE STATION, TEX TEXAS BRAZOS	1260
046	33	014 030	BUFFALO, N.Y NEW YORK ERIE NIAGARA	1280
047	34	001	BURLINGTON, N.C NORTH CAROLINA ALAMANCE	1300
048	46	004	BURLINGTON, VT VERMONT CHITTENDEN	1303
049	36	010 076	CANTON, OHIO OHIO CARROLL STARK	1320
050	51	013	CASPER, WY WYOMING NATRONA	1350
051	16	057	CEDAR RAPIDS, IOWA IOWA LINN	1360
052	14	010	CHAMPAIGN-URBANA-RANTOUL, ILL ILLINOIS CHAMPAIGN	1400
053	41	008 010 018	CHARLESTON-NORTH CHARLESTON, S.C SOUTH CAROLINA BERKELEY CHARLESTON DORCHESTER	1440
054	49	020 040	CHARLESTON, W. VA WEST VIRGINIA KANAWHA PUTNAM	1480

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
055	34	036 060 090	CHARLOTTE-GASTONIA, N.C NORTH CAROLINA GASTON MECKLEMBURG UNION	1520
056	47	006 096 117 312	CHARLOTTESVILLE, VA VIRGINIA ALBEMARLE FLUVANNA GREENE CHARLOTTESVILLE CITY IND	1540
057	11 43	023 041 146 033 058 077	CHATTANOOGA, TENN.-GA GEORGIA CATOOSA DADE WALKER TENNESSEE HAMILTON MARION SEQUATCHIE	1560
058	14	016 022 045 049 056 099	CHICAGO, ILL ILLINOIS COOK DU PAGE KANE LAKE MC HENRY WILL	1600
059	05	004	CHICO, CALIF CALIFORNIA BUTTE	1620
060	15 18 36	015 008 019 059 013 031 083	CINCINNATI, OHIO-KY.-IND INDIANA DEARBORN KENTUCKY BOONE CAMPBELL KENTON OHIO CLERMONT HAMILTON WARREN	1640
061	18 43	024 063	CLARKSVILLE-HOPKINSVILLE, TENN.-KY KENTUCKY CHRISTIAN TENNESSEE MONTGOMERY	1660

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
062	36	018 028 043 052	CLEVELAND, OHIO OHIO CUYAHOGA GEAUGA LAKE MEDINA	1680
063	06	021 060	COLORADO SPRINGS, COLO COLORADO EL PASO TELLER	1720
064	26	010	COLUMBIA, MO MISSOURI BOONE	1740
065	41	032 040	COLUMBIA, S.C SOUTH CAROLINA LEXINGTON RICHLAND	1760
066	01 11	057 026 106	COLUMBUS, GA.-ALA ALABAMA RUSSELL GEORGIA CHATTAHOOCHEE MUSCOGEE	1800
067	36	021 023 025 049 065	COLUMBUS, OHIO OHIO DELAWARE FAIRFIELD FRANKLIN MADISON PICKAWAY	1840
068	44	178 205	CORPUS CHRISTI, TEX TEXAS NUECES SAN PATRICIO	1880
069	21 49	001 029	CUMBERLAND, MD.-W. VA MARYLAND ALLEGANY WEST VIRGINIA MINERAL	1900

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
070	44		DALLAS-FORT WORTH, TEX TEXAS	1920
		043	COLLIN	
		057	DALLAS	
		061	DENTON	
		070	ELLIS	
		111	HOOD	
		126	JOHNSON	
		129	KAUFMAN	
		184	PARKER	
		199	ROCKWALL	
		220	TARRANT	
		249	WISE	
071	47		DANVILLE, VA VIRGINIA	1950
		213	PITTSYLVANIA	
		327	DANVILLE CITY IND	
072	14		DAVENPORT-ROCK ISLAND-HOLINE, IOWA-ILL ILLINOIS	1960
		037	HENRY	
		081	ROCK ISLAND	
	16		IOWA	
		082	SCOTT	
073	36		DAYTON, OHIO OHIO	2000
		029	GREENE	
		055	MIAMI	
		057	MONTGOMERY	
		068	PREBLE	
074	10		DAYTONA BEACH, FLA FLORIDA	2020
		064	VOLUSIA	
075	14		DECATUR, ILL ILLINOIS	2040
		058	MACON	
076	06		DENVER-BOULDER, COLO COLORADO	2080
		001	ADAMS	
		003	ARAPAHOE	
		007	BOULDER	
		016	DENVER COEXT	
		018	DOUGLAS	
		024	GILPIN	
		030	JEFFERSON	

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 SMSA CODES BASED ON 1980 CENSUS
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NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
077	16	077 091	DES MOINES, IOWA IOWA POLK WARREN	2120
078	23	044 047 050 063 074 082	DETROIT, MICH MICHIGAN LAPEER LIVINGSTON MACOMB OAKLAND ST CLAIR WAYNE	2160
079	16	031	DUBUQUE, IOWA IOWA DUBUQUE	2200
080	24 50	069 016	DULUTH-SUPERIOR, MINN.-WIS MINNESOTA ST LOUIS WISCONSIN DOUGLAS	2240
081	50	009 018	EAU CLAIRE, WIS WISCONSIN CHIPPEWA EAU CLAIRE	2290
082	44	071	EL PASO, TEX TEXAS EL PASO	2320
083	15	020	ELKHART, IND INDIANA ELKHART	2330
084	33	007	ELMIRA, N.Y NEW YORK CHEMUNG	2335
085	37	024	ENID, OKLA OKLAHOMA GARFIELD	2340
086	39	025	ERIE, PA PENNSYLVANIA ERIE	2360

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
087	38	020	EUGENE-SPRINGFIELD, OREG OREGON LANE	2400
088	15	026 065 082 087	EVANSVILLE, IND.-KY INDIANA GIBSON POSEY VANDENBURGH WARRICK	2440
	18	051	KENTUCKY HENDERSON	
089	24	014	FARGO-MOORHEAD, N. DAK.-MINN MINNESOTA CLAY	2520
	35	009	NORTH DAKOTA CASS	
090	34	026	FAYETTEVILLE, N.C NORTH CAROLINA CUMBERLAND	2560
091	04	004 072	FAYETTEVILLE-SPRINGDALE, ARK ARKANSAS BENTON WASHINGTON	2580
092	23	025 078	FLINT, MICH MICHIGAN GENESEE SHIAWASSEE	2640
093	01	017 039	FLORENCE, ALA ALABAMA COLBERT LAUDERDALE	2650
094	41	021	FLORENCE, S.C SOUTH CAROLINA FLORENCE	2655
095	06	035	PORT COLLINS, COLO COLORADO LARIMER	2670
096	10	006	PORT LAUDERDALE-HOLLYWOOD, FLA FLORIDA BROWARD	2680

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 SMSA CODES BASED ON 1980 CENSUS
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NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
097	10	036	FORT MYERS-CAPE CORAL, FLA FLORIDA LEE	2700
098	04	017 066	FORT SMITH, ARK.-OKLA ARKANSAS CRAWFORD SEBASTIAN	2720
	37	040 068	OKLAHOMA LE FLORE SEQUOYAH	
099	10	046	FORT WALTON BEACH, FLA FLORIDA OKALOOSA	2750
100	15	001 002 017 090	FORT WAYNE, IND INDIANA ADAMS ALLEN DE KALB WELLS	2760
101	05	010	FRESNO, CALIF CALIFORNIA FRESNO	2840
102	01	028	GADSDEN, ALA ALABAMA ETOWAH	2880
103	10	001	GAINESVILLE, FLA FLORIDA ALACHUA	2900
104	44	084	GALVESTON-TEXAS CITY, TEX TEXAS GALVESTON	2920
105	15	045 064	GARY-HAMMOND-EAST CHICAGO, IND INDIANA LAKE PORTER	2960
106	33	053 054	GLENS FALLS, N.Y NEW YORK WARREN WASHINGTON	2975

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
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NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
107	24		GRAND FORKS, N.D.-MINN	2985
		060	MINNESOTA	
	35		POLK	
		018	NORTH DAKOTA	
			GRAND FORKS	
108	23		GRAND RAPIDS, MICH	3000
		041	MICHIGAN	
		070	KENT	
			OTTAWA	
109	27		GREAT FALLS, MONT	3040
		007	MONTANA	
			CASCADE	
110	06		GREELEY, COLO	3060
		062	COLORADO	
			WELD	
111	50		GREEN BAY, WIS	3080
		005	WISCONSIN	
			BROWN	
112	34		GREENSBORO-WINSTON SALEM-HIGH POINT, N.C	3120
		029	NORTH CAROLINA	
		034	DAVIDSON	
		041	FORSYTH	
		076	GUILFORD	
		085	RANDOLPH	
		099	STOKES	
			YADKIN	
113	41		GREENVILLE-SPARTANBURG, S.C	3160
		023	SOUTH CAROLINA	
		039	GREENVILLE	
		042	PICKENS	
			SPARTANBURG	
114	21		HAGERSTOWN, MD	3180
		022	MARYLAND	
			WASHINGTON	
115	36		HAMILTON-MIDDLETOWN, OHIO	3200
		009	OHIO	
			BUTLER	

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NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
116	39		HARRISBURG, PA PENNSYLVANIA	3240
		021	CUMBERLAND	
		022	DAUPHIN	
		050	PERRY	
117	07		HARTFORD-NEW BRITAIN-BRISTOL, CONN CONNECTICUT	3283
		002	HARTFORD	
		004	MIDDLESEX	
		007	TOLLAND	
118	34		HICKORY, N.C NORTH CAROLINA	3290
		002	ALEXANDER	
		018	CATAWBA	
119	12		HONOLULU, HAWAII HAWAII	3320
		002	HONOLULU	
120	44		HOUSTON, TEX TEXAS	3360
		020	BRAZORIA	
		079	FORT BEND	
		101	HARRIS	
		146	LIBERTY	
		170	MONTGOMERY	
		237	WALLER	
121	18		HUNTINGTON-ASHLAND, W. VA.-KY.-OHIO KENTUCKY	3400
		010	BOYD	
		045	GREENUP	
	36		OHIO	
		044	LAWRENCE	
	49		WEST VIRGINIA	
		006	CABELL	
		050	WAYNE	
122	01		HUNTSVILLE, ALA ALABAMA	3440
		042	LIMESTONE	
		045	MADISON	
		048	MARSHALL	

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 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

MCHS SMSA	MCHS STATE	MCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
123	15		INDIANAPOLIS, IND INDIANA	3480
		006	BOONE	
		029	HAMILTON	
		030	HANCOCK	
		032	HENDRICKS	
		041	JOHNSON	
		049	MARION	
		055	MORGAN	
		073	SHELBY	
124	16		IOWA CITY, IOWA IOWA	3500
		052	JOHNSON	
125	23		JACKSON, MICH MICHIGAN	3520
		038	JACKSON	
126	25		JACKSON, MISS MISSISSIPPI	3560
		025	HINDS	
		061	RANKIN	
127	10		JACKSONVILLE, FLA FLORIDA	3600
		002	BAKER	
		010	CLAY	
		016	DUVAL-JACKSONVILLE COEYT	
		045	NASSAU	
		055	ST JOHNS	
128	34		JACKSONVILLE, N.C NORTH CAROLINA	3605
		067	ONSLOW	
129	50		JANESVILLE-BELOIT, WISC WISCONSIN	3620
		054	ROCK	
130	31		JERSEY CITY, N.J NEW JERSEY	3640
		009	HUDSON	

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 SMSA CODES BASED ON 1980 CENSUS
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NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
131	43		JOHNSON CITY-KINGSPORT-BRISTOL, TENN.-VA TENNESSEE	3660
		010	CARTER	
		037	HAWKINS	
		082	SULLIVAN	
		086	QUICOI	
		090	WASHINGTON	
	47		VIRGINIA	
		252	SCOTT	
		282	WASHINGTON	
		306	BRISTOL CITY IND	
132	39		JOHNSTOWN, PA PENNSYLVANIA	3680
		011	CAMBRIA	
		056	SOMERSET	
133	26		JOPLIN, MO MISSOURI	3710
		049	JASPER	
		073	NEWTON	
134	23		KALAMAZOO-PORTAGE, MICH MICHIGAN	3720
		039	KALAMAZOO	
		080	VAN BUREN	
135	14		KANKAKEE, ILL ILLINOIS	3740
		046	KANKAKEE	
136	17		KANSAS CITY, MO.-KANS KANSAS	3760
		046	JCHNSON	
		105	WYANDOTTE	
	26		MISSOURI	
		019	CASS	
		024	CLAY	
		048	JACKSON	
		083	PLATTE	
		089	RAY	
137	50		KENOSHA, WIS WISCONSIN	3800
		030	KENOSHA	
138	44		KILLEEN-TEMPLE, TEX TEXAS	3810
		014	BELL	
		050	CORYELL	

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCBS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

NCBS SMSA	NCBS STATE	NCBS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
139	43	001 005 047 087	KNOXVILLE, TENN TENNESSEE ANDERSON BLOUNT KNOX UNION	3840
140	15	034 080	KOKOMO, IND INDIANA HOWARD TIPTON	3850
141	50	032	LA CROSSE, WIS WISCONSIN LA CROSSE	3870
142	19	028	LAFAYETTE, LA LOUISIANA LAFAYETTE	3880
143	15	079	LAFAYETTE-WEST LAFAYETTE, IND INDIANA TIPPECANOE	3920
144	19	010	LAKE CHARLES, LA LOUISIANA CALCASIEU	3960
145	10	053	LAKELAND-WINTER HAVEN, FLA FLORIDA POLK	3980
146	39	036	LANCASTER, PA PENNSYLVANIA LANCASTER	4000
147	23	019 023 033 034	LANSING-EAST LANSING, MICH MICHIGAN CLINTON EATON INGHAM IONIA	4040
148	44	240	LAREDO, TEX TEXAS NEBB	4080

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
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NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
149	32	007	LAS CRUCES, N.M NEW MEXICO DOMA ANA	4100
150	29	002	LAS VEGAS, NEV NEVADA CLARK	4120
151	17	023	LAWRENCE, KANS KANSAS DOUGLAS	4150
152	37	016	LAWTON, OKLA OKLAHOMA COMANCHE	4200
153	20	001	LEWISTON-AUBURN, MAINE MAINE ANDROSCOGGIN	4243
154	18	009 025 034 057 105 120	LEXINGTON-FAYETTE, KY KENTUCKY BOURBON CLARK FAYETTE JESSAMINE SCOTT WOODFORD	4280
155	36	002 006 069 081	LIMA, OHIO OHIO ALLEN AUGLAIZE PUTNAM VAN WERT	4320
156	28	055	LINCOLN, NEBR NEBRASKA LANCASTER	4360
157	04	060 063	LITTLE ROCK-NORTH LITTLE ROCK, ARK ARKANSAS PULASKI SALINE	4400
158	31	013	LONG BRANCH-ASBURY PARK, N.J NEW JERSEY MONMOUTH	4410

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NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
159	44	092 102	LONGVIEW-MARSHALL, TEX TEXAS GREGG HARRISON	4420
160	36	047	LORAIN-ELYRIA, OHIO OHIO LORAIN	4440
161	05	019	LOS ANGELES-LONG BEACH, CALIF CALIFORNIA LOS ANGELES	4480
162	15	010 022	LOUISVILLE, KY.-IND INDIANA CLARK FLOYD	4520
	18	015 056 093	KENTUCKY BULLITT JEFFERSON OLDHAM	
163	44	152	LUBBOCK, TEX TEXAS LUBBOCK	4600
164	47	015 018 048 360	LYNCHBURG, VA VIRGINIA AMHERST APPOMATTOX CAMPBELL LYNCHBURG CITY IND	4640
165	11	011 076 084 143	MACON, GA GEORGIA BIBB HOUSTON JONES TWIGGS	4680
166	50	013	MADISON, WIS WISCONSIN DANE	4720
167	30	006	MANCHESTER-MASHUA, N.H NEW HAMPSHIRE HILLSBOROUGH	4763

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NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
168	36	070	MANSFIELD, OHIO OHIO RICHLAND	4800
169	44	108	MCALLEN-PHARR-EDINBURG, TEX TEXAS HIDALGO	4880
170	38	015	MEDFORD, OREG OREGON JACKSON	4890
171	10	005	MELBOURNE-TITUSVILLE-COCOA, FLA FLORIDA BREVARD	4900
172	04	018	MEMPHIS, TENN.-ARK.-MISS ARKANSAS CHITTENDEN	4920
	25	017	MISSISSIPPI DE SOTO	
	43	079	TENNESSEE SHELBY	
		084	TIPTON	
173	10	013	MIAMI, FLA FLORIDA DADE	5000
174	44	165	MIDLAND, TEX TEXAS MIDLAND	5040
175	50	041	MILWAUKEE, WIS WISCONSIN MILWAUKEE	5080
		046	OZAUKEE	
		067	WASHINGTON	
		068	WAUKESHA	

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NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
176	24		MINNEAPOLIS-ST. PAUL, MINN.-WISC	5120
			MINNESOTA	
		002	ANOKA	
		010	CARVER	
		013	CHISAGO	
		019	DAKOTA	
		027	HENNEPIN	
		062	RAMSEY	
		070	SCOTT	
		082	WASHINGTON	
		086	WRIGHT	
	50		WISCONSIN	
		056	ST CROIX	
177	01		MOBILE, ALA	5160
			ALABAMA	
		002	BALDWIN	
		049	MOBILE	
178	05		MODESTO, CALIF	5170
			CALIFORNIA	
		050	STANISLAUS	
179	19		MONROE, LA	5200
			LOUISIANA	
		037	OUACHITA	
180	01		MONTGOMERY, ALA	5240
			ALABAMA	
		001	AUTAUGA	
		026	ELMORE	
		051	MONTGOMERY	
181	15		MUNCIE, IND	5280
			INDIANA	
		018	DELAWARE	
182	23		MUSKEGON-NORTON SHORES-MUSKEGON HEIGHTS, MICH	5320
			MICHIGAN	
		061	MUSKEGON	
		064	OCEANA	

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NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
183	43		NASHVILLE-DAVIDSON, TENN TENNESSEE	5360
		011	CHEATHAM	
		019	DAVIDSON NASHVILLE COEXT	
		022	DICKSON	
		074	ROBERTSON	
		075	RUTHERFORD	
		083	SUMNER	
		094	WILLIAMSON	
		095	WILSON	
184	33		NASSAU-SUFFOLK, N.Y NEW YORK	5380
		028	NASSAU	
		048	SUFFOLK	
185	22		NEW BEDFORD-FALL RIVER, MASS MASSACHUSETTS	5403
		003	BRISTOL	
186	31		NEW BRUNSWICK-PERTH AMBOY-SAYREVILLE, N.J NEW JERSEY	5460
		012	MIDDLESEX	
187	07		NEW HAVEN-WATERBURY-MERIDEN, CONN CONNECTICUT	5483
		005	NEW HAVEN	
188	07		NEW LONDON-NORWICH, CONN CONNECTICUT	5523
		006	NEW LONDON	
189	19		NEW ORLEANS, LA LOUISIANA	5560
		026	JEFFERSON	
		036	ORLEANS-NEW ORLEANS COEXT	
		044	ST BERNARD	
		052	ST TAMMANY	
190	31		NEW YORK, N.Y.-N.J NEW JERSEY	5600
		002	BERGEN	
	33		NEW YORK	
		029	NEW YORK CITY	
		038	PUTNAM	
		040	ROCKLAND	
		056	WESTCHESTER	

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NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
191	31	007 014 018 020	NEWARK, N.J NEW JERSEY ESSEX MORRIS SOMERSET UNION	5640
192	36	045	NEWARK, OHIO OHIO LICKING	5645
193	33	034	NEWBURGH-MIDDLETOWN, N.Y NEW YORK ORANGE	5660
194	47	108 141 294 348 366 408	NEWPORT NEWS-HAMPTON, VA VIRGINIA GLOUCESTER JAMES CITY YORK HAMPTON CITY IND NEWPORT NEWS CITY IND WILLIAMSBURG CITY IND	5680
195	34 47	027 315 369 378 399 402	NORFOLK-VIRGINIA BEACH-PORTSMOUTH, VA.-N.C NORTH CAROLINA CURRITUCK VIRGINIA CHESAPEAKE CITY IND NORFOLK CITY IND PORTSMOUTH CITY IND SUFFOLK CITY IND VIRGINIA BEACH CITY IND	5720
196	39	035 040 045	NORTHEAST PENNSYLVANIA PENNSYLVANIA LACKAWANNA LUZERNE MONROE	5745
197	10	042	OCALA, FLA FLORIDA MARION	5790
198	44	068	ODESSA, TEX TEXAS ECTOR	5800

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NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
199	37	009 014 044 055 063	OKLAHOMA CITY, OKLA OKLAHOMA CANADIAN CLEVELAND MC CLAIN OKLAHOMA POTTAWATOMIE	5880
200	48	034	OLYMPIA, WASH WASHINGTON THURSTON	5910
201	16 28	078 028 077	OMAHA, NEBR.-IOWA IOWA POTTAWATTAMIE NEBRASKA DOUGLAS SARPY	5920
202	10	048 049 059	ORLANDO, FLA FLORIDA ORANGE OSCEOLA SEMINOLE	5960
203	18	030	OWENSBORO, KY KENTUCKY DAVIESS	5990
204	05	056	OXNARD-SIMI VALLEY-VENTURA, CALIF CALIFORNIA VENTURA	6000
205	10	003	PANAMA CITY, FLA FLORIDA BAY	6015
206	36 49	084 053 054	PARKERSBURG-MARIETTA, W. VA.-OHIO OHIO WASHINGTON WEST VIRGINIA WIRT WOOD	6020
207	25	030	PASCAGOULA-MOSS POINT, MISS MISSISSIPPI JACKSON	6025
208	31	016	PATERSON-CLIFTON-PASSAIC, N.J NEW JERSEY PASSAIC	6040

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NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
209	10	017 057	PENSACOLA, FLA FLORIDA ESCAMBIA SANTA ROSA	6080
210	14	072 090 102	PEORIA, ILL ILLINOIS PEORIA TAZEWELL WOODFORD	6120
211	47	081 222 321 354 375	PETERSBURG-COLONIAL HEIGHTS-HOPEWELL, VA VIRGINIA DINWIDDIE PRINCE GEORGE COLONIAL HEIGHTS CITY IND HOPEWELL CITY IND PETERSBURG CITY IND	6140
212	31	003 004 008	PHILADELPHIA, PA.-N.J NEW JERSEY BURLINGTON CAMDEN GLOUCESTER	6160
	39	009 015 023 046 051	PENNSYLVANIA BUCKS CHESTER DELAWARE MONTGOMERY PHILADELPHIA COEXT	
213	03	007	PHOENIX, ARIZ ARIZONA MARICOPA	6200
214	04	035	PINE BLUFF, ARK ARKANSAS JEFFERSON	6240
215	39	002 004 063 065	PITTSBURGH, PA PENNSYLVANIA ALLEGHENY BEAVER WASHINGTON WESTMORELAND	6280
216	22	002	PITTSFIELD, MASS MASSACHUSETTS BERKSHIRE	6323

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NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
217	20	003 012	PORTLAND, MAINE MAINE CUMBERLAND SAGADAHOC	6403
218	38 48	003 026 034 006	PORTLAND, OREG.-WASH OREGON CLACKAMAS MULTNOMAH WASHINGTON WASHINGTON CLARK	6440
219	20 30	016 008 009	PORTSMOUTH-DOVER-ROCHESTER, N.H.-MAINE MAINE YORK NEW HAMPSHIRE ROCKINGHAM STRAFFORD	6453
220	33	013	POUGHKEEPSIE, N.Y NEW YORK DUTCHESS	6460
221	40	001 002 004 005	PROVIDENCE-WARWICK-PAWTUCKET, R.I RHODE ISLAND BRISTOL KENT PROVIDENCE WASHINGTON	6483
222	45	025	PROVO-OREM, UTAH UTAH UTAH	6520
223	06	051	PUEBLO, COLO COLORADO PUEBLO	6560
224	50	052	RACINE, WIS WISCONSIN RACINE	6600
225	34	032 068 092	RALEIGH-DURHAM, N.C NORTH CAROLINA DURHAM ORANGE WAKE	6640

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NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
226	39	006	READING, PA PENNSYLVANIA BERKS	6680
227	05	045	REDDING, CALIF CALIFORNIA SHASTA	6690
228	29	016	RENO, NEV NEVADA WASHOE	6720
229	48	003 011	RICHLAND-KENNEWICK-PASCO, WASH WASHINGTON BENTON FRANKLIN	6740
230	47	057 063 111 126 129 189 216 384	RICHMOND, VA VIRGINIA CHARLES CITY CHESTERFIELD GOOCHLAND HAMOVER HENRICO NEW KENT POWHATAN RICHMOND CITY IND	6760
231	05	033 036	RIVERSIDE-SAN BERNARDINO-ONTARIO, CALIF CALIFORNIA RIVERSIDE SAN BERNARDINO	6780
232	47	036 069 240 387 390	ROANOKE, VA VIRGINIA BOTETOURT CRAIG ROANOKE ROANOKE CITY IND SALEM CITY IND	6800
233	24	055	ROCHESIER, MINN MINNESOTA OLMSTED	6820

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 SMSA CODES BASED ON 1980 CENSUS
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NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
234	33	024 026 033 035 055	ROCHESTER, N.Y NEW YORK LIVINGSTON MONROE ONTARIO ORLEANS WAYNE	6840
235	14	004 101	ROCKFORD, ILL ILLINOIS BOONE WINNEBAGO	6880
236	41	046	ROCK HILL, S.C SOUTH CAROLINA YORK	6885
237	05	031 034 057	SACRAMENTO, CALIF CALIFORNIA PLACER SACRAMENTO YOLO	6920
238	23	073	SAGINAW, MICH MICHIGAN SAGINAW	6960
239	24	005 071 073	ST. CLOUD, MINN MINNESOTA BENTON SHERBURNE STEARNS	6980
240	26	002 011	ST. JOSEPH, MO MISSOURI ANDREW BUCHANAN	7000
241	14 26	014 060 067 082 036 050 092 095 096	ST. LOUIS, MO.-ILL ILLINOIS CLINTON MADISON MONROE ST CLAIR MISSOURI FRANKLIN JEFFERSON ST CHARLES ST LOUIS ST LOUIS CITY IND	7040

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
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NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
242	38	024 027	SALEM, OREG OREGON MARION POLK	7080
243	05	027	SALINAS-SEASIDE-MONTEREY, CALIF CALIFORNIA MONTEREY	7120
244	34	013 080	SALISBURY-CONCORD, N.C NORTH CAROLINA CABARRUS ROMAN	7140
245	45	006 018 023 029	SALT LAKE CITY-OGDEN, UTAH UTAH DAVIS SALT LAKE TOOELE WEBER	7160
246	44	226	SAN ANGELO, TEX TEXAS TOM GREEN	7200
247	44	015 046 094	SAN ANTONIO, TEX TEXAS BEXAR COMAL GUADALUPE	7240
248	05	037	SAN DIEGO, CALIF CALIFORNIA SAN DIEGO	7320
249	05	001 007 021 038 041	SAN FRANCISCO-OAKLAND, CALIF CALIFORNIA ALAMEDA CONTRA COSTA MARIN SAN FRANCISCO COEXT SAN MATEO	7360
250	05	043	SAN JOSE, CALIF CALIFORNIA SANTA CLARA	7400

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 SMSA CODES BASED ON 1980 CENSUS
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NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
251	05	042	SANTA BARBARA-SANTA MARIA-LOMPOC, CALIF CALIFORNIA SANTA BARBARA	7480
252	05	044	SANTA CRUZ, CALIF CALIFORNIA SANTA CRUZ	7485
253	05	049	SANTA ROSA, CALIF CALIFORNIA SONOMA	7500
254	10	058	SARASOTA, FLA FLORIDA SARASOTA	7510
255	11	015 025 051	SAVANNAH, GA GEORGIA BRYAN CHATHAM EFFINGHAM	7520
256	48	017 031	SEATTLE-EVERETT, WASH WASHINGTON KING SNOHOMISH	7600
257	39	043	SHARON, PA PENNSYLVANIA MERCER	7610
258	50	060	SHEBOYGAN, WISC WISCONSIN SHEBOYGAN	7620
259	44	091	SHERMAN-DENISON, TEX TEXAS GRAYSON	7640
260	19	008 009 060	SHREVEPORT, LA LOUISIANA BOSSIER CADDO WEBSTER	7680
261	16 28	097 022	SIoux CITY, IOWA-NEBR IOWA WOODBURY NEBRASKA DAKOTA	7720

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NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
262	42	049	SIOUX FALLS, S. DAK SOUTH DAKOTA MINNEBHABA	7760
263	15	050 071	SOUTH BEND, IND INDIANA MARSHALL ST JOSEPH	7800
264	48	032	SPOKANE, WASH WASHINGTON SPOKANE	7840
265	14	065 084	SPRINGFIELD, ILL ILLINOIS MENAED SANGAMON	7880
266	26	022 039	SPRINGFIELD, MO MISSOURI CHRISTIAN GREENE	7920
267	36	011 012	SPRINGFIELD, OHIO OHIO CHAMPAIGN CLARK	7960
268	22	007 008	SPRINGFIELD-CHICOPEE-HOLYOKE, MASS MASSACHUSETTS HAMPDEN HAMPSHIRE	8003
269	39	014	STATE COLLEGE, PA PENNSYLVANIA CENTRE	8050
270	36 49	041 005 015	STIEUBENVILLE-WEIRTON, OHIO-W. VA OHIO JEFFERSON WEST VIRGINIA BROOKE HANCOCK	8080
271	05	039	STOCKTON, CALIF CALIFORNIA SAN JOAQUIN	8120

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
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NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
272	33	025 032 036	SYRACUSE, N.Y. NEW YORK MADISON ONONDAGA OSWEGO	8160
273	48	027	TACOMA, WASH WASHINGTON PIERCE	8200
274	10	037 065	TALLAHASSEE, FLA FLORIDA LEON WAKULLA	8240
275	10	029 051 052	TAMPA-ST. PETERSBURG, FLA FLORIDA HILLSBOROUGH PASCO PINELLAS	8280
276	15	011 077 083 084	TERRE HAUTE, IND INDIANA CLAY SULLIVAN VERMILLION VIGO	8320
277	04 44	041 046 019	TEXARKANA, TEX.-TEXARKANA, ARK ARKANSAS LITTLE RIVER MILLER TEXAS BOWIE	8360
278	23 36	058 026 048 062 087	TOLEDO, OHIO-MICH MICHIGAN MONROE OHIO FULTON LUCAS OTTAWA WOOD	8400
279	17	044 070 089	TOPEKA, KANS KANSAS JEFFERSON OSAGE SHAWNEE	8440

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MCHS SMSA	MCHS STATE	MCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
280	31	011	TRENTON, N.J NEW JERSEY MERCER	8480
281	03	010	TUCSON, ARIZ ARIZONA PIMA	8520
282	37	019 049 057 066 072 073	TULSA, OKLA OKLAHOMA CREEK MAYES OSAGE ROGERS TULSA WAGONER	8560
283	01	063	TUSCALOOSA, ALA ALABAMA TUSCALOOSA	8600
284	44	212	TYLER, TEX TEXAS SMITH	8640
285	33	021 031	UTICA-ROME, N.Y NEW YORK HERKIMER ONEIDA	8680
286	05	028 048	VALLEJO-FAIRFIELD-NAPA, CALIF CALIFORNIA NAPA SOLANO	8720
287	44	235	VICTORIA, TEX TEXAS VICTORIA	8750
288	31	006	VINELAND-MILLVILLE-BRIDGETON, N.J NEW JERSEY CUMBERLAND	8760
289	05	054	VISALIA-TULARE-PORTERVILLE, CALIF CALIFORNIA TULARE	8780

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 SMSA CODES BASED ON 1980 CENSUS
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NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
290	44	155	WACO, TEX TEXAS MC LENNAN	8800
291	09	001	WASHINGTON, D.C.-MD.-VA DIST. OF COLUMBIA DISTRICT OF COLUMBIA	8840
	21	009	MARYLAND CHARLES	
		016	MONTGOMERY	
		017	PRINCE GEORGES	
	47	021	VIRGINIA ARLINGTON	
		087	FAIRFAX	
		159	LOUDOUN	
		225	PRINCE WILLIAM	
		300	ALEXANDRIA CITY IND	
		333	FAIRFAX CITY IND	
		336	FALLS CHURCH CITY IND	
292	16	007	WATERLOO-CEDAR FALLS, IOWA IOWA BLACK HAWK	8920
293	50	037	WAUSAU, WISC WISCONSIN MARATHON	8940
294	10	050	WEST PALM BEACH-BOCA RATON, FLA FLORIDA PALM BEACH	8960
295	36	007	WHEELING, W. VA.-OHIO OHIO BELMONT	9000
	49	026	WEST VIRGINIA MARSHALL	
		035	OHIO	
296	17	008	WICHITA, KANSAS KANSAS BUTLER	9040
		087	SEDGWICK	
297	44	039	WICHITA FALLS, TEX TEXAS CLAY	9080
		243	WICHITA	
298	39	041	WILLIAMSPORT, PA PENNSYLVANIA LYCOMING	9140

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
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NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
299	08		WILMINGTON, DEL.-N.J.-MD	9160
			DELAWARE	
		002	NEW CASTLE	
		21	MARYLAND	
31	008		CRCIL	
			NEW JERSEY	
		017	SALEM	
300	34		WILMINGTON, N.C	9200
			NORTH CAROLINA	
		010	BRUNSWICK	
		065	NEW HANOVER	
301	22		WORCESTER-FITCHBURG-LEOMINSTER, MASS	9243
			MASSACHUSETTS	
		014	WORCESTER	
302	48		YAKIMA, WASH	9260
			WASHINGTON	
		039	YAKIMA	
303	39		YORK, PA	9280
			PENNSYLVANIA	
		001	ADAMS	
		067	YORK	
304	36		YOUNGSTOWN-WARREN, OHIO	9320
			OHIO	
		050	MAHONING	
		078	TRUMBULL	
305	05		YUBA CITY, CALIF	9340
			CALIFORNIA	
		051	SUTTER	
		058	YUBA	

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282 RECODE	S T	LIMITED SEX	LEN- AGE	GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
00100	1			057	I. Infectious and parasitic diseases (001-139)
00200	1			040	Intestinal infectious diseases (001-009)
00300				054	Cholera and typhoid and paratyphoid fevers (001-002)
00400				019	Shigellosis (004)
00500				076	Other salmonella infections and other food poisoning (bacterial) (003,005)
00600				017	Amebiasis (006)
00700				066	Intestinal infections due to other specified organisms (007-008)
00800				041	Ill-defined intestinal infections (009)
00900	1			022	Tuberculosis (010-018)
01000				046	Tuberculosis of respiratory system (010-012)
01100				030	Other tuberculosis (013-018)
01200	1			047	Zoonotic and other bacterial diseases (020-041)
01300				019	Brucellosis (023)
01400				018	Diphtheria (032)
01500				022	Whooping cough (033)
01600				065	Streptococcal sore throat, scarlatina, and erysipelas (034-035)

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282 RECODE	S T	LIMITED SEX	LEN- AGE	LEN- GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
01700				031	Meningococcal infection (036)
01800				015	Tetanus (037)
01900			3	018	Septicemia (038)
02000				056	All other bacterial diseases (020-022,024-031,039-041)
02100	1			024	Viral diseases (045-079)
02200				027	Acute poliomyelitis (045)
02300				016	Smallpox (050)
02400				015	Measles (055)
02500				015	Rubella (056)
02600				040	Arthropod-borne encephalitis (062-064)
02700				023	Viral hepatitis (070)
02800				064	Other viral diseases (046-049,051-054,057-061,065-066,071-079)
02900	1			058	Rickettsioses and other arthropod-borne diseases (080-088)
03000				042	Typhus and other rickettsioses (080-083)
03100				015	Malaria (084)
03200				046	All other arthropod-borne diseases (085-088)

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282 RECODE	S T	LIMITED SEX	LEN- AGE	GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
03300	1			046	Syphilis and other venereal diseases (090-099)
03400	1			020	Syphilis (090-097)
03500				033	Cardiovascular syphilis (093)
03600				023	Neurosyphilis (094)
03700				040	All other syphilis (090-091,095-097)
03800				029	Gonococcal infections (098)
03900				031	Other venereal diseases (099)
04000	1			103	Other infectious and parasitic diseases and late effects of infectious and parasitic diseases (100-139)
04100				019	Mycoses (110-118)
04200				025	Helminthiases (120-129)
04300				036	Late effects of tuberculosis (137)
04400				043	Late effects of acute poliomyelitis (138)
04500				127	All other infectious and parasitic diseases and late effects of other infectious and parasitic diseases (100-104,130-136,139)
04600	1			033	II. Neoplasms (140-239)
04700	1			089	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-208)
04800	1			064	Malignant neoplasms of lip, oral cavity, and pharynx (140-149)

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282 RECODE	S LIMITED T SEX	LEN- AGE	GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
04900			016	Of lip (140)
05000			019	Of tongue (141)
05100			026	Of pharynx (146-149.0)
05200			097	Of other and ill-defined sites within the lip, oral cavity, and pharynx (142-145, 149.1-149.9)
05300	1		066	Malignant neoplasms of digestive organs and peritoneum (150-159)
05400			022	Of esophagus (150)
05500			020	Of stomach (151)
05600			048	Of small intestine, including duodenum (152)
05700	1		018	Of colon (153)
05800			075	Hepatic and splenic flexures and transverse colon (153.0-153.1, 153.7)
05900			030	Descending colon (153.2)
06000			027	Sigmoid colon (153.3)
06100			056	Cecum, appendix, and ascending colon (153.4-153.6)
06200			048	Other and colon, unspecified (153.8-153.9)
06300			052	Of rectum, rectosigmoid junction, and anus (154)
06400	1		046	Of liver and intrahepatic bile ducts (155)

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RECODE	S	LIMITED	LEN-	CAUSE TITLE AND ICD-9 CODES INCLUDED
	T	SEX	AGE	GTH
06500			028	Liver, primary (155.0)
06600			037	Intrahepatic bile ducts (155.1)
06700			058	Liver, not specified as primary or secondary (155.2)
06800			052	Of gallbladder and extrahepatic bile ducts (156)
06900			021	Of pancreas (157)
07000			120	Of retroperitoneum, peritoneum, and other and ill-defined sites within the digestive organs and peritoneum (158-159)
07100	1		071	Malignant neoplasms of respiratory and intrathoracic organs (160-165)
07200			019	Of larynx (161)
07300			040	Of trachea, bronchus, and lung (162)
07400			107	Of all other and ill-defined sites within the respiratory system and intrathoracic organs (160,163-165)
07500	1		076	Malignant neoplasms of bone, connective tissue, skin, and breast (170-175)
07600			041	Of bone and articular cartilage (170)
07700			045	Of connective and other soft tissue (171)
07800			026	Melanoma of skin (172)
07900			043	Other malignant neoplasms of skin (173)
08000	2		026	Of female breast (174)

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282 RECODE	S T	LIMITED SEX	LEN- AGE	GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
08100	1		024		Of male breast (175)
08200	1		049		Malignant neoplasms of genital organs (179-187)
08300	2		025		Of cervix uteri (180)
08400	2		042		Of other parts of uterus (179,181-182)
08500	2		043		Of ovary and other uterine adnexa (183)
08600	2		056		Of other and unspecified female genital organs (184)
08700	1		021		Of prostate (185)
08800	1		019		Of testis (186)
08900	1		048		Of penis and other male genital organs (187)
09000	1		049		Malignant neoplasms of urinary organs (188-189)
09100			020		Of bladder (188)
09200			060		Of kidney and other and unspecified urinary organs (189)
09300	1		062		Malignant neoplasms of other and unspecified sites (190-199)
09400			016		Of eye (190)
09500			018		Of brain (191)
09600			058		Of other and unspecified parts of nervous system (192)

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282 RECODE	S T	LIMITED SEX	LEN- AGE	GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
09700				080	Of thyroid gland and other endocrine glands and related structures (193-194)
09800				048	Of all other and unspecified sites (195-199)
09900	1			070	Malignant neoplasms of lymphatic and hematopoietic tissues (200-208)
10000				043	Lymphosarcoma and reticulosarcoma (200)
10100				027	Hodgkin's disease (201)
10200				070	Other malignant neoplasms of lymphoid and histiocytic tissue (202)
10300				060	Multiple myeloma and immunoproliferative neoplasms (203)
10400	1			022	Leukemia (204-208)
10500				029	Lymphoid leukemia (204)
10600				028	Myeloid leukemia (205)
10700				030	Monocytic leukemia (206)
10800				046	Other and unspecified leukemia (207-208)
10900	1			108	Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature (210-239)
11000	1			028	Benign neoplasms (210-229)
11100		2		038	Of female genital organs (218-221)
11200				062	Of eye, brain, and other parts of nervous system (224-225)

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RECODE	S	LIMITED	LEN-	CAUSE TITLE AND ICD-9 CODES INCLUDED
T	SEX	AGE	GTH	
11300			064	Of all other and unspecified sites (210-217,222-223,226-229)
11400	1		029	Carcinoma in situ (230-234)
11500			044	Of breast and genitourinary system (233)
11600			052	Of all other and unspecified sites (230-232,234)
11700			043	Neoplasms of uncertain behavior (235-238)
11800			039	Neoplasms of unspecified nature (239)
11900	1		094	III. Endocrine, nutritional, and metabolic diseases and immunity disorders (240-279)
12000	1		073	Endocrine and metabolic diseases and immunity disorders (240-259,270-279)
12100			038	Disorders of thyroid gland (240-246)
12200			025	Diabetes mellitus (250)
12300			069	Disorders of the pituitary gland and its hypothalamic control (253)
12400			032	Diseases of thymus gland (254)
12500			035	Disorders of adrenal glands (255)
12600			025	Cystic fibrosis (277.0)
12700			017	Obesity (278.0)
12800			115	All other endocrine and metabolic diseases and immunity disorders (251-252,256-259,270-276,277.1-277.9,278.1-279)

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282 RECODE	S T	LIMITED SEX	LEN- AGE	GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
12900	1			034	Nutritional deficiencies (260-269)
13000				028	Nutritional marasmus (261)
13100				046	Other protein-calorie malnutrition (262-263)
13200				050	All other nutritional deficiencies (260,264-269)
13300	1			067	IV. Diseases of blood and blood-forming organs (280-289)
13400	1			017	Anemias (280-285)
13500				030	Deficiency anemias (280-281)
13600				029	Hemolytic anemias (282-283)
13700				023	Aplastic anemia (284)
13800				037	Other and unspecified anemias (285)
13900				046	Purpura and other hemorrhagic conditions (287)
14000				066	All other diseases of blood and blood-forming organs (286,288-289)
14100	1			040	V. Mental disorders (290-319)
14200				055	Senile and presenile organic psychotic conditions (290)
14300				025	Alcoholic psychoses (291)
14400				029	All other psychoses (292-299)

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282 RECODE	S T	LIMITED SEX	LEN- AGE	GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
14500					033 Alcohol dependence syndrome (303)
14600					021 Drug dependence (304)
14700					080 Other neurotic, personality, and nonpsychotic mental disorders (300-302,305-316)
14800					028 Mental retardation (317-319)
14900	1				072 VI. Diseases of the nervous system and sense organs (320-389)
15000	1				040 Diseases of the nervous system (320-359)
15100					022 Meningitis (320-322)
15200					027 Parkinson's disease (332)
15300					092 Other hereditary and degenerative diseases of the central nervous system (330-331,333-337)
15400					026 Multiple sclerosis (340)
15500					032 Infantile cerebral palsy (343)
15600					016 Epilepsy (345)
15700					068 Other diseases of the nervous system (323-326,341-342,344,346-359)
15800					041 Disorders of the eye and adnexa (360-379)
15900					049 Diseases of the ear and mastoid process (380-389)
16000	1				060 VII. Diseases of the circulatory system (390-459)

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282 RECODE	S T	LIMITED SEX	LEN- AGE	CAUSE TITLE AND ICD-9 CODES INCLUDED
16100	1		053	Rheumatic fever and rheumatic heart disease (390-398)
16200			033	Acute rheumatic fever (390-392)
16300	1		043	Chronic rheumatic heart disease (393-398)
16400			034	Diseases of mitral valve (394)
16500			034	Diseases of aortic valve (395)
16600			046	Diseases of mitral and aortic valves (396)
16700			059	All other chronic rheumatic heart disease (393,397-398)
16800	1		030	Hypertensive disease (401-404)
16900			030	Essential hypertension (401)
17000			034	Hypertensive heart disease (402)
17100			034	Hypertensive renal disease (403)
17200			044	Hypertensive heart and renal disease (404)
17300	1		032	Ischemic heart disease (410-414)
17400			035	Acute myocardial infarction (410)
17500			064	Other acute and subacute forms of ischemic heart disease (411)
17600			023	Angina pectoris (413)

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282 RECODE	S T	LIMITED SEX	LEN- AGE	LEN- GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
17700				087	Old myocardial infarction and other forms of chronic ischemic heart disease (412,414)
17800				043	Diseases of pulmonary circulation (415-417)
17900	1			038	Other forms of heart disease (420-429)
18000				039	Acute and subacute endocarditis (421)
18100				088	Acute pericarditis, acute myocarditis, and other diseases of pericardium (420,422-423)
18200	1			037	Other diseases of endocardium (424)
18300				034	Mitral valve disorders (424.0)
18400				034	Aortic valve disorders (424.1)
18500				051	All other diseases of endocardium (424.2-424.9)
18600				021	Heart failure (428)
18700				068	Myocarditis, unspecified and myocardial degeneration (429.0-429.1)
18800				072	All other and ill-defined forms of heart disease (425-427,429.2-429.9)
18900	1			034	Cerebrovascular diseases (430-438)
19000				031	Subarachnoid hemorrhage (430)
19100				059	Intracerebral and other intracranial hemorrhage (431-432)
19200				054	Occlusion and stenosis of precerebral arteries (433)

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282 RECODE	S T	LIMITED SEX	LEN- AGE	LEN- GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
19300				082	Cerebral thrombosis and unspecified occlusion of cerebral arteries (434.0,434.9)
19400				027	Cerebral embolism (434.1)
19500				053	Acute but ill-defined cerebrovascular disease (436)
19600				066	Other and late effects of cerebrovascular diseases (435,437-438)
19700	1			059	Diseases of arteries, arterioles, and capillaries (440-448)
19800				023	Atherosclerosis (440)
19900				023	Aortic aneurysm (441)
20000				071	All other diseases of arteries, arterioles, and capillaries (442-448)
20100	1			084	Diseases of veins and lymphatics, and other diseases of circulatory system (451-459)
20200				075	Phlebitis, thrombophlebitis, and venous embolism and thrombosis (451-453)
20300				095	Other diseases of veins and lymphatics and all other diseases of circulatory system (454-459)
20400	1			061	VIII. Diseases of the respiratory system (460-519)
20500	1			057	Diseases of the upper respiratory tract (460-465,470-478)
20600				046	Acute upper respiratory infections (460-465)
20700				053	Other diseases of upper respiratory tract (470-478)
20800	1			054	Other diseases of the respiratory system (466,480-519)

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282 RECODE	S LIMITED	LEM- T SEX AGE GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
20900		042	Acute bronchitis and bronchiolitis (466)
21000	1	021	Pneumonia (480-486)
21100		025	Viral pneumonia (480)
21200		056	Pneumococcal and other bacterial pneumonia (481-482)
21300		048	Bronchopneumonia, organism unspecified (485)
21400		061	Pneumonia due to other and unspecified organism (483,486)
21500		017	Influenza (487)
21600	1	072	Chronic obstructive pulmonary diseases and allied conditions (490-496)
21700	1	071	Bronchitis, chronic and unspecified, emphysema and asthma (490-493)
21800		057	Bronchitis, not specified as acute or chronic (490)
21900		030	Chronic bronchitis (491)
22000		021	Emphysema (492)
22100		018	Asthma (493)
22200		062	Bronchiectasis and extrinsic allergic alveolitis (494-495)
22300		063	Chronic airways obstruction, not elsewhere classified (496)
22400		073	Pneumoconioses and other lung diseases due to external agents (500-508)

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282 RECODE	S I	LIMITED SEX	LEN- AGE	GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
22500				055	Empyema and abscess of lung and mediastinum (510,513)
22600				016	Pleurisy (511)
22700				056	All other diseases of respiratory system (512,514-519)
22800	1			057	IX. Diseases of the digestive system (520-579)
22900				060	Diseases of oral cavity, salivary glands, and jaws (520-529)
23000	1			057	Diseases of other parts of the digestive system (530-579)
23100	1			041	Ulcer of stomach and duodenum (531-533)
23200				023	Gastric ulcer (531)
23300				024	Duodenal ulcer (532)
23400				040	Peptic ulcer, site unspecified (533)
23500				032	Gastritis and duodenitis (535)
23600				024	Appendicitis (540-543)
23700				095	Hernia of abdominal cavity and intestinal obstruction without mention of hernia (550-553,560)
23800				059	Regional enteritis and idiopathic proctocolitis (555-556)
23900				062	All other noninfective gastroenteritis and colitis (557-558)
24000				032	Diverticula of intestine (562)

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282 RECODE	S T	LIMITED SEX	LEN- AGE	GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
24100	1			043	Chronic liver disease and cirrhosis (571)
24200				077	Chronic liver disease and cirrhosis, specified as alcoholic (571.0-571.3)
24300				057	Chronic hepatitis and biliary cirrhosis (571.4,571.6)
24400				117	Cirrhosis of liver and other and unspecified chronic liver disease without mention of alcohol (571.5,571.8-571.9)
24500				061	Cholelithiasis and other disorders of gallbladder (574-575)
24600				082	All other diseases of digestive system (530,534,536-537,564-570,572-573,576-579)
24700	1			060	I. Diseases of the genitourinary system (580-629)
24800	1			036	Diseases of urinary system (580-599)
24900	1			056	Nephritis, nephrotic syndrome, and nephrosis (580-589)
25000				034	Acute glomerulonephritis (580)
25100				028	Nephrotic syndrome (581)
25200				140	Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified (582-583,587)
25300				120	Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause (584-586,588-589)
25400				028	Infections of kidney (590)
25500				028	Urinary calculus (592,594)
25600				056	All other diseases of urinary system (591,593,595-599)

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282 RECODE	S T	LIMITED SEX	LEN- AGE	LEN- GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
25700	1	1			041 Diseases of male genital organs (600-608)
25800			1		031 Hyperplasia of prostate (600)
25900			1		049 Other diseases of male genital organs (601-608)
26000					029 Disorders of breast (610-611)
26100			2		057 Diseases of female genital organs except breast (614-629)
26200	1	2	2	083	XI. Complications of pregnancy, childbirth, and the puerperium (630-676)
26300	1	2	2	041	Pregnancy with abortive outcome (630-638)
26400		2	2	025	Ectopic pregnancy (633)
26500		2	2	028	Spontaneous abortion (634)
26600		2	2	032	Legally induced abortion (635)
26700		2	2	034	Illegally induced abortion (636)
26800		2	2	057	Other pregnancy with abortive outcome (630-632,637-638)
26900	1	2	2	041	Direct obstetric causes (640-646,651-676)
27000		2	2	054	Hemorrhage of pregnancy and childbirth (640-641,666)
27100		2	2	040	Toxemia of pregnancy (642.4-642.9,643)
27200		2	2	024	Obstructed labor (660)

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282 RECODE	S 1	LIMITED SEX	LEN- AGE	CAUSE TITLE AND ICD-9 CODES INCLUDED
27300		2	043	Complications of the puerperium (670-676)
27400		2	077	Other direct obstetric causes (642.0-642.3,644-646,651-659,661-665,667-669)
27500		2	035	Indirect obstetric causes (647-648)
27600		2	042	Delivery in a completely normal case (650)
27700	1		070	XII. Diseases of the skin and subcutaneous tissue (680-709)
27800			052	Infections of skin and subcutaneous tissue (680-686)
27900			060	All other diseases of skin and subcutaneous tissue (690-709)
28000	1		087	XIII. Diseases of the musculoskeletal system and connective tissue (710-739)
28100			067	Rheumatoid arthritis and other inflammatory polyarthropathies (714)
28200			059	Other arthropathies and related disorders (710-712,715-719)
28300			022	Dorsopathies (720-724)
28400			040	Rheumatism, excluding the back (725-729)
28500			080	Osteopathies, chondropathies, and acquired musculoskeletal deformities (730-739)
28600	1		046	XIV. Congenital anomalies (740-759)
28700			018	Spina bifida (741)
28800			058	All other congenital anomalies of nervous system (740,742)

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282 RECODE	S T	LIMITED SEX	LEN- AGE	LEN- GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
28900					039 Congenital anomalies of heart (745-746)
29000					054 Other congenital anomalies of circulatory system (747)
29100					048 All other congenital anomalies (743-744,748-759)
29200	1				079 XV. Certain conditions originating in the perinatal period (760-779)
29300					018 Birth trauma (767)
29400					081 Intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome (768-769)
29500					070 Other conditions originating in the perinatal period (760-766,770-779)
29600	1				069 XVI. Symptoms, signs, and ill-defined conditions (780-799)
29700					043 Senility without mention of psychosis (797)
29800					067 Symptoms, signs, and other ill-defined conditions (780-796,798-799)
29900	1				093 Supplementary classification of external causes of injury and poisoning (E800-E999)
30000	1				041 Accidents and adverse effects (E800-E949)
30100	1				033 Transport accidents (E800-E848)
30200					033 Railway accidents (E800-E807)
30300	1				039 Motor vehicle accidents (E810-E825)
30400	1				049 Motor vehicle traffic accidents (E810-E819)

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282 RECODE	S T	LIMITED SEX	LEN- AGE	LEN- GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
30500				045	Involving collision with train (E810)
30600				066	Involving collision with another motor vehicle (E811-E812)
30700				050	Involving collision with pedestrian (E814)
30800				068	Involving collision with other vehicle or object (E813,E815)
30900				054	Not involving collision on highway (E816-E818)
31000				067	Motor vehicle traffic accident of unspecified nature (E819)
31100				052	Motor vehicle nontraffic accidents (E820-E825)
31200				044	Other road vehicle accidents (E826-E829)
31300				041	Water transport accidents (E830-E838)
31400				049	Air and space transport accidents (E840-E845)
31500				060	Vehicle accidents not elsewhere classifiable (E846-E848)
31600	1			034	Accidental poisoning (E850-E869)
31700				075	Accidental poisoning by drugs, medicaments, and biologicals (E850-E858)
31800				072	Accidental poisoning by other solid or liquid substances (E860-E866)
31900				056	Accidental poisoning by gases and vapors (E867-E869)
32000				091	Misadventures during medical care, abnormal reactions, and late complications (E870-E879)

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282 RECODE	S LIMITED T SEX	LEN- AGE	CAUSE TITLE AND ICD-9 CODES INCLUDED
32100	1	030	Accidental falls (E880-E888)
32200		046	Fall from one level to another (E880-E884)
32300		034	Fall on same level (E885-E886)
32400		076	Fracture, cause unspecified, and other and unspecified falls (E887-E888)
32500		049	Accidents caused by fire and flames (E890-E899)
32600	1	053	Other accidents, including late effects (E900-E929)
32700		020	Lightning (E907)
32800		045	Accidental drowning and submersion (E910)
32900		120	Inhalation and ingestion of food or other object causing obstruction of respiratory tract or suffocation (E911-E912)
33000		039	Accident caused by handgun (E922.0)
33100		074	Accidents caused by all other and unspecified firearms (E922.1-E922.9)
33200		048	Accident caused by explosive material (E923)
33300		123	Accident caused by hot substance or object, caustic or corrosive material, steam, and exposure to radiation (E924, E926)
33400		046	Accident caused by electric current (E925)
33500		103	All other accidents and late effects of accidental injury (E900-E906, E908-E909, E913-E921, E927-E929)
33600		102	Drugs, medicaments, and biological substances causing adverse effects in therapeutic use (E930-E949)

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282 RECODE	S T	LIMITED SEX	LEN- AGE	CAUSE TITLE AND ICD-9 CODES INCLUDED
33700	1		019	Suicide (E950-E959)
33800			064	Suicide by drugs, medicaments, and biologicals (E950.0-E950.5)
33900			061	Suicide by other solid or liquid substances (E950.6-E950.9)
34000			041	Suicide by gases and vapors (E951-E952)
34100			059	Suicide by hanging, strangulation, and suffocation (E953)
34200			029	Suicide by handgun (E955.0)
34300			063	Suicide by all other and unspecified firearms (E955.1-E955.4)
34400			089	Suicide by all other means and late effects of self-inflicted injury (E954,E955.5-E959)
34500	1		043	Homicide and legal intervention (E960-E978)
34600			029	Assault by handgun (E965.0)
34700			063	Assault by all other and unspecified firearms (E965.1-E965.4)
34800			051	Assault by cutting and piercing instrument (E966)
34900			127	Assault by all other means and late effects of injury purposely inflicted by other person (E960-E964,E965.5-E965.9,E967-E969)
35000			024	Legal execution (E978)
35100			091	Other legal intervention and late effects of injury due to legal intervention (E970-E977)
35200	1		075	Injury undetermined whether accidentally or purposely inflicted (E980-E989)

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282 RECODE	S T	LIMITED SEX	LEN- AGE	GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
35300				071	From poisoning by drugs, medicaments, and biologicals (E980.0-E980.5)
35400				068	From poisoning by other solid or liquid substances (E980.6-E980.9)
35500				033	From injury by handgun (E985.0)
35600				067	From injury by all other and unspecified firearms (E985.1-E985.4)
35700				141	From injury by all other means and late effects of injury, undetermined whether accidentally or purposely inflicted (E981-E984, E985.5-E989)
35800				051	Injury resulting from operations of war (E990-E999)

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72 RECODE	S T	LIMITED SEX	LEN- AGE	ICD-9 GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
010				035	Shigellosis and amebiasis (004,006)
020				045	Certain other intestinal infections (007-009)
030	1			022	Tuberculosis (010-018)
040				046	Tuberculosis of respiratory system (010-012)
050				030	Other tuberculosis (013-018)
060				020	Whooping cough (033)
070				063	Streptococcal sore throat, scarlatina, and erysipelas (034-035)
080				029	Meningococcal infection (036)
090		3		016	Septicemia (038)
100				025	Acute poliomyelitis (045)
110				013	Measles (055)
120				021	Viral hepatitis (070)
130				018	Syphilis (090-097)
140				109	All other infectious and parasitic diseases (001-003,005,020-032,037,039-041,046-054,056-066,071-088,098-139)
150	1			089	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-208)
160				064	Malignant neoplasms of lip, oral cavity, and pharynx (140-149)

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72 RECODE	S T	LIMITED SEX	LEN- AGE	LEN- GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
170				066	Malignant neoplasms of digestive organs and peritoneum (150-159)
180				071	Malignant neoplasms of respiratory and intrathoracic organs (160-165)
190				040	Malignant neoplasm of breast (174-175)
200				049	Malignant neoplasms of genital organs (179-187)
210				049	Malignant neoplasms of urinary organs (188-189)
220				074	Malignant neoplasms of all other and unspecified sites (170-173,190-199)
230				020	Leukemia (204-208)
240				076	Other malignant neoplasms of lymphatic and hematopoietic tissues (200-203)
250				108	Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature (210-239)
260				023	Diabetes mellitus (250)
270				034	Nutritional deficiencies (260-269)
280				017	Anemias (280-285)
290				020	Meningitis (320-322)
300	1			039	Major cardiovascular diseases (390-448)
310	1			041	Diseases of heart (390-398,402,404-429)
320				057	Rheumatic fever and rheumatic heart disease (390-398)

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72 RECODE	S LIMITED	LEN- T SEX AGE GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
330		036	Hypertensive heart disease (402)
340		046	Hypertensive heart and renal disease (404)
350	1	036	Ischemic heart disease (410-414)
360		039	Acute myocardial infarction (410)
370		068	Other acute and subacute forms of ischemic heart disease (411)
380		027	Angina pectoris (413)
390		091	Old myocardial infarction and other forms of chronic ischemic heart disease (412,414)
400		039	Other diseases of endocardium (424)
410		054	All other forms of heart disease (415-423,425-429)
420		054	Hypertension with or without renal disease (401,403)
430	1	036	Cerebrovascular diseases (430-438)
440		061	Intracerebral and other intracranial hemorrhage (431-432)
450		084	Cerebral thrombosis and unspecified occlusion of cerebral arteries (434.0,434.9)
460		029	Cerebral embolism (434.1)
470		076	All other and late effects of cerebrovascular diseases (430,433,435-438)
480		023	Atherosclerosis (440)

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72 RECODE	S T	LIMITED SEX	LEN- AGE	ICD-9 GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
490				067	Other diseases of arteries, arterioles, and capillaries (441-448)
500				040	Acute bronchitis and bronchiolitis (466)
510	1			033	Pneumonia and influenza (480-487)
520				021	Pneumonia (480-486)
530				017	Influenza (487)
540	1			070	Chronic obstructive pulmonary diseases and allied conditions (490-496)
550				047	Bronchitis, chronic and unspecified (490-491)
560				017	Emphysema (492)
570				014	Asthma (493)
580				078	Other chronic obstructive pulmonary diseases and allied conditions (494-496)
590				039	Ulcer of stomach and duodenum (531-533)
600				022	Appendicitis (540-543)
610				093	Hernia of abdominal cavity and intestinal obstruction without mention of hernia (550-553,560)
620				041	Chronic liver disease and cirrhosis (571)
630				059	Cholelithiasis and other disorders of gallbladder (574-575)
640	1			054	Nephritis, nephrotic syndrome, and nephrosis (580-589)

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72 RECODE	S LIMITED	T SEX	AGE	LEN- GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
650				059	Acute glomerulonephritis and nephrotic syndrome (580-581)
660				138	Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosi s, unspecified (582-583,587)
670				118	Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause (584-586, 588-589)
680				026	Infections of kidney (590)
690		1		029	Hyperplasia of prostate (600)
700		1	2	068	Complications of pregnancy, childbirth, and the puerperium (630-676)
710		2	2	043	Pregnancy with abortive outcome (630-638)
720		2	2	076	Other complications of pregnancy, childbirth, and the puerperium (640-676)
730				030	Congenital anomalies (740-759)
740		1		064	Certain conditions originating in the perinatal period (760-779)
750				097	Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome (767-769)
760				072	Other conditions originating in the perinatal period (760-766,770-779)
770				053	Symptoms, signs, and ill-defined conditions (780-799)
780				029	All other diseases (Residual)
790		1		041	Accidents and adverse effects (E800-E949)
800				037	Motor vehicle accidents (E810-E825)

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72	S	LIMITED	LEN-		
RECODE	T	SEX	AGE	GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
810				063	All other accidents and adverse effects (E800-E807,E826-E949)
820			1	019	Suicide (E950-E959)
830				043	Homicide and legal intervention (E960-E978)
840				037	All other external causes (E980-E999)

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61 RECODE	S T	LIMITED SEX	LEN- AGE	CAUSE TITLE AND ICD-9 CODES INCLUDED
010				039 Certain intestinal infections (008-009)
020				020 Whooping cough (033)
030				029 Meningococcal infection (036)
040	3			016 Septicemia (038)
050				024 Viral diseases (045-079)
060				025 Congenital syphilis (090)
070				100 Remainder of infectious and parasitic diseases (001-007,010-032,034-035,037,039-041,080-088,091-139)
080				089 Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-208)
090				108 Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature (210-239)
100				030 Diseases of thymus gland (254)
110				023 Cystic fibrosis (277.0)
120				052 Diseases of blood and blood-forming organs (280-289)
130				020 Meningitis (320-322)
140				059 Other diseases of nervous system and sense organs (323-389)
150				044 Acute upper respiratory infections (460-465)
160				042 Bronchitis and bronchiolitis (466,490-491)

ST: 1 = SUBTOTAL; LIMITED: SEX: 1 = MALES; 2 = FEMALES; AGE: 1 = 5 & OVER; 2 = 10-54; 3 = 28 DAYS & OVER; LENGTH = OF CAUSE TITLE

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61 RECODE	S T	LIMITED SEX	LEN- AGE	GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
170	1			033	Pneumonia and influenza (480-487)
180				021	Pneumonia (480-486)
190				017	Influenza (487)
200				061	Remainder of diseases of respiratory system (470-478,492-519)
210				093	Hernia of abdominal cavity and intestinal obstruction without mention of hernia (550-553,560)
220				075	Gastritis, duodenitis, and noninfective enteritis and colitis (535,555-558)
230				067	Remainder of diseases of digestive system (520-534,536-543,562-579)
240	1			030	Congenital anomalies (740-759)
250				042	Anencephalus and similar anomalies (740)
260				020	Spina bifida (741)
270				034	Congenital hydrocephalus (742.3)
280				092	Other congenital anomalies of central nervous system and eye (742.0-742.2,742.4-742.9,743)
290				041	Congenital anomalies of heart (745-746)
300				056	Other congenital anomalies of circulatory system (747)
310				050	Congenital anomalies of respiratory system (748)
320				052	Congenital anomalies of digestive system (749-751)

***** CAUSE SUBTOTALS ARE NOT IDENTIFIED IN THE MORTALITY DATA TAPES *****

61 RECODE	S T	LIMITED SEX	LEN- AGE	GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
330				056	Congenital anomalies of genitourinary system (752-753)
340				058	Congenital anomalies of musculoskeletal system (754-756)
350				025	Down's syndrome (758.0)
360				043	Other chromosomal anomalies (758.1-758.9)
370				062	All other and unspecified congenital anomalies (744,757,759)
380	1			064	Certain conditions originating in the perinatal period (760-779)
390				091	Newborn affected by maternal conditions which may be unrelated to present pregnancy (760)
400				063	Newborn affected by maternal complications of pregnancy (761)
410				074	Newborn affected by complications of placenta, cord, and membranes (762)
420				069	Newborn affected by other complications of labor and delivery (763)
430				048	Slow fetal growth and fetal malnutrition (764)
440				077	Disorders relating to short gestation and unspecified low birthweight (765)
450				065	Disorders relating to long gestation and high birthweight (766)
460				020	Birth trauma (767)
470	1			047	Intrauterine hypoxia and birth asphyxia (768)
480				051	Fetal distress in liveborn infant (768.2-768.4)

***** CAUSE SUBTOTALS ARE NOT IDENTIFIED IN THE MORTALITY DATA TAPES *****

61 RECODE	S T	LIMITED SEX	LEN- AGE	GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
490				032	Birth asphyxia (768.5-768.9)
500				037	Respiratory distress syndrome (769)
510				047	Other respiratory conditions of newborn (770)
520				051	Infections specific to the perinatal period (771)
530				027	Neonatal hemorrhage (772)
540				094	Hemolytic disease of newborn, due to isoimmunization, and other perinatal jaundice (773-774)
550				088	Syndrome of "infant of a diabetic mother" and neonatal diabetes mellitus (775.0-775.1)
560				040	Hemorrhagic disease of newborn (776.0)
570				098	All other and ill-defined conditions originating in the perinatal period (775.2-775.9,776.1-779)
580	1			053	Symptoms, signs, and ill-defined conditions (780-799)
590				038	Sudden infant death syndrome (798.0)
600				075	Symptoms, signs, and all other ill-defined conditions (780-797,798.1-799)
610	1			041	Accidents and adverse effects (E800-E949)
620				118	Inhalation and ingestion of food or other object causing obstruction of respiratory tract or suffocation (E911-E912)
630				042	Accidental mechanical suffocation (E913)
640				067	Other accidental causes and adverse effects (E800-E910, E914-E949)

ST: 1 = SUBTOTAL; LIMITED: SEX: 1 = MALES; 2 = FEMALES; AGE: 1 = 5 & OVER; 2 = 10-54; 3 = 28 DAYS & OVER; LENGTH = OF CAUSE TITLE

***** CAUSE SUBTOTALS ARE NOT IDENTIFIED IN THE MORTALITY DATA TAPES *****

61 RECODE	S T	LIMITED SEX	LEN- AGE	GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
650	1			020	Homicide (E960-E969)
660				047	Child battering and other maltreatment (E967)
670				038	Other homicide (E960-E966,E968-E969)
680				027	All other causes (Residual)

***** CAUSE SUBTOTALS ARE NOT IDENTIFIED IN THE MORTALITY DATA TAPES *****

34	S	LIMITED	LEN-		
RECODE	T	SEX	AGE	GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
010					022 Tuberculosis (010-018)
020					018 Syphilis (090-097)
030					071 Residual of infectious and parasitic diseases (001-009,020-088,098-139)
040	1				089 Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-208)
050					066 Malignant neoplasms of digestive organs and peritoneum (150-159)
060					071 Malignant neoplasms of respiratory and intrathoracic organs (160-165)
070					040 Malignant neoplasm of breast (174-175)
080					049 Malignant neoplasms of genital organs (179-187)
090					049 Malignant neoplasms of urinary organs (188-189)
100					020 Leukemia (204-208)
110					053 Other malignant neoplasms (140-149,170-173,190-203)
120					023 Diabetes mellitus (250)
130	1				039 Major cardiovascular diseases (390-448)
140	1				041 Diseases of heart (390-398,402,404-429)
150					057 Rheumatic fever and rheumatic heart disease (390-398)
160					070 Hypertensive heart disease with or without renal disease (402,404)

***** CAUSE SUBTOTALS ARE NOT IDENTIFIED IN THE MORTALITY DATA TAPES *****

34 RECODE	S T	LIMITED SEX	LEN- AGE	ICD-9 GTH	CAUSE TITLE AND ICD-9 CODES INCLUDED
170				036	Ischemic heart disease (410-414)
180				034	Other heart diseases (415-429)
190				054	Hypertension with or without renal disease (401,403)
200				036	Cerebrovascular diseases (430-438)
210				023	Atherosclerosis (440)
220				067	Other diseases of arteries, arterioles, and capillaries (441-448)
230				033	Pneumonia and influenza (480-487)
240				070	Chronic obstructive pulmonary diseases and allied conditions (490-496)
250				039	Ulcer of stomach and duodenum (531-533)
260				041	Chronic liver disease and cirrhosis (571)
270				054	Nephritis, nephrotic syndrome, and nephrosis (580-589)
280	2	2		068	Complications of pregnancy, childbirth, and the puerperium (630-676)
290				030	Congenital anomalies (740-759)
300				064	Certain conditions originating in the perinatal period (760-779)
310				053	Symptoms, signs, and ill-defined conditions (780-799)
320				029	All other diseases (Residual)

ST: 1 = SUBTOTAL; LIMITED: SEX: 1 = MALES; 2 = FEMALES; AGE: 1 = 5 & OVER; 2 = 10-54; 3 = 28 DAYS & OVER; LENGTH = OF CAUSE TITLE

***** CAUSE SUBTOTALS ARE NOT IDENTIFIED IN THE MORTALITY DATA TAPES *****

34 RECODE	S T	LIMITED SEX	LEN- LGE	CAUSE TITLE AND ICD-9 CODES INCLUDED
330				035 Motor vehicle accidents (E810-E825)
340				061 All other accidents and adverse effects (E800-E807,E826-E949)
350	1			019 Suicide (E950-E959)
360				043 Homicide and legal intervention (E960-E978)
370				037 All other external causes (E980-E999)

- 1 -
 MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
 CONTROL TOTAL TABLE 1

NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
 OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD			
	UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS
0010	1	1	-	1	0083	1	1	-	1	0171	-	-	-	
0011	-	-	-	-	0084	10	16	6	16	0172	-	8	8	
0019	-	-	-	-	0085	0	9	3	9	0173	-	-	-	
0020	2	6	4	0	0086	2	3	1	4	0174	1	1	-	
0021	-	-	-	-	0088	159	264	105	267	0175	-	-	-	
0022	1	1	-	1	0090	175	262	87	264	0176	2	6	4	
0023	-	-	-	-	0092	5	7	3	7	0177	1	2	1	
0029	-	-	-	-	0100	-	1	1	1	0178	6	26	20	
0030	29	74	45	74	0101	-	-	-	-	0180	6	6	-	
0031	39	61	22	61	0108	-	-	-	-	0188	1	1	-	
0032	6	9	6	9	0109	-	1	1	1	0189	185	282	98	
0038	-	1	1	1	0110	1	1	-	1	0200	2	2	-	
0039	14	29	15	30	0111	-	-	-	-	0201	-	-	-	
0040	-	1	1	1	0112	99	179	90	162	0202	-	-	-	
0041	1	2	1	2	0113	25	31	10	4	0203	-	-	-	
0042	-	-	-	-	0114	70	66	18	30	0204	-	-	-	
0043	1	1	-	1	0115	7	11	4	3	0205	3	3	-	
0048	1	2	1	2	0116	207	225	33	84	0208	-	-	-	
0049	12	18	6	18	0117	5	5	-	-	0209	-	-	-	
0050	1	2	1	2	0118	7	12	5	11	021	3	6	3	
0051	5	5	-	5	0119	1200	3301	2109	3618	0220	-	-	-	
0052	-	-	-	-	0120	16	45	29	25	0221	-	-	-	
0053	-	-	-	-	0121	-	4	4	4	0222	-	-	-	
0054	-	-	-	-	0122	-	1	1	1	0223	-	-	-	
0058	-	-	-	-	0123	-	3	3	3	0228	-	-	-	
0059	2	5	3	5	0128	1	6	5	3	0229	-	-	-	
0060	-	-	-	-	0130	39	73	34	67	0230	-	-	-	
0061	-	-	-	-	0131	-	-	-	-	0231	-	-	-	
0062	-	-	-	-	0138	5	15	10	15	0232	-	-	-	
0063	7	10	3	7	0139	1	2	1	2	0233	-	-	-	
0064	1	1	-	2	014	13	30	18	28	0238	-	-	-	
0065	1	1	-	1	0150	42	94	52	94	0239	-	3	3	
0066	-	-	-	-	0151	1	4	3	4	024	-	1	1	
0068	2	4	2	4	0152	-	-	-	-	025	-	-	-	
0069	11	22	11	25	0157	1	3	2	3	0260	-	-	-	
0070	-	-	-	-	0158	-	1	1	1	0261	-	-	-	
0071	2	2	-	2	0159	1	11	10	9	0269	-	-	-	
0072	-	-	-	-	0160	9	30	23	30	0270	76	111	35	
0073	-	-	-	-	0161	1	5	4	5	0271	-	-	-	
0078	-	-	-	-	0162	-	-	-	-	0272	1	3	2	
0079	-	-	-	-	0163	-	1	1	1	0278	1	1	-	
0080	4	6	2	6	0164	-	2	2	2	0279	-	-	-	
0081	-	-	-	-	0169	1	4	3	4	0300	-	1	1	
0082	-	-	-	-	0170	24	113	89	113	0301	-	-	-	

- 2 -
 MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
 CONTROL TOTAL TABLE 1

NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
 OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD			
	UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS
0302	-	-	-	-	0401	-	-	-	-	0532	3	28	25	28
0303	-	-	-	-	0402	2	6	4	6	0537	3	4	1	4
0308	-	-	-	-	0403	-	-	-	-	0538	-	-	-	-
0309	-	9	9	9	0408	42	47	5	47	0539	153	712	559	744
0310	60	111	51	109	0410	17	25	9	25	0540	-	-	-	-
0311	1	1	-	1	0411	43	133	90	133	0541	-	-	-	-
0318	-	-	-	-	0412	7	8	1	8	0542	2	9	7	9
0319	19	59	40	61	0413	7	13	6	13	0543	157	187	31	185
0320	-	-	-	-	0414	10	20	10	20	0544	-	1	1	1
0321	-	-	-	-	0415	13	28	15	28	0545	6	7	1	6
0322	-	-	-	-	0416	9	21	12	21	0546	-	-	-	-
0323	-	-	-	-	0417	30	93	63	93	0547	7	12	5	12
0328	1	1	-	-	0418	38	65	27	65	0548	-	-	-	-
0329	-	-	-	1	0419	38	54	17	66	0549	50	126	76	131
0330	1	1	-	1	0450	-	-	-	-	0550	5	7	2	4
0331	-	-	-	-	0451	2	22	20	6	0551	5	7	2	1
0338	-	-	-	-	0452	-	-	-	-	0552	-	-	-	-
0339	10	12	2	12	0459	4	48	44	64	0557	-	-	-	-
0340	5	6	1	6	0460	-	-	-	-	0558	-	-	-	-
0341	-	5	5	5	0461	142	166	24	172	0559	1	3	2	12
035	10	26	16	26	0462	19	23	4	23	0560	1	1	-	1
0360	143	151	9	150	0463	12	19	7	19	0567	-	-	-	-
0361	1	1	-	1	0468	-	-	-	-	0568	-	-	-	-
0362	192	247	55	246	0469	-	-	-	-	0569	-	3	3	3
0363	50	70	20	70	0470	1	3	2	3	0570	1	1	-	1
0364	-	1	1	1	0471	-	-	-	-	0578	2	9	7	9
0368	1	1	-	1	0478	-	-	-	-	0579	1	2	1	2
0369	-	1	1	4	0479	31	66	35	66	0600	-	-	-	-
037	28	39	11	39	048	33	37	4	37	0601	-	-	-	-
0380	89	349	260	349	0490	2	4	2	4	0609	-	-	-	-
0381	476	1848	1372	1848	0491	-	-	-	-	061	-	-	-	-
0382	90	237	147	413	0498	8	10	2	10	0620	-	-	-	-
0383	47	229	182	229	0499	171	198	27	198	0621	-	-	-	-
0384	1413	7974	6561	7974	0500	-	-	-	-	0622	4	4	-	4
0388	118	490	372	490	0501	-	-	-	-	0623	2	4	2	4
0389	7205	47357	40152	47531	0502	-	-	-	-	0624	-	-	-	-
0390	-	1	1	1	0509	-	-	-	-	0625	-	-	-	-
0391	30	53	23	43	0510	-	-	-	-	0628	-	-	-	-
0392	-	1	1	1	0511	-	-	-	-	0629	1	1	-	1
0393	-	-	-	-	0512	-	-	-	-	0630	-	-	-	-
0394	-	-	-	-	0519	-	-	-	-	0631	-	-	-	-
0398	3	13	10	13	052	78	99	21	99	0632	-	-	-	-
0399	12	29	17	42	0530	1	7	6	1	0638	-	-	-	-
0400	94	183	89	183	0531	21	65	44	42	0639	-	-	-	-

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 1

NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD			
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064	-	-	-	-	0774	-	-	-	-	0850	-	-	-	-
0650	-	-	-	-	0778	-	-	-	-	0851	-	-	-	-
0651	-	-	-	-	0779	-	1	1	1	0852	-	-	-	-
0652	-	-	-	-	0780	-	-	-	-	0853	-	-	-	-
0653	-	-	-	-	0781	-	2	2	2	0854	-	-	-	-
0654	-	-	-	-	0782	-	-	-	-	0855	-	-	-	-
0658	-	-	-	-	0783	-	1	1	1	0859	-	-	-	-
0659	-	-	-	-	0784	-	1	1	1	0860	-	-	-	-
0660	-	-	-	-	0785	52	75	23	75	0861	-	-	-	-
0661	-	-	-	-	0786	-	-	-	-	0862	1	1	-	1
0662	-	-	-	-	0787	-	-	-	-	0863	-	-	-	-
0663	-	-	-	-	0788	71	118	47	118	0864	-	-	-	-
0668	-	-	-	-	0790	-	-	-	-	0865	-	-	-	-
0669	-	-	-	-	0791	-	1	1	1	0869	-	-	-	-
0700	11	13	2	-	0792	3	4	1	4	0870	-	-	-	-
0701	101	170	69	183	0793	-	1	1	1	0871	-	-	-	-
0702	36	41	5	1	0798	5	8	3	8	0879	1	1	-	1
0703	258	389	131	429	0799	349	580	231	595	0880	-	-	-	-
0704	-	-	-	-	080	-	-	-	-	0888	-	-	-	-
0705	1	2	1	2	0810	-	-	-	-	0889	-	-	-	-
0706	52	54	2	-	0811	-	-	-	-	0900	-	-	-	-
0709	350	437	87	491	0812	-	-	-	-	0901	...	-	-	-
071	-	-	-	-	0819	-	-	-	-	0902	-	1	1	1
0720	-	-	-	-	0820	38	45	7	45	0903	-	-	-	-
0721	-	-	-	-	0821	-	-	-	-	0904	4	5	1	5
0722	-	1	1	1	0822	-	-	-	-	0905	2	4	2	4
0723	1	1	-	1	0823	-	-	-	-	0906	...	-	-	-
0727	-	1	1	1	0828	-	-	-	-	0907	-	2	2	2
0728	-	-	-	-	0829	-	-	-	-	0909	5	18	13	18
0729	1	5	4	5	0830	-	-	-	-	0910	-	-	-	-
073	-	1	1	1	0831	-	-	-	-	0911	-	-	-	-
0740	-	-	-	-	0832	-	-	-	-	0912	-	-	-	-
0741	-	-	-	-	0838	-	-	-	-	0913	-	1	1	1
0742	10	15	5	15	0839	1	1	-	1	0914	-	-	-	-
0743	-	-	-	-	0840	-	-	-	-	0915	-	-	-	-
0748	-	1	1	1	0841	-	-	-	-	0916	-	-	-	-
075	23	25	2	25	0842	-	-	-	-	0917	-	-	-	-
0760	-	-	-	-	0843	-	-	-	-	0918	-	-	-	-
0761	-	-	-	-	0844	-	-	-	-	0919	-	2	2	2
0769	-	-	-	-	0845	-	-	-	-	0920	...	-	-	-
0770	-	-	-	-	0846	-	6	6	6	0929	...	-	-	-
0771	-	-	-	-	0847	-	-	-	-	0930	7	7	-	3
0772	-	-	-	-	0848	-	-	-	-	0931	25	47	22	47
0773	-	-	-	-	0849	-	-	-	-	0932	17	22	6	10

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 1

NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD			
	UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS
0938	18	30	12	30	1031	-	-	-	-	1177	27	44	17	44
0939	3	7	5	6	1032	-	-	-	-	1178	-	-	-	-
0940	13	56	43	55	1033	-	-	-	-	1179	90	251	161	257
0941	7	32	25	32	1039	-	-	-	-	118	-	-	-	-
0942	2	10	8	10	1040	-	-	-	-	1200	-	1	1	1
0943	...	-	-	-	1048	-	-	-	-	1201	-	-	-	-
0948	12	11	2	6	1049	-	-	-	-	1202	-	-	-	-
0949	18	69	51	70	1100	-	-	-	-	1203	-	-	-	-
095	1	3	2	3	1101	-	2	2	2	1208	-	-	-	-
096	...	20	20	20	1102	-	-	-	-	1209	1	1	-	1
0970	14	79	65	87	1103	-	-	-	-	1210	-	-	-	-
0971	...	37	37	37	1104	-	2	2	2	1211	1	2	1	2
0979	6	84	78	104	1105	-	-	-	-	1212	-	-	-	-
0980	2	4	2	4	1106	-	-	-	-	1213	1	1	-	1
0981	-	1	1	1	1108	-	1	1	1	1214	-	-	-	-
0982	1	2	1	2	1109	1	2	1	2	1215	-	-	-	-
0983	-	-	-	-	1110	-	-	-	-	1216	-	-	-	-
0984	-	-	-	-	1111	-	-	-	-	1218	-	-	-	-
0985	-	-	-	-	1112	-	-	-	-	1219	-	-	-	-
0986	-	-	-	-	1113	-	-	-	-	1220	-	-	-	-
0987	-	-	-	-	1118	-	-	-	-	1221	-	-	-	-
0988	4	6	2	6	1119	1	3	2	3	1222	-	-	-	-
0990	-	-	-	-	1120	2	22	20	22	1223	-	-	-	-
0991	1	4	3	4	1121	-	4	4	4	1224	-	-	-	-
0992	1	1	-	1	1122	-	4	4	4	1225	-	-	-	-
0993	3	7	4	7	1123	2	3	1	3	1226	-	-	-	-
0994	-	-	-	-	1124	36	80	51	77	1227	-	-	-	-
0998	-	-	-	-	1125	137	296	159	296	1228	2	4	2	4
0999	-	5	5	5	1128	18	67	49	67	1229	2	2	-	3
1000	-	-	-	-	1129	38	162	124	168	1230	-	-	-	-
1008	-	-	-	-	114	59	93	34	93	1231	9	10	1	10
1009	2	3	1	3	1150	7	22	15	22	1232	-	1	1	1
101	-	-	-	-	1151	-	-	-	-	1233	-	-	-	-
1020	-	-	-	-	1159	44	73	29	73	1234	-	-	-	-
1021	-	-	-	-	1160	25	39	14	39	1235	-	-	-	-
1022	-	-	-	-	1161	-	-	-	-	1236	-	-	-	-
1023	-	-	-	-	1162	-	-	-	-	1238	-	-	-	-
1024	-	-	-	-	1170	-	-	-	-	1239	-	-	-	-
1025	-	-	-	-	1171	2	4	2	4	124	1	1	-	1
1026	-	-	-	-	1172	-	1	1	1	1250	-	-	-	-
1027	-	-	-	-	1173	79	201	122	201	1251	-	-	-	-
1028	...	-	-	-	1174	-	1	1	1	1252	-	-	-	-
1029	-	-	-	-	1175	112	221	109	221	1253	-	-	-	-
1030	-	-	-	-	1176	-	-	-	-	1254	-	-	-	-

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
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NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

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1255	-	-	-	-	1361	7	14	7	14	1448	-	-	-	-
1256	-	-	-	-	1362	4	4	-	4	1449	504	677	173	677
1257	-	-	-	-	1363	148	187	39	187	1450	72	92	20	92
1259	-	1	1	1	1364	-	-	-	-	1451	4	4	-	4
1260	-	-	-	-	1365	-	-	-	-	1452	20	39	19	39
1261	-	-	-	-	1368	1	3	2	3	1453	141	186	45	186
1262	-	-	-	-	1369	259	1314	1055	1780	1454	13	20	7	20
1263	-	-	-	-	1370	352	1326	974	1326	1455	198	260	62	260
1268	-	-	-	-	1371	1	2	1	2	1456	40	51	11	51
1269	-	-	-	-	1372	1	2	1	2	1458	4	4	-	4
1270	1	2	1	2	1373	1	4	3	4	1459	907	1107	200	1168
1271	-	-	-	-	1374	-	1	1	1	1460	626	782	156	782
1272	8	10	2	10	138	89	317	228	317	1461	61	75	14	75
1273	-	-	-	-	1390	2	4	2	4	1462	18	23	5	23
1274	-	-	-	-	1391	-	-	-	-	1463	8	11	3	11
1275	-	-	-	-	1398	34	68	34	68	1464	-	-	-	-
1276	-	-	-	-	1400	5	9	4	9	1465	-	-	-	-
1277	-	-	-	-	1401	35	53	18	53	1466	1	1	-	1
1278	-	-	-	-	1403	-	-	-	-	1467	-	-	-	-
1279	-	-	-	-	1404	-	-	-	-	1468	2	2	-	2
1280	1	2	1	2	1405	-	-	-	-	1469	411	480	69	482
1281	-	-	-	-	1406	-	-	-	-	1470	-	-	-	-
1288	-	-	-	-	1408	-	-	-	-	1471	9	9	-	9
1269	-	-	-	-	1409	113	172	59	172	1472	-	-	-	-
129	8	10	2	10	1410	206	258	53	258	1473	-	-	-	-
130	4	13	9	13	1411	-	-	-	-	1478	-	-	-	-
1310	-	-	-	-	1412	2	2	-	2	1479	576	665	89	665
1318	-	-	-	-	1413	-	-	-	-	1480	-	-	-	-
1319	-	-	-	-	1414	3	3	-	3	1481	255	307	52	307
1320	-	-	-	-	1415	-	-	-	-	1482	3	4	1	4
1321	-	2	2	2	1416	7	8	1	8	1483	2	2	-	2
1322	-	-	-	-	1418	-	1	1	1	1488	-	-	-	-
1323	-	-	-	-	1419	1656	2102	446	2103	1489	374	455	81	455
1329	-	4	4	4	1420	445	542	97	542	1490	1501	1886	385	1919
1330	-	3	3	3	1421	50	57	7	57	1491	-	-	-	-
1338	-	-	-	-	1422	-	-	-	-	1498	-	-	-	-
1339	-	-	-	-	1428	-	-	-	-	1499	1	1	-	1
1340	1	4	3	4	1429	79	91	12	91	1500	39	45	6	45
1341	-	-	-	-	1430	51	65	14	65	1501	11	12	1	12
1342	-	-	-	-	1431	78	111	33	111	1502	-	-	-	-
1348	-	-	-	-	1438	-	-	-	-	1503	34	38	4	38
1349	-	1	1	1	1439	67	89	22	90	1504	50	57	7	57
135	287	546	259	546	1440	4	7	3	7	1505	155	191	36	191
1360	-	-	-	-	1441	1	1	-	1	1508	1	1	-	1

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 MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
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1509	7695	8550	855	8555	1578	-	-	-	-	1701	96	141	45	141
1510	346	390	44	390	1579	19640	21002	1362	21009	1702	91	117	26	117
1511	9	10	1	10	1580	447	499	52	499	1703	25	33	8	33
1512	17	25	8	25	1588	51	79	28	79	1704	32	39	7	39
1513	15	22	7	22	1589	123	170	47	179	1705	1	1	-	1
1514	1	2	1	2	1590	1674	2031	357	2055	1706	104	124	20	124
1515	3	6	3	6	1591	15	25	10	25	1707	140	159	19	159
1516	1	3	2	3	1598	3	4	1	4	1708	4	5	1	5
1518	-	-	-	-	1599	622	745	123	770	1709	673	754	81	759
1519	13980	15586	1606	15588	1600	40	48	8	48	1710	64	78	14	78
1520	252	300	48	300	1601	15	22	7	22	1712	65	84	19	84
1521	80	89	9	89	1602	290	336	46	336	1713	273	310	37	310
1522	73	93	20	93	1603	49	64	15	64	1714	73	93	20	93
1523	2	2	-	2	1604	9	13	4	13	1715	153	177	24	177
1528	1	1	-	1	1605	9	10	1	10	1716	104	123	19	123
1529	317	393	76	393	1608	-	-	-	-	1717	22	26	4	26
1530	86	102	16	102	1609	72	93	21	95	1718	2	2	-	2
1531	580	704	124	704	1610	59	107	48	107	1719	1740	1916	176	1934
1532	634	787	153	787	1611	170	225	55	225	1720	2	2	-	2
1533	2700	3261	561	3280	1612	11	11	-	11	1721	3	3	-	3
1534	1942	2401	459	2401	1613	2	3	1	3	1722	21	29	8	29
1535	117	127	10	127	1618	-	-	-	-	1723	79	94	15	96
1536	1406	1690	284	1690	1619	3170	4411	1241	4425	1724	91	106	15	106
1537	86	115	27	115	1620	164	209	45	209	1725	239	251	12	251
1538	14	19	5	19	1622	219	251	32	251	1726	97	110	13	110
1539	36644	42613	5970	42739	1623	1535	1791	257	1791	1727	174	202	28	202
1540	1370	1554	184	1498	1624	92	143	51	143	1728	1	1	-	1
1541	7435	8981	1546	9037	1625	469	581	112	581	1729	3972	4303	331	4336
1542	16	18	2	18	1628	1	2	1	2	1730	11	19	8	19
1543	194	229	35	229	1629	101364	110225	8862	110270	1731	11	21	10	21
1548	46	56	10	56	1630	3	4	1	4	1732	134	258	124	258
1550	2395	2660	265	2660	1631	2	3	1	3	1733	257	565	308	579
1551	455	475	20	475	1638	-	-	-	-	1734	523	691	168	691
1552	2768	3379	611	3384	1639	352	451	99	451	1735	72	112	40	112
1560	2380	2595	215	2595	1640	103	122	19	122	1736	46	76	30	76
1561	1338	1491	153	1491	1641	43	64	21	64	1737	60	84	24	84
1562	282	335	53	335	1642	3	3	-	3	1738	-	-	-	-
1568	-	-	-	-	1643	2	3	1	3	1739	358	657	299	667
1569	421	450	29	472	1648	-	-	-	-	1740	11	20	9	20
1570	1402	1547	145	1547	1649	235	312	77	314	1741	-	-	-	-
1571	101	121	20	121	1650	2	2	-	2	1742	-	-	-	-
1572	86	120	34	120	1658	-	-	-	-	1743	-	-	-	-
1573	11	13	2	13	1659	19	19	-	19	1744	-	-	-	-
1574	79	90	11	90	1700	118	144	26	144	1745	-	-	-	-

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
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1746	1	1	-	1	1885	4	5	1	5	1946	17	22	5	22
1748	1	1	-	1	1886	-	1	1	1	1948	-	-	-	-
1749	35628	41781	6154	41781	1887	15	15	-	15	1949	6	6	-	6
175	256	311	55	311	1888	1	1	-	1	1950	830	1074	244	1339
179	3058	3742	684	3796	1889	9796	13123	3327	13123	1951	203	244	41	310
1800	46	58	12	58	1890	7417	8630	1213	8631	1952	1274	1519	245	1708
1801	-	-	-	-	1891	120	143	23	143	1953	321	386	66	458
1808	4	5	1	5	1892	296	404	108	404	1954	17	26	9	34
1809	4824	5568	745	5568	1893	149	175	26	175	1955	50	66	16	76
181	22	26	4	26	1894	-	-	-	-	1958	36	49	13	55
1820	2977	3560	583	3560	1898	-	-	-	-	1960	...	351	351	351
1821	-	-	-	-	1899	30	43	13	47	1961	...	221	221	221
1828	-	-	-	-	1900	5	6	1	6	1962	...	288	288	288
1830	10731	11576	845	11576	1901	48	73	25	73	1963	...	72	72	72
1832	159	175	16	175	1902	3	4	1	4	1965	...	65	65	65
1833	-	-	-	-	1903	2	2	-	2	1966	...	22	22	22
1834	-	-	-	-	1904	-	-	-	-	1968	...	4	4	4
1835	2	2	-	2	1905	23	32	9	32	1969	...	1639	1639	1639
1838	-	-	-	-	1906	9	10	1	10	1970	...	18342	18342	18342
1839	3	5	2	5	1907	1	2	1	2	1971	...	945	945	945
1840	380	504	124	504	1908	-	-	-	-	1972	...	1424	1424	1424
1841	14	16	2	16	1909	181	228	47	232	1973	...	306	306	306
1842	-	-	-	-	1910	574	612	38	612	1974	...	252	252	252
1843	6	9	3	9	1911	392	417	25	417	1975	...	2067	2067	2067
1844	498	638	140	640	1912	266	317	51	317	1976	...	2045	2045	2045
1848	9	11	2	11	1913	232	318	86	318	1977	...	25789	25789	25789
1849	50	62	12	62	1914	44	64	20	64	1978	...	1884	1884	1884
185	22881	32166	9285	32166	1915	51	60	9	60	1980	...	612	612	612
1860	1	1	-	1	1916	239	259	20	259	1981	...	804	804	804
1869	500	579	79	579	1917	188	209	21	209	1982	...	805	805	805
1871	-	-	-	-	1918	57	60	3	60	1983	...	18391	18391	18391
1872	-	1	1	1	1919	6994	7474	481	7489	1984	...	1038	1038	1038
1873	-	-	-	-	1920	21	29	8	29	1985	...	13951	13951	13951
1874	223	309	86	309	1921	86	117	31	117	1986	...	243	243	243
1875	1	1	-	1	1922	101	125	24	125	1987	...	540	540	540
1876	4	4	-	4	1923	1	1	-	1	1988	...	13099	13099	13099
1877	12	15	3	15	1928	-	-	-	-	1990	3296	52849	49553	52849
1878	6	6	-	6	1929	54	70	16	70	1991	23576	66722	43150	59163
1879	19	28	9	28	193	936	1170	234	1170	2000	2698	3096	398	3096
1880	-	-	-	-	1940	531	596	65	596	2001	2196	2644	448	2644
1881	-	1	1	1	1941	13	18	5	18	2002	111	118	7	118
1882	-	-	-	-	1943	41	49	8	49	2008	246	281	35	281
1883	-	-	-	-	1944	23	29	6	29	2010	-	-	-	-
1884	-	-	-	-	1945	6	6	-	6	2011	1	1	-	1

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 MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
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2012	4	6	2	6	2101	-	1	1	1	2155	-	1	1	1
2014	4	5	1	5	2102	6	14	8	14	2156	1	2	1	2
2015	23	26	3	26	2103	-	-	-	-	2157	1	1	-	1
2016	25	26	1	26	2104	-	2	2	2	2158	-	-	-	-
2017	28	30	2	30	2105	-	-	-	-	2159	19	40	21	40
2019	1979	2558	579	2563	2106	-	-	-	-	2160	-	-	-	-
2020	244	299	55	299	2107	-	2	2	2	2161	-	-	-	-
2021	154	223	70	223	2108	-	-	-	-	2162	1	1	-	1
2022	14	22	8	22	2109	-	2	2	2	2163	-	-	-	-
2023	72	76	4	76	2110	-	5	5	5	2164	-	-	-	-
2024	140	179	39	179	2111	25	65	40	65	2165	2	2	-	2
2025	3	5	2	5	2112	4	13	9	13	2166	1	3	2	3
2026	1	1	-	1	2113	43	235	192	235	2167	-	1	1	1
2028	6823	8405	1583	8457	2114	1	13	12	13	2168	-	-	-	-
2029	59	74	15	78	2115	11	19	8	19	2169	23	33	10	33
2030	6552	8068	1516	8068	2116	9	12	3	12	217	-	5	5	5
2031	35	60	25	60	2117	20	46	26	46	218	27	130	103	130
2038	26	34	8	34	2118	7	9	2	9	2190	1	1	-	1
2040	1439	1570	131	1593	2119	4	7	3	8	2191	-	1	1	1
2041	2852	4763	1911	4763	2120	4	8	4	8	2198	-	-	-	-
2042	3	4	1	4	2121	1	6	5	6	2199	4	12	8	12
2048	3	3	-	3	2122	3	3	-	3	220	17	59	42	59
2049	455	689	234	692	2123	13	27	14	27	2210	-	2	2	2
2050	4921	5304	383	5418	2124	1	2	1	2	2211	-	-	-	-
2051	2048	2485	437	2485	2125	3	5	2	5	2212	-	-	-	-
2052	49	59	10	59	2126	24	45	21	45	2218	1	1	-	1
2053	8	18	10	18	2127	29	54	25	54	2219	-	-	-	-
2058	6	9	3	9	2128	-	-	-	-	2220	-	-	-	-
2059	478	585	107	588	2129	-	-	-	-	2221	-	-	-	-
2060	285	303	18	303	2130	2	5	3	5	2222	-	6	6	6
2061	26	38	12	38	2131	3	7	4	7	2223	-	-	-	-
2062	4	5	1	5	2132	1	2	1	2	2224	-	-	-	-
2068	2	2	-	2	2133	-	-	-	-	2228	-	-	-	-
2069	64	90	26	90	2134	-	-	-	-	2229	-	-	-	-
2070	231	283	52	283	2135	-	-	-	-	2230	5	13	8	13
2071	-	-	-	-	2136	1	3	2	3	2231	-	-	-	-
2072	9	15	6	15	2137	1	1	-	1	2232	-	-	-	-
2078	85	101	16	101	2138	-	-	-	-	2233	2	6	4	6
2080	1930	2097	167	2184	2139	1	4	3	4	2238	-	1	1	1
2081	158	268	110	276	214	11	41	30	41	2239	-	-	-	-
2082	17	24	7	24	2150	-	2	2	2	2240	-	-	-	-
2088	79	94	15	96	2152	-	1	1	1	2241	-	-	-	-
2089	1381	1949	568	2155	2153	1	2	1	2	2242	-	-	-	-
2100	-	-	-	-	2154	-	3	3	3	2243	-	-	-	-

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2244	-	-	-	-	2322	-	-	-	-	2375	34	41	7	41
2245	-	-	-	-	2323	-	-	-	-	2376	2	3	1	3
2246	-	-	-	-	2324	-	-	-	-	2377	53	237	184	237
2247	-	-	-	-	2325	-	1	1	1	2379	1	2	1	2
2248	-	-	-	-	2326	-	-	-	-	2380	9	19	10	19
2249	-	-	-	-	2327	-	1	1	1	2381	24	34	10	34
2250	105	144	39	144	2328	-	-	-	-	2382	1	2	1	2
2251	81	108	27	108	2329	-	7	7	7	2383	6	11	5	11
2252	680	1101	421	1101	2330	2	3	1	3	2384	351	1213	862	1213
2253	6	10	4	10	2331	2	12	10	12	2385	-	-	-	-
2254	1	11	10	11	2332	-	2	2	2	2386	16	46	30	46
2258	-	1	1	1	2333	1	1	-	2	2387	488	893	405	893
2259	6	13	7	15	2334	-	-	-	-	2388	13	19	6	19
226	6	44	38	44	2335	-	-	-	-	2389	39	83	44	84
2270	53	138	85	138	2336	-	-	-	-	2390	320	689	369	715
2271	18	54	36	54	2337	1	6	5	6	2391	320	721	401	728
2273	124	226	102	226	2339	-	1	1	1	2392	14	61	47	62
2274	1	2	1	2	2340	-	-	-	-	2393	1	41	40	41
2275	-	-	-	-	2348	-	-	-	-	2394	34	168	134	171
2276	1	1	-	1	2349	-	2	2	2	2395	75	217	142	221
2278	-	-	-	-	2350	-	-	-	-	2396	2208	2756	550	2763
2279	-	-	-	-	2351	1	3	2	3	2397	148	318	170	322
2280	39	105	66	105	2352	57	151	94	151	2398	205	492	287	493
2281	42	100	58	100	2353	8	15	7	15	2399	91	199	108	391
2290	-	2	2	2	2354	5	8	3	8	2400	-	1	1	1
2298	9	16	7	16	2355	8	12	4	13	2409	31	204	173	219
2299	3	25	22	26	2356	-	1	1	1	2410	1	36	35	36
2300	1	-	-	-	2357	13	24	11	24	2411	-	31	31	33
2301	1	2	1	2	2358	7	8	1	8	2419	7	87	80	89
2302	1	1	-	1	2359	-	-	-	-	2420	19	79	60	67
2303	1	4	3	4	2360	1	2	1	2	2421	-	2	2	2
2304	-	1	1	1	2361	-	1	1	1	2422	1	7	6	5
2305	-	-	-	-	2362	5	13	8	13	2423	-	14	14	12
2306	-	-	-	-	2363	-	-	-	-	2424	1	3	2	3
2307	-	-	-	-	2364	1	1	-	1	2428	-	-	-	-
2308	-	-	-	-	2365	-	-	-	-	2429	158	677	519	700
2309	-	-	-	-	2366	-	-	-	-	243	12	29	17	29
2310	-	1	1	1	2367	4	18	14	18	2440	...	14	14	14
2311	-	-	-	-	2369	9	15	6	15	2441	1	1	-	1
2312	1	2	1	2	2370	77	104	27	104	2442	-	2	2	2
2318	-	-	-	-	2371	13	19	6	19	2443	-	1	1	1
2319	-	-	-	-	2372	1	2	1	2	2448	-	1	1	1
2320	-	-	-	-	2373	10	17	7	17	2449	614	4841	4227	4842
2321	-	-	-	-	2374	-	11	11	11	2450	3	7	4	7

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 1

NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

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2451	-	1	1	1	2541	1	2	1	2	2641	-	-	-	-
2452	8	29	21	29	2548	3	8	5	8	2642	-	-	-	-
2453	-	2	2	2	2549	1	4	3	4	2643	-	-	-	-
2454	-	-	-	-	2550	31	242	211	242	2644	-	-	-	-
2458	4	16	12	16	2551	6	22	16	22	2645	-	-	-	-
2459	2	23	21	25	2552	2	3	1	3	2646	-	-	-	-
2460	-	-	-	-	2553	3	30	27	30	2647	-	-	-	-
2461	1	2	1	2	2554	194	1075	881	1076	2648	-	-	-	-
2462	1	4	3	4	2555	-	9	9	9	2649	-	-	-	-
2463	-	5	5	5	2556	2	4	2	4	2650	2	8	6	8
2468	2	17	15	17	2558	13	95	82	95	2651	11	85	74	88
2469	22	97	75	109	2559	4	32	28	34	2652	4	9	5	9
2500	26663	120826	94180	133447	2560	-	1	1	1	2660	-	-	-	-
2501	1772	2913	1143	1789	2561	-	-	-	-	2661	-	-	-	2
2502	1240	2022	783	1163	2562	-	-	-	-	2662	4	52	48	71
2503	2034	3663	1632	1233	2563	-	2	2	2	2669	-	-	-	1
2504	126	413	287	173	2564	-	4	4	4	267	4	21	17	21
2505	221	524	303	213	2568	-	-	-	-	2680	2	7	5	7
2506	2029	4836	2808	334	2569	-	-	-	-	2681	-	1	1	1
2507	675	1556	885	46	2570	-	-	-	-	2682	7	36	29	38
2509	91	120	30	124	2571	-	-	-	-	2689	-	1	1	1
2510	31	89	59	143	2572	1	8	7	8	2690	1	11	10	12
2511	2	8	6	8	2578	-	-	-	-	2691	-	-	-	-
2512	136	943	807	969	2579	-	-	-	-	2692	5	26	21	27
2513	...	-	-	-	2580	-	2	2	2	2693	1	4	3	5
2514	-	-	-	-	2581	-	1	1	1	2698	-	8	8	8
2515	21	41	20	41	2588	1	2	1	2	2699	48	381	333	421
2518	1	31	30	31	2589	2	10	8	10	2700	9	15	6	15
2519	2	5	3	6	2590	-	-	-	-	2701	-	3	3	3
2520	77	323	246	323	2591	-	-	-	-	2702	13	19	6	19
2521	10	110	100	110	2592	18	40	22	40	2703	3	5	2	5
2528	1	2	1	2	2593	-	7	7	7	2704	1	1	-	1
2529	5	21	16	21	2594	59	116	57	116	2705	-	-	-	-
2530	10	69	59	69	2598	10	23	13	23	2706	26	40	14	40
2531	1	1	-	1	2599	8	19	11	27	2707	10	17	7	17
2532	59	295	236	295	260	21	49	28	51	2708	5	5	-	5
2533	-	4	4	4	261	293	2194	1913	2297	2709	2	2	-	4
2534	-	1	1	1	262	12	32	21	26	2710	29	48	19	49
2535	17	161	144	161	2630	-	5	5	6	2711	-	3	3	3
2536	47	371	324	371	2631	-	2	2	2	2712	-	1	1	1
2537	-	3	3	3	2632	-	-	-	-	2713	-	45	45	45
2538	8	27	19	27	2638	3	5	2	5	2714	2	7	5	7
2539	5	22	17	24	2639	1946	20264	18319	20875	2718	7	9	2	9
2540	6	12	6	12	2640	-	-	-	-	2719	1	4	3	4

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 1

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2720	81	284	203	301	2778	43	65	22	65	2860	42	93	51	94
2721	15	89	75	106	2779	234	1243	1009	1451	2861	3	10	7	10
2722	2	32	30	15	2780	1120	8330	7210	8330	2862	-	4	4	4
2723	2	5	3	5	2781	1	1	-	1	2863	49	202	153	202
2724	189	736	547	741	2782	1	2	1	2	2864	5	18	13	18
2725	-	7	7	7	2783	2	2	-	2	2865	5	10	5	10
2726	2	2	-	2	2784	-	-	-	-	2866	528	3211	2683	3211
2727	40	63	23	63	2788	67	170	103	170	2867	-	3	3	3
2728	1	8	7	8	2790	24	66	42	66	2869	231	1187	956	1201
2729	5	12	7	12	2791	6	15	9	15	2870	20	54	34	54
2730	2	7	5	7	2792	22	38	16	38	2871	8	22	14	22
2731	16	69	53	69	2793	74	211	137	211	2872	16	63	47	66
2732	63	129	66	129	2794	27	48	21	48	2873	254	516	262	516
2733	179	328	149	328	2798	3	7	4	7	2874	10	43	33	43
2738	112	820	708	820	2799	5	9	4	9	2875	313	2858	2545	2875
2739	3	10	7	10	280	88	1389	1301	1324	2878	1	5	4	5
2740	33	384	351	328	2810	104	1539	1435	1539	2879	65	491	426	576
2741	24	42	26	36	2811	-	8	8	7	2880	264	1671	1407	1671
2748	-	14	14	1	2812	14	168	154	168	2881	16	45	29	45
2749	72	1473	1402	1553	2813	10	19	9	19	2882	5	6	1	6
2750	131	316	185	323	2814	2	4	2	3	2883	18	41	23	42
2751	20	28	8	28	2818	10	155	145	5	2888	19	152	133	152
2752	-	13	13	13	2819	66	377	315	361	2889	1	1	-	1
2753	9	25	16	25	2820	9	28	19	28	2890	9	126	117	126
2754	95	3037	2942	3037	2821	-	2	2	2	2891	1	4	3	4
2758	-	-	-	-	2822	-	5	5	4	2892	6	22	16	22
2759	-	1	1	1	2823	-	-	-	-	2893	9	29	20	29
2760	126	434	308	434	2824	35	111	76	111	2894	30	238	208	238
2761	109	790	681	790	2825	7	33	26	38	2895	107	737	630	738
2762	710	6025	5317	7209	2826	300	449	149	451	2896	3	7	4	7
2763	17	163	146	163	2827	3	12	9	13	2897	5	7	2	7
2764	-	-	-	-	2828	-	1	1	1	2898	1012	2289	1277	2317
2765	2057	17443	15386	17443	2829	150	574	424	586	2899	83	413	330	593
2766	28	173	145	173	2830	89	262	173	262	2900	1402	7299	5897	7300
2767	141	2237	2096	2237	2831	31	120	89	120	2901	149	442	296	435
2768	80	754	674	754	2832	10	21	11	21	2902	52	444	393	275
2769	274	3019	2745	3982	2839	25	62	37	64	2903	1	4	3	-
2770	543	581	38	581	2840	22	49	27	27	2904	105	455	351	74
2771	9	34	25	34	2848	273	1746	1473	1777	2908	-	-	-	-
2772	1	3	2	3	2849	838	1587	749	1643	2909	4	11	8	4
2773	378	671	293	671	2850	152	428	276	421	2910	253	374	153	439
2774	9	45	36	45	2851	19	27	9	10	2911	8	6	2	4
2775	48	73	25	73	2858	43	168	125	165	2912	46	13	10	11
2776	96	120	24	120	2859	938	19021	18084	19506	2913	-	2	2	2

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 1

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2914	-	-	-	-	2983	2	2	-	2	3045	-	-	-	-
2915	-	-	-	-	2984	-	1	1	1	3046	9	40	31	40
2918	133	186	70	240	2988	5	21	16	21	3047	1	1	-	1
2919	14	44	35	15	2989	427	2171	1744	2274	3048	-	-	-	-
2920	3	9	6	9	2990	-	3	3	3	3049	604	822	218	822
2921	-	-	-	-	2991	-	-	-	-	3050	889	2621	1732	4356
2922	-	1	1	1	2998	-	-	-	-	3051	46	1546	1500	2036
2928	-	2	2	2	2999	1	2	1	2	3052	1	2	1	2
2929	1	2	1	2	3000	8	219	211	219	3053	-	2	2	2
2930	-	-	-	-	3001	9	28	19	28	3054	2	7	5	7
2931	-	-	-	-	3002	-	4	4	4	3055	1	9	8	9
2938	1	5	4	5	3003	-	2	2	2	3056	1	5	4	5
2939	1	29	28	29	3004	37	624	587	624	3057	1	4	3	4
2940	11	140	129	140	3005	1	4	3	4	3058	-	-	-	-
2948	-	2	2	2	3006	-	-	-	-	3059	167	455	288	477
2949	30	298	269	3264	3007	-	3	3	3	3060	-	-	-	-
2950	6	45	39	45	3008	1	5	4	5	3061	1	5	4	5
2951	1	91	90	91	3009	10	299	289	311	3062	23	211	188	211
2952	26	126	100	126	3010	-	12	12	12	3063	-	1	1	1
2953	22	395	373	395	3011	-	-	-	-	3064	1	14	13	14
2954	1	1	-	1	3012	-	7	7	7	3065	-	-	-	-
2955	-	-	-	-	3013	-	5	5	5	3066	-	-	-	-
2956	43	558	515	558	3014	-	1	1	1	3067	-	-	-	-
2957	1	16	15	16	3015	-	-	-	-	3068	-	-	-	-
2958	4	10	6	10	3016	1	3	2	3	3069	-	1	1	1
2959	61	1032	971	1037	3017	-	2	2	2	3070	-	1	1	1
2960	2	22	20	22	3018	-	2	2	2	3071	89	199	110	199
2961	33	358	325	358	3019	1	22	21	23	3072	-	3	3	3
2962	-	1	1	1	3020	-	-	-	-	3073	-	-	-	-
2963	-	-	-	-	3021	-	-	-	-	3074	-	-	-	-
2964	-	-	-	-	3022	-	-	-	-	3075	37	152	115	152
2965	-	9	9	9	3023	-	1	1	1	3076	-	-	-	-
2966	12	195	183	195	3024	-	-	-	-	3077	-	-	-	-
2968	-	1	1	1	3025	-	-	-	-	3078	-	2	2	2
2969	1	12	11	12	3026	-	-	-	-	3079	36	121	85	140
2970	-	-	-	-	3027	-	-	-	-	3080	-	2	2	2
2971	1	42	41	42	3028	-	1	1	1	3081	-	-	-	-
2972	-	11	11	11	3029	1	2	1	2	3082	-	-	-	-
2973	-	-	-	-	303	4350	12344	7994	18130	3083	1	3	2	3
2978	-	-	-	-	3040	11	30	19	30	3084	-	-	-	-
2979	6	49	43	49	3041	2	5	3	5	3089	31	128	97	128
2980	2	16	14	16	3042	2	4	2	4	3090	2	18	16	18
2981	-	3	3	3	3043	-	1	1	1	3091	-	-	-	-
2982	1	9	8	9	3044	-	-	-	-	3092	-	1	1	1

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 1

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3093	-	-	-	-	3203	28	81	53	81	3350	136	151	15	151
3094	-	-	-	-	3208	50	125	75	125	3351	17	31	14	31
3098	-	-	-	-	3209	269	518	249	521	3352	2728	3212	484	3214
3099	-	2	2	2	3220	1	3	2	3	3358	-	1	1	1
3100	2	4	2	4	3221	-	1	1	1	3359	7	9	2	9
3101	-	11	11	11	3222	12	18	6	18	3360	33	65	32	65
3102	13	47	34	49	3229	463	1470	1007	1499	3361	21	95	74	95
3108	2	12	10	12	3235	-	-	-	-	3368	33	99	66	103
3109	4153	35659	31506	35661	3238	5	9	4	9	3369	61	214	153	685
311	217	2438	2221	2445	3239	265	693	428	757	3370	1	7	6	7
3120	-	1	1	1	3240	183	461	278	461	3379	5	24	19	35
3121	-	-	-	-	3241	9	20	11	20	340	1435	2455	1020	2455
3122	-	1	1	1	3249	31	67	36	69	3410	3	4	1	4
3123	-	-	-	-	325	17	50	33	50	3411	4	8	4	8
3128	-	2	2	2	326	46	78	32	78	3418	4	9	5	9
3129	-	13	13	13	3300	59	69	10	69	3419	171	509	338	523
3130	-	-	-	-	3301	30	34	4	34	3420	-	8	8	8
3131	-	-	-	-	3308	11	12	1	12	3421	1	33	32	37
3132	-	-	-	-	3309	7	9	2	10	3429	258	13464	13206	14596
3133	-	-	-	-	3310	1314	2594	1280	2594	3430	8	21	13	16
3138	-	-	-	-	3311	13	34	21	34	3431	1	3	2	3
3139	-	-	-	-	3312	84	264	180	245	3432	45	93	48	47
3140	-	1	1	1	3313	15	40	25	40	3433	-	2	2	-
3141	-	-	-	-	3314	586	1787	1205	1823	3434	-	-	-	-
3142	-	-	-	-	3318	224	291	69	293	3438	-	-	-	-
3148	-	-	-	-	3319	986	3863	2877	4190	3439	568	1051	483	1111
3149	-	3	3	3	3320	3769	13831	10062	13840	3440	169	1134	965	1182
3150	-	-	-	-	3321	1	15	14	15	3441	141	1387	1246	1401
3151	-	-	-	-	3330	77	127	50	118	3442	-	29	29	30
3152	-	2	2	2	3331	3	29	26	29	3443	5	64	59	69
3153	-	-	-	-	3332	9	23	14	23	3444	2	41	39	41
3154	1	29	28	29	3333	-	-	-	-	3445	-	5	5	6
3155	-	-	-	-	3334	299	485	186	485	3446	83	521	438	522
3158	-	-	-	-	3335	9	41	32	41	3448	175	1729	1554	1729
3159	3	16	13	16	3336	6	6	-	6	3449	50	891	841	979
316	-	-	-	-	3337	2	5	3	5	3450	5	27	22	27
317	-	25	25	25	3338	4	40	36	40	3451	388	838	450	838
3180	5	28	23	28	3339	14	28	14	28	3452	-	2	2	2
3181	104	371	268	371	3340	42	67	25	67	3453	458	771	315	770
3182	52	304	252	304	3341	1	8	7	8	3454	5	8	4	6
319	225	1617	1392	1622	3342	19	33	14	33	3455	5	21	16	21
3200	229	271	42	271	3343	15	46	31	46	3456	2	4	2	4
3201	270	488	218	488	3348	27	46	19	46	3457	1	3	2	3
3202	93	161	68	161	3349	76	192	116	195	3458	-	1	1	1

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 1

NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	UC	RECORD COUNT BY CODE FIELD			ICD-9 CODE	UC	RECORD COUNT BY CODE FIELD		
	TOTAL MENTION	RECORD AXIS	SECOND- ARY	ENTITY AXIS			TOTAL MENTION	RECORD AXIS	SECOND- ARY			ENTITY AXIS	TOTAL MENTION	RECORD AXIS
3459	829	1915	1086	2000	3539	-	-	-	-	3601	-	-	-	-
3460	-	-	-	-	3540	-	4	4	4	3602	-	-	-	-
3461	-	-	-	-	3541	-	1	1	1	3603	-	-	-	-
3462	-	1	1	1	3542	-	2	2	2	3604	-	6	6	6
3468	-	-	-	-	3543	-	1	1	1	3605	-	-	-	-
3469	-	31	31	31	3544	-	2	2	2	3606	-	-	-	-
347	3	34	31	34	3545	-	8	8	8	3608	1	10	9	10
3480	33	82	49	82	3548	2	11	9	11	3609	-	-	-	-
3481	1073	11105	10032	11045	3549	-	1	1	1	3610	-	-	-	-
3482	48	1295	1247	1295	3550	-	3	3	3	3611	-	1	1	1
3483	350	2127	1777	2199	3551	1	1	-	1	3612	-	-	-	-
3484	70	2159	2089	2159	3552	1	2	1	2	3613	-	-	-	-
3485	239	3841	3602	3841	3553	-	3	3	3	3618	-	-	-	-
3488	145	1101	956	1103	3554	-	-	-	-	3619	1	20	19	20
3489	412	2110	1698	3382	3555	-	-	-	-	3621	-	11	11	142
3490	2	3	1	3	3556	-	-	-	-	3622	-	5	5	5
3491	2	3	1	3	3557	-	1	1	1	3623	-	19	19	19
3492	3	9	6	9	3558	-	2	2	2	3624	-	-	-	-
3498	140	421	281	421	3559	23	143	124	319	3625	3	32	29	32
3499	66	159	93	229	3560	1	1	-	1	3626	1	18	17	18
3501	5	86	81	88	3561	16	52	36	52	3627	1	19	18	19
3502	-	-	-	-	3562	2	2	-	2	3628	-	2	2	9
3508	-	-	-	-	3563	1	1	-	1	3629	-	5	5	5
3509	-	3	3	3	3564	1	2	1	2	3630	-	-	-	-
3510	1	85	84	85	3568	67	103	36	103	3631	-	-	-	-
3511	-	-	-	-	3569	42	248	207	441	3632	-	8	8	19
3518	-	7	7	7	3570	168	297	129	297	3633	-	1	1	1
3519	-	-	-	-	3575	4	11	9	11	3634	-	1	1	1
3520	-	-	-	-	3576	1	1	-	1	3635	-	-	-	-
3521	-	-	-	-	3577	-	-	-	-	3636	-	-	-	-
3522	4	5	1	5	3578	1	1	-	1	3637	-	1	1	1
3523	3	8	5	8	3579	11	61	50	77	3638	-	-	-	-
3524	-	-	-	-	3580	215	490	275	490	3639	-	-	-	-
3525	-	-	-	-	3582	-	1	1	1	3640	-	-	-	-
3526	6	9	3	9	3588	9	15	6	15	3641	-	1	1	1
3529	12	31	19	32	3589	84	138	54	139	3642	-	-	-	-
3530	1	14	13	14	3590	23	28	5	28	3643	-	6	6	6
3531	-	2	2	2	3591	589	826	237	830	3644	-	2	2	2
3532	1	2	1	2	3592	94	152	58	152	3645	-	-	-	-
3533	-	-	-	-	3593	1	1	-	1	3646	-	-	-	-
3534	-	1	1	1	3594	11	32	21	32	3647	-	2	2	2
3535	-	-	-	-	3598	15	24	9	24	3648	-	1	1	1
3536	-	-	-	-	3599	60	197	137	200	3649	-	-	-	-
3538	-	-	-	-	3600	2	27	25	27	3650	-	1	1	1

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 MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
 CONTROL TOTAL TABLE 1

NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
 OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD			
	UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS
3651	-	19	19	19	3704	-	1	1	1	3755	-	-	-	
3652	-	11	11	11	3705	-	1	1	1	3756	-	-	-	
3653	-	-	-	-	3706	-	-	-	-	3758	-	-	-	
3654	-	-	-	-	3708	-	-	-	-	3759	-	-	-	
3655	-	-	-	-	3709	-	2	2	2	3760	2	23	21	
3656	-	1	1	1	3710	-	10	10	10	3761	-	3	3	
3658	-	-	-	-	3711	-	-	-	-	3763	-	10	10	
3659	3	829	826	833	3712	-	1	1	1	3764	-	-	-	
3660	-	1	1	1	3713	-	-	-	-	3765	-	4	4	
3661	-	9	9	8	3714	-	1	1	1	3766	-	-	-	
3662	-	1	1	1	3715	-	2	2	2	3768	-	-	-	
3663	-	1	1	1	3716	-	-	-	-	3769	-	-	-	
3664	-	-	-	-	3717	-	-	-	-	3770	-	3	3	
3665	-	-	-	-	3718	-	1	1	1	3771	-	23	23	
3668	-	1	1	1	3719	-	2	2	2	3772	-	-	-	
3669	5	551	546	645	3720	1	9	8	9	3773	-	11	11	
3670	-	-	-	-	3721	-	7	7	7	3774	-	1	1	
3671	-	-	-	-	3722	-	1	1	1	3775	-	-	-	
3672	-	1	1	1	3723	1	16	15	16	3776	-	-	-	
3673	-	-	-	-	3724	-	1	1	1	3777	-	-	-	
3674	-	3	3	3	3725	-	-	-	-	3779	-	1	1	
3675	-	1	1	1	3726	-	-	-	-	3780	-	-	-	
3678	-	-	-	-	3727	-	2	2	2	3781	-	-	-	
3679	-	-	-	-	3728	-	-	-	-	3782	-	-	-	
3680	-	11	11	11	3729	-	-	-	-	3783	-	-	-	
3681	-	2	2	2	3730	-	2	2	2	3784	-	-	-	
3682	-	2	2	2	3731	1	1	-	1	3785	-	8	8	
3683	-	-	-	-	3732	-	-	-	-	3786	-	1	1	
3684	-	5	5	5	3733	-	-	-	-	3787	-	1	1	
3685	-	-	-	-	3738	-	-	-	-	3788	-	6	6	
3686	-	-	-	-	3739	-	1	1	1	3789	1	6	5	
3688	-	-	-	-	3740	-	1	1	1	3790	-	4	4	
3689	-	3	3	3	3741	-	4	4	4	3791	-	-	-	
3690	14	1751	1737	1751	3742	-	-	-	-	3792	-	6	6	
3691	-	-	-	-	3743	-	3	3	3	3793	-	2	2	
3692	-	1	1	1	3744	-	-	-	-	3794	-	7	7	
3693	-	-	-	-	3745	-	-	-	-	3795	-	-	-	
3696	-	35	35	35	3748	-	-	-	-	3798	-	2	2	
3697	-	-	-	-	3749	-	1	1	1	3799	1	25	24	
3698	-	-	-	-	3750	-	-	-	-	3800	-	-	-	
3699	-	32	32	32	3751	-	-	-	-	3801	6	20	14	
3700	1	17	16	17	3752	-	-	-	-	3802	-	-	-	
3702	-	-	-	-	3753	-	-	-	-	3803	-	1	1	
3703	-	4	4	4	3754	-	-	-	-	3804	-	-	-	

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 1

NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD			
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3805	-	-	-	-	3870	-	-	-	-	4010	68	547	481	727
3808	-	-	-	-	3871	-	-	-	-	4011	16	139	123	167
3809	-	1	1	1	3872	-	-	-	-	4019	2756	68338	65587	79390
3810	1	1	-	1	3878	-	-	-	-	4020	43	39	12	7
3811	-	-	-	-	3879	-	20	20	20	4021	22	29	8	8
3812	-	-	-	-	3880	-	10	10	10	4029	21030	43607	22748	42739
3813	-	-	-	-	3881	-	-	-	-	4030	83	129	54	12
3814	-	1	1	1	3882	-	1	1	1	4031	15	45	30	47
3815	-	-	-	-	3883	-	1	1	1	4039	4889	13419	8587	9888
3816	-	-	-	-	3884	-	3	3	3	4040	18	21	6	3
3817	-	-	-	-	3885	-	2	2	2	4041	5	9	4	-
3818	-	-	-	-	3886	-	1	1	1	4049	3688	5349	1971	2349
3819	1	1	-	1	3887	-	1	1	1	410	299584	324510	24928	324510
3820	2	5	3	5	3888	-	-	-	-	411	4773	12826	8053	12826
3821	-	-	-	-	3889	1	5	4	5	412	1174	9168	7995	9168
3822	-	-	-	-	3890	-	1	1	1	413	561	4604	4043	4604
3823	1	1	-	1	3891	-	36	36	36	4140	218947	397074	178131	397075
3824	4	9	5	9	3892	-	-	-	-	4141	477	1867	1390	1867
3829	73	155	82	157	3897	1	60	59	60	4148	3684	9033	5349	9033
3830	5	6	1	6	3898	-	-	-	-	4149	36555	73591	37036	80494
3831	4	10	6	10	3899	1	569	568	569	4150	22	252	230	252
3832	-	-	-	-	390	23	80	57	124	4151	10576	35396	24820	35396
3833	...	-	-	-	3910	65	146	81	153	4160	694	1906	1212	1906
3838	-	-	-	-	3911	4	10	6	15	4161	93	267	174	37
3839	9	17	8	18	3912	2	3	1	3	4168	1	2	1	2
3840	-	-	-	-	3918	7	8	1	-	4169	669	9014	8345	9235
3841	-	-	-	-	3919	5	5	-	11	4170	1	2	1	2
3842	1	2	1	2	3920	-	-	-	-	4171	8	16	8	16
3848	-	-	-	-	3929	3	4	1	4	4178	20	54	34	54
3849	-	-	-	-	393	3	4	1	4	4179	6	16	10	19
3850	-	-	-	-	3940	1077	1893	816	2043	4209	94	302	208	309
3851	-	-	-	-	3941	336	460	124	738	4210	729	1775	1046	1805
3852	-	-	-	-	3942	188	259	74	9	4219	14	33	19	37
3853	2	10	8	10	3949	1477	2552	1076	2647	4229	290	528	238	529
3858	-	1	1	1	3950	174	302	128	354	4230	29	650	621	650
3859	-	-	-	-	3951	76	92	16	190	4231	27	119	92	119
3860	-	38	38	38	3952	65	78	13	2	4232	81	250	169	250
3861	-	-	-	-	3959	116	163	47	193	4238	22	104	82	104
3862	-	1	1	1	396	990	1543	553	1478	4239	333	3573	3240	3791
3863	-	27	27	27	3970	63	390	327	390	4240	1192	3235	2043	3227
3864	-	-	-	-	3971	-	1	1	1	4241	4721	11271	6550	11282
3865	-	-	-	-	3979	494	728	235	946	4242	2	24	22	24
3868	-	-	-	-	3980	15	19	4	36	4243	9	27	18	27
3869	-	-	-	-	3989	2653	4382	1729	6892	4249	1240	2701	1462	2928

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 MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
 CONTROL TOTAL TABLE 1

NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
 OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD			
	UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS
4250	5	7	2	7	4331	895	1709	815	1737	4442	619	2894	2275	2894
4251	223	357	134	357	4332	44	76	32	173	4448	137	679	542	679
4252	1	2	1	2	4333	92	138	46	23	4449	283	1036	753	1560
4253	130	171	41	171	4338	16	31	15	32	4460	135	212	77	212
4254	6848	8596	1748	8600	4339	3	14	11	15	4461	13	14	1	14
4255	650	536	109	616	4340	24081	33018	8938	33018	4462	137	222	85	222
4259	90	2636	2546	2707	4341	795	3096	2301	3096	4463	3	3	-	3
4260	234	3154	2920	3154	4349	9967	16940	6973	18536	4464	100	129	29	129
4261	40	666	626	666	435	349	1818	1469	1818	4465	66	296	230	296
4262	2	43	41	43	436	84423	139307	54886	145970	4466	180	202	22	202
4263	20	726	706	726	4370	11259	56799	45569	55168	4467	4	16	12	16
4264	18	410	392	410	4371	709	2523	1814	2697	4470	11	60	49	60
4265	13	227	214	227	4372	198	306	108	292	4471	146	458	312	458
4266	18	194	176	194	4373	339	539	201	1780	4472	270	759	489	759
4267	39	116	77	116	4374	24	49	25	49	4473	1	2	1	2
4268	69	627	558	627	4375	4	7	3	7	4474	1	3	2	3
4269	209	2784	2575	2784	4376	-	1	1	1	4475	2	4	2	4
4270	14	199	185	199	4378	188	1056	871	696	4476	416	1008	592	1078
4271	212	3808	3596	3808	4379	4315	12285	7976	18989	4478	18	41	23	41
4272	6	78	72	78	438	4385	15188	10803	15188	4479	500	994	494	1547
4273	1586	19010	17424	19010	4400	63	582	519	920	4480	27	77	50	77
4274	1049	22038	20989	22038	4401	24	185	161	205	4481	-	-	-	-
4275	24982	341275	316293	341275	4402	1547	4984	3438	2733	4489	18	40	22	41
4276	50	927	877	927	4408	12	112	100	132	4510	9	11	2	11
4278	287	2858	2571	2858	4409	27803	152686	124889	174706	4511	375	832	457	835
4279	2543	33889	31346	45288	4410	2558	2870	312	2871	4512	854	1909	1056	1923
4280	21804	192941	171139	194803	4411	1023	1077	54	1124	4518	95	195	100	195
4281	263	1408	1145	3350	4412	327	797	470	917	4519	652	1779	1129	1821
4289	5348	53891	48543	58411	4413	5870	6312	442	6301	452	69	234	165	234
4290	1508	3922	2420	3886	4414	1390	4345	2955	4762	4530	35	97	62	97
4291	1085	2422	1338	2453	4415	2430	2630	200	2777	4531	2	23	21	23
4292	69922	116400	46480	117333	4416	583	1904	1321	2137	4532	43	206	163	206
4293	693	7774	7082	7906	4420	-	-	-	-	4533	24	80	56	80
4294	...	19	19	19	4421	15	36	21	36	4538	357	803	446	803
4295	22	79	57	79	4422	171	307	136	307	4539	48	293	245	647
4296	4	160	156	160	4423	50	142	92	142	4540	46	262	216	260
4298	61	364	303	368	4428	149	338	189	354	4541	24	94	70	78
4299	1767	8711	6948	17329	4429	355	568	213	742	4542	13	30	17	13
430	6678	7731	1074	7092	4430	12	78	66	78	4549	113	322	209	368
431	19295	27486	8229	28107	4431	24	75	51	75	4550	1	12	11	16
4320	3	5	2	5	4438	22	82	60	82	4551	-	-	-	-
4321	288	722	434	734	4439	1457	6457	5159	8562	4552	1	7	6	4
4329	1186	2004	826	2168	4440	174	445	271	445	4553	-	8	8	9
4330	689	927	238	1005	4441	262	608	346	608	4554	-	-	-	-

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 MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
 CONTROL TOTAL TABLE 1

NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
 OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

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4555	-	3	3	2	470	3	9	6	9	4823	166	309	144	314
4556	18	76	58	82	4710	-	-	-	-	4824	527	1212	685	1239
4557	-	1	1	1	4711	-	-	-	-	4828	199	446	247	447
4558	8	32	24	26	4718	-	1	1	1	4829	766	1576	819	1570
4559	-	-	-	-	4719	1	11	10	11	483	91	132	41	135
4560	378	4099	3721	1830	4720	3	11	8	11	485	12791	43102	30312	43563
4561	44	1123	1079	3438	4721	-	-	-	-	486	32443	104212	71769	106585
4563	-	-	-	-	4722	-	-	-	-	4870	1246	1474	228	163
4564	-	1	1	1	4730	4	14	10	14	4871	1401	2331	993	3708
4565	4	6	2	6	4731	3	3	-	5	4878	55	87	38	25
4566	-	2	2	2	4732	3	4	1	4	490	459	2017	1558	3215
4568	53	284	231	284	4733	6	9	3	9	4910	41	18	17	42
4570	...	1	1	1	4738	3	8	5	8	4911	44	90	52	129
4571	17	169	152	169	4739	31	87	56	90	4912	2476	4293	1817	257
4572	1	18	17	18	4740	-	7	7	7	4918	25	47	25	56
4578	19	68	49	68	4741	2	4	2	4	4919	683	2873	2192	5724
4579	1	3	2	3	4742	-	-	-	-	492	13877	34314	20437	37034
4580	8	85	78	93	4748	-	12	12	12	4930	12	21	9	13
4581	-	2	2	2	4749	4	20	16	20	4931	15	45	30	46
4589	620	5870	5250	5871	475	68	77	9	77	4939	2864	7009	4190	7211
4590	414	4901	4491	5415	4760	3	7	4	7	494	801	1725	926	1734
4591	2	10	8	10	4761	3	3	-	3	4950	4	6	2	6
4592	37	954	917	954	4770	1	3	2	3	4951	-	-	-	-
4598	19	105	86	105	4778	-	2	2	2	4952	-	1	1	1
4599	399	753	354	4250	4779	2	15	13	23	4953	-	-	-	-
460	13	41	30	62	4780	-	-	-	-	4954	-	-	-	-
4610	-	-	-	-	4781	4	21	17	21	4955	-	-	-	-
4611	2	2	-	2	4782	86	259	173	260	4956	1	1	-	1
4612	1	1	-	1	4783	31	137	106	137	4957	1	1	-	1
4613	-	-	-	-	4784	3	7	4	7	4958	-	-	-	-
4618	-	-	-	-	4785	-	5	5	5	4959	4	7	3	7
4619	4	10	6	10	4786	42	118	76	118	496	34743	80546	45806	87857
462	22	76	54	79	4787	88	264	176	277	500	982	2576	1594	2576
463	9	20	11	22	4788	-	-	-	-	501	101	339	238	339
4640	18	45	27	49	4789	6	10	4	13	502	207	448	241	449
4641	19	51	32	64	4800	4	4	-	4	503	8	11	3	11
4642	13	25	12	26	4801	1	1	-	1	504	3	9	6	9
4643	89	108	19	108	4802	-	1	1	1	505	281	795	514	828
4644	8	10	2	10	4808	6	10	4	12	5060	30	42	12	42
4650	1	4	3	4	4809	959	1535	576	1596	5061	9	11	2	11
4658	1	4	3	4	481	3203	6437	3234	6468	5062	-	-	-	-
4659	192	996	806	1218	4820	404	935	531	938	5063	-	1	1	1
4660	556	1979	1423	2328	4821	281	918	637	921	5064	2	4	2	4
4661	86	193	107	194	4822	76	146	70	148	5069	2	3	1	3

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
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NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD			
	UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS
5070	3340	16189	12849	16202	5207	-	1	1	1	5253	-	1	1	1
5071	10	21	11	21	5208	-	-	-	-	5258	1	4	3	4
5078	5	5	-	5	5209	-	-	-	-	5259	1	21	20	21
5080	7	192	185	192	5210	1	22	21	22	5260	-	-	-	-
5081	8	95	87	95	5211	-	1	1	1	5261	-	1	1	1
5088	-	3	3	3	5212	-	-	-	-	5262	-	1	1	1
5089	1	3	2	3	5213	-	-	-	-	5263	-	-	-	-
5100	79	405	326	410	5214	-	-	-	-	5264	1	13	12	13
5109	389	1554	1165	1638	5215	-	-	-	-	5265	-	1	1	1
5110	54	476	422	545	5216	-	-	-	-	5268	1	6	5	6
5111	-	3	3	3	5217	-	-	-	-	5269	1	5	4	5
5118	59	718	659	719	5218	-	-	-	-	5270	-	-	-	-
5119	447	7957	7510	7962	5219	-	-	-	-	5271	-	2	2	2
512	263	2247	1984	2252	5220	-	-	-	-	5272	18	132	114	132
5130	768	2758	1990	2784	5221	-	-	-	-	5273	5	24	19	24
5131	9	51	42	51	5222	-	-	-	-	5274	-	1	1	1
514	1098	29620	28522	29653	5223	-	-	-	-	5275	-	-	-	-
515	3006	7476	4471	7698	5224	3	14	11	14	5276	-	1	1	1
5160	7	11	4	11	5225	7	30	23	30	5277	-	3	3	3
5162	2	2	-	2	5226	-	-	-	-	5278	-	5	5	5
5163	202	276	74	276	5227	-	-	-	-	5279	-	1	1	1
5168	649	853	204	856	5228	-	2	2	2	5280	3	24	21	24
5169	-	-	-	-	5229	-	1	1	1	5281	-	2	2	2
5180	186	2056	1870	2057	5230	-	-	-	-	5282	-	2	2	2
5181	10	39	29	39	5231	-	10	10	10	5283	8	35	27	35
5182	-	-	-	-	5232	-	-	-	-	5284	-	-	-	-
5183	184	568	384	568	5233	-	5	5	5	5285	-	6	6	6
5184	331	9571	9240	10028	5234	1	10	9	10	5286	-	3	3	3
5185	615	4001	3386	3993	5235	-	4	4	4	5287	-	-	-	-
5188	2513	10885	8375	13621	5236	-	-	-	-	5288	-	-	-	-
5190	20	41	21	41	5238	-	4	4	4	5289	19	98	79	99
5191	191	1193	1002	1294	5239	-	2	2	2	5290	1	9	8	9
5192	62	251	189	252	5240	-	8	8	8	5291	-	-	-	-
5193	21	122	101	122	5241	-	1	1	1	5292	-	-	-	-
5194	6	37	31	37	5242	-	-	-	-	5293	-	-	-	-
5198	456	1730	1274	2037	5243	-	-	-	-	5294	-	-	-	-
5199	102	452	350	641	5244	-	-	-	-	5295	-	-	-	-
5200	-	5	5	5	5245	-	-	-	-	5296	-	1	1	1
5201	-	-	-	-	5246	-	1	1	1	5298	-	31	31	31
5202	-	-	-	-	5248	-	-	-	-	5299	-	4	4	4
5203	-	-	-	-	5249	-	1	1	1	5300	71	187	116	187
5204	-	-	-	-	5250	-	1	1	1	5301	248	1034	786	1034
5205	-	-	-	-	5251	-	-	-	-	5302	67	231	164	231
5206	1	1	-	1	5252	-	-	-	-	5303	303	1383	1080	1383

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
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NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

ICD-9 CODE	RECORD COUNT BY CODE FIELD			ICD-9 CODE	RECORD COUNT BY CODE FIELD			ICD-9 CODE	RECORD COUNT BY CODE FIELD					
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5304	180	409	229	409	5352	6	24	18	24	5538	12	35	24	63
5305	65	147	82	147	5353	84	71	27	68	5539	78	240	162	299
5306	58	119	61	119	5354	248	752	505	770	5550	27	72	45	75
5307	67	142	75	142	5355	200	940	740	955	5551	61	113	52	116
5308	214	1643	1429	2061	5356	11	91	80	92	5552	3	4	1	1
5309	36	104	68	119	5360	-	1	1	1	5559	270	543	273	548
5310	29	64	36	8	5361	24	59	35	59	556	398	948	550	948
5311	12	19	7	19	5362	5	16	11	16	5570	4255	7615	3361	8323
5312	-	4	4	2	5368	50	199	149	199	5571	181	330	149	330
5313	6	48	42	108	5369	36	138	102	139	5579	492	1149	657	1324
5314	1088	2224	1136	641	5370	106	623	517	623	558	1086	3369	2285	3473
5315	633	1169	536	1261	5371	1	8	7	8	5600	38	61	23	61
5316	70	116	46	12	5372	-	-	-	-	5601	223	1229	1006	1255
5317	8	45	37	88	5373	9	161	152	161	5602	713	1151	438	1195
5319	232	1714	1483	3376	5374	43	248	205	248	5603	143	335	193	320
5320	39	66	30	22	5375	-	-	-	-	5608	375	651	277	11
5321	10	28	18	30	5376	-	2	2	2	5609	2335	10621	8286	12005
5322	2	4	2	1	5378	88	501	413	851	5620	32	76	44	76
5323	5	34	29	81	5379	178	525	347	551	5621	3103	6990	3887	6995
5324	982	2037	1055	828	5400	547	914	367	871	5640	10	110	100	110
5325	809	1417	608	1574	5401	40	135	95	130	5641	39	163	124	163
5326	116	192	77	25	5409	39	96	57	161	5642	-	46	46	46
5327	14	108	94	169	541	69	143	74	182	5643	...	2	2	2
5329	159	1527	1369	2807	542	1	2	1	2	5644	-	1	1	1
5330	16	42	26	9	543	5	10	5	13	5645	-	1	1	1
5331	3	7	4	9	5500	30	43	13	5	5646	-	-	-	-
5332	2	3	1	-	5501	199	388	189	374	5647	48	159	111	167
5333	4	25	21	65	5509	81	611	530	667	5648	23	87	64	87
5334	1132	2554	1422	689	5510	18	21	3	1	5649	8	23	15	25
5335	480	911	431	1009	5511	14	17	3	2	5650	2	7	5	7
5336	61	92	31	4	5512	40	48	11	3	5651	17	82	65	82
5337	11	114	103	157	5513	9	25	17	2	566	152	382	230	382
5339	192	2194	2003	4217	5518	9	11	2	1	5671	-	5	5	5
5340	-	-	-	-	5519	36	51	16	7	5672	482	2932	2450	3061
5341	-	-	-	-	5520	70	135	65	143	5678	16	203	187	209
5342	-	-	-	-	5521	52	107	55	105	5679	695	6220	5525	6762
5343	-	-	-	-	5522	151	254	104	197	5680	138	449	311	1113
5344	37	91	54	24	5523	72	150	78	105	5688	73	397	324	397
5345	21	34	13	30	5528	21	35	15	18	5689	8	19	11	19
5346	4	7	3	1	5529	137	275	138	285	5690	5	34	29	34
5347	-	1	1	2	5530	3	30	27	45	5691	20	84	65	88
5349	13	56	43	136	5531	58	227	169	245	5692	7	34	27	34
5350	101	317	216	318	5532	101	448	348	555	5693	94	678	584	684
5351	45	193	148	193	5533	397	2222	1825	2296	5694	64	277	213	277

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 MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
 CONTROL TOTAL TABLE 1

NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
 OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

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5695	47	466	419	466	5764	21	67	46	67	5846	2	14	12	6
5696	...	20	20	20	5765	-	2	2	2	5847	8	104	96	21
5698	1044	4541	3497	4584	5768	283	1757	1474	1932	5848	-	6	6	6
5699	334	1043	713	1459	5769	61	124	63	150	5849	2017	12945	10928	13184
570	523	1886	1363	1900	5770	2383	5373	2992	5426	585	3778	13393	9616	16142
5710	1166	1634	468	76	5771	261	1159	898	1159	586	8052	56861	48809	67998
5711	794	768	204	1025	5772	86	282	196	282	587	71	288	219	410
5712	9166	11644	2480	6655	5778	69	439	370	439	5880	13	24	11	24
5713	1812	2210	557	2211	5779	41	109	68	120	5881	3	5	2	5
5714	888	1473	585	1475	5780	31	288	257	330	5888	19	101	82	101
5715	14497	23773	9276	29074	5781	5	69	64	80	5889	-	-	-	-
5716	355	568	213	568	5789	4405	25071	20671	31555	5890	2	3	1	3
5718	1610	3558	1948	5116	5790	8	32	24	32	5891	2	3	1	3
5719	295	623	328	716	5791	7	35	28	35	5899	5	6	1	6
5720	167	490	323	494	5792	...	210	210	210	5900	1144	2849	1705	2951
5721	1	11	10	11	5793	...	51	51	51	5901	468	1158	690	1188
5722	413	7391	6978	7496	5794	-	-	-	-	5902	99	341	242	366
5723	147	1496	1349	1496	5798	8	23	15	23	5903	2	6	4	6
5724	441	5048	4607	5048	5799	114	484	372	501	5908	934	2632	1762	2934
5728	1880	20947	19067	20947	5800	2	3	1	3	5909	85	227	142	245
5730	42	439	397	439	5804	-	-	-	-	591	71	679	608	679
5733	470	1327	858	1361	5808	1	7	6	-	5920	385	1090	705	1092
5734	16	79	63	79	5809	114	404	290	411	5921	42	131	89	131
5738	236	1961	1725	1962	5810	-	2	2	-	5929	34	96	62	99
5739	390	1106	722	1633	5811	2	9	7	1	5930	1	1	-	1
5740	189	366	177	12	5812	-	-	-	-	5931	-	4	4	4
5741	353	1012	659	17	5813	7	17	10	5	5932	3	5	2	5
5742	545	2560	2015	3883	5818	-	8	8	2	5933	13	45	32	45
5743	27	56	29	3	5819	202	622	423	764	5934	90	1374	1284	1374
5744	33	113	80	1	5820	2	3	1	3	5935	5	65	60	65
5745	355	689	334	850	5821	8	14	6	14	5936	-	-	-	-
5750	711	1477	767	1863	5822	-	-	-	-	5937	2	11	9	11
5751	439	1588	1149	2678	5824	-	3	3	2	5938	211	1356	1145	1361
5752	2	19	17	42	5828	49	103	54	59	5939	1150	6394	5249	8992
5753	10	51	41	51	5829	1681	3935	2268	4704	5940	-	1	1	1
5754	116	262	146	262	5830	4	11	8	13	5941	29	145	116	145
5755	16	42	26	61	5831	26	48	25	56	5942	2	6	4	6
5756	1	7	6	7	5832	14	17	3	17	5948	-	-	-	-
5758	22	152	130	152	5834	9	14	6	15	5949	-	-	-	-
5759	466	1350	884	1387	5836	10	33	26	41	5950	30	139	109	139
5760	...	-	-	-	5837	7	55	48	-	5951	3	5	2	5
5761	418	1267	849	1267	5838	86	190	106	176	5952	39	376	337	376
5762	247	1274	1027	1452	5839	278	753	476	1117	5953	-	2	2	2
5763	4	11	7	14	5845	279	1407	1134	1436	5958	12	81	69	81

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 MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
 CONTROL TOTAL TABLE 1

NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
 OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

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5959	121	952	831	956	6040	3	5	2	5	6150	-	2	2	2
5960	40	247	207	247	6049	7	43	36	44	6151	-	-	-	-
5961	40	309	269	309	605	-	8	8	8	6159	11	31	20	32
5962	5	87	82	87	606	-	-	-	-	6160	2	4	2	4
5963	7	31	24	31	6070	-	-	-	-	6161	6	26	20	26
5964	12	66	54	66	6071	-	3	3	3	6162	1	3	2	3
5965	2	21	19	21	6072	5	27	22	27	6163	1	3	2	3
5966	17	45	28	45	6073	-	1	1	1	6164	3	13	10	13
5967	-	1	1	1	6078	1	7	6	7	6165	-	-	-	-
5968	22	250	228	250	6079	2	4	2	5	6168	-	4	4	4
5969	11	57	46	61	6080	1	1	-	1	6169	-	1	1	1
5970	10	22	12	22	6081	-	-	-	-	6170	2	3	1	3
5978	3	24	21	24	6082	-	-	-	-	6171	-	1	1	1
5980	-	-	-	-	6083	-	3	3	3	6172	-	-	-	-
5981	-	-	-	-	6084	44	124	80	124	6173	1	1	-	1
5982	1	1	-	1	6088	11	33	22	33	6174	-	-	-	-
5988	-	-	-	-	6089	2	18	16	23	6175	-	-	-	-
5989	59	273	214	273	6100	1	1	-	1	6176	-	-	-	-
5990	5274	18794	13521	18988	6101	-	7	7	7	6178	-	-	-	-
5991	7	56	49	56	6102	-	-	-	-	6179	3	10	7	10
5992	-	2	2	2	6103	-	3	3	3	6180	11	36	28	46
5993	-	-	-	-	6104	-	-	-	-	6181	4	42	38	52
5994	1	2	1	2	6108	-	-	-	-	6182	-	-	-	-
5995	-	1	1	1	6109	-	-	-	-	6183	3	9	6	9
5996	263	1331	1068	1331	6110	2	16	14	16	6184	4	12	8	3
5997	36	599	563	599	6111	1	8	7	8	6185	-	-	-	-
5998	12	80	68	80	6112	-	-	-	-	6186	-	-	-	-
5999	36	135	99	147	6113	-	-	-	-	6187	-	-	-	-
600	754	3798	3044	3798	6114	-	-	-	-	6188	1	2	1	2
6010	12	28	16	28	6115	-	-	-	-	6189	-	5	5	5
6011	13	76	63	76	6116	-	-	-	-	6190	8	96	88	96
6012	12	24	12	24	6117	-	14	14	14	6191	29	301	272	301
6013	-	1	1	1	6118	-	3	3	3	6192	-	4	4	4
6018	2	3	1	3	6119	33	269	236	271	6198	1	5	4	5
6019	33	154	121	154	6140	4	5	1	5	6199	3	42	39	45
6020	2	11	9	11	6141	-	3	3	3	6200	-	-	-	-
6021	8	65	57	65	6142	24	45	21	46	6201	3	15	12	15
6022	-	2	2	2	6143	2	2	-	2	6202	31	75	44	75
6028	1	13	12	13	6144	83	288	205	289	6203	-	-	-	-
6029	237	639	402	647	6145	6	17	11	17	6204	-	-	-	-
6030	-	-	-	-	6146	4	11	7	11	6205	2	5	3	5
6031	-	3	3	3	6147	1	1	-	1	6206	-	-	-	-
6038	-	1	1	1	6148	1	1	-	1	6207	-	-	-	-
6039	3	42	39	42	6149	13	29	16	33	6208	3	59	56	59

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 MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
 CONTROL TOTAL TABLE 1

NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
 OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD			
	UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS
6209	3	26	23	27	6254	-	-	-	-	6344	-	-	-	-
6210	-	8	8	8	6255	2	2	-	2	6345	-	-	-	-
6211	-	-	-	-	6256	-	6	6	6	6346	-	-	-	-
6212	-	4	4	4	6258	-	-	-	-	6347	-	-	-	-
6213	-	8	8	8	6259	-	2	2	2	6348	-	-	-	-
6214	1	1	-	1	6260	-	1	1	1	6349	2	4	2	5
6215	-	1	1	1	6261	-	-	-	-	6350	1	1	-	1
6216	-	-	-	-	6262	-	8	8	8	6351	-	1	1	-
6217	-	-	-	-	6263	-	-	-	-	6352	1	1	-	1
6218	4	28	24	28	6264	-	-	-	-	6353	-	-	-	-
6219	5	123	118	124	6265	-	-	-	-	6354	-	-	-	-
6220	-	1	1	1	6266	-	1	1	1	6355	-	1	1	-
6221	-	1	1	1	6267	-	-	-	-	6356	1	2	1	-
6222	-	-	-	-	6268	-	2	2	2	6357	-	1	1	-
6223	-	1	1	1	6269	3	40	37	40	6358	-	-	-	-
6224	-	1	1	1	6270	-	-	-	-	6359	2	2	-	4
6225	-	-	-	-	6271	3	4	1	4	6360	-	-	-	-
6226	-	-	-	-	6272	-	2	2	2	6361	-	-	-	-
6227	-	3	3	3	6273	-	4	4	4	6362	-	-	-	-
6228	-	46	46	46	6274	-	-	-	-	6363	-	-	-	-
6229	-	-	-	-	6278	-	1	1	1	6364	-	-	-	-
6230	-	-	-	-	6279	-	-	-	-	6365	-	-	-	-
6231	-	-	-	-	6280	-	-	-	-	6366	-	-	-	-
6232	-	-	-	-	6282	-	-	-	-	6367	1	1	-	-
6233	-	-	-	-	6283	-	-	-	-	6368	-	-	-	-
6234	-	-	-	-	6284	-	-	-	-	6369	-	-	-	1
6235	-	3	3	3	6288	-	-	-	-	6370	3	3	-	3
6236	-	1	1	1	6289	-	-	-	-	6371	-	-	-	-
6237	-	2	2	2	6290	-	-	-	-	6372	-	-	-	-
6238	10	147	137	147	6291	-	-	-	-	6373	-	-	-	-
6239	-	-	-	1	6298	2	9	7	9	6374	-	-	-	-
6240	-	2	2	2	6299	2	14	12	15	6375	-	-	-	-
6241	-	-	-	-	630	3	5	2	5	6376	-	-	-	-
6242	-	-	-	-	631	-	-	-	-	6377	-	-	-	-
6243	-	1	1	1	632	-	-	-	-	6378	-	-	-	-
6244	-	-	-	-	6330	1	2	1	2	6379	1	3	2	3
6245	-	-	-	-	6331	17	20	3	20	6380	-	-	-	-
6246	-	-	-	-	6332	-	-	-	-	6381	-	-	-	-
6248	-	7	7	7	6338	5	5	-	5	6382	-	-	-	-
6249	-	-	-	-	6339	23	28	5	28	6383	-	-	-	-
6250	-	-	-	-	6340	-	-	-	-	6384	-	-	-	-
6251	-	-	-	-	6341	1	1	-	-	6385	-	-	-	-
6252	-	-	-	-	6342	-	-	-	-	6386	-	-	-	-
6253	-	1	1	1	6343	-	-	-	-	6387	-	-	-	-

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 1

NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

ICD-9 CODE	RECORD COUNT BY CODE FIELD			ICD-9 CODE	RECORD COUNT BY CODE FIELD			ICD-9 CODE	RECORD COUNT BY CODE FIELD			
	UC	RECORD TOTAL MENTION	AXIS SECOND- ARY		ENTITY AXIS	UC	RECORD TOTAL MENTION		AXIS SECOND- ARY	ENTITY AXIS	UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS
6388	-	-	-	6480	-	-	-	6807	-	-	-	-
6389	-	-	-	6481	-	-	-	6808	1	1	-	1
6390	...	1	1	6482	1	2	1	6809	2	7	5	7
6391	...	2	2	6483	-	-	-	6810	1	2	1	2
6392	...	-	-	6484	-	-	-	6811	1	14	13	14
6393	...	1	1	6485	-	-	-	6819	-	-	-	-
6394	...	-	-	6486	4	4	-	6820	11	48	37	48
6395	...	2	2	6487	-	-	-	6821	10	45	35	45
6396	...	1	1	6488	-	-	-	6822	101	466	365	466
6398	...	2	2	6489	5	6	1	6823	32	134	102	134
6399	...	-	-	650	-	-	-	6824	7	31	24	31
640	-	1	1	651	-	-	-	6825	24	90	66	90
641	22	50	28	652	1	3	2	6826	125	700	575	700
6420	-	-	-	653	1	2	1	6827	20	171	151	171
6421	-	-	-	654	1	1	-	6828	9	47	38	47
6422	2	3	1	655	-	-	-	6829	102	701	599	711
6423	-	-	-	656	3	5	2	683	-	9	9	9
6424	28	48	20	657	-	-	-	684	2	7	5	7
6425	2	4	2	658	4	6	2	6850	-	2	2	2
6426	23	34	11	659	-	1	1	6851	1	10	9	10
6427	2	2	-	660	-	-	-	6860	8	47	39	47
6429	4	7	3	661	1	3	2	6861	16	70	54	70
643	1	1	-	662	-	-	-	6868	4	7	3	7
644	1	2	1	663	-	-	-	6869	101	631	530	651
645	-	-	-	664	1	1	-	690	-	5	5	5
6460	-	-	-	665	8	12	4	6910	3	4	1	4
6461	-	-	-	666	22	46	24	6918	1	13	12	13
6462	-	-	-	667	1	2	1	6920	-	-	-	-
6463	-	-	-	668	3	6	3	6921	-	-	-	-
6464	-	-	-	669	26	94	68	6922	-	-	-	-
6465	-	-	-	670	9	20	11	6923	-	1	1	1
6466	3	7	4	671	11	14	3	6924	-	-	-	-
6467	6	10	4	672	-	-	-	6925	-	-	-	-
6468	2	2	-	673	53	83	30	6926	-	2	2	2
6469	-	-	-	674	20	46	26	6927	-	1	1	1
6470	-	-	-	675	-	-	-	6928	1	8	7	8
6471	-	-	-	676	-	-	-	6929	13	153	141	170
6472	-	-	-	6800	1	1	-	6930	1	11	10	11
6473	-	-	-	6801	-	2	2	6931	2	6	4	6
6474	-	-	-	6802	1	4	3	6938	-	-	-	-
6475	-	-	-	6803	1	3	2	6939	1	1	-	1
6476	-	1	1	6804	-	-	-	6940	2	15	13	15
6478	1	1	-	6805	-	1	1	6941	-	-	-	-
6479	-	-	-	6806	-	1	1	6942	-	-	-	-

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 1

NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

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6943	-	-	-	-	7040	-	5	5	5	7128	-	-	-	-
6944	76	202	126	202	7041	-	3	3	3	7129	-	-	-	-
6945	36	206	170	206	7042	-	1	1	1	7140	1342	8243	6901	8243
6946	1	4	3	4	7043	-	-	-	-	7141	49	138	89	138
6948	-	-	-	-	7048	-	-	-	-	7142	6	29	23	29
6949	1	5	4	5	7049	-	-	-	-	7143	11	25	14	25
6950	-	1	1	1	7050	-	-	-	-	7144	-	-	-	-
6951	64	172	108	172	7051	-	-	-	-	7148	64	175	111	175
6952	-	2	2	2	7058	3	7	4	7	7149	2	8	6	8
6953	-	2	2	2	7059	-	-	-	-	7150	16	544	528	544
6954	113	440	327	440	7060	-	-	-	-	7151	-	-	-	-
6958	28	113	85	113	7061	-	-	-	-	7152	-	3	3	3
6959	1	12	11	12	7062	-	7	7	7	7153	35	278	243	278
6960	1	38	37	38	7063	-	3	3	3	7158	-	32	32	32
6961	17	322	305	322	7068	-	-	-	-	7159	297	8783	8487	8786
6962	-	1	1	1	7069	-	-	-	-	7160	-	1	1	1
6963	-	-	-	-	7070	1773	10515	8745	11699	7161	2	13	11	13
6964	-	-	-	-	7071	52	543	491	786	7162	-	-	-	-
6965	-	-	-	-	7078	23	138	115	169	7163	-	-	-	-
6968	-	-	-	-	7079	47	489	442	583	7164	-	-	-	-
6970	1	2	1	2	7080	-	-	-	-	7165	6	45	39	47
6971	-	-	-	-	7081	-	-	-	-	7166	-	-	-	-
6978	-	-	-	-	7082	-	-	-	-	7168	2	18	16	18
6979	-	-	-	-	7083	-	-	-	-	7169	209	4076	3867	4319
6980	-	-	-	-	7084	-	-	-	-	7170	-	-	-	-
6981	-	-	-	-	7085	-	-	-	-	7171	-	-	-	-
6982	-	-	-	-	7088	-	1	1	1	7172	-	-	-	-
6983	-	7	7	7	7089	-	11	11	11	7173	-	-	-	-
6984	-	2	2	2	7090	1	10	9	10	7174	-	-	-	-
6988	1	2	1	2	7091	-	-	-	-	7175	-	-	-	-
6989	-	2	2	2	7092	1	42	41	42	7176	-	1	1	1
700	-	1	1	1	7093	-	4	4	5	7177	-	-	-	-
7010	1	2	1	2	7094	-	-	-	-	7178	-	-	-	-
7011	-	10	10	10	7098	1	9	8	9	7179	-	1	1	1
7012	-	1	1	1	7099	7	36	29	36	7180	-	-	-	-
7013	-	-	-	-	7100	1002	1634	632	1634	7181	-	-	-	-
7014	-	3	3	3	7101	690	1094	404	1094	7182	-	10	10	10
7015	-	-	-	-	7102	11	80	69	80	7183	3	10	7	10
7018	-	6	6	6	7103	85	175	90	175	7184	4	193	189	193
7019	-	1	1	1	7104	156	331	175	331	7185	2	66	64	66
702	-	3	3	3	7108	12	24	12	24	7186	-	1	1	1
7030	-	-	-	-	7109	114	229	115	265	7188	-	8	8	8
7038	1	4	3	4	7110	82	185	103	185	7189	4	35	31	35
7039	-	-	-	1	7119	3	38	35	21	7190	-	4	4	4

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 1

NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD			
	UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS
7191	-	2	2	2	7240	6	50	44	50	7294	95	196	101	196
7192	-	-	-	-	7241	1	1	-	1	7295	1	20	19	20
7193	-	-	-	-	7242	3	22	19	22	7296	-	-	-	-
7194	2	17	15	17	7243	-	17	17	17	7298	2	16	14	16
7195	-	6	6	6	7244	-	4	4	4	7299	-	4	4	4
7196	-	1	1	1	7245	1	58	57	58	7300	8	24	16	25
7197	-	3	3	3	7246	-	7	7	7	7301	28	133	105	133
7198	-	1	1	1	7247	-	-	-	-	7302	191	717	526	725
7199	10	652	642	678	7248	1	8	7	8	7303	-	1	1	1
7200	50	302	252	302	7249	5	29	24	33	7309	1	11	10	12
7201	-	-	-	-	725	14	252	238	252	7310	90	894	804	924
7202	-	1	1	1	7260	-	-	-	-	7312	-	7	7	7
7208	-	-	-	-	7261	-	8	8	8	7320	-	-	-	-
7209	4	41	37	41	7262	1	3	2	3	7321	2	6	4	6
7210	21	100	79	114	7263	3	9	6	9	7322	-	-	-	-
7211	24	64	40	52	7264	-	-	-	-	7323	-	-	-	-
7212	-	2	2	2	7265	-	3	3	3	7324	-	-	-	-
7213	-	22	22	22	7266	-	-	-	-	7325	-	-	-	-
7214	5	6	1	6	7267	1	1	-	1	7326	-	-	-	-
7215	-	-	-	-	7268	-	-	-	-	7327	-	-	-	-
7216	-	-	-	-	7269	1	11	10	11	7328	-	-	-	-
7217	-	1	1	1	7270	1	4	3	4	7329	1	7	6	7
7218	-	1	1	1	7271	1	5	4	5	7330	207	3165	2958	3165
7219	27	535	508	537	7272	1	1	-	1	7331	85	2051	1966	2051
7220	3	5	2	5	7273	-	8	8	8	7332	1	7	6	7
7221	2	12	10	12	7274	1	2	1	2	7333	-	3	3	3
7222	7	42	35	43	7275	-	2	2	2	7334	5	36	31	36
7223	-	-	-	-	7276	-	1	1	1	7335	-	1	1	1
7224	4	21	17	21	7278	2	3	1	3	7336	-	-	-	-
7225	2	30	28	30	7279	-	2	2	2	7337	-	1	1	1
7226	6	55	49	57	7280	2	2	-	2	7338	9	89	80	89
7227	1	6	5	3	7281	1	5	4	5	7339	42	229	188	253
7228	-	-	-	-	7282	14	83	69	85	734	-	-	-	-
7229	5	46	41	46	7283	3	25	22	25	7350	1	4	3	4
7230	-	5	5	5	7284	-	-	-	-	7351	-	-	-	-
7231	1	7	6	7	7285	-	-	-	-	7352	-	-	-	-
7232	-	1	1	1	7286	-	7	7	7	7353	-	-	-	-
7233	-	-	-	-	7287	1	1	-	1	7354	-	2	2	2
7234	1	9	8	9	7288	47	159	112	159	7355	-	-	-	-
7235	1	13	12	13	7289	25	121	96	122	7358	-	-	-	-
7236	-	-	-	-	7290	2	10	8	10	7359	-	2	2	2
7237	-	-	-	-	7291	12	64	52	64	7360	-	8	8	8
7238	-	2	2	2	7292	6	54	48	68	7361	-	-	-	-
7239	-	2	2	2	7293	6	46	40	46	7362	-	1	1	1

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 1

NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD			
	UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS
7363	-	6	6	6	7428	20	36	16	36	7475	3	11	8	11
7364	-	1	1	1	7429	153	226	73	279	7476	171	243	72	260
7365	-	1	1	1	7430	1	12	11	12	7478	362	422	60	466
7366	-	7	7	7	7431	-	15	15	15	7479	352	481	129	504
7367	-	12	12	12	7432	-	4	4	4	7480	6	19	13	19
7368	6	390	384	390	7433	-	6	6	6	7481	2	12	10	12
7369	1	27	26	27	7434	-	4	4	4	7482	1	2	1	2
7370	-	5	5	5	7435	-	2	2	2	7483	66	105	39	106
7371	31	284	253	285	7436	-	-	-	-	7484	13	17	4	17
7372	-	3	3	3	7438	-	4	4	4	7485	507	1010	503	1010
7373	170	625	458	858	7439	1	7	6	7	7486	96	134	38	138
7378	-	1	1	1	7440	-	3	3	3	7488	1	3	2	3
7379	-	2	2	2	7441	-	-	-	-	7489	11	16	5	18
7380	-	1	1	1	7442	-	9	9	9	7490	20	86	66	138
7381	-	4	4	4	7443	1	12	11	12	7491	3	9	6	68
7382	-	1	1	1	7444	-	4	4	4	7492	14	68	54	9
7383	8	49	41	49	7445	-	1	1	1	7500	-	1	1	1
7384	-	-	-	-	7448	2	5	3	5	7501	1	2	1	2
7385	1	29	28	29	7449	4	20	16	20	7502	3	5	2	5
7386	-	2	2	2	7450	136	168	32	168	7503	48	115	67	115
7387	-	-	-	-	7451	296	367	71	367	7504	38	88	50	88
7388	-	37	37	37	7452	286	335	49	335	7505	3	7	4	7
7389	-	23	23	24	7453	99	145	46	145	7506	3	6	3	6
7390	-	-	-	-	7454	470	920	450	934	7507	1	1	-	1
7391	-	-	-	-	7455	261	522	261	522	7508	-	1	1	1
7392	-	-	-	-	7456	258	375	117	375	7509	7	15	8	16
7393	-	-	-	-	7457	-	4	4	4	7510	15	32	17	32
7394	-	-	-	-	7458	1	3	2	3	7511	37	80	43	80
7395	-	-	-	-	7459	16	26	10	30	7512	16	97	81	97
7396	-	-	-	-	7460	69	120	51	124	7513	27	48	21	48
7397	-	-	-	-	7461	75	97	22	97	7514	27	55	28	55
7398	-	-	-	-	7462	34	44	10	44	7515	34	65	31	74
7399	-	1	1	1	7463	103	161	58	161	7516	170	258	88	258
7400	797	829	32	829	7464	60	98	38	98	7517	2	14	12	14
7401	-	-	-	-	7465	14	37	23	37	7518	7	9	2	9
7402	2	3	1	3	7466	16	28	12	28	7519	5	12	7	12
7410	216	277	61	54	7467	521	565	44	565	7520	-	1	1	1
7419	141	230	89	477	7468	532	842	310	846	7521	-	1	1	1
7420	98	143	45	143	7469	1787	2376	589	3467	7522	2	4	2	4
7421	119	261	142	262	7470	180	655	475	655	7523	2	4	2	4
7422	60	99	39	99	7471	217	349	132	349	7524	-	1	1	1
7423	514	717	203	938	7472	45	95	50	111	7525	1	10	9	10
7424	73	106	33	106	7473	178	351	173	351	7526	1	13	12	13
7425	33	71	40	83	7474	86	116	30	116	7527	2	11	9	11

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 MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
 CONTROL TOTAL TABLE 1

NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
 OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD			
	UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS
7528	-	19	19	19	7574	-	1	1	1	7619	-	-	-	-
7529	3	18	15	20	7575	-	-	-	-	7620	123	155	32	155
7530	350	548	198	548	7576	-	1	1	1	7621	520	649	129	693
7531	442	1083	641	1083	7578	-	-	-	-	7622	45	81	36	81
7532	21	67	46	68	7579	-	3	3	3	7623	13	27	14	27
7533	18	76	58	76	7580	340	1020	680	1022	7624	61	104	43	104
7534	-	9	9	9	7581	201	232	31	232	7625	80	112	33	114
7535	3	9	6	9	7582	269	350	81	350	7626	16	24	8	24
7536	4	19	15	19	7583	5	6	1	6	7627	126	240	114	240
7537	1	2	1	2	7584	1	1	-	1	7628	1	5	4	5
7538	4	16	12	16	7585	21	32	11	32	7629	-	-	-	-
7539	36	93	57	110	7586	6	40	34	40	7630	58	117	59	117
7540	1	8	7	8	7587	1	11	10	11	7631	21	32	11	33
7541	-	-	-	-	7588	2	3	1	3	7632	2	5	3	5
7542	4	14	10	14	7589	51	109	58	123	7633	-	-	-	-
7543	1	24	23	24	7590	14	72	58	72	7634	2	19	17	19
7544	-	1	1	1	7591	6	33	27	33	7635	-	-	-	-
7545	1	9	8	9	7592	3	23	20	23	7636	18	30	12	30
7546	-	3	3	3	7593	10	38	28	38	7637	3	5	2	5
7547	2	43	41	43	7594	38	42	4	42	7638	34	69	35	69
7548	8	39	31	39	7595	23	40	17	40	7639	4	5	1	5
7550	-	26	26	26	7596	9	27	18	27	7640	22	61	39	61
7551	-	6	6	6	7597	866	1067	201	1894	7641	1	2	1	2
7552	-	15	15	15	7598	251	414	163	415	7642	4	8	4	8
7553	-	8	8	8	7599	92	145	54	321	7649	22	67	45	68
7554	1	10	9	10	7600	30	58	28	58	7650	1751	7084	5333	7118
7555	5	35	30	36	7601	7	14	7	15	7651	1912	12442	10531	14396
7556	2	34	32	34	7602	27	34	7	34	7660	-	10	10	10
7558	10	32	22	32	7603	1	2	1	2	7661	1	4	3	4
7559	-	3	3	5	7604	-	1	1	1	7662	1	63	62	63
7560	56	101	45	118	7605	15	26	11	26	7670	984	2056	1072	2057
7561	45	135	90	135	7606	1	2	1	2	7671	7	14	7	14
7562	-	1	1	1	7607	8	16	8	16	7672	-	1	1	1
7563	14	33	19	33	7608	49	85	37	85	7673	9	15	6	15
7564	32	90	58	90	7609	5	7	2	7	7674	4	8	4	9
7565	72	151	79	152	7610	214	242	28	242	7675	-	-	-	-
7566	398	520	122	520	7611	412	539	127	539	7676	-	2	2	2
7567	73	136	63	136	7612	1	42	41	42	7677	1	1	-	1
7568	24	52	28	52	7613	42	99	57	99	7678	45	112	67	112
7569	7	20	13	24	7614	1	2	1	2	7679	15	55	40	87
7570	1	8	7	8	7615	844	2276	1432	2276	7682	1	1	-	1
7571	5	22	17	22	7616	4	4	-	4	7683	-	1	1	1
7572	-	-	-	-	7617	3	20	17	20	7684	284	675	391	842
7573	30	72	43	73	7618	51	56	5	56	7685	56	96	40	120

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 MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
 CONTROL TOTAL TABLE 1

NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
 OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD			
	UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS
7686	-	-	-	1	7750	18	69	51	69	7796	41	45	4	45
7689	1177	2763	1587	3908	7751	-	-	-	-	7798	2122	9832	7710	9833
769	4997	5983	987	5984	7752	1	1	-	1	7799	10	11	1	54
7700	41	85	44	85	7753	1	2	1	2	7800	20	6077	6057	6901
7701	370	748	378	748	7754	1	23	22	23	7801	-	13	13	13
7702	253	1432	1179	1432	7755	5	40	35	40	7802	13	1540	1527	1540
7703	202	809	607	809	7756	5	32	27	32	7803	354	7939	7585	7939
7704	478	633	155	633	7757	4	22	18	22	7804	-	92	92	92
7705	416	657	241	657	7758	-	-	-	-	7805	-	2	2	3
7706	-	3	3	3	7759	-	-	-	-	7806	96	1887	1791	1887
7707	367	732	365	732	7760	11	25	14	25	7807	1	926	925	926
7708	1612	4701	3089	4701	7761	1	3	2	3	7808	-	2	2	2
7709	3	3	-	6	7762	99	455	356	455	7809	-	216	216	216
7710	20	26	6	26	7763	2	15	13	15	7810	-	129	129	129
7711	19	25	6	26	7764	-	1	1	1	7811	-	1	1	1
7712	20	22	2	22	7765	4	5	1	4	7812	-	25	25	25
7713	-	1	1	1	7766	11	49	38	-	7813	1	152	151	152
7714	11	13	2	14	7767	-	1	1	1	7814	-	8	8	8
7715	-	-	-	-	7768	-	-	-	-	7815	-	1	1	1
7716	1	2	1	2	7769	4	4	-	4	7816	-	3	3	3
7717	7	8	1	8	7771	1	4	3	4	7817	-	9	9	9
7718	905	1853	948	1853	7772	1	1	-	1	7819	19	230	211	231
7720	7	12	5	13	7773	-	-	-	-	7820	-	4	4	4
7721	822	1821	999	1822	7774	-	-	-	-	7821	1	24	23	24
7722	66	177	111	177	7775	422	533	111	533	7822	-	4	4	4
7723	-	3	3	3	7776	21	102	81	102	7823	2	2086	2084	2151
7724	8	42	34	42	7778	5	11	6	11	7824	2	1726	1724	1726
7725	9	27	18	27	7779	-	-	-	-	7825	-	79	79	79
7726	5	16	11	16	7780	108	203	95	214	7826	-	2	2	2
7728	14	50	36	50	7781	1	13	12	13	7827	1	46	45	46
7729	37	122	85	140	7782	-	-	-	-	7828	-	2	2	2
7730	28	40	12	41	7783	9	58	49	58	7829	-	2	2	2
7731	2	5	3	5	7784	-	-	-	-	7830	3	688	685	688
7732	28	82	54	139	7785	5	31	26	31	7831	-	3	3	3
7733	9	12	3	1	7786	-	1	1	1	7832	1	314	313	314
7734	1	2	1	1	7787	-	-	-	-	7833	-	39	39	39
7735	-	-	-	-	7788	-	-	-	-	7834	8	341	333	341
7741	-	-	-	-	7789	-	2	2	2	7835	-	6	6	6
7742	6	72	66	2	7790	16	237	221	237	7836	-	36	36	36
7743	-	-	-	-	7791	1	4	3	4	7839	-	17	17	17
7744	12	29	17	29	7792	1	9	8	9	7840	-	41	41	41
7745	-	-	-	-	7793	1	7	6	7	7841	-	-	-	-
7746	7	32	25	105	7794	6	7	1	7	7842	4	54	50	54
7747	3	11	8	12	7795	3	4	1	4	7843	-	1872	1872	1872

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 1

NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD			
	UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS
7844	-	35	35	35	7891	1	635	634	635	7943	-	8	8	8
7845	-	120	120	120	7892	3	298	295	301	7944	-	-	-	-
7846	-	8	8	8	7893	6	383	377	383	7945	-	-	-	-
7847	3	213	210	213	7894	-	2	2	2	7946	-	-	-	-
7848	1	38	37	38	7895	3	5545	5542	5545	7947	-	1	1	1
7849	-	25	25	25	7899	15	340	325	340	7948	-	19	19	19
7850	1	543	542	543	7900	-	2	2	2	7949	-	-	-	-
7851	1	1	-	1	7901	-	1	1	1	7950	-	-	-	-
7852	1	52	51	52	7902	-	112	112	112	7951	3	4	1	4
7853	-	5	5	5	7903	11	1283	1272	1355	7952	-	-	-	-
7854	68	5197	5129	10373	7904	-	-	-	-	7953	-	1	1	1
7855	657	65388	64731	65395	7905	-	3	3	3	7954	-	-	-	-
7856	3	116	113	116	7906	3	657	654	788	7955	-	2	2	2
7859	-	10	10	10	7907	10	1021	1011	1047	7956	-	-	-	-
7860	73	9237	9164	9237	7908	10	182	172	182	7957	-	1	1	1
7861	-	12	12	12	7909	-	12	12	12	7960	-	8	8	8
7862	1	65	64	65	7910	-	21	21	21	7961	-	3	3	3
7863	72	3834	3762	3834	7911	-	2	2	2	7962	-	-	-	-
7864	1	2	1	2	7912	-	6	6	6	7963	-	-	-	-
7865	6	218	212	218	7913	1	50	49	50	7964	-	3	3	3
7866	-	26	26	26	7914	-	2	2	2	7969	-	-	-	-
7867	-	2	2	2	7915	-	4	4	4	797	1233	24573	23340	24890
7868	-	8	8	8	7916	-	2	2	2	7980	5510	6132	622	6132
7869	1	12	11	12	7917	-	1	1	1	7981	270	304	34	304
7870	5	954	949	961	7919	16	5207	5191	5207	7982	4	4	-	4
7871	-	2	2	2	7920	-	1	1	1	7989	128	139	11	139
7872	1	1127	1126	1127	7921	-	1	1	1	7990	53	9206	9153	9267
7873	-	113	113	113	7922	-	-	-	-	7991	1906	148757	146851	148757
7874	-	-	-	-	7923	-	-	-	-	7992	-	17	17	17
7875	-	-	-	-	7924	-	1	1	1	7993	40	8519	8479	8519
7876	-	21	21	21	7929	-	-	-	-	7994	45	10087	10042	10133
7877	-	-	-	-	7930	-	1	1	1	7998	211	9203	8992	9203
7879	-	2	2	2	7931	2	104	102	104	7999	17882	33627	15745	33627
7880	-	15	15	15	7932	-	20	20	20	E8000	13	13	-	13
7881	-	4	4	4	7933	-	-	-	-	E8001	-	-	-	-
7882	2	683	681	683	7934	-	-	-	-	E8002	-	-	-	-
7883	-	259	259	259	7935	-	-	-	-	E8003	-	-	-	-
7884	-	8	8	8	7936	-	-	-	-	E8008	-	-	-	-
7885	1	798	797	798	7937	-	-	-	-	E8009	-	-	-	-
7886	-	3	3	3	7938	-	-	-	-	E8010	-	-	-	-
7887	-	-	-	-	7939	-	3	3	3	E8011	-	-	-	-
7888	1	13	12	13	7940	-	1	1	1	E8012	-	-	-	-
7889	-	6	6	6	7941	-	1	1	1	E8013	2	2	-	2
7890	17	637	620	637	7942	-	3	3	3	E8018	-	-	-	-

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 1

NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD			
	UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS
E8019	1	1	-	1	E8107	1	1	-	1	E8151	1745	1757	12	1757
E8020	6	6	-	6	E8108	-	-	-	-	E8152	700	706	6	706
E8021	-	-	-	-	E8109	211	212	1	212	E8153	77	78	1	78
E8022	-	-	-	-	E8110	18	19	1	19	E8154	-	-	-	-
E8023	-	-	-	-	E8111	13	13	-	13	E8155	-	-	-	-
E8028	2	2	-	2	E8112	2	2	-	2	E8156	-	-	-	-
E8029	-	-	-	-	E8113	1	1	-	1	E8157	1	1	-	1
E8030	-	-	-	-	E8114	-	-	-	-	E8158	2	2	-	2
E8031	-	-	-	-	E8115	-	-	-	-	E8159	1153	1186	33	1186
E8032	-	-	-	-	E8116	-	-	-	-	E8160	4305	4364	60	4364
E8033	-	-	-	-	E8117	-	-	-	-	E8161	1921	1935	14	1935
E8038	-	-	-	-	E8118	-	-	-	-	E8162	533	537	4	537
E8039	1	1	-	1	E8119	2	2	-	2	E8163	77	77	-	77
E8040	3	3	-	3	E8120	8433	8546	114	8546	E8164	-	-	-	-
E8041	3	3	-	3	E8121	4553	4609	57	4609	E8165	-	-	-	-
E8042	-	-	-	-	E8122	1937	1950	13	1950	E8166	-	-	-	-
E8043	-	-	-	-	E8123	305	306	1	306	E8167	19	19	-	19
E8048	2	2	-	2	E8124	-	-	-	-	E8168	3	3	-	3
E8049	29	29	-	29	E8125	-	-	-	-	E8169	1945	1994	49	1994
E8050	38	38	-	38	E8126	-	-	-	-	E8170	-	-	-	-
E8051	-	-	-	-	E8127	55	55	-	55	E8171	3	3	-	3
E8052	450	452	2	452	E8128	2	2	-	2	E8172	-	-	-	-
E8053	4	4	-	4	E8129	3438	3490	52	3490	E8173	-	-	-	-
E8058	16	18	2	18	E8130	2	2	-	2	E8174	-	-	-	-
E8059	36	36	-	36	E8131	-	-	-	-	E8175	-	-	-	-
E8060	2	4	2	4	E8132	1	1	-	1	E8176	-	-	-	-
E8061	-	-	-	-	E8133	-	-	-	-	E8177	-	-	-	-
E8062	3	3	-	3	E8134	-	-	-	-	E8178	-	-	-	-
E8063	-	-	-	-	E8135	4	4	-	4	E8179	11	14	3	14
E8068	1	1	-	1	E8136	860	862	2	862	E8180	75	77	2	77
E8069	3	3	-	3	E8137	2	2	-	2	E8181	380	381	1	381
E8070	4	4	-	4	E8138	2	2	-	2	E8182	27	27	-	27
E8071	-	-	-	-	E8139	17	17	-	17	E8183	16	16	-	16
E8072	-	-	-	-	E8140	2	2	-	2	E8184	-	-	-	-
E8073	-	-	-	-	E8141	1	1	-	1	E8185	-	-	-	-
E8078	-	-	-	-	E8142	2	2	-	2	E8186	-	-	-	-
E8079	13	13	-	13	E8143	3	3	-	3	E8187	12	12	-	12
E8100	346	346	-	346	E8144	-	-	-	-	E8188	4	4	-	4
E8101	160	161	1	161	E8145	2	2	-	2	E8189	469	474	5	474
E8102	16	17	1	17	E8146	-	-	-	-	E8190	583	608	25	608
E8103	4	4	-	4	E8147	8195	8307	112	8307	E8191	424	438	14	438
E8104	-	-	-	-	E8148	-	-	-	-	E8192	116	118	2	118
E8105	-	-	-	-	E8149	3	3	-	3	E8193	24	24	-	24
E8106	1	1	-	1	E8150	4291	4360	70	4360	E8194	-	-	-	-

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 1

NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

ICD-9 CGDE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	UC	RECORD COUNT BY CODE FIELD				ICD-9 CODE	UC	RECORD COUNT BY CODE FIELD			
	UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS			UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS			UC	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS
E8195	-	-	-	-	E8239	28	28	-	28	E8292	-	-	-	-		
E8196	-	-	-	-	E8240	-	-	-	-	E8293	-	-	-	-		
E8197	5	5	-	5	E8241	1	1	-	1	E8294	-	-	-	-		
E8198	-	-	-	-	E8242	-	-	-	-	E8298	1	2	1	2		
E8199	4415	4643	229	4643	E8243	-	-	-	-	E8299	1	1	-	1		
E8200	16	16	-	16	E8244	-	-	-	-	E8300	138	139	1	139		
E8201	2	2	-	2	E8245	-	-	-	-	E8301	25	25	-	25		
E8202	-	-	-	-	E8246	-	-	-	-	E8302	45	45	-	45		
E8203	-	-	-	-	E8247	-	-	-	-	E8303	2	2	-	2		
E8204	-	-	-	-	E8248	1	1	-	1	E8304	-	-	-	-		
E8205	-	-	-	-	E8249	6	7	1	7	E8305	-	-	-	-		
E8206	-	-	-	-	E8250	40	40	-	40	E8306	-	-	-	-		
E8207	2	2	-	2	E8251	79	80	1	80	E8308	1	1	-	1		
E8208	4	4	-	4	E8252	21	21	-	21	E8309	395	397	2	397		
E8209	55	55	-	55	E8253	-	-	-	-	E8310	5	5	-	5		
E8210	23	23	-	23	E8254	-	-	-	-	E8311	20	20	-	20		
E8211	10	10	-	10	E8255	-	-	-	-	E8312	1	1	-	1		
E8212	5	5	-	5	E8256	-	-	-	-	E8313	-	-	-	-		
E8213	-	-	-	-	E8257	8	8	-	8	E8314	-	-	-	-		
E8214	-	-	-	-	E8258	2	2	-	2	E8315	-	-	-	-		
E8215	2	2	-	2	E8259	214	222	8	222	E8316	-	-	-	-		
E8216	-	-	-	-	E8260	20	20	-	20	E8318	1	1	-	1		
E8217	6	6	-	6	E8261	82	83	1	83	E8319	30	32	2	32		
E8218	2	2	-	2	E8262	-	-	-	-	E8320	91	91	-	91		
E8219	35	35	-	35	E8263	-	-	-	-	E8321	29	29	-	29		
E8220	15	15	-	15	E8264	-	-	-	-	E8322	30	30	-	30		
E8221	11	11	-	11	E8268	-	-	-	-	E8323	-	-	-	-		
E8222	14	14	-	14	E8269	6	7	1	7	E8324	-	-	-	-		
E8223	1	1	-	1	E8270	-	-	-	-	E8325	-	-	-	-		
E8224	-	-	-	-	E8271	-	-	-	-	E8326	1	1	-	1		
E8225	-	-	-	-	E8272	-	-	-	-	E8328	-	-	-	-		
E8226	7	7	-	7	E8273	2	2	-	2	E8329	457	462	5	462		
E8227	551	561	10	561	E8274	-	-	-	-	E8330	-	-	-	-		
E8228	1	1	-	1	E8278	-	-	-	-	E8331	-	-	-	-		
E8229	28	30	2	30	E8279	1	1	-	1	E8332	-	-	-	-		
E8230	18	19	1	19	E8280	-	-	-	-	E8333	-	-	-	-		
E8231	10	10	-	10	E8281	-	-	-	-	E8334	-	-	-	-		
E8232	21	22	1	22	E8282	108	113	5	113	E8335	-	-	-	-		
E8233	2	2	-	2	E8283	-	1	1	1	E8336	-	-	-	-		
E8234	-	-	-	-	E8284	-	-	-	-	E8338	-	-	-	-		
E8235	-	-	-	-	E8288	-	-	-	-	E8339	-	-	-	-		
E8236	-	-	-	-	E8289	4	6	2	6	E8340	-	-	-	-		
E8237	1	1	-	1	E8290	6	6	-	6	E8341	-	-	-	-		
E8238	-	-	-	-	E8291	1	1	-	1	E8342	1	2	1	2		

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
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NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD			
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E8343	-	-	-	-	E8402	11	11	-	11	E8446	-	-	-	-
E8344	-	-	-	-	E8403	82	82	-	82	E8447	45	45	-	45
E8345	-	-	-	-	E8404	1	1	-	1	E8448	3	3	-	3
E8346	1	1	-	1	E8405	31	31	-	31	E8449	9	9	-	9
E8348	1	1	-	1	E8406	-	-	-	-	E8450	-	-	-	-
E8349	1	1	-	1	E8407	-	-	-	-	E8451	-	-	-	-
E8350	-	-	-	-	E8408	-	-	-	-	E8452	-	-	-	-
E8351	-	-	-	-	E8409	3	3	-	3	E8453	-	-	-	-
E8352	3	3	-	3	E8410	-	-	-	-	E8454	-	-	-	-
E8353	1	1	-	1	E8411	69	69	-	69	E8455	-	-	-	-
E8354	-	-	-	-	E8412	97	97	-	97	E8456	-	-	-	-
E8355	-	-	-	-	E8413	826	832	6	832	E8457	-	-	-	-
E8356	-	-	-	-	E8414	48	49	1	49	E8458	-	-	-	-
E8358	-	-	-	-	E8415	200	200	-	200	E8459	-	-	-	-
E8359	-	-	-	-	E8416	-	-	-	-	E846	20	20	-	20
E8360	-	-	-	-	E8417	-	-	-	-	E847	-	-	-	-
E8361	-	-	-	-	E8418	1	1	-	1	E848	16	19	3	19
E8362	3	3	-	3	E8419	11	11	-	11	E8500	322	351	29	351
E8363	-	-	-	-	E8420	-	-	-	-	E8501	75	93	18	93
E8364	-	-	-	-	E8421	-	-	-	-	E8502	21	26	5	26
E8365	-	-	-	-	E8422	1	1	-	1	E8503	2	2	-	2
E8366	1	1	-	1	E8423	-	-	-	-	E8504	2	2	-	2
E8368	-	-	-	-	E8424	-	-	-	-	E8505	117	123	6	123
E8369	-	-	-	-	E8425	-	-	-	-	E8508	97	421	324	421
E8370	-	-	-	-	E8426	47	47	-	47	E8509	-	-	-	-
E8371	-	1	1	1	E8427	1	1	-	1	E851	155	164	9	164
E8372	7	7	-	7	E8428	-	-	-	-	E8520	9	10	1	10
E8373	1	1	-	1	E8429	-	-	-	-	E8521	2	2	-	2
E8374	-	-	-	-	E8430	-	-	-	-	E8522	1	1	-	1
E8375	-	-	-	-	E8431	1	1	-	1	E8523	7	18	11	18
E8376	-	-	-	-	E8432	-	-	-	-	E8524	6	8	2	8
E8378	2	2	-	2	E8433	-	-	-	-	E8525	11	12	1	12
E8379	-	-	-	-	E8434	-	-	-	-	E8528	19	21	2	21
E8380	4	4	-	4	E8435	-	-	-	-	E8529	4	7	3	7
E8381	21	21	-	21	E8436	1	1	-	1	E8530	35	43	8	43
E8382	8	8	-	8	E8437	2	2	-	2	E8531	-	-	-	-
E8383	-	-	-	-	E8438	-	-	-	-	E8532	53	68	15	68
E8384	6	6	-	6	E8439	-	-	-	-	E8538	15	18	3	18
E8385	2	2	-	2	E8440	-	-	-	-	E8539	7	8	1	8
E8386	1	1	-	1	E8441	-	-	-	-	E8540	141	155	14	155
E8388	30	30	-	30	E8442	1	1	-	1	E8541	2	4	2	4
E8389	64	66	2	66	E8443	1	1	-	1	E8542	18	23	5	23
E8400	-	-	-	-	E8444	-	-	-	-	E8543	-	-	-	-
E8401	2	2	-	2	E8445	-	-	-	-	E8550	6	12	6	12

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
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ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	UC	RECORD COUNT BY CODE FIELD			ICD-9 CODE	UC	RECORD COUNT BY CODE FIELD			
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E8551	36	36	-	36	E8633	-	-	-	-	E8701	2	3	1	3	
E8552	109	137	28	137	E8634	4	6	2	6	E8702	2	2	-	2	
E8553	-	1	1	1	E8635	2	2	-	2	E8703	-	-	-	-	
E8554	4	5	1	5	E8636	2	3	1	3	E8704	7	10	3	10	
E8555	2	2	-	2	E8637	-	1	1	1	E8705	17	21	4	21	
E8556	-	-	-	-	E8638	2	2	-	2	E8706	13	14	1	14	
E8558	2	2	-	2	E8639	4	6	2	6	E8707	7	10	3	10	
E8559	-	2	2	2	E8640	2	3	1	3	E8708	25	29	4	29	
E856	50	87	37	87	E8641	3	3	-	3	E8709	6	8	2	8	
E857	7	8	1	8	E8642	8	9	1	9	E8710	2	3	1	3	
E8580	20	28	8	28	E8643	2	2	-	2	E8711	-	-	-	-	
E8581	24	43	19	43	E8644	3	3	-	3	E8712	-	-	-	-	
E8582	17	32	15	32	E8650	-	-	-	-	E8713	-	-	-	-	
E8583	190	572	382	572	E8651	2	2	-	2	E8714	-	-	-	-	
E8584	3	5	2	5	E8652	1	1	-	1	E8715	-	-	-	-	
E8585	13	32	19	32	E8653	2	2	-	2	E8716	-	-	-	-	
E8586	13	26	13	26	E8654	3	3	-	3	E8717	-	-	-	-	
E8587	9	11	2	11	E8655	2	5	3	5	E8718	-	-	-	-	
E8588	404	438	34	438	E8658	-	1	1	1	E8719	1	3	2	3	
E8589	462	546	84	546	E8659	3	3	-	3	E8720	-	-	-	-	
E8600	3	4	1	4	E8660	5	7	2	7	E8721	-	-	-	-	
E8601	182	279	97	279	E8661	-	2	2	2	E8722	-	-	-	-	
E8602	19	21	2	21	E8662	-	-	-	-	E8723	-	-	-	-	
E8603	14	14	-	14	E8663	3	3	-	3	E8724	-	-	-	-	
E8604	1	1	-	1	E8664	7	26	19	26	E8725	-	-	-	-	
E8608	3	3	-	3	E8665	1	1	-	1	E8726	-	-	-	-	
E8609	163	261	98	261	E8666	-	2	2	2	E8728	-	-	-	-	
E8610	1	1	-	1	E8667	2	3	1	3	E8729	-	-	-	-	
E8611	1	2	1	2	E8668	6	13	7	13	E8730	-	1	1	1	
E8612	3	4	1	4	E8669	40	45	5	45	E8731	-	-	-	-	
E8613	1	4	3	4	E867	61	62	1	62	E8732	3	8	5	8	
E8614	5	7	2	7	E8680	23	23	-	23	E8733	-	-	-	-	
E8615	-	-	-	-	E8681	29	30	1	30	E8734	-	-	-	-	
E8616	3	6	3	6	E8682	611	616	5	616	E8735	-	-	-	-	
E8619	1	1	-	1	E8683	106	109	3	109	E8736	-	1	1	1	
E8620	-	1	1	1	E8688	18	20	2	20	E8738	3	4	1	4	
E8621	22	25	3	25	E8689	219	247	28	247	E8739	1	1	-	1	
E8622	-	-	-	-	E8690	7	11	4	11	E8740	3	3	-	3	
E8623	-	-	-	-	E8691	-	-	-	-	E8741	1	1	-	1	
E8624	51	57	6	57	E8692	6	6	-	6	E8742	1	1	-	1	
E8629	5	6	1	6	E8693	1	1	-	1	E8743	-	-	-	-	
E8630	4	6	2	6	E8698	151	184	33	184	E8744	-	-	-	-	
E8631	0	8	2	8	E8699	10	18	8	18	E8745	-	-	-	-	
E8632	-	-	-	-	E8700	62	71	9	71	E8748	5	6	1	6	

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
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E8749	-	-	-	-	E8842	544	1001	457	1001	E903	-	1	1	1
E8750	-	44	44	44	E8849	409	461	52	461	E9040	16	19	3	19
E8751	-	1	1	1	E885	406	695	289	695	E9041	149	334	185	334
E8752	-	-	-	-	E8860	4	5	1	5	E9042	-	3	3	3
E8758	-	-	-	-	E8869	5	7	2	7	E9043	249	379	130	379
E8759	2	2	-	2	E887	2914	13946	11032	13946	E9049	1	2	1	2
E8760	3	4	1	4	E888	6222	10482	4260	10482	E9050	3	5	2	5
E8761	1	1	-	1	E8900	2	2	-	2	E9051	3	3	-	3
E8762	-	1	1	1	E8901	-	-	-	-	E9052	-	-	-	-
E8763	7	8	1	8	E8902	2965	3002	37	3002	E9053	38	40	2	40
E8764	-	-	-	-	E8903	1285	1316	31	1316	E9054	-	-	-	-
E8765	1	1	-	1	E8908	185	185	-	185	E9055	3	3	-	3
E8768	35	46	11	46	E8909	72	87	15	87	E9056	-	-	-	-
E8769	3	3	-	3	E8910	5	5	-	5	E9057	-	-	-	-
E8780	15	280	265	280	E8911	-	-	-	-	E9058	-	-	-	-
E8781	167	2906	2739	2906	E8912	199	202	3	202	E9059	-	2	2	2
E8782	127	3223	3096	3223	E8913	62	63	1	63	E9060	17	19	2	19
E8783	122	973	851	973	E8918	14	16	2	16	E9061	-	2	2	2
E8784	73	1440	1367	1440	E8919	12	12	-	12	E9062	-	-	-	-
E8785	281	1086	805	1086	E892	66	70	4	70	E9063	3	5	2	5
E8786	182	5531	5349	5531	E8930	111	129	18	129	E9064	2	7	5	7
E8788	225	2512	2287	2512	E8931	7	8	1	8	E9068	70	76	6	76
E8789	566	6488	5922	6488	E8932	35	37	2	37	E9069	15	16	1	16
E8790	15	75	60	75	E8938	97	105	8	105	E907	94	98	4	98
E8791	11	123	112	123	E8939	61	69	8	69	E908	75	75	-	75
E8792	8	1239	1231	1239	E894	105	112	7	112	E909	43	43	-	43
E8793	-	5	5	5	E895	37	44	7	44	E9100	11	12	1	12
E8794	7	14	7	14	E896	3	3	-	3	E9101	79	80	1	80
E8795	1	1	-	1	E897	26	27	1	27	E9102	1640	1651	11	1651
E8796	93	263	170	263	E8980	53	57	4	57	E9103	72	72	-	72
E8797	-	-	-	-	E8981	132	141	9	141	E9104	331	383	52	383
E8798	174	795	621	795	E899	288	446	158	446	E9108	2866	2921	55	2921
E8799	2	64	62	64	E9000	651	765	114	765	E9109	1044	1074	30	1074
E8800	1	2	1	2	E9001	22	23	2	23	E911	1943	4980	3037	4980
E8809	1348	1539	191	1539	E9009	1027	1359	332	1359	E912	1306	8370	7064	8370
E8810	279	307	28	307	E9010	302	369	67	369	E9130	182	182	1	182
E8811	108	112	4	112	E9011	1	1	-	1	E9131	34	34	-	34
E882	734	775	41	775	E9018	7	7	-	7	E9132	26	27	1	27
E8830	63	69	0	69	E9019	397	695	298	695	E9133	141	143	2	143
E8831	5	6	1	6	E9020	-	1	1	1	E9138	348	357	9	357
E8832	2	2	-	2	E9021	-	-	-	-	E9139	141	160	19	160
E8839	90	99	9	99	E9022	5	5	-	5	E914	-	-	-	-
E8840	10	11	1	11	E9028	-	-	-	-	E915	52	124	72	124
E8841	150	150	-	150	E9029	1	2	1	2	E916	1037	1054	17	1054

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
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E9170	40	46	6	46	E9258	542	548	6	548	E9320	-	297	297	297
E9171	-	-	-	-	E9259	148	153	5	153	E9321	-	15	15	15
E9172	5	5	-	5	E9260	-	-	-	-	E9322	-	14	14	14
E9179	273	298	25	298	E9261	-	-	-	-	E9323	2	87	85	87
E918	135	139	4	139	E9262	1	2	1	2	E9324	-	1	1	1
E9190	814	829	15	829	E9263	-	-	-	-	E9325	-	2	2	2
E9191	78	78	-	78	E9264	-	-	-	-	E9326	-	-	-	-
E9192	239	243	4	243	E9265	-	1	1	1	E9327	-	-	-	-
E9193	17	17	-	17	E9268	1	1	-	1	E9328	-	2	2	2
E9194	16	17	1	17	E9269	-	-	-	-	E9329	1	3	2	3
E9195	-	-	-	-	E927	33	54	21	54	E9330	1	1	-	1
E9196	29	29	-	29	E9280	-	-	-	-	E9331	1	986	985	986
E9197	101	105	5	105	E9281	-	-	-	-	E9332	-	-	-	-
E9198	125	127	2	127	E9282	-	-	-	-	E9333	-	1	1	1
E9199	52	53	1	53	E9288	29	33	4	33	E9334	-	-	-	-
E9200	9	10	1	10	E9289	1922	3465	1543	3465	E9335	-	-	-	-
E9201	21	22	1	22	E9290	162	239	77	239	E9338	-	2	2	2
E9202	1	1	-	1	E9291	5	7	2	7	E9339	-	-	-	-
E9203	9	9	-	9	E9292	19	43	24	43	E9340	1	1	-	1
E9204	6	7	1	7	E9293	217	1315	1098	1315	E9341	-	8	8	8
E9208	71	76	5	76	E9294	3	19	16	19	E9342	2	214	212	214
E9209	26	37	11	37	E9295	9	15	6	15	E9343	-	-	-	-
E9210	17	17	-	17	E9298	52	108	56	108	E9344	1	1	-	1
E9211	18	18	-	18	E9299	218	582	364	582	E9345	1	7	6	7
E9218	36	38	2	38	E9300	17	50	33	50	E9346	-	1	1	1
E9219	-	1	1	1	E9301	-	1	1	1	E9347	-	1	1	1
E9220	288	289	1	289	E9302	-	2	2	2	E9348	1	2	1	2
E9221	283	286	3	286	E9303	-	1	1	1	E9349	-	1	1	1
E9222	129	131	2	131	E9304	-	-	-	-	E9350	4	14	10	14
E9223	-	-	-	-	E9305	2	7	5	7	E9351	2	42	40	42
E9228	2	2	-	2	E9306	-	7	7	7	E9352	1	11	10	11
E9229	1253	1279	27	1279	E9307	-	75	75	75	E9353	-	4	4	4
E9230	10	10	-	10	E9308	1	22	21	22	E9354	2	13	11	13
E9231	10	10	-	10	E9309	2	36	34	36	E9355	2	2	-	2
E9232	142	150	8	150	E9310	-	12	12	12	E9358	-	4	4	4
E9238	104	108	4	108	E9311	-	3	3	3	E9359	-	4	4	4
E9239	73	79	6	79	E9312	-	-	-	-	E9360	-	-	-	-
E9240	161	192	31	192	E9313	-	-	-	-	E9361	2	18	16	18
E9241	12	17	5	17	E9314	1	2	1	2	E9362	-	-	-	-
E9248	21	35	14	35	E9315	-	-	-	-	E9363	1	3	2	3
E9249	-	-	-	-	E9316	-	-	-	-	E9364	-	-	-	-
E9250	177	178	1	178	E9317	-	-	-	-	E9370	1	2	1	2
E9251	122	123	1	123	E9318	1	8	7	8	E9371	-	-	-	-
E9252	106	108	2	108	E9319	-	2	2	2	E9372	-	-	-	-

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 MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
 CONTROL TOTAL TABLE 1

NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
 OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	UC	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD			
	UC	TOTAL RECORD MENTION	AXIS SECOND- ARY	ENTITY AXIS			UC	TOTAL RECORD MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC	TOTAL RECORD MENTION	AXIS SECOND- ARY	ENTITY AXIS
E9373	-	1	1	1	E9430	-	3	3	3	E9481	-	1	1	1	
E9374	-	-	-	-	E9431	-	-	-	-	E9482	-	-	-	-	
E9375	-	-	-	-	E9432	-	-	-	-	E9483	-	-	-	-	
E9376	-	-	-	-	E9433	-	1	1	1	E9484	-	1	1	1	
E9378	-	-	-	-	E9434	-	-	-	-	E9485	-	1	1	1	
E9379	2	4	2	4	E9435	-	-	-	-	E9486	-	1	1	1	
E9380	-	1	1	1	E9436	-	-	-	-	E9488	-	-	-	-	
E9381	-	13	13	13	E9438	-	-	-	-	E9489	-	-	-	-	
E9382	-	4	4	4	E9439	-	-	-	-	E9490	-	-	-	-	
E9383	-	4	4	4	E9440	-	-	-	-	E9491	-	-	-	-	
E9384	1	23	22	23	E9441	1	2	1	2	E9492	-	-	-	-	
E9385	1	6	5	6	E9442	-	-	-	-	E9493	-	-	-	-	
E9386	-	-	-	-	E9443	-	3	3	3	E9494	-	-	-	-	
E9387	-	7	7	7	E9444	-	15	15	15	E9495	-	-	-	-	
E9389	13	152	139	152	E9445	-	-	-	-	E9496	-	1	1	1	
E9390	1	3	2	3	E9446	-	1	1	1	E9497	-	-	-	-	
E9391	4	28	24	28	E9447	1	9	8	9	E9499	-	2	2	2	
E9392	-	1	1	1	E9450	-	-	-	-	E9500	310	314	4	314	
E9393	-	2	2	2	E9451	-	-	-	-	E9501	498	507	9	507	
E9394	-	3	3	3	E9452	-	1	1	1	E9502	99	106	7	106	
E9395	-	1	1	1	E9453	-	-	-	-	E9503	754	767	13	767	
E9396	-	-	-	-	E9454	-	-	-	-	E9504	562	574	12	574	
E9397	-	2	2	2	E9455	-	1	1	1	E9505	538	561	23	561	
E9398	-	1	1	1	E9456	-	-	-	-	E9506	57	59	2	59	
E9399	-	2	2	2	E9457	-	4	4	4	E9507	49	53	4	53	
E9400	-	-	-	-	E9458	-	1	1	1	E9508	9	10	1	10	
E9401	-	-	-	-	E9460	-	7	7	7	E9509	159	268	110	268	
E9408	-	-	-	-	E9461	1	1	-	1	E9510	23	25	2	25	
E9409	-	-	-	-	E9462	-	-	-	-	E9511	12	12	-	12	
E9410	-	-	-	-	E9463	-	-	-	-	E9518	3	4	1	4	
E9411	-	3	3	3	E9464	-	-	-	-	E9520	1998	2004	6	2004	
E9412	1	2	1	2	E9465	1	1	-	1	E9521	361	364	3	364	
E9413	-	1	1	1	E9466	-	-	-	-	E9528	18	20	2	20	
E9419	-	-	-	-	E9467	-	-	-	-	E9529	3	4	1	4	
E9420	2	36	34	36	E9468	-	-	-	-	E9530	3401	3411	10	3411	
E9421	2	37	35	37	E9469	-	-	-	-	E9531	177	181	4	181	
E9422	-	-	-	-	E9470	-	1	1	1	E9538	49	50	1	50	
E9423	-	-	-	-	E9471	-	-	-	-	E9539	64	65	1	65	
E9424	1	2	1	2	E9472	-	-	-	-	E954	547	555	8	555	
E9425	-	1	1	1	E9473	1	2	1	2	E9550	2109	2118	9	2118	
E9426	-	11	11	11	E9474	-	-	-	-	E9551	1975	1980	5	1980	
E9427	-	-	-	-	E9478	28	104	76	104	E9552	1017	1022	5	1022	
E9428	-	-	-	-	E9479	44	263	219	263	E9553	3	3	-	3	
E9429	-	-	-	-	E9480	-	-	-	-	E9554	10292	10334	43	10334	

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
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NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD			
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E9555	6	6	-	6	E9683	12	13	1	13	E9871	54	56	2	56
E9559	2	3	1	3	E9684	17	27	10	27	E9872	2	2	-	2
E956	395	434	39	434	E9688	905	1070	165	1070	E9879	56	59	3	59
E9570	344	344	-	344	E9689	1124	1312	188	1312	E9880	24	24	-	24
E9571	351	355	4	355	E969	32	47	15	47	E9881	247	256	9	256
E9572	14	14	-	14	E970	303	304	1	304	E9882	5	8	3	8
E9579	163	165	2	165	E971	-	1	1	1	E9883	17	25	8	25
E9580	182	182	-	182	E972	1	1	-	1	E9884	8	9	1	9
E9581	148	153	5	153	E973	-	-	-	-	E9885	10	10	-	10
E9582	1	1	-	1	E974	-	-	-	-	E9886	1	1	-	1
E9583	4	7	3	7	E975	4	4	-	4	E9887	-	-	-	-
E9584	24	24	-	24	E976	2	2	-	2	E9888	155	179	24	179
E9585	39	41	2	41	E977	1	1	-	1	E9889	633	712	79	712
E9586	2	2	-	2	E978	-	-	-	-	E989	30	54	24	54
E9587	-	-	-	-	E9800	202	221	19	221	E9900	-	-	-	-
E9588	39	42	3	42	E9801	65	68	3	68	E9909	-	-	-	-
E9589	56	72	16	72	E9802	28	31	3	31	E9910	-	-	-	-
E959	12	16	4	16	E9803	140	154	14	154	E9911	-	-	-	-
E9600	116	128	12	128	E9804	174	187	13	187	E9912	-	-	-	-
E9601	3	21	18	21	E9805	217	230	13	230	E9913	-	-	-	-
E961	2	3	1	3	E9806	3	4	1	4	E9919	2	2	-	2
E9620	15	21	6	21	E9807	5	6	1	6	E992	-	-	-	-
E9621	6	6	-	6	E9808	4	5	1	5	E993	-	1	1	1
E9622	23	27	4	27	E9809	55	91	36	91	E994	-	-	-	-
E9629	-	1	1	1	E9810	-	-	-	-	E995	-	-	-	-
E963	930	1017	87	1017	E9811	-	1	1	1	E996	-	-	-	-
E964	75	93	18	93	E9818	1	1	-	1	E9970	-	1	1	1
E9650	982	985	3	985	E9820	177	181	4	181	E9971	-	-	-	-
E9651	1495	1505	10	1505	E9821	61	64	3	64	E9972	-	-	-	-
E9652	234	235	1	235	E9828	8	9	1	9	E9978	-	-	-	-
E9653	1	1	-	1	E9829	-	-	-	-	E9979	-	-	-	-
E9654	12788	12859	72	12859	E9830	56	57	1	57	E998	-	-	-	-
E9655	1	1	-	1	E9831	3	4	1	4	E999	21	40	19	40
E9656	-	-	-	-	E9838	14	14	-	14	N800	...	314	314	314
E9657	-	-	-	-	E9839	12	15	3	15	N801	...	2416	2416	2416
E9658	15	15	-	15	E984	474	482	9	482	N802	...	941	941	941
E9659	6	6	-	6	E9850	60	60	-	60	N803	...	11336	11336	11336
E966	4354	4611	257	4611	E9851	73	73	-	73	N805	...	6604	6604	6604
E9670	18	18	-	18	E9852	28	28	-	28	N806	...	9	9	9
E9671	4	4	-	4	E9853	-	-	-	-	N807	...	4906	4906	4906
E9679	174	181	7	181	E9854	465	477	12	477	N808	...	2113	2113	2113
E9680	262	303	41	303	E9855	3	3	-	3	N809	...	39	39	39
E9681	30	32	2	32	E986	36	40	4	40	N810	...	353	353	353
E9682	343	351	8	351	E9870	57	58	1	58	N811	...	41	41	41

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
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NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD			
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N812	...	1412	1412	1412	N862	...	11313	11313	11313	N9055	...	33	33	33
N813	...	275	275	275	N863	...	1184	1184	1184	N9056	...	21	21	21
N814	...	287	287	287	N864	...	3276	3276	3276	N9057	...	1	1	1
N815	...	20	20	20	N865	...	1744	1744	1744	N9058	...	1	1	1
N816	...	13	13	13	N866	...	544	544	544	N9059	...	2	2	2
N817	...	1	1	1	N867	...	309	309	309	N9060	...	76	76	76
N818	...	407	407	407	N868	...	4646	4646	4646	N9061	...	4	4	4
N819	...	157	157	157	N869	...	7739	7739	7739	N9062	...	-	-	-
N820	...	15409	15409	15409	N870	...	15	15	15	N9063	...	12	12	12
N821	...	3420	3420	3420	N871	...	82	82	82	N9064	...	4	4	4
N822	...	191	191	191	N872	...	54	54	54	N9065	...	1	1	1
N823	...	723	723	723	N873	...	16840	16840	16840	N9066	...	2	2	2
N824	...	307	307	307	N874	...	2641	2641	2641	N9067	...	3	3	3
N825	...	52	52	52	N875	...	11501	11501	11501	N9068	...	6	6	6
N826	...	3	3	3	N876	...	1223	1223	1223	N9069	...	14	14	14
N827	...	797	797	797	N877	...	82	82	82	N9070	...	760	760	760
N828	...	664	664	664	N878	...	24	24	24	N9071	...	3	3	3
N829	...	2611	2611	2611	N879	...	14543	14543	14543	N9072	...	209	209	209
N830	...	9	9	9	N880	...	357	357	357	N9073	...	1	1	1
N831	...	53	53	53	N881	...	256	256	256	N9074	...	-	-	-
N832	...	9	9	9	N882	...	126	126	126	N9075	...	-	-	-
N833	...	4	4	4	N883	...	24	24	24	N9079	...	11	11	11
N834	...	-	-	-	N884	...	656	656	656	N9080	...	24	24	24
N835	...	69	69	69	N885	...	3	3	3	N9081	...	11	11	11
N836	...	24	24	24	N886	...	15	15	15	N9082	...	6	6	6
N837	...	5	5	5	N887	...	67	67	67	N9083	...	8	8	8
N838	...	1	1	1	N890	...	240	240	240	N9084	...	3	3	3
N839	...	429	429	429	N891	...	312	312	312	N9085	...	11	11	11
N840	...	1	1	1	N892	...	20	20	20	N9086	...	32	32	32
N841	...	-	-	-	N893	...	3	3	3	N9089	...	160	160	160
N842	...	1	1	1	N894	...	34	34	34	N9090	...	28	28	28
N843	...	4	4	4	N895	...	-	-	-	N9091	...	35	35	35
N844	...	3	3	3	N896	...	24	24	24	N9092	...	8	8	8
N845	...	8	8	8	N897	...	173	173	173	N9093	...	731	731	731
N846	...	6	6	6	N900	...	545	545	545	N9094	...	26	26	26
N847	...	35	35	35	N901	...	3873	3873	3873	N9099	...	2	2	2
N848	...	19	19	19	N902	...	740	740	740	N910	...	147	147	147
N850	...	732	732	732	N903	...	138	138	138	N911	...	95	95	95
N851	...	6923	6923	6923	N904	...	709	709	709	N912	...	9	9	9
N852	...	6701	6701	6701	N9050	...	64	64	64	N913	...	38	38	38
N853	...	4535	4535	4535	N9051	...	152	152	152	N914	...	14	14	14
N854	...	27206	27206	27206	N9052	...	57	57	57	N915	...	-	-	-
N860	...	3472	3472	3472	N9053	...	895	895	895	N916	...	44	44	44
N861	...	7848	7848	7848	N9054	...	88	88	88	N917	...	2	2	2

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 1

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OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	RECORD COUNT BY CODE FIELD			
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N918	...	9	9	9	N9440	...	12	12	12	N9584	...	3708	3708	3708
N919	...	448	448	448	N9441	...	1	1	1	N9585	...	8	8	8
N920	...	449	449	449	N9442	...	11	11	11	N9586	...	2	2	2
N921	...	49	49	49	N9443	...	13	13	13	N9587	...	186	186	186
N922	...	376	376	376	N9444	...	1	1	1	N9588	...	4386	4386	4386
N923	...	76	76	76	N9450	...	87	87	87	N9590	...	2303	2303	2303
N924	...	912	912	912	N9451	...	2	2	2	N9591	...	2594	2594	2594
N925	...	139	139	139	N9452	...	32	32	32	N9592	...	192	192	192
N926	...	93	93	93	N9453	...	67	67	67	N9593	...	82	82	82
N927	...	28	28	28	N9454	...	-	-	-	N9594	...	12	12	12
N928	...	63	63	63	N9470	...	5	5	5	N9595	...	2	2	2
N929	...	722	722	722	N9471	...	65	65	65	N9596	...	153	153	153
N930	...	-	-	-	N9472	...	5	5	5	N9597	...	304	304	304
N931	...	-	-	-	N9473	...	5	5	5	N9598	...	13449	13449	13449
N932	...	4	4	4	N9474	...	-	-	-	N9599	...	8620	8620	8620
N933	...	10847	10847	10847	N9478	...	9	9	9	N9600	...	5	5	5
N934	...	920	920	920	N9479	...	20	20	20	N9601	...	2	2	2
N935	...	56	56	56	N9480	...	15	15	15	N9602	...	4	4	4
N936	...	28	28	28	N9481	...	54	54	54	N9603	...	2	2	2
N937	...	4	4	4	N9482	...	104	104	104	N9604	...	1	1	1
N938	...	11	11	11	N9483	...	132	132	132	N9605	...	-	-	-
N939	...	2	2	2	N9484	...	136	136	136	N9606	...	3	3	3
N9400	...	-	-	-	N9485	...	153	153	153	N9607	...	44	44	44
N9401	...	-	-	-	N9486	...	134	134	134	N9608	...	25	25	25
N9402	...	-	-	-	N9487	...	158	158	158	N9609	...	8	8	8
N9403	...	-	-	-	N9488	...	184	184	184	N9610	...	1	1	1
N9404	...	-	-	-	N9489	...	1399	1399	1399	N9611	...	-	-	-
N9405	...	-	-	-	N9490	...	2587	2587	2587	N9612	...	-	-	-
N9409	...	1	1	1	N9491	...	7	7	7	N9613	...	2	2	2
N9410	...	81	81	81	N9492	...	67	67	67	N9614	...	14	14	14
N9411	...	1	1	1	N9493	...	351	351	351	N9615	...	1	1	1
N9412	...	21	21	21	N9494	...	36	36	36	N9616	...	-	-	-
N9413	...	56	56	56	N950	...	2	2	2	N9617	...	-	-	-
N9414	...	1	1	1	N951	...	7	7	7	N9618	...	11	11	11
N9420	...	576	576	576	N952	...	2287	2287	2287	N9619	...	1	1	1
N9421	...	12	12	12	N953	...	10	10	10	N9620	...	7	7	7
N9422	...	52	52	52	N954	...	16	16	16	N9621	...	-	-	-
N9423	...	208	208	208	N955	...	-	-	-	N9622	...	-	-	-
N9424	...	11	11	11	N956	...	2	2	2	N9623	...	74	74	74
N9430	...	65	65	65	N957	...	41	41	41	N9624	...	-	-	-
N9431	...	1	1	1	N9580	...	50	50	50	N9625	...	-	-	-
N9432	...	21	21	21	N9581	...	158	158	158	N9626	...	-	-	-
N9433	...	54	54	54	N9582	...	1	1	1	N9627	...	-	-	-
N9434	...	1	1	1	N9583	...	35	35	35	N9628	...	1	1	1

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 MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
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NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
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	UC TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS		UC TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS			
N9629	...	-	-	-	N9683	...	5	5	5	N9740	...	-	-	-
N9630	...	76	76	76	N9684	...	1	1	1	N9741	...	43	43	43
N9631	...	37	37	37	N9685	...	212	212	212	N9742	...	1	1	1
N9632	...	-	-	-	N9686	...	-	-	-	N9743	...	4	4	4
N9633	...	-	-	-	N9687	...	-	-	-	N9744	...	1	1	1
N9634	...	-	-	-	N9689	...	59	59	59	N9745	...	1	1	1
N9635	...	3	3	3	N9690	...	1051	1051	1051	N9746	...	6	6	6
N9638	...	2	2	2	N9691	...	195	195	195	N9747	...	11	11	11
N9639	...	-	-	-	N9692	...	7	7	7	N9750	...	-	-	-
N9640	...	5	5	5	N9693	...	9	9	9	N9751	...	1	1	1
N9641	...	-	-	-	N9694	...	592	592	592	N9752	...	5	5	5
N9642	...	30	30	30	N9695	...	141	141	141	N9753	...	-	-	-
N9643	...	1	1	1	N9696	...	9	9	9	N9754	...	4	4	4
N9644	...	-	-	-	N9697	...	67	67	67	N9755	...	6	6	6
N9645	...	-	-	-	N9698	...	4	4	4	N9756	...	4	4	4
N9646	...	-	-	-	N9699	...	14	14	14	N9757	...	12	12	12
N9647	...	-	-	-	N9700	...	-	-	-	N9758	...	17	17	17
N9648	...	-	-	-	N9701	...	-	-	-	N9760	...	7	7	7
N9649	...	-	-	-	N9708	...	-	-	-	N9761	...	-	-	-
N9650	...	873	873	873	N9709	...	-	-	-	N9762	...	7	7	7
N9651	...	290	290	290	N9710	...	2	2	2	N9763	...	1	1	1
N9654	...	151	151	151	N9711	...	12	12	12	N9764	...	5	5	5
N9655	...	2	2	2	N9712	...	8	8	8	N9765	...	-	-	-
N9656	...	3	3	3	N9713	...	-	-	-	N9766	...	1	1	1
N9657	...	584	584	584	N9719	...	-	-	-	N9767	...	-	-	-
N9658	...	550	550	550	N9720	...	53	53	53	N9768	...	1	1	1
N9659	...	6	6	6	N9721	...	594	594	594	N9769	...	-	-	-
N9660	...	-	-	-	N9722	...	-	-	-	N9770	...	12	12	12
N9661	...	34	34	34	N9723	...	-	-	-	N9771	...	-	-	-
N9662	...	-	-	-	N9724	...	2	2	2	N9772	...	-	-	-
N9663	...	15	15	15	N9725	...	-	-	-	N9773	...	3	3	3
N9664	...	-	-	-	N9726	...	5	5	5	N9774	...	-	-	-
N9670	...	1085	1085	1085	N9727	...	-	-	-	N9778	...	54	54	54
N9671	...	53	53	53	N9728	...	-	-	-	N9779	...	2774	2774	2774
N9672	...	4	4	4	N9729	...	-	-	-	N9780	...	-	-	-
N9673	...	5	5	5	N9730	...	1	1	1	N9781	...	-	-	-
N9674	...	86	86	86	N9731	...	-	-	-	N9782	...	-	-	-
N9675	...	75	75	75	N9732	...	-	-	-	N9783	...	-	-	-
N9676	...	5	5	5	N9733	...	2	2	2	N9784	...	-	-	-
N9678	...	143	143	143	N9734	...	2	2	2	N9785	...	-	-	-
N9679	...	42	42	42	N9735	...	5	5	5	N9786	...	1	1	1
N9680	...	10	10	10	N9736	...	1	1	1	N9788	...	3	3	3
N9681	...	3	3	3	N9738	...	-	-	-	N9789	...	1	1	1
N9682	...	34	34	34	N9739	...	-	-	-	N9790	...	-	-	-

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 1

NUMBER OF RESIDENT DEATHS TABULATED BY MENTION OF AN UNDERLYING CAUSE, RECORD AXIS MULTIPLE CAUSE
OR ENTITY AXIS MULTIPLE CAUSE OF DEATH BY ICD-9 CATEGORY: UNITED STATES, 1980

ICD-9 CODE	RECORD COUNT BY CODE FIELD				ICD-9 CODE	UC	RECORD COUNT BY CODE FIELD				ICD-9 CODE	UC	RECORD COUNT BY CODE FIELD			
	RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS	AXIS			RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS	AXIS			RECORD TOTAL MENTION	AXIS SECOND- ARY	ENTITY AXIS	AXIS
N9791	...	1	1	1	N9875	...	4	4	4	N9934	...	-	-	-		
N9792	...	-	-	-	N9876	...	-	-	-	N9938	...	-	-	-		
N9793	...	-	-	-	N9877	...	1	1	1	N9939	...	-	-	-		
N9794	...	-	-	-	N9878	...	3556	3556	3556	N9940	...	51	51	51		
N9795	...	-	-	-	N9879	...	457	457	457	N9941	...	9516	9516	9516		
N9796	...	-	-	-	N9880	...	3	3	3	N9942	...	348	348	348		
N9797	...	-	-	-	N9881	...	7	7	7	N9943	...	6	6	6		
N9799	...	13	13	13	N9882	...	6	6	6	N9944	...	-	-	-		
N9800	...	399	399	399	N9888	...	4	4	4	N9945	...	40	40	40		
N9801	...	38	38	38	N9889	...	-	-	-	N9946	...	-	-	-		
N9802	...	29	29	29	N9890	...	80	80	80	N9947	...	6351	6351	6351		
N9803	...	-	-	-	N9891	...	23	23	23	N9948	...	1201	1201	1201		
N9808	...	1	1	1	N9892	...	7	7	7	N9949	...	606	606	606		
N9809	...	410	410	410	N9893	...	17	17	17	N9950	...	116	116	116		
N981	...	27	27	27	N9894	...	51	51	51	N9951	...	16	16	16		
N9820	...	14	14	14	N9895	...	50	50	50	N9952	...	259	259	259		
N9821	...	-	-	-	N9896	...	3	3	3	N9953	...	56	56	56		
N9822	...	1	1	1	N9897	...	1	1	1	N9954	...	2	2	2		
N9823	...	15	15	15	N9898	...	56	56	56	N9955	...	105	105	105		
N9824	...	-	-	-	N9899	...	202	202	202	N9958	...	23	23	23		
N9828	...	55	55	55	N990	...	80	80	80	N9960	...	415	415	415		
N9830	...	15	15	15	N9910	...	-	-	-	N9961	...	78	78	78		
N9831	...	20	20	20	N9911	...	2	2	2	N9962	...	20	20	20		
N9832	...	35	35	35	N9912	...	6	6	6	N9963	...	10	10	10		
N9839	...	30	30	30	N9913	...	15	15	15	N9964	...	26	26	26		
N9840	...	1	1	1	N9914	...	-	-	-	N9965	...	189	189	189		
N9841	...	-	-	-	N9915	...	-	-	-	N9966	...	976	976	976		
N9848	...	-	-	-	N9916	...	804	804	804	N9967	...	4372	4372	4372		
N9849	...	9	9	9	N9918	...	1	1	1	N9968	...	209	209	209		
N9850	...	4	4	4	N9919	...	538	538	538	N9969	...	2	2	2		
N9851	...	21	21	21	N9920	...	1219	1219	1219	N9970	...	859	859	859		
N9852	...	-	-	-	N9921	...	3	3	3	N9971	...	4568	4568	4568		
N9853	...	-	-	-	N9922	...	-	-	-	N9972	...	624	624	624		
N9854	...	2	2	2	N9923	...	1	1	1	N9973	...	5218	5218	5218		
N9855	...	-	-	-	N9924	...	-	-	-	N9974	...	1285	1285	1285		
N9856	...	-	-	-	N9925	...	364	364	364	N9975	...	963	963	963		
N9858	...	36	36	36	N9926	...	1	1	1	N9976	...	288	288	288		
N9859	...	2	2	2	N9927	...	-	-	-	N9979	...	263	263	263		
N986	...	5688	5688	5688	N9928	...	9	9	9	N9980	...	618	618	618		
N9870	...	32	32	32	N9929	...	581	581	581	N9981	...	1026	1026	1026		
N9871	...	69	69	69	N9930	...	-	-	-	N9982	...	194	194	194		
N9872	...	13	13	13	N9931	...	-	-	-	N9983	...	275	275	275		
N9873	...	-	-	-	N9932	...	4	4	4	N9984	...	8	8	8		
N9874	...	8	8	8	N9933	...	3	3	3	N9985	...	2110	2110	2110		

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 2

NUMBER OF RESIDENT DEATHS TABULATED BY
RECORD AXIS MULTIPLE CAUSE-OF-DEATH AND AGE: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS)

CAUSE OF DEATH	AGE												N. S.
	ALL AGES	<1 YR	01-04 YR	05-14 YR	15-24 YR	25-34 YR	35-44 YR	45-54 YR	55-64 YR	65-74 YR	75-84 YR	85 & OV	
004, 006.....	60	5	4	3	3	5	4	4	8	7	13	4	-
007-009.....	570	155	21	8	6	13	7	20	41	70	111	118	-
010-018.....	4,500	4	7	5	21	93	207	487	845	1,237	1,081	510	3
010-012.....	3,867	1	-	-	12	59	169	416	742	1,071	951	443	3
013-018.....	690	3	7	5	9	36	44	84	113	176	142	71	-
033.....	13	11	2	-	-	-	-	-	-	-	-	-	-
034-035.....	37	2	-	1	-	-	2	2	6	5	11	8	-
036.....	412	82	113	34	42	30	11	23	27	27	15	8	-
038.....	58,391	744	308	286	677	1,165	1,789	3,909	8,870	14,208	16,083	10,339	13
045.....	70	-	-	-	-	1	5	8	13	24	9	10	-
055.....	17	2	3	2	5	3	2	-	-	-	-	-	-
070.....	1,091	16	12	17	84	83	104	156	216	193	154	56	-
090-097.....	530	6	-	-	3	2	9	13	54	178	186	79	-
REM. 001 - 139....	9,365	312	142	162	263	342	458	793	1,594	2,156	1,918	1,223	2
140-208.....	472,269	136	617	1,573	2,813	5,289	12,897	42,928	101,642	142,308	114,121	47,911	34
140-149.....	10,342	-	2	9	21	53	320	1,354	2,930	3,076	1,861	715	1
150-159.....	124,952	13	30	32	182	653	2,133	8,535	23,906	38,183	35,205	16,064	16
160-165.....	119,006	7	7	18	64	300	2,550	13,477	33,560	41,857	22,148	5,010	8

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 2

NUMBER OF RESIDENT DEATHS TABULATED BY
RECORD AXIS MULTIPLE CAUSE-OF-DEATH AND AGE: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	AGE												N. S.
	ALL AGES	<1 YR	01-04 YR	05-14 YR	15-24 YR	25-34 YR	35-44 YR	45-54 YR	55-64 YR	65-74 YR	75-84 YR	85 & OV	
174-175.....	42,114	-	1	2	15	630	2,417	5,993	10,165	10,492	8,146	4,251	2
179-187.....	58,878	-	6	12	230	605	1,238	3,439	8,716	16,622	18,750	9,258	2
188-189.....	22,367	11	26	43	40	89	273	1,307	3,847	6,802	6,707	3,220	2
170-173, 190-199	199,740	71	349	679	1,278	2,494	5,950	19,818	45,067	60,458	46,101	17,461	14
204-208.....	20,691	38	207	707	784	738	791	1,350	3,012	5,103	5,318	2,643	-
200-203.....	25,985	4	31	155	473	746	944	2,173	5,168	7,671	6,444	2,175	1
210-239.....	11,683	104	41	124	176	271	370	825	1,815	3,007	3,223	1,727	-
250.....	135,931	4	14	51	209	918	2,038	6,956	21,873	41,000	42,938	19,919	11
260-269.....	23,177	125	42	45	84	174	398	1,128	2,850	5,098	6,984	6,244	5
280-285.....	28,288	80	130	231	325	432	568	1,233	2,916	5,804	8,805	7,763	1
320-322.....	3,134	711	298	84	88	115	142	241	474	496	366	118	1
390-448.....	1,301,232	4,424	2,017	2,217	5,509	9,046	21,453	67,216	172,112	315,897	399,585	301,542	214
390-398, 402, 404-429.....	1,099,836	4,099	1,866	1,952	4,683	7,598	18,744	60,267	154,237	273,998	330,270	241,936	186
390-398.....	12,636	12	10	30	110	206	459	1,199	2,646	3,910	2,984	1,069	1
402.....	43,675	4	-	2	28	175	813	2,689	7,083	12,053	13,279	7,539	10
404.....	5,378	-	-	-	4	19	44	175	552	1,241	1,817	1,526	-
410-414.....	667,454	73	27	41	240	1,489	8,312	33,166	92,070	171,085	209,551	151,297	103

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 2

NUMBER OF RESIDENT DEATHS TABULATED BY
RECORD AXIS MULTIPLE CAUSE-OF-DEATH AND AGE: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	AGE												N. S.
	ALL AGES	<1 YR	01-04 YR	05-14 YR	15-24 YR	25-34 YR	35-44 YR	45-54 YR	55-64 YR	65-74 YR	75-84 YR	85 & OV	
410.....	324,510	47	20	26	154	941	5,494	21,977	58,009	96,831	94,152	46,827	32
411.....	12,826	2	1	1	20	79	353	1,153	2,490	3,403	3,355	1,965	4
413.....	4,604	-	-	-	2	17	45	217	698	1,371	1,511	743	-
412, 414....	481,104	28	10	18	85	799	4,609	19,217	56,941	114,910	158,013	126,399	75
424.....	17,088	29	11	24	111	180	286	686	2,159	4,418	5,824	3,358	2
415-423, 425-429.....	734,909	4,036	1,842	1,905	4,455	6,462	13,171	38,957	98,523	177,026	220,509	167,909	114
401, 403.....	82,591	14	9	14	82	347	1,424	5,154	13,447	23,481	24,770	13,842	7
430-438.....	282,995	406	199	321	860	1,563	3,078	8,524	23,685	59,375	102,021	82,936	27
431-432.....	30,129	231	79	206	357	638	1,264	2,884	5,146	7,326	7,849	4,146	3
434.0, 434.9..	49,958	69	61	32	154	215	329	1,089	3,908	10,248	18,433	15,415	5
434.1.....	3,096	2	1	4	18	20	48	143	417	811	1,041	591	-
430, 433, 435-438.....	219,010	119	60	93	384	837	1,724	5,044	15,647	44,473	81,777	68,831	21
440.....	158,467	9	5	7	12	94	485	2,643	10,281	28,923	55,527	60,459	22
441-448.....	36,858	45	14	30	138	260	431	1,378	4,919	10,996	11,828	6,816	3
46b.....	2,154	125	50	13	31	26	27	93	204	408	597	580	-
480-487.....	164,633	1,751	613	555	1,156	1,628	2,668	6,676	16,536	32,674	51,365	48,985	26
480-486.....	160,749	1,739	597	540	1,141	1,610	2,624	6,613	16,324	32,147	50,099	47,289	26

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 2

NUMBER OF RESIDENT DEATHS TABULATED BY
RECORD AXIS MULTIPLE CAUSE-OF-DEATH AND AGE: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	AGE												N. S.
	ALL AGES	<1 YR	01-04 YR	05-14 YR	15-24 YR	25-34 YR	35-44 YR	45-54 YR	55-64 YR	65-74 YR	75-84 YR	85 & OV	
487.....	3,887	12	16	15	15	18	44	63	212	527	1,268	1,697	-
490-496.....	131,452	103	76	139	239	341	844	4,957	20,698	45,474	42,116	16,452	13
490-491.....	9,318	75	39	37	43	59	112	434	1,394	2,659	2,733	1,733	-
492.....	34,314	10	1	4	11	54	191	1,284	5,574	12,322	11,030	3,832	1
493.....	7,071	13	28	77	136	175	247	586	1,291	2,038	1,734	746	-
494-496.....	82,287	7	9	30	56	70	315	2,749	12,715	28,968	27,055	10,301	12
531-533.....	16,594	27	15	21	72	147	317	924	2,432	4,439	4,993	3,207	-
540-543.....	1,253	12	16	30	34	29	39	77	195	285	353	183	-
550-553, 560.....	19,249	302	57	41	91	131	341	886	2,222	4,205	6,092	4,881	-
571.....	45,379	98	49	36	198	1,798	4,497	9,395	13,190	10,809	4,350	938	21
574-575.....	9,250	9	1	1	19	57	129	327	965	2,139	3,220	2,383	-
580-589.....	87,826	1,211	128	174	523	1,249	1,995	4,743	11,588	21,739	26,585	17,878	13
580-581.....	1,071	9	10	8	15	27	33	68	144	251	320	185	1
582-583, 587.....	5,446	12	7	12	50	94	139	265	639	1,302	1,693	1,232	1
584-586, 588-589	83,404	1,193	118	162	481	1,169	1,880	4,526	11,052	20,676	25,222	16,914	11
590.....	6,886	21	5	8	16	71	120	265	603	1,379	2,357	2,041	-
600.....	3,798	-	-	-	-	1	1	21	152	746	1,583	1,293	1
630-676.....	389	-	-	-	128	190	69	2	-	-	-	-	-

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 2

NUMBER OF RESIDENT DEATHS TABULATED BY
RECORD AXIS MULTIPLE CAUSE-OF-DEATH AND AGE: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	AGE												N. S.
	ALL AGES	<1 YR	01-04 YR	05-14 YR	15-24 YR	25-34 YR	35-44 YR	45-54 YR	55-64 YR	65-74 YR	75-84 YR	85 & OV	
630-638.....	78	-	-	-	23	45	10	-	-	-	-	-	-
640-676.....	326	-	-	-	109	154	61	2	-	-	-	-	-
740-759.....	18,393	10,779	1,223	743	848	692	502	714	942	943	677	327	3
760-779.....	29,177	28,946	138	29	23	10	5	5	8	3	5	1	4
767-769.....	10,737	10,650	43	14	9	2	4	5	4	2	4	-	-
760-766, 770-779	28,185	28,024	110	17	14	8	1	-	4	1	1	1	4
780-799.....	349,803	10,150	1,734	1,911	4,895	6,252	9,015	22,486	50,957	83,183	90,963	68,133	124
RESIDUAL.....	466,213	5,260	2,166	2,609	6,575	9,669	14,735	32,394	66,028	105,275	127,483	93,931	88
E800-E949.....	163,637	1,895	3,761	5,605	27,121	18,519	11,258	12,559	17,053	21,867	24,235	19,656	108
E810-E825.....	54,073	251	1,185	2,763	19,134	10,848	5,414	4,324	3,942	3,160	2,356	670	26
E800-E807, E826-E949.....	110,080	1,646	2,581	2,866	8,163	7,778	5,904	8,279	13,148	18,737	21,904	18,992	82
E950-E959.....	27,004	-	-	142	5,255	5,943	3,947	3,642	3,483	2,655	1,486	434	17
E960-E978.....	24,455	221	321	417	6,664	7,280	3,885	2,554	1,557	923	425	132	76
E980-E999.....	3,921	72	105	82	718	921	560	473	428	269	187	80	26
N800-N999.....	210,530	2,109	4,112	6,119	39,145	32,119	19,177	18,410	21,144	23,879	24,725	19,368	223
N800-N848.....	47,129	187	552	1,166	7,420	4,741	2,652	2,451	2,954	4,504	9,065	11,413	24
N850-N854.....	39,382	404	931	1,788	11,433	7,142	3,910	3,462	3,397	3,009	2,619	1,245	42

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 2

NUMBER OF RESIDENT DEATHS TABULATED BY
RECORD AXIS MULTIPLE CAUSE-OF-DEATH AND AGE: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	AGE												N. S.
	ALL AGES	<1 YR	01-04 YR	05-14 YR	15-24 YR	25-34 YR	35-44 YR	45-54 YR	55-64 YR	65-74 YR	75-84 YR	85 & OV	
N860-N869.....	30,314	78	406	912	8,968	6,736	3,800	3,094	2,641	1,912	1,318	433	16
N870-N897.....	38,786	34	141	690	10,040	10,296	5,725	4,255	3,458	2,423	1,272	387	65
N900-N904.....	5,779	6	28	109	1,622	1,479	779	614	498	338	228	70	8
N905-N909.....	3,186	15	24	38	116	135	161	222	384	557	712	820	2
N910-N929.....	3,062	26	79	127	687	454	321	297	316	278	265	212	-
N930-N939.....	11,761	458	305	224	597	634	658	1,057	1,667	2,250	2,336	1,574	1
N940-N949.....	5,941	121	475	305	808	759	573	572	658	727	643	290	10
N950-N957.....	2,355	3	31	109	580	474	242	230	211	240	168	63	4
N958-N959.....	31,835	152	531	1,160	8,150	5,928	3,325	2,889	2,810	2,504	2,497	1,866	23
N960-N995.....	38,419	551	1,619	1,817	7,443	7,288	4,366	4,105	3,942	3,377	2,598	1,214	99
N996-N999.....	24,574	490	251	183	332	491	810	1,891	4,393	7,046	5,751	2,933	3

- QUANTITY = 0

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 3

NUMBER OF RESIDENT DEATHS TABULATED BY
UNDERLYING CAUSE-OF-DEATH AND AGE: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST)

CAUSE OF DEATH	AGE												N. S.
	ALL AGES	<1 YR	01-04 YR	05-14 YR	15-24 YR	25-34 YR	35-44 YR	45-54 YR	55-64 YR	65-74 YR	75-84 YR	85 & OV	
ALL CAUSES.....	1,989,841	45,526	8,187	10,689	49,027	50,240	58,418	133,157	292,181	466,621	517,257	357,970	568
004, 006.....	37	5	4	3	1	4	2	2	5	4	6	1	-
007-009.....	364	112	20	7	5	10	3	13	27	40	59	68	-
010-018.....	1,978	2	6	4	11	44	110	243	364	542	436	214	2
010-012.....	1,638	-	-	-	8	26	85	199	313	452	368	185	2
013-018.....	340	2	6	4	3	18	25	44	51	90	68	29	-
033.....	11	10	1	-	-	-	-	-	-	-	-	-	-
034-035.....	15	1	-	1	-	-	1	1	3	1	4	3	-
036.....	387	77	110	34	38	29	11	21	23	23	15	6	-
038.....	9,438	242	71	38	81	137	232	530	1,261	2,135	2,741	1,967	3
045.....	6	-	-	-	-	-	1	1	1	2	1	-	-
055.....	11	2	2	2	3	2	-	-	-	-	-	-	-
070.....	809	11	11	15	74	71	76	108	145	149	114	35	-
090-097.....	154	2	-	-	2	2	6	5	12	51	52	22	-
REM. 001 - 139....	4,078	232	97	92	165	214	238	397	677	863	682	420	1
140-208.....	416,509	113	573	1,497	2,683	5,081	12,470	41,030	94,645	127,430	95,239	35,720	28
140-149.....	8,553	-	2	8	21	51	298	1,207	2,518	2,495	1,429	523	1
150-159.....	110,647	12	29	31	173	635	2,052	8,155	22,265	34,510	30,102	12,670	13

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 3

NUMBER OF RESIDENT DEATHS TABULATED BY
UNDERLYING CAUSE-OF-DEATH AND AGE: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST) - CONTINUED

CAUSE OF DEATH	AGE												N. S.
	ALL AGES	<1 YR	01-04 YR	05-14 YR	15-24 YR	25-34 YR	35-44 YR	45-54 YR	55-64 YR	65-74 YR	75-84 YR	85 & OV	
160-165.....	108,504	7	7	16	58	283	2,473	12,892	31,323	37,877	19,427	4,134	7
174-175.....	35,897	-	-	2	14	615	2,348	5,696	9,368	8,992	6,205	2,656	1
179-187.....	46,430	-	3	12	221	579	1,174	3,210	7,793	13,764	13,692	5,980	2
188-189.....	17,828	9	22	42	35	85	259	1,203	3,353	5,581	5,037	2,200	2
170-173, 190-199	50,679	52	297	589	996	1,479	2,271	5,550	11,038	13,892	10,325	4,189	1
204-208.....	16,533	31	188	655	735	696	744	1,210	2,569	4,033	3,921	1,751	-
200-203.....	21,438	2	25	142	430	658	851	1,907	4,418	6,286	5,101	1,617	1
210-239.....	6,193	67	38	104	130	195	264	541	1,057	1,569	1,530	698	-
250.....	34,851	4	12	37	128	572	900	2,188	5,789	10,111	10,134	4,971	5
260-269.....	2,364	29	9	3	9	18	26	57	153	372	728	960	-
280-285.....	3,238	24	63	79	133	157	98	137	282	589	922	754	-
320-322.....	1,415	443	223	51	49	39	50	78	146	173	118	45	-
390-448.....	988,545	984	407	450	1,750	4,281	14,079	48,328	126,257	235,800	310,704	245,331	174
390-398, 402, 404-429.....	761,085	806	338	330	1,223	3,080	11,433	41,078	107,244	189,867	231,326	174,213	147
390-398.....	7,836	4	6	23	86	153	341	838	1,696	2,441	1,712	535	1
402.....	21,095	1	-	1	20	116	485	1,442	3,421	5,417	6,238	3,949	5
404.....	3,711	-	1	-	2	14	31	110	321	765	1,277	1,190	-

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 3

NUMBER OF RESIDENT DEATHS TABULATED BY
UNDERLYING CAUSE-OF-DEATH AND AGE: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST) - CONTINUED

CAUSE OF DEATH	AGE												N. S.
	ALL AGES	<1 YR	01-04 YR	05-14 YR	15-24 YR	25-34 YR	35-44 YR	45-54 YR	55-64 YR	65-74 YR	75-84 YR	85 & OV	
410-414.....	565,755	29	16	17	145	1,203	7,472	30,074	80,827	144,998	174,268	126,611	95
410.....	299,584	20	13	11	96	780	5,018	20,432	53,352	88,820	87,072	43,940	30
411.....	4,773	-	-	-	5	34	133	480	987	1,271	1,164	695	4
413.....	561	-	-	-	-	3	15	28	76	157	187	95	-
412, 414....	260,837	9	3	6	44	386	2,306	9,134	26,412	54,750	85,845	81,881	61
424.....	7,164	8	2	11	69	98	151	347	1,006	1,864	2,324	1,284	-
415-423, 425- 429.....	155,524	764	313	278	901	1,496	2,953	8,267	19,973	34,382	45,507	40,644	46
401, 403.....	7,827	4	1	7	18	64	151	408	931	1,742	2,449	2,050	2
430-438.....	170,225	155	59	95	418	965	2,189	5,750	14,159	34,194	60,949	51,274	18
431-432.....	20,772	93	22	49	143	295	783	1,904	3,479	5,111	5,730	3,160	3
434.0, 434.9..	34,048	15	12	3	28	58	133	549	2,268	6,441	12,942	11,596	3
434.1.....	795	1	-	1	3	11	15	43	85	192	289	155	-
430, 433, 435- 438.....	114,610	46	25	42	244	601	1,258	3,254	8,327	22,450	41,988	36,363	12
440.....	29,449	2	-	-	2	9	44	270	1,035	3,679	9,696	14,706	6
441-448.....	19,959	17	9	18	89	163	262	822	2,888	6,318	6,284	3,088	1
466.....	642	87	34	7	14	13	9	23	58	89	145	163	-
480-487.....	54,619	1,012	267	194	348	563	904	1,760	4,044	8,668	17,003	19,841	15

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 3

NUMBER OF RESIDENT DEATHS TABULATED BY
UNDERLYING CAUSE-OF-DEATH AND AGE: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST) - CONTINUED

CAUSE OF DEATH	AGE												N. S.
	ALL AGES	<1 YR	01-04 YR	05-14 YR	15-24 YR	25-34 YR	35-44 YR	45-54 YR	55-64 YR	65-74 YR	75-84 YR	85 & OV	
480-486.....	51,917	1,000	255	184	336	550	875	1,727	3,933	8,347	16,142	18,553	15
487.....	2,702	12	12	10	12	13	29	33	111	321	861	1,288	-
490-496.....	56,050	57	47	85	141	202	411	2,237	9,277	20,110	17,340	6,137	6
490-491.....	3,728	42	21	12	12	16	35	133	556	1,180	1,143	578	-
492.....	13,877	3	-	2	6	19	76	558	2,462	5,214	4,262	1,274	1
493.....	2,891	8	21	61	105	130	145	309	529	765	596	222	-
494-496.....	35,554	4	5	10	18	37	155	1,237	5,730	12,951	11,339	4,063	5
531-533.....	6,115	11	10	11	25	61	143	360	882	1,536	1,841	1,235	-
540-543.....	701	10	12	23	28	22	25	49	126	135	171	100	-
550-553, 560.....	5,415	131	27	25	47	50	103	211	489	1,031	1,710	1,591	-
571.....	30,583	33	12	11	122	1,292	3,490	7,050	9,039	6,709	2,364	446	15
574-575.....	3,285	1	-	-	13	31	49	119	321	721	1,132	898	-
580-589.....	16,753	225	26	31	111	246	362	824	1,957	3,827	5,240	3,901	3
580-581.....	328	7	5	4	6	10	11	22	37	61	101	64	-
582-583, 587.....	2,245	-	2	5	30	46	65	124	257	524	694	498	-
584-586, 588-589	14,180	218	19	22	75	190	286	678	1,663	3,242	4,445	3,339	3
590.....	2,732	6	-	4	6	28	42	94	195	537	958	862	-
600.....	754	-	-	-	-	-	-	4	27	132	310	281	-

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 3
NUMBER OF RESIDENT DEATHS TABULATED BY
UNDERLYING CAUSE-OF-DEATH AND AGE: UNITED STATES, 1980
(CAUSE CATEGORIES BASED ON 72 CAUSE LIST) - CONTINUED

CAUSE OF DEATH	AGE												N. S.
	ALL AGES	<1 YR	01-04 YR	05-14 YR	15-24 YR	25-34 YR	35-44 YR	45-54 YR	55-64 YR	65-74 YR	75-84 YR	85 & OV	
630-676.....	334	-	-	-	114	160	58	2	-	-	-	-	-
630-638.....	62	-	-	-	20	33	9	-	-	-	-	-	-
640-676.....	272	-	-	-	94	127	49	2	-	-	-	-	-
740-759.....	13,938	9,220	1,026	561	600	482	335	390	485	445	288	103	3
760-779.....	22,866	22,745	84	12	10	3	1	1	4	1	-	1	4
767-769.....	7,580	7,544	26	7	1	-	-	1	1	-	-	-	-
760-766, 770-779	15,286	15,201	58	5	9	3	1	-	3	1	-	1	4
780-799.....	28,808	6,088	288	151	881	1,266	1,140	1,935	3,565	4,826	4,800	3,804	64
RESIDUAL.....	115,292	2,096	975	1,294	2,511	3,722	4,883	8,938	16,247	25,233	29,137	20,232	24
E800-E949.....	105,718	1,166	3,313	5,224	26,206	17,161	9,561	8,887	9,253	8,997	9,295	6,552	103
E810-E825.....	53,172	247	1,179	2,747	19,040	10,785	5,348	4,235	3,787	2,991	2,168	619	26
E800-E807, E826- E949.....	52,546	919	2,134	2,477	7,166	6,376	4,213	4,652	5,466	6,006	7,127	5,933	77
E950-E959.....	26,869	-	-	142	5,239	5,920	3,935	3,623	3,456	2,630	1,477	430	17
E960-E978.....	24,278	210	319	415	6,647	7,267	3,869	2,530	1,527	895	405	118	76
E980-E999.....	3,686	68	100	82	702	895	531	440	382	245	156	60	25

- QUANTITY = 0

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 4

NUMBER OF RESIDENT DEATHS TABULATED BY PRESENCE OF A SECONDARY CAUSE
AS A RECORD AXIS MULTIPLE CAUSE-OF-DEATH AND AGE: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS)

CAUSE OF DEATH	AGE												N. S.
	ALL AGES	<1 YR	01-04 YR	05-14 YR	15-24 YR	25-34 YR	35-44 YR	45-54 YR	55-64 YR	65-74 YR	75-84 YR	85 & OV	
004, 006.....	23	-	-	-	2	1	2	2	3	3	7	3	-
007-009.....	206	43	1	1	1	3	4	7	14	30	52	50	-
010-018.....	2,522	2	1	1	10	49	97	244	481	695	645	296	1
010-012.....	2,230	1	-	-	4	33	84	217	429	619	584	258	1
013-018.....	354	1	1	1	6	18	20	41	62	87	75	42	-
033.....	2	1	1	-	-	-	-	-	-	-	-	-	-
034-035.....	22	1	-	-	-	-	1	1	3	4	7	5	-
036.....	25	5	3	-	4	1	-	2	4	4	-	2	-
038.....	48,953	502	237	248	596	1,028	1,557	3,379	7,609	12,073	13,342	8,372	10
045.....	64	-	-	-	-	1	4	7	12	22	8	10	-
055.....	6	-	1	-	2	1	2	-	-	-	-	-	-
070.....	282	5	1	2	10	12	28	48	71	44	40	21	-
090-097.....	376	4	-	-	1	-	3	8	42	127	134	57	-
REM. 001 - 139.....	5,289	80	45	70	98	128	220	396	917	1,293	1,237	804	1
140-208.....	55,763	23	44	76	130	208	427	1,898	6,997	14,879	18,883	12,192	6
140-149.....	1,790	-	-	1	-	2	22	147	412	582	432	192	-
150-159.....	14,305	1	1	1	9	18	81	380	1,641	3,673	5,103	3,394	3
160-165.....	10,502	-	-	2	6	17	77	585	2,237	3,980	2,721	876	1

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 4

NUMBER OF RESIDENT DEATHS TABULATED BY PRESENCE OF A SECONDARY CAUSE
AS A RECORD AXIS MULTIPLE CAUSE-OF-DEATH AND AGE: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	AGE												N. S.
	ALL AGES	<1 YR	01-04 YR	05-14 YR	15-24 YR	25-34 YR	35-44 YR	45-54 YR	55-64 YR	65-74 YR	75-84 YR	85 & OV	
174-175.....	6,218	-	1	-	1	15	69	297	798	1,500	1,941	1,595	1
179-187.....	12,448	-	3	-	9	26	64	229	923	2,858	5,058	3,278	-
188-189.....	4,539	2	4	1	5	4	14	104	494	1,221	1,670	1,020	-
170-173, 190-199..	149,063	19	52	90	282	1,015	3,679	14,268	34,029	46,567	35,776	13,273	13
204-208.....	4,158	7	19	52	49	42	47	140	443	1,070	1,397	892	-
200-203.....	4,548	2	6	13	43	88	93	266	750	1,385	1,344	558	-
210-239.....	5,493	37	3	20	47	76	106	284	759	1,438	1,694	1,029	-
250.....	101,080	-	2	14	81	346	1,138	4,768	16,084	30,889	32,804	14,948	6
260-269.....	20,824	96	33	42	75	156	374	1,071	2,697	4,729	6,260	5,286	5
280-285.....	25,050	56	67	152	192	275	470	1,096	2,634	5,215	7,883	7,009	1
320-322.....	1,719	268	75	33	39	76	92	163	328	323	248	73	1
390-448.....	312,764	3,440	1,610	1,767	3,759	4,770	7,377	18,898	45,871	80,107	88,901	56,224	40
390-398, 402, 404-429.....	338,779	3,293	1,528	1,622	3,460	4,523	7,314	19,199	47,001	84,132	98,944	67,724	39
390-398.....	4,804	8	4	7	24	53	118	361	952	1,469	1,273	535	-
402.....	22,753	3	-	1	8	60	331	1,256	3,674	6,678	7,096	3,641	5
404.....	1,979	-	-	-	2	8	18	73	255	535	658	430	-
410-414.....	101,702	44	11	24	95	286	840	3,092	11,243	26,087	35,285	24,687	8

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 4

NUMBER OF RESIDENT DEATHS TABULATED BY PRESENCE OF A SECONDARY CAUSE
AS A RECORD AXIS MULTIPLE CAUSE-OF-DEATH AND AGE: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	AGE												N. S.
	ALL AGES	<1 YR	01-04 YR	05-14 YR	15-24 YR	25-34 YR	35-44 YR	45-54 YR	55-64 YR	65-74 YR	75-84 YR	85 & OV	
410.....	24,928	27	7	15	58	161	476	1,545	4,659	8,011	7,080	2,887	2
411.....	8,053	2	1	1	15	45	220	673	1,503	2,132	2,191	1,270	-
413.....	4,043	-	-	-	2	14	30	189	622	1,214	1,324	648	-
412, 414.....	220,271	19	7	12	41	413	2,303	10,083	30,530	60,160	72,170	44,519	14
424.....	9,924	21	9	13	42	82	135	339	1,153	2,554	3,500	2,074	2
415-423, 425-429.....	579,418	3,272	1,529	1,627	3,554	4,971	10,221	30,702	78,560	142,646	175,003	127,265	68
401, 403.....	74,821	10	8	7	64	283	1,274	4,747	12,517	21,751	22,340	11,815	5
430-438.....	112,784	251	140	226	442	598	889	2,775	9,528	25,183	41,077	31,666	9
431-432.....	9,403	138	57	157	214	345	486	988	1,682	2,227	2,123	986	-
434.0, 434.9.....	15,911	54	49	29	126	157	196	540	1,641	3,807	5,491	3,819	2
434.1.....	2,301	1	1	3	15	9	33	100	332	619	752	436	-
430, 433, 435-438.....	104,431	73	35	51	140	236	467	1,796	7,328	22,030	39,794	32,472	9
440.....	129,022	7	5	7	10	85	441	2,373	9,246	25,245	45,833	45,754	16
441-448.....	17,052	28	5	12	49	97	171	561	2,054	4,716	5,602	3,755	2
466.....	1,512	38	16	6	17	13	18	70	146	319	452	417	-
480-487.....	110,015	739	346	361	808	1,065	1,764	4,916	12,492	24,006	34,362	29,145	11
480-486.....	108,834	739	342	356	805	1,060	1,749	4,886	12,391	23,800	33,957	28,738	11

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 4

NUMBER OF RESIDENT DEATHS TABULATED BY PRESENCE OF A SECONDARY CAUSE
AS A RECORD AXIS MULTIPLE CAUSE-OF-DEATH AND AGE: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	AGE												N. S.
	ALL AGES	<1 YR	01-04 YR	05-14 YR	15-24 YR	25-34 YR	35-44 YR	45-54 YR	55-64 YR	65-74 YR	75-84 YR	85 & OV	
487.....	1,185	-	4	5	3	5	15	30	101	206	407	409	-
490-496.....	75,406	46	29	54	98	139	433	2,720	11,421	25,365	24,778	10,316	7
490-491.....	5,590	33	18	25	31	43	77	301	838	1,479	1,590	1,155	-
492.....	20,437	7	1	2	5	35	115	726	3,112	7,108	6,768	2,558	-
493.....	4,225	5	7	16	32	46	104	281	774	1,284	1,147	529	-
494-496.....	46,738	3	4	20	38	33	160	1,512	6,985	16,018	15,719	6,239	7
531-533.....	10,480	16	5	10	47	86	174	565	1,550	2,903	3,152	1,972	-
540-543.....	552	2	4	7	6	7	14	28	69	150	182	83	-
550-553, 560.....	13,834	171	30	16	44	81	238	675	1,733	3,174	4,382	3,290	-
571.....	14,928	65	37	25	77	508	1,032	2,388	4,185	4,124	1,989	492	6
574-575.....	5,965	8	1	1	6	26	80	208	644	1,418	2,088	1,485	-
580-589.....	71,087	986	102	143	412	1,003	1,633	3,921	9,631	17,917	21,350	13,979	10
580-581.....	746	2	5	4	9	18	22	47	108	190	219	121	1
582-583, 587.....	3,226	12	5	7	21	48	74	142	385	787	1,006	738	1
584-586, 588-589..	69,231	975	99	140	406	979	1,594	3,848	9,389	17,435	20,780	13,578	8
590.....	4,218	15	5	4	10	44	78	173	410	859	1,421	1,199	-
600.....	3,044	-	-	-	-	1	1	17	125	614	1,273	1,012	1
630-676.....	55	-	-	-	14	30	11	-	-	-	-	-	-

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 4

NUMBER OF RESIDENT DEATHS TABULATED BY PRESENCE OF A SECONDARY CAUSE
AS A RECORD AXIS MULTIPLE CAUSE-OF-DEATH AND AGE: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	AGE												N. S.
	ALL AGES	<1 YR	01-04 YR	05-14 YR	15-24 YR	25-34 YR	35-44 YR	45-54 YR	55-64 YR	65-74 YR	75-84 YR	85 & OV	
630-638.....	16	-	-	-	3	12	1	-	-	-	-	-	-
640-676.....	54	-	-	-	15	27	12	-	-	-	-	-	-
740-759.....	4,459	1,559	197	183	248	210	167	324	457	498	392	224	-
760-779.....	6,311	6,201	54	17	13	7	4	4	4	2	5	-	-
767-769.....	3,157	3,106	17	7	8	2	4	4	3	2	4	-	-
760-766, 770-779..	12,899	12,823	52	12	5	5	-	-	1	-	1	-	-
780-799.....	320,995	4,062	1,446	1,760	4,014	4,986	7,875	20,551	47,392	78,357	86,163	64,329	60
RESIDUAL.....	350,981	3,165	1,192	1,316	4,065	5,951	9,864	23,466	49,793	80,046	98,354	73,705	64
E800-E949.....	57,922	729	448	381	917	1,358	1,697	3,672	7,800	12,871	14,940	13,104	5
E810-E825.....	904	4	6	16	96	63	67	89	155	169	188	51	-
E800-E807, E826- E949.....	57,535	727	447	389	997	1,402	1,691	3,627	7,682	12,732	14,777	13,059	5
E950-E959.....	135	-	-	-	16	23	12	19	27	25	9	4	-
E960-E978.....	177	11	2	2	17	13	16	24	30	28	20	14	-
E980-E999.....	236	4	5	-	16	26	30	33	46	24	31	20	1
N800-N999.....	210,530	2,109	4,112	6,119	39,145	32,119	19,177	18,410	21,144	23,879	24,725	19,368	223
N800-N848.....	47,129	187	552	1,166	7,420	4,741	2,652	2,451	2,954	4,504	9,065	11,413	24
N850-N854.....	39,382	404	931	1,788	11,433	7,142	3,910	3,462	3,397	3,009	2,619	1,245	42

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 4

NUMBER OF RESIDENT DEATHS TABULATED BY PRESENCE OF A SECONDARY CAUSE
AS A RECORD AXIS MULTIPLE CAUSE-OF-DEATH AND AGE: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	AGE												N. S.
	ALL AGES	<1 YR	01-04 YR	05-14 YR	15-24 YR	25-34 YR	35-44 YR	45-54 YR	55-64 YR	65-74 YR	75-84 YR	85 & OV	
N860-N869.....	30,314	78	406	912	8,968	6,736	3,800	3,094	2,641	1,912	1,318	433	16
N870-N897.....	38,786	34	141	690	10,040	10,296	5,725	4,255	3,458	2,423	1,272	387	65
N900-N904.....	5,779	6	28	109	1,622	1,479	779	614	498	338	228	70	8
N905-N909.....	3,186	15	24	38	116	135	161	222	384	557	712	820	2
N910-N929.....	3,062	26	79	127	687	454	321	297	316	278	265	212	-
N930-N939.....	11,761	458	305	224	597	634	658	1,057	1,667	2,250	2,336	1,574	1
N940-N949.....	5,941	121	475	305	808	759	573	572	658	727	643	290	10
N950-N957.....	2,355	3	31	109	580	474	242	230	211	240	168	63	4
N958-N959.....	31,835	152	531	1,160	8,150	5,928	3,325	2,889	2,810	2,504	2,497	1,866	23
N960-N995.....	38,419	551	1,619	1,817	7,443	7,288	4,366	4,105	3,942	3,377	2,598	1,214	99
N996-N999.....	24,574	490	251	183	332	491	810	1,891	4,393	7,046	5,751	2,933	3

- QUANTITY = 0

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 5

NUMBER OF RESIDENT DEATHS TABULATED BY
ENTITY AXIS MULTIPLE CAUSE-OF-DEATH AND AGE: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS)

CAUSE OF DEATH	AGE												N. S.
	ALL AGES	<1 YR	01-04 YR	05-14 YR	15-24 YR	25-34 YR	35-44 YR	45-54 YR	55-64 YR	65-74 YR	75-84 YR	85 & OV	
004, 006.....	60	5	4	3	3	5	4	4	8	7	13	4	-
007-009.....	576	155	21	8	6	14	7	21	41	70	114	119	-
010-018.....	4,500	4	7	5	21	93	207	487	845	1,237	1,081	510	3
010-012.....	3,896	1	-	-	12	60	170	420	748	1,078	958	446	3
013-018.....	663	3	7	5	9	36	43	81	108	169	134	68	-
033.....	13	11	2	-	-	-	-	-	-	-	-	-	-
034-035.....	37	2	-	1	-	-	2	2	6	5	11	8	-
036.....	412	82	113	34	42	30	11	23	27	27	15	8	-
038.....	58,618	751	314	287	678	1,173	1,801	3,932	8,908	14,251	16,132	10,377	14
045.....	70	-	-	-	-	1	5	8	13	24	9	10	-
055.....	17	2	3	2	5	3	2	-	-	-	-	-	-
070.....	1,091	16	12	17	84	83	104	156	216	193	154	56	-
090-097.....	530	6	-	-	3	2	9	13	54	178	186	79	-
REM. 001 - 139.....	9,836	322	147	167	268	357	473	815	1,648	2,263	2,041	1,333	2
140-208.....	472,270	136	617	1,573	2,813	5,289	12,897	42,928	101,642	142,309	114,121	47,911	34
140-149.....	10,342	-	2	9	21	53	320	1,354	2,930	3,076	1,861	715	1
150-159.....	124,952	13	30	32	182	653	2,133	8,535	23,906	38,183	35,205	16,064	16
160-165.....	119,006	7	7	18	64	300	2,550	13,477	33,560	41,857	22,148	5,010	8

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 5

NUMBER OF RESIDENT DEATHS TABULATED BY
ENTITY AXIS MULTIPLE CAUSE-OF-DEATH AND AGE: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	AGE												N. S.
	ALL AGES	<1 YR	01-04 YR	05-14 YR	15-24 YR	25-34 YR	35-44 YR	45-54 YR	55-64 YR	65-74 YR	75-84 YR	85 & OV	
174-175.....	42,114	-	1	2	15	630	2,417	5,993	10,165	10,492	8,146	4,251	2
179-187.....	58,878	-	6	12	230	605	1,238	3,439	8,716	16,622	18,750	9,258	2
188-189.....	22,368	11	26	43	40	89	273	1,307	3,847	6,803	6,707	3,220	2
170-173, 190-199	200,117	71	349	679	1,279	2,498	5,960	19,847	45,141	60,583	46,184	17,512	14
204-208.....	20,692	38	207	707	784	738	791	1,350	3,013	5,103	5,318	2,643	-
200-203.....	25,985	4	31	155	473	746	944	2,173	5,168	7,671	6,444	2,175	1
210-239.....	11,908	104	44	127	178	275	383	850	1,856	3,076	3,274	1,741	-
250.....	135,931	4	14	51	209	918	2,038	6,956	21,873	41,000	42,938	19,919	11
260-269.....	23,792	126	42	48	84	184	427	1,195	2,972	5,254	7,117	6,338	5
280-285.....	28,310	91	130	231	325	432	568	1,235	2,918	5,806	8,808	7,765	1
320-322.....	3,156	714	300	85	88	115	143	242	476	503	371	118	1
390-448.....	1,302,031	4,427	2,019	2,218	5,511	9,053	21,466	67,249	172,181	316,057	399,817	301,819	214
390-398, 402, 404-429.....	1,100,206	4,100	1,868	1,954	4,683	7,610	18,759	60,288	154,263	274,021	330,323	242,151	186
390-398.....	12,644	12	10	30	110	206	459	1,199	2,648	3,910	2,987	1,072	1
402.....	42,754	3	-	2	29	177	813	2,670	7,025	11,913	12,972	7,140	10
404.....	2,352	-	-	-	-	5	10	38	135	357	807	1,000	-
410-414.....	667,455	73	27	41	240	1,489	8,312	33,166	92,070	171,085	209,551	151,298	103

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 5

NUMBER OF RESIDENT DEATHS TABULATED BY
ENTITY AXIS MULTIPLE CAUSE-OF-DEATH AND AGE: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	AGE												N. S.
	ALL AGES	<1 YR	01-04 YR	05-14 YR	15-24 YR	25-34 YR	35-44 YR	45-54 YR	55-64 YR	65-74 YR	75-84 YR	85 & OV	
410.....	324,510	47	20	26	154	941	5,494	21,977	58,009	96,831	94,152	46,827	32
411.....	12,826	2	1	1	20	79	353	1,153	2,490	3,403	3,355	1,965	4
413.....	4,604	-	-	-	2	17	45	217	698	1,371	1,511	743	-
412, 414....	481,105	28	10	18	85	799	4,609	19,217	56,941	114,910	158,013	126,400	75
424.....	17,092	29	11	24	111	180	287	686	2,157	4,422	5,827	3,356	2
415-423, 425-429.....	740,065	4,037	1,845	1,908	4,455	6,486	13,239	39,163	99,127	178,281	222,102	169,306	116
401, 403.....	89,332	15	9	14	86	371	1,510	5,450	14,343	25,339	27,000	15,188	7
430-438.....	282,858	406	199	321	859	1,563	3,078	8,523	23,672	59,349	101,970	82,891	27
431-432.....	30,870	231	80	212	372	678	1,351	3,055	5,342	7,483	7,909	4,154	3
434.0, 434.9..	50,299	69	61	33	156	220	342	1,109	3,967	10,332	18,551	15,454	5
434.1.....	3,096	2	1	4	18	20	48	143	417	811	1,041	591	-
430, 433, 435-438.....	224,791	120	60	95	386	844	1,774	5,241	16,305	45,911	83,873	70,160	22
440.....	178,015	9	5	8	12	98	500	2,764	11,126	32,112	62,821	68,538	22
441-448.....	39,935	47	14	30	143	277	478	1,522	5,481	12,015	12,718	7,207	3
466.....	2,503	132	53	15	33	31	32	107	239	504	697	660	-
480-487.....	165,940	1,794	621	563	1,168	1,637	2,706	6,760	16,703	32,969	51,739	49,254	26
480-486.....	163,344	1,787	611	557	1,156	1,624	2,671	6,718	16,541	32,588	50,890	48,175	26

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 5

NUMBER OF RESIDENT DEATHS TABULATED BY
ENTITY AXIS MULTIPLE CAUSE-OF-DEATH AND AGE: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	AGE												N. S.
	ALL AGES	<1 YR	01-04 YR	05-14 YR	15-24 YR	25-34 YR	35-44 YR	45-54 YR	55-64 YR	65-74 YR	75-84 YR	85 & OV	
487.....	3,887	12	16	15	15	18	44	63	212	527	1,268	1,697	-
490-496.....	132,302	110	79	140	242	342	849	4,982	20,809	45,785	42,388	16,503	13
490-491.....	9,393	82	42	38	46	59	113	436	1,400	2,668	2,757	1,752	-
492.....	37,034	10	1	4	12	57	209	1,408	6,052	13,344	11,834	4,102	1
493.....	7,262	13	28	77	137	178	256	592	1,333	2,097	1,780	771	-
494-496.....	89,225	8	9	31	58	77	351	3,001	13,809	31,490	29,304	11,075	12
531-533.....	16,598	27	15	21	72	147	317	925	2,432	4,441	4,994	3,207	-
540-543.....	1,254	12	16	30	34	29	39	77	195	286	353	183	-
550-553, 560.....	19,249	302	57	41	91	131	341	886	2,222	4,205	6,092	4,881	-
571.....	45,341	97	49	36	198	1,794	4,492	9,387	13,178	10,802	4,349	938	21
574-575.....	9,258	9	1	1	19	57	129	327	965	2,141	3,223	2,386	-
580-589.....	100,426	1,214	130	174	548	1,342	2,179	5,278	13,027	24,831	30,762	20,927	14
580-581.....	1,185	8	10	8	17	34	42	93	177	285	327	183	1
582-583, 587.....	6,586	12	7	12	53	115	164	339	830	1,630	2,030	1,392	2
584-586, 588-589	95,488	1,197	120	163	506	1,244	2,050	5,004	12,357	23,598	29,303	19,934	12
590.....	7,304	22	5	8	16	76	126	289	649	1,486	2,489	2,138	-
600.....	3,798	-	-	-	-	1	1	21	152	746	1,583	1,293	1
630-676.....	389	-	-	-	128	190	69	2	-	-	-	-	-

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 5

NUMBER OF RESIDENT DEATHS TABULATED BY
ENTITY AXIS MULTIPLE CAUSE-OF-DEATH AND AGE: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	AGE												N. S.
	ALL AGES	<1 YR	01-04 YR	05-14 YR	15-24 YR	25-34 YR	35-44 YR	45-54 YR	55-64 YR	65-74 YR	75-84 YR	85 & OV	
630-638.....	78	-	-	-	23	45	10	-	-	-	-	-	-
640-676.....	326	-	-	-	109	154	61	2	-	-	-	-	-
740-759.....	18,480	10,789	1,225	749	853	695	511	737	951	949	690	328	3
760-779.....	29,215	28,969	144	34	26	10	6	5	8	3	5	1	4
767-769.....	10,846	10,749	48	18	9	2	5	5	4	2	4	-	-
760-769, 770-779	28,199	28,032	112	18	17	8	1	-	4	1	1	1	4
780-799.....	355,296	10,154	1,737	1,914	4,908	6,278	9,077	22,653	51,467	84,378	92,799	69,806	125
RESIDUAL.....	487,504	5,368	2,221	2,651	6,802	10,351	15,680	34,138	69,269	110,185	133,001	97,747	91
E800-E949.....	163,637	1,895	3,761	5,605	27,121	18,519	11,258	12,559	17,053	21,867	24,235	19,656	108
E810-E825.....	54,073	251	1,185	2,763	19,134	10,848	5,414	4,324	3,942	3,160	2,356	670	26
E800-E807, E826- E949.....	110,080	1,646	2,581	2,866	8,163	7,778	5,904	8,279	13,148	18,737	21,904	18,992	82
E950-E959.....	27,004	-	-	142	5,255	5,943	3,947	3,642	3,483	2,655	1,486	434	17
E960-E978.....	24,455	221	321	417	6,664	7,280	3,885	2,554	1,557	923	425	132	76
E980-E999.....	3,921	72	105	82	718	921	560	473	428	269	187	80	26
N800-N999.....	210,530	2,109	4,112	6,119	39,145	32,119	19,177	18,410	21,144	23,879	24,725	19,368	223
N800-N848.....	47,129	187	552	1,166	7,420	4,741	2,652	2,451	2,954	4,504	9,065	11,413	24
N850-N854.....	39,382	404	931	1,788	11,433	7,142	3,910	3,462	3,397	3,009	2,619	1,245	42

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 5

NUMBER OF RESIDENT DEATHS TABULATED BY
ENTITY AXIS MULTIPLE CAUSE-OF-DEATH AND AGE: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	AGE												N. S.
	ALL AGES	<1 YR	01-04 YR	05-14 YR	15-24 YR	25-34 YR	35-44 YR	45-54 YR	55-64 YR	65-74 YR	75-84 YR	85 & OV	
N860-N869.....	30,314	78	406	912	8,968	6,736	3,800	3,094	2,641	1,912	1,318	433	16
N870-N897.....	38,786	34	141	690	10,040	10,296	5,725	4,255	3,458	2,423	1,272	387	65
N900-N904.....	5,779	6	28	109	1,622	1,479	779	614	498	338	228	70	8
N905-N909.....	3,186	15	24	38	116	135	161	222	384	557	712	820	2
N910-N929.....	3,062	26	79	127	687	454	321	297	316	278	265	212	-
N930-N939.....	11,761	458	305	224	597	634	658	1,057	1,667	2,250	2,336	1,574	1
N940-N949.....	5,941	121	475	305	808	759	573	572	658	727	643	290	10
N950-N957.....	2,355	3	31	109	580	474	242	230	211	240	168	63	4
N958-N959.....	31,835	152	531	1,160	8,150	5,928	3,325	2,889	2,810	2,504	2,497	1,866	23
N960-N995.....	38,419	551	1,619	1,817	7,443	7,288	4,366	4,105	3,942	3,377	2,598	1,214	99
N996-N999.....	24,574	490	251	183	332	491	810	1,891	4,393	7,046	5,751	2,933	3

- QUANTITY = 0

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 6

NUMBER OF RESIDENT DEATHS TABULATED BY
RECORD AXIS MULTIPLE CAUSE-OF-DEATH, RACE, AND SEX: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS)

CAUSE OF DEATH	RACE											
	ALL RACES			WHITE			ALL OTHER 1/			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
004, 006.....	60	32	28	47	24	23	13	8	5	11	6	5
007-009.....	570	250	320	463	198	265	107	52	55	100	47	53
010-018.....	4,500	3,062	1,438	3,051	2,084	967	1,449	978	471	1,278	889	389
010-012.....	3,867	2,741	1,126	2,663	1,886	777	1,204	855	349	1,068	780	288
013-018.....	690	362	328	416	218	198	274	144	130	233	127	106
033.....	13	5	8	10	5	5	3	-	3	3	-	3
034-035.....	37	14	23	32	11	21	5	3	2	4	2	2
036.....	412	219	193	327	169	158	85	50	35	75	44	31
038.....	58,391	29,549	28,842	47,921	24,199	23,722	10,470	5,350	5,120	9,810	4,978	4,832
045.....	70	41	29	64	38	26	6	3	3	5	3	2
055.....	17	11	6	13	8	5	4	3	1	4	3	1
070.....	1,091	594	497	900	500	400	191	94	97	150	71	79
090-097.....	530	306	224	312	180	132	218	126	92	215	124	91
REM. 001 - 139....	9,365	4,936	4,429	7,793	4,102	3,691	1,572	834	738	1,412	734	678
140-208.....	472,269	258,549	213,720	418,745	227,761	190,984	53,524	30,788	22,736	49,873	28,675	21,198
140-149.....	10,342	7,149	3,193	8,758	5,922	2,836	1,584	1,227	357	1,485	1,154	331
150-159.....	124,952	65,743	59,209	109,782	57,275	52,507	15,170	8,468	6,702	13,850	7,656	6,194

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 6

NUMBER OF RESIDENT DEATHS TABULATED BY
RECORD AXIS MULTIPLE CAUSE-OF-DEATH, RACE, AND SEX: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	RACE											
	ALL RACES			WHITE			ALL OTHER 1/			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
160-165.....	119,006	87,065	31,941	105,679	76,892	28,787	13,327	10,173	3,154	12,540	9,605	2,935
174-175.....	42,114	311	41,803	38,179	273	37,906	3,935	38	3,897	3,707	38	3,669
179-187.....	58,878	33,100	25,778	50,492	28,170	22,322	8,386	4,930	3,456	7,992	4,745	3,247
188-189.....	22,367	15,042	7,325	20,630	14,004	6,626	1,737	1,038	699	1,613	946	667
170-173, 190-199	199,740	104,084	95,656	178,711	92,559	86,152	21,029	11,525	9,504	19,659	10,786	8,873
204-208.....	20,691	11,564	9,127	18,966	10,622	8,344	1,725	942	783	1,566	849	717
200-203.....	25,985	13,620	12,365	23,440	12,253	11,187	2,545	1,367	1,178	2,347	1,255	1,092
210-239.....	11,683	5,493	6,190	10,275	4,868	5,407	1,408	625	783	1,301	576	725
250.....	135,931	59,190	76,741	117,567	52,166	65,401	18,364	7,024	11,340	16,943	6,326	10,617
260-269.....	23,177	10,660	12,517	20,342	9,093	11,249	2,835	1,567	1,268	2,656	1,470	1,186
280-285.....	28,288	12,636	15,652	23,945	10,532	13,413	4,343	2,104	2,239	4,055	1,946	2,109
320-322.....	3,134	1,749	1,385	2,371	1,322	1,049	763	427	336	708	394	314
390-448.....	1,301,232	669,912	631,320	1,154,517	593,907	560,610	146,715	76,005	70,710	137,293	70,308	66,985
390-398, 402, 404-429.....	1,099,836	581,608	518,228	977,396	516,970	460,426	122,440	64,638	57,802	114,550	59,751	54,799
390-398.....	12,636	4,436	8,200	11,662	4,067	7,595	974	369	605	859	321	538
402.....	43,675	19,125	24,550	34,090	14,765	19,325	9,585	4,360	5,225	9,211	4,163	5,048

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 6

NUMBER OF RESIDENT DEATHS TABULATED BY
RECORD AXIS MULTIPLE CAUSE-OF-DEATH, RACE, AND SEX: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	RACE											
	ALL RACES			WHITE			ALL OTHER 1/			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
404.....	5,378	2,253	3,125	4,200	1,755	2,445	1,178	498	680	1,131	478	653
410-414.....	667,454	363,493	303,961	612,433	334,294	278,139	55,021	29,199	25,822	50,961	26,522	24,439
410.....	324,510	192,504	132,006	298,233	178,116	120,117	26,277	14,388	11,889	24,319	13,069	11,250
411.....	12,826	7,778	5,048	11,333	6,863	4,470	1,493	915	578	1,307	777	530
413.....	4,604	2,662	1,942	4,355	2,538	1,817	249	124	125	226	111	115
412, 414....	481,104	252,209	228,895	443,972	232,984	210,988	37,132	19,225	17,907	34,183	17,300	16,883
424.....	17,088	8,634	8,454	15,615	7,864	7,751	1,473	770	703	1,320	675	645
415-423, 425- 429.....	734,909	379,437	355,472	647,665	333,600	314,065	87,244	45,837	41,407	81,593	42,410	39,183
401, 403.....	82,591	36,872	45,719	68,615	30,646	37,969	13,976	6,226	7,750	13,120	5,732	7,388
430-438.....	282,995	119,770	163,225	248,458	103,945	144,513	34,537	15,825	18,712	32,330	14,688	17,642
431-432.....	30,129	13,830	16,299	25,124	11,311	13,813	5,005	2,519	2,486	4,582	2,298	2,284
434.0, 434.9..	49,958	20,901	29,057	44,484	18,405	26,079	5,474	2,496	2,978	5,127	2,318	2,809
434.1.....	3,096	1,282	1,814	2,847	1,167	1,680	249	115	134	222	101	121
430, 433, 435- 438.....	219,010	91,390	127,620	193,467	79,916	113,551	25,543	11,474	14,069	23,986	10,673	13,313
440.....	158,467	69,519	88,948	145,966	63,773	82,193	12,501	5,746	6,755	11,680	5,305	6,375
441-448.....	36,858	22,412	14,446	33,735	20,744	12,991	3,123	1,668	1,455	2,852	1,486	1,366

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 6

NUMBER OF RESIDENT DEATHS TABULATED BY
RECORD AXIS MULTIPLE CAUSE-OF-DEATH, RACE, AND SEX: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	RACE											
	ALL RACES			WHITE			ALL OTHER 1/			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
466.....	2,154	1,120	1,034	1,980	1,018	962	174	102	72	155	87	68
480-487.....	164,633	88,187	76,446	147,642	77,948	69,694	16,991	10,239	6,752	15,368	9,223	6,145
480-486.....	160,749	86,739	74,010	143,922	76,569	67,353	16,827	10,170	6,657	15,228	9,162	6,066
487.....	3,887	1,449	2,438	3,723	1,380	2,343	164	69	95	140	61	79
490-496.....	131,452	92,704	38,748	123,132	86,630	36,502	8,320	6,074	2,246	7,604	5,545	2,059
490-491.....	9,318	5,668	3,650	8,739	5,303	3,436	579	365	214	510	323	187
492.....	34,314	25,876	8,438	32,586	24,456	8,130	1,728	1,420	308	1,578	1,305	273
493.....	7,071	3,141	3,930	5,917	2,604	3,313	1,154	537	617	1,061	485	576
494-496.....	82,287	58,918	23,369	77,304	55,085	22,219	4,983	3,833	1,150	4,560	3,502	1,058
531-533.....	16,594	9,548	7,046	15,048	8,594	6,454	1,546	954	592	1,362	837	525
540-543.....	1,253	697	556	1,038	583	455	215	114	101	205	108	97
550-553, 560.....	19,249	7,663	11,586	17,207	6,646	10,561	2,042	1,017	1,025	1,911	939	972
571.....	45,379	29,837	15,542	37,671	24,931	12,740	7,708	4,906	2,802	6,947	4,427	2,520
574-575.....	9,250	3,968	5,282	8,484	3,671	4,813	766	297	469	651	230	421
580-589.....	87,826	47,184	40,642	73,791	40,039	33,752	14,035	7,145	6,890	13,017	6,584	6,433
580-581.....	1,071	559	512	920	480	440	151	79	72	138	67	71
582-583, 587....	5,446	2,818	2,628	4,365	2,262	2,103	1,081	556	525	1,006	509	497

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 6

NUMBER OF RESIDENT DEATHS TABULATED BY
RECORD AXIS MULTIPLE CAUSE-OF-DEATH, RACE, AND SEX: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	RACE											
	ALL RACES			WHITE			ALL OTHER 1/			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
584-586, 588-589	83,404	44,868	38,536	70,255	38,181	32,074	13,149	6,687	6,462	12,195	6,168	6,027
590.....	6,886	2,763	4,123	6,040	2,363	3,677	846	400	446	787	370	417
600.....	3,798	3,798	-	3,395	3,395	-	403	403	-	374	374	-
630-676.....	389	-	389	231	-	231	158	-	158	141	-	141
630-638.....	78	-	78	40	-	40	38	-	38	34	-	34
640-676.....	326	-	326	201	-	201	125	-	125	110	-	110
740-759.....	18,393	9,928	8,465	15,190	8,206	6,984	3,203	1,722	1,481	2,826	1,529	1,297
760-779.....	29,177	16,512	12,665	20,373	11,664	8,709	8,804	4,848	3,956	8,229	4,559	3,670
767-769.....	10,737	6,311	4,426	7,844	4,686	3,158	2,893	1,625	1,268	2,681	1,503	1,178
760-766, 770-779	28,185	15,931	12,254	19,612	11,219	8,393	8,573	4,712	3,861	8,015	4,431	3,584
780-799.....	349,803	184,903	164,900	303,293	159,302	143,991	46,510	25,601	20,909	42,967	23,534	19,433
RESIDUAL.....	466,213	235,826	230,387	407,540	204,135	203,405	58,673	31,691	26,982	53,999	28,943	25,056
E800-E949.....	163,637	103,284	60,353	142,030	88,644	53,386	21,607	14,640	6,967	18,960	12,805	6,155
E810-E825.....	54,073	39,549	14,524	47,660	34,711	12,949	6,413	4,838	1,575	5,171	3,986	1,185
E800-E807, E826- E949.....	110,080	64,131	45,949	94,818	54,272	40,546	15,262	9,859	5,403	13,851	8,874	4,977
E950-E959.....	27,004	20,604	6,400	24,952	18,992	5,960	2,052	1,612	440	1,617	1,304	313

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 6

NUMBER OF RESIDENT DEATHS TABULATED BY
RECORD AXIS MULTIPLE CAUSE-OF-DEATH, RACE, AND SEX: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	RACE											
	ALL RACES			WHITE			ALL OTHER ^{1/}			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
E960-E978.....	24,455	19,218	5,237	13,682	10,469	3,213	10,773	8,749	2,024	10,331	8,424	1,907
E980-E999.....	3,921	2,812	1,109	2,977	2,104	873	944	708	236	856	643	213
N800-N999.....	210,530	141,134	69,396	176,324	116,111	60,213	34,206	25,023	9,183	30,698	22,555	8,143
N800-N848.....	47,129	25,968	21,161	43,095	23,183	19,912	4,034	2,785	1,249	3,496	2,437	1,059
N850-N854.....	39,382	29,079	10,303	33,771	24,779	8,992	5,611	4,300	1,311	4,812	3,725	1,087
N860-N869.....	30,314	23,359	6,955	24,894	18,959	5,935	5,420	4,400	1,020	4,861	3,998	863
N870-N897.....	38,786	31,887	6,899	28,127	22,920	5,207	10,659	8,967	1,692	10,113	8,545	1,568
N900-N904.....	5,779	4,518	1,261	4,339	3,320	1,019	1,440	1,198	242	1,330	1,114	216
N905-N909.....	3,186	1,632	1,554	2,777	1,346	1,431	409	286	123	367	260	107
N910-N929.....	3,062	2,145	917	2,685	1,877	808	377	268	109	338	240	98
N930-N939.....	11,761	6,991	4,770	9,875	5,807	4,068	1,886	1,184	702	1,705	1,068	637
N940-N949.....	5,941	3,916	2,025	4,465	2,974	1,491	1,476	942	534	1,387	877	510
N950-N957.....	2,355	1,761	594	1,840	1,352	488	515	409	106	475	384	91
N958-N959.....	31,835	22,688	9,147	26,760	18,872	7,888	5,075	3,816	1,259	4,295	3,284	1,011
N960-N995.....	38,419	26,271	12,148	31,100	21,353	9,747	7,319	4,918	2,401	6,529	4,364	2,165
N996-N999.....	24,574	13,824	10,750	21,708	12,208	9,500	2,866	1,616	1,250	2,613	1,452	1,161

^{1/} INCLUDES BLACK
- QUANTITY = 0

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 7

NUMBER OF RESIDENT DEATHS TABULATED BY
UNDERLYING CAUSE-OF-DEATH, RACE AND SEX: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST)

CAUSE OF DEATH	RACE											
	ALL RACES			WHITE			ALL OTHER 1/			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
ALL CAUSES.....	1,989,841	1,075,078	914,763	1,738,607	933,878	804,729	251,234	141,200	110,034	233,135	130,138	102,997
004, 006.....	37	21	16	28	14	14	9	7	2	7	5	2
007-009.....	364	162	202	286	122	164	78	40	38	72	36	36
010-018.....	1,978	1,331	647	1,253	856	397	725	475	250	651	443	208
010-012.....	1,638	1,148	490	1,067	752	315	571	396	175	518	373	145
013-018.....	340	183	157	186	104	82	154	79	75	133	70	63
033.....	11	4	7	8	4	4	3	-	3	3	-	3
034-035.....	15	6	9	13	4	9	2	2	-	1	1	-
036.....	387	204	183	306	158	148	81	46	35	72	41	31
038.....	9,438	4,684	4,754	7,461	3,672	3,789	1,977	1,012	965	1,877	958	919
045.....	6	4	2	4	3	1	2	1	1	2	1	1
055.....	11	6	5	8	4	4	3	2	1	3	2	1
070.....	809	415	394	667	350	317	142	65	77	113	50	63
090-097.....	154	92	62	93	50	43	61	42	19	59	41	18
REM. 001 - 139....	4,078	2,099	1,979	3,292	1,708	1,584	786	391	395	716	353	363
140-208.....	416,509	225,948	190,561	368,162	198,188	169,974	48,347	27,760	20,587	45,037	25,861	19,176
140-149.....	8,553	5,899	2,654	7,181	4,827	2,354	1,372	1,072	300	1,287	1,005	282

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 7

NUMBER OF RESIDENT DEATHS TABULATED BY
UNDERLYING CAUSE-OF-DEATH, RACE AND SEX: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST) - CONTINUED

CAUSE OF DEATH	RACE											
	ALL RACES			WHITE			ALL OTHER 1/			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
150-159.....	110,647	57,947	52,700	96,873	50,227	46,646	13,774	7,720	6,054	12,567	6,978	5,589
160-165.....	108,504	79,150	29,354	96,153	69,720	26,433	12,351	9,430	2,921	11,618	8,904	2,714
174-175.....	35,897	256	35,641	32,450	227	32,223	3,447	29	3,418	3,244	29	3,215
179-187.....	46,430	23,647	22,783	39,490	19,784	19,706	6,940	3,863	3,077	6,626	3,742	2,884
188-189.....	17,828	11,692	6,136	16,377	10,848	5,529	1,451	844	607	1,349	772	577
170-173, 190-199	50,679	27,016	23,663	45,252	24,169	21,083	5,427	2,847	2,580	5,075	2,659	2,416
204-208.....	16,533	9,193	7,340	15,081	8,396	6,685	1,452	797	655	1,310	714	596
200-203.....	21,438	11,148	10,290	19,305	9,990	9,315	2,133	1,158	975	1,961	1,058	903
210-239.....	6,193	2,879	3,314	5,383	2,514	2,869	810	365	445	749	339	410
250.....	34,851	14,325	20,526	28,868	12,125	16,743	5,983	2,200	3,783	5,544	2,010	3,534
260-269.....	2,364	962	1,402	2,008	779	1,229	356	183	173	333	172	161
280-285.....	3,238	1,421	1,817	2,550	1,085	1,465	688	336	352	660	321	339
320-322.....	1,415	796	619	1,020	577	443	395	219	176	369	203	166
390-448.....	988,545	503,749	484,796	883,540	450,122	433,418	105,005	53,627	51,378	98,502	49,610	48,892
390-398, 402, 404-429.....	761,085	405,661	355,424	683,347	364,679	318,668	77,738	40,982	36,756	72,956	37,877	35,079
390-398.....	7,836	2,660	5,176	7,203	2,424	4,779	633	236	397	556	206	350

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 7

NUMBER OF RESIDENT DEATHS TABULATED BY
UNDERLYING CAUSE-OF-DEATH, RACE AND SEX: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST) - CONTINUED

CAUSE OF DEATH	RACE											
	ALL RACES			WHITE			ALL OTHER 1/			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
402.....	21,095	8,870	12,225	15,682	6,386	9,296	5,413	2,484	2,929	5,228	2,388	2,840
404.....	3,711	1,492	2,219	2,909	1,175	1,734	802	317	485	777	305	472
410-414.....	565,755	310,774	254,981	519,059	285,771	233,288	46,696	25,003	21,693	43,365	22,760	20,605
410.....	299,584	178,485	121,099	275,957	165,470	110,487	23,627	13,015	10,612	21,892	11,834	10,058
411.....	4,773	2,975	1,798	4,048	2,522	1,526	725	453	272	685	420	265
413.....	561	303	258	510	281	229	51	22	29	45	19	26
412, 414....	260,837	129,011	131,826	238,544	117,498	121,046	22,293	11,513	10,780	20,743	10,487	10,256
424.....	7,164	3,693	3,471	6,499	3,334	3,165	665	359	306	591	315	276
415-423, 425- 429.....	155,524	78,172	77,352	131,995	65,589	66,406	23,529	12,583	10,946	22,439	11,903	10,536
401, 403.....	7,827	3,581	4,246	6,130	2,813	3,317	1,697	768	929	1,627	728	899
430-438.....	170,225	69,973	100,252	148,734	60,095	88,639	21,491	9,878	11,613	20,135	9,194	10,941
431-432.....	20,772	9,427	11,345	17,165	7,584	9,581	3,607	1,843	1,764	3,315	1,684	1,631
434.0, 434.9..	34,048	13,747	20,301	30,404	12,113	18,291	3,644	1,634	2,010	3,425	1,522	1,903
434.1.....	795	335	460	705	290	415	90	45	45	80	40	40
430, 433, 435- 438.....	114,610	46,464	68,146	100,460	40,108	60,352	14,150	6,356	7,794	13,315	5,948	7,367
440.....	29,449	11,601	17,848	27,069	10,543	16,526	2,380	1,058	1,322	2,252	990	1,262

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 7

NUMBER OF RESIDENT DEATHS TABULATED BY
UNDERLYING CAUSE-OF-DEATH, RACE AND SEX: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST) - CONTINUED

CAUSE OF DEATH	RACE											
	ALL RACES			WHITE			ALL OTHER 1/			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
441-448.....	19,959	12,933	7,026	18,260	11,992	6,268	1,699	941	758	1,532	821	711
466.....	642	299	343	568	255	313	74	44	30	64	35	29
480-487.....	54,619	27,574	27,045	48,369	23,810	24,559	6,250	3,764	2,486	5,648	3,386	2,262
480-486.....	51,917	26,581	25,336	45,774	22,859	22,915	6,143	3,722	2,421	5,560	3,349	2,211
487.....	2,702	993	1,709	2,595	951	1,644	107	42	65	88	37	51
490-496.....	56,050	38,625	17,425	52,375	35,977	16,398	3,675	2,648	1,027	3,380	2,429	951
490-491.....	3,728	2,380	1,348	3,513	2,231	1,282	215	149	66	195	136	59
492.....	13,877	10,133	3,744	13,194	9,587	3,607	683	546	137	625	504	121
493.....	2,891	1,292	1,599	2,291	1,008	1,283	600	284	316	557	260	297
494-496.....	35,554	24,820	10,734	33,377	23,151	10,226	2,177	1,669	508	2,003	1,529	474
531-533.....	6,115	3,405	2,710	5,543	3,036	2,507	572	369	203	511	331	180
540-543.....	701	383	318	566	308	258	135	75	60	130	72	58
550-553, 560.....	5,415	2,147	3,268	4,757	1,806	2,951	658	341	317	618	319	299
571.....	30,583	19,768	10,815	25,240	16,407	8,833	5,343	3,361	1,982	4,790	3,020	1,770
574-575.....	3,285	1,475	1,810	2,995	1,356	1,639	290	119	171	235	89	146
580-589.....	16,753	8,638	8,115	13,137	6,848	6,289	3,616	1,790	1,826	3,416	1,694	1,722
580-581.....	328	162	166	270	131	139	58	31	27	55	28	27

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 7

NUMBER OF RESIDENT DEATHS TABULATED BY
UNDERLYING CAUSE-OF-DEATH, RACE AND SEX: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST) - CONTINUED

CAUSE OF DEATH	RACE											
	ALL RACES			WHITE			ALL OTHER 1/			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
582-583, 587.....	2,245	1,138	1,107	1,717	878	839	528	260	268	498	243	255
584-586, 588-589	14,180	7,338	6,842	11,150	5,839	5,311	3,030	1,499	1,531	2,863	1,423	1,440
590.....	2,732	960	1,772	2,365	813	1,552	367	147	220	350	138	212
600.....	754	754	-	654	654	-	100	100	-	91	91	-
630-676.....	334	-	334	193	-	193	141	-	141	127	-	127
630-638.....	62	-	62	27	-	27	35	-	35	31	-	31
640-676.....	272	-	272	166	-	166	106	-	106	96	-	96
740-759.....	13,938	7,496	6,442	11,471	6,188	5,283	2,467	1,308	1,159	2,168	1,160	1,008
760-779.....	22,866	13,051	9,815	15,457	8,945	6,512	7,409	4,106	3,303	6,961	3,869	3,092
767-769.....	7,580	4,503	3,077	5,503	3,336	2,167	2,077	1,167	910	1,937	1,089	848
760-766, 770-779	15,286	8,548	6,738	9,954	5,609	4,345	5,332	2,939	2,393	5,024	2,780	2,244
780-799.....	28,808	16,465	12,343	20,902	11,992	8,910	7,906	4,473	3,433	7,461	4,214	3,247
RESIDUAL.....	115,292	58,514	56,778	97,751	48,917	48,834	17,541	9,597	7,944	16,248	8,865	7,383
E800-E949.....	105,718	74,180	31,538	90,122	62,963	27,159	15,596	11,217	4,379	13,480	9,701	3,779
E810-E825.....	53,172	38,861	14,311	46,863	34,109	12,754	6,309	4,752	1,557	5,081	3,912	1,169
E800-E807, E826- E949.....	52,546	35,319	17,227	43,259	28,854	14,405	9,287	6,465	2,822	8,399	5,789	2,610

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 7

NUMBER OF RESIDENT DEATHS TABULATED BY
UNDERLYING CAUSE-OF-DEATH, RACE AND SEX: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST) - CONTINUED

CAUSE OF DEATH	RACE											
	ALL RACES			WHITE			ALL OTHER 1/			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
E950-E959.....	26,869	20,505	6,364	24,829	18,901	5,928	2,040	1,604	436	1,607	1,297	310
E960-E978.....	24,278	19,088	5,190	13,558	10,381	3,177	10,720	8,707	2,013	10,283	8,385	1,898
E980-E999.....	3,686	2,643	1,043	2,805	1,986	819	881	657	224	797	596	201

1/ INCLUDES BLACK
- QUANTITY = 0

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE B

NUMBER OF RESIDENT DEATHS TABULATED BY PRESENCE OF A SECONDARY CAUSE
AS A RECORD AXIS MULTIPLE CAUSE-OF-DEATH, RACE AND SEX: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS)

CAUSE OF DEATH	RACE											
	ALL RACES			WHITE			ALL OTHER 1/			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
004, 006.....	23	11	12	19	10	9	4	1	3	4	1	3
007-009.....	206	88	118	177	76	101	29	12	17	28	11	17
010-018.....	2,522	1,731	791	1,798	1,228	570	724	503	221	627	446	181
010-012.....	2,230	1,594	636	1,597	1,135	462	633	459	174	550	407	143
013-018.....	354	182	172	233	116	117	121	66	55	101	58	43
033.....	2	1	1	2	1	1	-	-	-	-	-	-
034-035.....	22	8	14	19	7	12	3	1	2	3	1	2
036.....	25	15	10	21	11	10	4	4	-	3	3	-
038.....	48,953	24,865	24,088	40,460	20,527	19,933	8,493	4,338	4,155	7,933	4,020	3,913
045.....	64	37	27	60	35	25	4	2	2	3	2	1
055.....	6	5	1	5	4	1	1	1	-	1	1	-
070.....	282	179	103	233	150	83	49	29	20	37	21	16
090-097.....	376	214	162	219	130	89	157	84	73	156	83	73
REM. 001 - 139.....	5,289	2,837	2,452	4,503	2,394	2,109	786	443	343	696	381	315
140-208.....	55,763	32,602	23,161	50,586	29,574	21,012	5,177	3,028	2,149	4,836	2,814	2,022
140-149.....	1,790	1,251	539	1,578	1,096	482	212	155	57	198	149	49
150-159.....	14,305	7,796	6,509	12,909	7,048	5,861	1,396	748	648	1,283	678	605

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 8

NUMBER OF RESIDENT DEATHS TABULATED BY PRESENCE OF A SECONDARY CAUSE
AS A RECORD AXIS MULTIPLE CAUSE-OF-DEATH, RACE AND SEX: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	RACE											
	ALL RACES			WHITE			ALL OTHER 1/			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
160-165.....	10,502	7,915	2,587	9,526	7,172	2,354	976	743	233	922	701	221
174-175.....	6,218	55	6,163	5,730	46	5,684	488	9	479	463	9	454
179-187.....	12,448	9,453	2,995	11,002	8,386	2,616	1,446	1,067	379	1,366	1,003	363
188-189.....	4,539	3,350	1,189	4,253	3,156	1,097	286	194	92	264	174	90
170-173, 190-199..	149,063	77,068	71,995	133,461	68,390	65,071	15,602	8,678	6,924	14,584	8,127	6,457
204-208.....	4,158	2,371	1,787	3,885	2,226	1,659	273	145	128	256	135	121
200-203.....	4,548	2,473	2,075	4,136	2,264	1,872	412	209	203	386	197	189
210-239.....	5,493	2,616	2,877	4,895	2,356	2,539	598	260	338	552	237	315
250.....	101,080	44,865	56,215	88,699	40,041	48,658	12,381	4,824	7,557	11,399	4,316	7,083
260-269.....	20,824	9,704	11,120	18,342	8,318	10,024	2,482	1,386	1,096	2,326	1,300	1,026
280-285.....	25,050	11,215	13,835	21,395	9,447	11,948	3,655	1,768	1,887	3,395	1,625	1,770
320-322.....	1,719	953	766	1,351	745	606	368	208	160	339	191	148
390-448.....	312,764	166,204	146,560	271,038	143,816	127,222	41,726	22,388	19,338	38,804	20,706	18,098
390-398, 402, 404-429.....	338,779	175,969	162,810	294,069	152,308	141,761	44,710	23,661	21,049	41,601	21,879	19,722
390-398.....	4,804	1,778	3,026	4,463	1,645	2,818	341	133	208	303	115	188
402.....	22,753	10,320	12,433	18,546	8,429	10,117	4,207	1,891	2,316	4,017	1,789	2,228

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 8

NUMBER OF RESIDENT DEATHS TABULATED BY PRESENCE OF A SECONDARY CAUSE
AS A RECORD AXIS MULTIPLE CAUSE-OF-DEATH, RACE AND SEX: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	RACE											
	ALL RACES			WHITE			ALL OTHER 1/			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
404.....	1,979	902	1,077	1,548	702	846	431	200	231	407	191	216
410-414.....	101,702	52,722	48,980	93,377	48,526	44,851	8,325	4,196	4,129	7,596	3,762	3,834
410.....	24,928	14,020	10,908	22,278	12,647	9,631	2,650	1,373	1,277	2,427	1,235	1,192
411.....	8,053	4,803	3,250	7,285	4,341	2,944	768	462	306	622	357	265
413.....	4,043	2,359	1,684	3,845	2,257	1,588	198	102	96	181	92	89
412, 414.....	220,271	123,201	97,070	205,432	115,489	89,943	14,839	7,712	7,127	13,440	6,813	6,627
424.....	9,924	4,941	4,983	9,116	4,530	4,586	808	411	397	729	360	369
415-423, 425- 429.....	579,418	301,289	278,129	515,695	268,030	247,665	63,723	33,259	30,464	59,161	30,512	28,649
401, 403.....	74,821	33,316	41,505	62,538	27,858	34,680	12,283	5,458	6,825	11,497	5,004	6,493
430-438.....	112,784	49,802	62,982	99,738	43,855	55,883	13,046	5,947	7,099	12,195	5,494	6,701
431-432.....	9,403	4,418	4,985	7,999	3,740	4,259	1,404	678	726	1,273	616	657
434.0, 434.9....	15,911	7,154	8,757	14,081	6,292	7,789	1,830	862	968	1,702	796	906
434.1.....	2,301	947	1,354	2,142	877	1,265	159	70	89	142	61	81
430, 433, 435- 438.....	104,431	44,938	59,493	93,032	39,819	53,213	11,399	5,119	6,280	10,677	4,726	5,951
440.....	129,022	57,918	71,104	118,901	53,230	65,671	10,121	4,688	5,433	9,428	4,315	5,113
441-448.....	17,052	9,549	7,503	15,602	8,807	6,795	1,450	742	708	1,341	677	664

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 8

NUMBER OF RESIDENT DEATHS TABULATED BY PRESENCE OF A SECONDARY CAUSE
AS A RECORD AXIS MULTIPLE CAUSE-OF-DEATH, RACE AND SEX: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	RACE											
	ALL RACES			WHITE			ALL OTHER 1/			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
466.....	1,512	821	691	1,412	763	649	100	58	42	91	52	39
480-487.....	110,015	60,614	49,401	99,274	54,139	45,135	10,741	6,475	4,266	9,720	5,837	3,883
480-486.....	108,834	60,159	48,675	98,149	53,711	44,438	10,685	6,448	4,237	9,669	5,813	3,856
487.....	1,185	456	729	1,128	429	699	57	27	30	52	24	28
490-496.....	75,406	54,082	21,324	70,761	50,656	20,105	4,645	3,426	1,219	4,224	3,116	1,108
490-491.....	5,590	3,288	2,302	5,226	3,072	2,154	364	216	148	315	187	128
492.....	20,437	15,743	4,694	19,392	14,869	4,523	1,045	874	171	953	801	152
493.....	4,225	1,876	2,349	3,668	1,621	2,047	557	255	302	507	227	280
494-496.....	46,738	34,102	12,636	43,932	31,938	11,994	2,806	2,164	642	2,557	1,973	584
531-533.....	10,480	6,144	4,336	9,506	5,559	3,947	974	585	389	851	506	345
540-543.....	552	314	238	472	275	197	80	39	41	75	36	39
550-553, 560.....	13,834	5,516	8,318	12,450	4,840	7,610	1,384	676	708	1,293	620	673
571.....	14,928	10,163	4,765	12,525	8,592	3,933	2,403	1,571	832	2,191	1,430	761
574-575.....	5,965	2,493	3,472	5,489	2,315	3,174	476	178	298	416	141	275
580-589.....	71,087	38,553	32,534	60,664	33,198	27,466	10,423	5,355	5,068	9,605	4,890	4,715
580-581.....	746	397	349	652	349	303	94	48	46	84	39	45
582-583, 587.....	3,226	1,692	1,534	2,668	1,396	1,272	558	296	262	513	266	247

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 8

NUMBER OF RESIDENT DEATHS TABULATED BY PRESENCE OF A SECONDARY CAUSE
AS A RECORD AXIS MULTIPLE CAUSE-OF-DEATH, RACE AND SEX: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	RACE											
	ALL RACES			WHITE			ALL OTHER 1/			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
584-586, 588-589..	69,231	37,534	31,697	59,111	32,345	26,766	10,120	5,189	4,931	9,333	4,746	4,587
590.....	4,218	1,827	2,391	3,734	1,574	2,160	484	253	231	442	232	210
600.....	3,044	3,044	-	2,741	2,741	-	303	303	-	283	283	-
630-676.....	55	-	55	38	-	38	17	-	17	14	-	14
630-638.....	16	-	16	13	-	13	3	-	3	3	-	3
640-676.....	54	-	54	35	-	35	19	-	19	14	-	14
740-759.....	4,459	2,434	2,025	3,723	2,020	1,703	736	414	322	658	369	289
760-779.....	6,311	3,461	2,850	4,916	2,719	2,197	1,395	742	653	1,268	690	578
767-769.....	3,157	1,808	1,349	2,341	1,350	991	816	458	358	744	414	330
760-766, 770-779..	12,899	7,383	5,516	9,658	5,610	4,048	3,241	1,773	1,468	2,991	1,651	1,340
780-799.....	320,995	168,438	152,557	282,391	147,310	135,081	38,604	21,128	17,476	35,506	19,320	16,186
RESIDUAL.....	350,981	177,345	173,636	309,832	155,244	154,588	41,149	22,101	19,048	37,767	20,085	17,682
E800-E949.....	57,922	29,107	28,815	51,911	25,684	26,227	6,011	3,423	2,588	5,480	3,104	2,376
E810-E825.....	904	691	213	800	605	195	104	86	18	90	74	16
E800-E807, E826- E949.....	57,535	28,813	28,722	51,560	25,419	26,141	5,975	3,394	2,581	5,452	3,085	2,367
E950-E959.....	135	99	36	123	91	32	12	8	4	10	7	3

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 8

NUMBER OF RESIDENT DEATHS TABULATED BY PRESENCE OF A SECONDARY CAUSE
AS A RECORD AXIS MULTIPLE CAUSE-OF-DEATH, RACE AND SEX: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	RACE											
	ALL RACES			WHITE			ALL OTHER ^{1/}			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
E960-E978.....	177	130	47	124	88	36	53	42	11	48	39	9
E980-E999.....	236	170	66	173	119	54	63	51	12	59	47	12
N800-N999.....	210,530	141,134	69,396	176,324	116,111	60,213	34,206	25,023	9,183	30,698	22,555	8,143
N800-N848.....	47,129	25,968	21,161	43,095	23,183	19,912	4,034	2,785	1,249	3,496	2,437	1,059
N850-N854.....	39,382	29,079	10,303	33,771	24,779	8,992	5,611	4,300	1,311	4,812	3,725	1,087
N860-N869.....	30,314	23,359	6,955	24,894	18,959	5,935	5,420	4,400	1,020	4,861	3,998	863
N870-N897.....	38,786	31,887	6,899	28,127	22,920	5,207	10,659	8,967	1,692	10,113	8,545	1,568
N900-N904.....	5,779	4,518	1,261	4,339	3,320	1,019	1,440	1,198	242	1,330	1,114	216
N905-N909.....	3,186	1,632	1,554	2,777	1,346	1,431	409	286	123	367	260	107
N910-N929.....	3,062	2,145	917	2,685	1,877	808	377	268	109	338	240	98
N930-N939.....	11,761	6,991	4,770	9,875	5,807	4,068	1,886	1,184	702	1,705	1,068	637
N940-N949.....	5,941	3,916	2,025	4,465	2,974	1,491	1,476	942	534	1,387	877	510
N950-N957.....	2,355	1,761	594	1,840	1,352	488	515	409	106	475	384	91
N958-N959.....	31,835	22,688	9,147	26,760	18,872	7,888	5,075	3,816	1,259	4,295	3,284	1,011
N960-N995.....	38,419	26,271	12,148	31,100	21,353	9,747	7,319	4,918	2,401	6,529	4,364	2,165
N996-N999.....	24,574	13,824	10,750	21,708	12,208	9,500	2,866	1,616	1,250	2,613	1,452	1,161

^{1/} INCLUDES BLACK
- QUANTITY = 0

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 9

NUMBER OF RESIDENT DEATHS TABULATED BY
ENTITY AXIS MULTIPLE CAUSE-OF-DEATH, RACE, AND SEX: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS)

CAUSE OF DEATH	RACE											
	ALL RACES			WHITE			ALL OTHER 1/			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
004, 006.....	60	32	28	47	24	23	13	8	5	11	6	5
007-009.....	576	253	323	468	200	268	108	53	55	101	48	53
010-018.....	4,500	3,062	1,438	3,051	2,084	967	1,449	978	471	1,278	889	389
010-012.....	3,896	2,757	1,139	2,679	1,895	784	1,217	862	355	1,080	787	293
013-018.....	663	346	317	399	208	191	264	138	126	223	121	102
033.....	13	5	8	10	5	5	3	-	3	3	-	3
034-035.....	37	14	23	32	11	21	5	3	2	4	2	2
036.....	412	219	193	327	169	158	85	50	35	75	44	31
038.....	58,618	29,676	28,942	48,085	24,278	23,807	10,533	5,398	5,135	9,865	5,020	4,845
045.....	70	41	29	64	38	26	6	3	3	5	3	2
055.....	17	11	6	13	8	5	4	3	1	4	3	1
070.....	1,091	594	497	900	500	400	191	94	97	150	71	79
090-097.....	530	306	224	312	180	132	218	126	92	215	124	91
REM. 001 - 139....	9,836	5,153	4,683	8,177	4,276	3,901	1,659	877	782	1,496	776	720
140-208.....	472,270	258,549	213,721	418,740	227,761	190,985	53,524	30,788	22,736	49,873	28,675	21,198
140-149.....	10,342	7,149	3,193	8,758	5,922	2,836	1,584	1,227	357	1,485	1,154	331
150-159.....	124,952	65,743	59,209	109,782	57,275	52,507	15,170	8,468	6,702	13,850	7,656	6,194

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 9

NUMBER OF RESIDENT DEATHS TABULATED BY
ENTITY AXIS MULTIPLE CAUSE-OF-DEATH, RACE, AND SEX: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	RACE											
	ALL RACES			WHITE			ALL OTHER 1/			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
160-165.....	119,006	87,065	31,941	105,679	76,892	28,787	13,327	10,173	3,154	12,540	9,605	2,935
174-175.....	42,114	311	41,803	38,179	273	37,906	3,935	38	3,897	3,707	38	3,669
179-187.....	58,878	33,100	25,778	50,492	28,170	22,322	8,386	4,930	3,456	7,992	4,745	3,247
188-189.....	22,368	15,042	7,326	20,631	14,004	6,627	1,737	1,038	699	1,613	946	667
170-173, 190-199	200,117	104,267	95,850	179,051	92,726	86,325	21,066	11,541	9,525	19,694	10,802	8,892
204-208.....	20,692	11,565	9,127	18,966	10,622	8,344	1,726	943	783	1,567	850	717
200-203.....	25,985	13,620	12,365	23,440	12,253	11,187	2,545	1,367	1,178	2,347	1,255	1,092
210-239.....	11,908	5,615	6,293	10,459	4,973	5,486	1,449	642	807	1,339	592	747
250.....	135,931	59,190	76,741	117,567	52,166	65,401	18,364	7,024	11,340	16,943	6,326	10,617
260-269.....	23,792	10,981	12,811	20,854	9,357	11,497	2,938	1,624	1,314	2,752	1,523	1,229
280-285.....	28,310	12,644	15,666	23,961	10,536	13,425	4,349	2,108	2,241	4,061	1,950	2,111
320-322.....	3,156	1,762	1,394	2,388	1,331	1,057	768	431	337	713	398	315
390-448.....	1,302,031	670,285	631,746	1,155,198	594,229	560,969	146,833	76,056	70,777	137,402	70,356	67,046
390-398, 402, 404-429.....	1,100,206	581,766	518,440	977,711	517,104	460,607	122,495	64,662	57,833	114,598	59,773	54,825
390-398.....	12,644	4,439	8,205	11,670	4,070	7,600	974	369	605	859	321	538
402.....	42,754	18,894	23,860	33,114	14,515	18,599	9,640	4,379	5,261	9,272	4,189	5,083

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 9

NUMBER OF RESIDENT DEATHS TABULATED BY
ENTITY AXIS MULTIPLE CAUSE-OF-DEATH, RACE, AND SEX: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	RACE											
	ALL RACES			WHITE			ALL OTHER 1/			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
404.....	2,352	943	1,409	2,063	826	1,237	289	117	172	276	113	163
410-414.....	667,455	363,494	303,961	612,433	334,294	278,139	55,022	29,200	25,822	50,962	26,523	24,439
410.....	324,510	192,504	132,006	298,233	178,116	120,117	26,277	14,388	11,889	24,319	13,069	11,250
411.....	12,826	7,778	5,048	11,333	6,863	4,470	1,493	915	578	1,307	777	530
413.....	4,604	2,662	1,942	4,355	2,538	1,817	249	124	125	226	111	115
412, 414....	481,105	252,210	228,895	443,972	232,984	210,988	37,133	19,226	17,907	34,184	17,301	16,883
424.....	17,092	8,641	8,451	15,612	7,866	7,746	1,480	775	705	1,326	679	647
415-423, 425- 429.....	740,065	381,688	358,377	652,082	335,517	316,565	87,983	46,171	41,812	82,286	42,720	39,566
401, 403.....	89,332	39,572	49,760	73,803	32,681	41,122	15,529	6,891	8,638	14,602	6,360	8,242
430-438.....	282,858	119,716	163,142	248,339	103,899	144,440	34,519	15,817	18,702	32,314	14,682	17,632
431-432.....	30,870	14,111	16,759	25,757	11,555	14,202	5,113	2,556	2,557	4,679	2,333	2,346
434.0, 434.9..	50,299	21,041	29,258	44,792	18,528	26,264	5,507	2,513	2,994	5,154	2,332	2,822
434.1.....	3,096	1,282	1,814	2,847	1,167	1,680	249	115	134	222	101	121
430, 433, 435- 438.....	224,791	93,826	130,965	198,419	81,946	116,473	26,372	11,880	14,492	24,736	11,036	13,700
440.....	178,015	77,885	100,130	164,300	71,613	92,687	13,715	6,272	7,443	12,808	5,783	7,025
441-448.....	39,935	24,041	15,894	36,429	22,199	14,230	3,506	1,842	1,664	3,202	1,641	1,561

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 9

NUMBER OF RESIDENT DEATHS TABULATED BY
ENTITY AXIS MULTIPLE CAUSE-OF-DEATH, RACE, AND SEX: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	RACE											
	ALL RACES			WHITE			ALL OTHER 1/			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
466.....	2,503	1,332	1,171	2,309	1,218	1,091	194	114	80	173	97	76
480-487.....	165,940	88,956	76,984	148,756	78,594	70,162	17,184	10,362	6,822	15,541	9,336	6,205
480-486.....	163,344	87,990	75,354	146,274	77,677	68,597	17,070	10,313	6,757	15,441	9,290	6,151
487.....	3,887	1,449	2,438	3,723	1,380	2,343	164	69	95	140	61	79
490-496.....	132,302	93,499	38,803	123,937	87,384	36,553	8,365	6,115	2,250	7,647	5,585	2,062
490-491.....	9,393	5,699	3,694	8,806	5,328	3,478	587	371	216	517	329	188
492.....	37,034	27,852	9,182	35,183	26,336	8,847	1,851	1,516	335	1,688	1,392	296
493.....	7,262	3,248	4,014	6,091	2,701	3,390	1,171	547	624	1,076	495	581
494-496.....	89,225	63,889	25,336	83,839	59,771	24,068	5,386	4,118	1,268	4,930	3,765	1,165
531-533.....	16,598	9,551	7,047	15,052	8,597	6,455	1,546	954	592	1,362	837	525
540-543.....	1,254	698	556	1,039	584	455	215	114	101	205	108	97
550-553, 560.....	19,249	7,663	11,586	17,207	6,646	10,561	2,042	1,017	1,025	1,911	939	972
571.....	45,341	29,813	15,528	37,642	24,912	12,730	7,699	4,901	2,798	6,937	4,421	2,516
574-575.....	9,258	3,968	5,290	8,492	3,671	4,821	766	297	469	651	230	421
580-589.....	100,426	52,993	47,433	83,660	44,660	39,000	16,766	8,333	8,433	15,607	7,690	7,917
580-581.....	1,185	600	585	1,004	512	492	181	88	93	160	73	87
582-583, 587.....	6,586	3,306	3,280	5,282	2,654	2,628	1,304	652	652	1,204	588	616

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 9

NUMBER OF RESIDENT DEATHS TABULATED BY
ENTITY AXIS MULTIPLE CAUSE-OF-DEATH, RACE, AND SEX: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	RACE											
	ALL RACES			WHITE			ALL OTHER 1/			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
584-586, 588-589	95,488	50,476	45,012	79,715	42,635	37,080	15,773	7,841	7,932	14,700	7,252	7,448
590.....	7,304	2,934	4,370	6,416	2,520	3,896	888	414	474	826	384	442
600.....	3,798	3,798	-	3,395	3,395	-	403	403	-	374	374	-
630-676.....	389	-	389	231	-	231	158	-	158	141	-	141
630-638.....	78	-	78	40	-	40	38	-	38	34	-	34
640-676.....	326	-	326	201	-	201	125	-	125	110	-	110
740-759.....	18,480	9,968	8,512	15,271	8,243	7,028	3,209	1,725	1,484	2,832	1,532	1,300
760-779.....	29,215	16,533	12,682	20,399	11,677	8,722	8,816	4,856	3,960	8,241	4,567	3,674
767-769.....	10,846	6,377	4,469	7,917	4,727	3,190	2,929	1,650	1,279	2,717	1,528	1,189
760-766, 770-779	28,199	15,937	12,262	19,624	11,223	8,401	8,575	4,714	3,861	8,017	4,433	3,584
780-799.....	355,296	187,248	168,048	307,942	161,302	146,640	47,354	25,946	21,408	43,760	23,854	19,906
RESIDUAL.....	487,504	247,465	240,039	425,472	213,873	211,599	62,032	33,592	28,440	57,111	30,702	26,409
E800-E949.....	163,637	103,284	60,353	142,030	88,644	53,386	21,607	14,640	6,967	18,960	12,805	6,155
E810-E825.....	54,073	39,549	14,524	47,660	34,711	12,949	6,413	4,838	1,575	5,171	3,986	1,185
E800-E807, E826- E949.....	110,080	64,131	45,949	94,818	54,272	40,546	15,262	9,859	5,403	13,851	8,874	4,977
E950-E959.....	27,004	20,604	6,400	24,952	18,992	5,960	2,052	1,612	440	1,617	1,304	313

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 9

NUMBER OF RESIDENT DEATHS TABULATED BY
ENTITY AXIS MULTIPLE CAUSE-OF-DEATH, RACE, AND SEX: UNITED STATES, 1980

(CAUSE CATEGORIES BASED ON 72 CAUSE LIST SUPPLEMENTED BY RELEVANT NATURE OF INJURY CATEGORY GROUPINGS) - CONTINUED

CAUSE OF DEATH	RACE											
	ALL RACES			WHITE			ALL OTHER 1/			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
E960-E978.....	24,455	19,218	5,237	13,682	10,469	3,213	10,773	8,749	2,024	10,331	8,424	1,907
E980-E999.....	3,921	2,812	1,109	2,977	2,104	873	944	708	236	856	643	213
N800-N999.....	210,530	141,134	69,396	176,324	116,111	60,213	34,206	25,023	9,183	30,698	22,555	8,143
N800-N848.....	47,129	25,968	21,161	43,095	23,183	19,912	4,034	2,785	1,249	3,496	2,437	1,059
N850-N854.....	39,382	29,079	10,303	33,771	24,779	8,992	5,611	4,300	1,311	4,812	3,725	1,087
N860-N869.....	30,314	23,359	6,955	24,894	18,959	5,935	5,420	4,400	1,020	4,861	3,998	863
N870-N897.....	38,786	31,887	6,899	28,127	22,920	5,207	10,659	8,967	1,692	10,113	8,545	1,568
N900-N904.....	5,779	4,518	1,261	4,339	3,320	1,019	1,440	1,198	242	1,330	1,114	216
N905-N909.....	3,186	1,632	1,554	2,777	1,346	1,431	409	286	123	367	260	107
N910-N929.....	3,062	2,145	917	2,685	1,877	808	377	268	109	338	240	98
N930-N939.....	11,761	6,991	4,770	9,875	5,807	4,068	1,886	1,184	702	1,705	1,068	637
N940-N949.....	5,941	3,916	2,025	4,465	2,974	1,491	1,476	942	534	1,387	877	510
N950-N957.....	2,355	1,761	594	1,840	1,352	488	515	409	106	475	384	91
N958-N959.....	31,835	22,688	9,147	26,760	18,872	7,888	5,075	3,816	1,259	4,295	3,284	1,011
N960-N995.....	38,419	26,271	12,148	31,100	21,353	9,747	7,319	4,918	2,401	6,529	4,364	2,165
N996-N999.....	24,574	13,824	10,750	21,708	12,208	9,500	2,866	1,616	1,250	2,613	1,452	1,161

1/ INCLUDES BLACK
- QUANTITY = 0

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 10
NUMBER OF RESIDENT DEATHS TABULATED BY
5-YEAR AGE, RACE AND SEX: UNITED STATES, 1980

	RACE											
	ALL RACES			WHITE			ALL OTHER 1/			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
AGE												
ALL AGES.....	1,989,841	1,075,078	914,763	1,738,607	933,878	804,729	251,234	141,200	110,034	233,135	130,138	102,997
UNDER 1 YR...	45,526	25,804	19,722	31,880	18,290	13,590	13,646	7,514	6,132	12,603	6,958	5,645
01-04 YR.....	8,187	4,761	3,426	6,099	3,573	2,526	2,088	1,188	900	1,871	1,069	802
05-09 YR.....	5,075	2,989	2,086	3,898	2,285	1,613	1,177	704	473	1,044	627	417
10-14 YR.....	5,614	3,571	2,043	4,503	2,891	1,612	1,111	680	431	983	613	370
15-19 YR.....	20,733	15,207	5,526	17,530	12,866	4,664	3,203	2,341	862	2,772	2,015	757
20-24 YR.....	28,294	21,696	6,598	22,530	17,391	5,139	5,764	4,305	1,459	5,169	3,854	1,315
25-29 YR.....	25,732	19,037	6,695	19,469	14,618	4,851	6,263	4,419	1,844	5,668	4,020	1,648
30-34 YR.....	24,508	17,003	7,505	18,229	12,685	5,544	6,279	4,318	1,961	5,745	3,993	1,752
35-39 YR.....	25,656	16,822	8,834	19,166	12,559	6,607	6,490	4,263	2,227	5,921	3,906	2,015
40-44 YR.....	32,762	20,790	11,972	24,698	15,785	8,913	8,064	5,005	3,059	7,419	4,615	2,804
45-49 YR.....	49,787	31,469	18,318	38,886	24,816	14,070	10,901	6,653	4,248	10,171	6,219	3,952
50-54 YR.....	83,370	53,003	30,367	67,748	43,490	24,258	15,622	9,513	6,109	14,645	8,937	5,708
55-59 YR.....	126,016	80,075	45,941	105,852	67,809	38,043	20,164	12,266	7,898	18,970	11,498	7,472
60-64 YR.....	166,165	104,187	61,978	142,793	90,363	52,430	23,372	13,824	9,548	22,100	13,036	9,064
65-69 YR.....	216,277	132,459	83,818	188,394	116,502	71,892	27,883	15,957	11,926	26,232	14,904	11,328
70-74 YR.....	250,344	144,912	105,432	221,932	129,502	92,430	28,412	15,410	13,002	26,591	14,191	12,400
75-79 YR.....	263,611	138,208	125,403	236,997	124,611	112,386	26,614	13,597	13,017	24,698	12,377	12,321
80-84 YR.....	253,646	114,557	139,089	233,370	105,008	128,362	20,276	9,549	10,727	18,719	8,669	10,050
85 & OV.....	357,970	128,134	229,836	334,240	118,549	215,691	23,730	9,585	14,145	21,649	8,534	13,115
NOT STATED...	568	394	174	393	285	108	175	109	66	165	103	62

1/ INCLUDES BLACK

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 11

NUMBER OF RESIDENT DEATHS TABULATED BY
STATE OF RESIDENCE, RACE AND SEX: UNITED STATES, 1980

STATE OF RESIDENCE	RACE											
	ALL RACES			WHITE			ALL OTHER 1/			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
UNITED STATES.....	1,989,841	1,075,078	914,763	1,738,607	933,878	804,729	251,234	141,200	110,034	233,135	130,138	102,997
ALABAMA.....	35,542	19,626	15,916	25,117	13,954	11,163	10,425	5,672	4,753	10,407	5,662	4,745
ALASKA.....	1,714	1,174	540	1,154	797	357	560	377	183	47	35	12
ARIZONA.....	21,367	12,399	8,968	19,750	11,407	8,343	1,617	992	625	554	330	224
ARKANSAS.....	22,744	12,743	10,001	18,553	10,483	8,070	4,191	2,260	1,931	4,156	2,244	1,912
CALIFORNIA.....	186,624	99,832	86,792	168,534	89,304	79,230	18,090	10,528	7,562	13,599	7,791	5,808
COLORADO.....	18,956	10,290	8,666	18,232	9,904	8,328	724	386	338	589	320	269
CONNECTICUT.....	27,275	14,229	13,046	25,883	13,428	12,455	1,392	801	591	1,347	777	570
DELAWARE.....	5,044	2,664	2,380	4,222	2,189	2,033	822	475	347	815	471	344
DISTRICT OF COLUMBIA.....	7,108	3,715	3,393	2,170	957	1,213	4,938	2,758	2,180	4,901	2,736	2,165
FLORIDA.....	104,670	59,621	45,049	92,812	52,840	39,972	11,858	6,781	5,077	11,733	6,706	5,027
GEORGIA.....	44,262	24,108	20,154	31,167	17,157	14,010	13,095	6,951	6,144	13,031	6,911	6,120
HAWAII.....	4,981	3,022	1,959	1,609	943	666	3,372	2,079	1,293	36	26	10
IDAHO.....	6,763	3,876	2,887	6,660	3,813	2,847	103	63	40	12	7	5
ILLINOIS.....	102,935	54,816	48,119	88,649	46,715	41,934	14,286	8,101	6,185	13,964	7,901	6,063
INDIANA.....	47,345	25,064	22,281	43,795	23,083	20,712	3,550	1,981	1,569	3,514	1,965	1,549
IOWA.....	27,120	14,481	12,639	26,749	14,261	12,488	371	220	151	336	200	136
KANSAS.....	22,034	11,690	10,344	20,805	11,022	9,783	1,229	668	561	1,149	624	525
KENTUCKY.....	33,796	18,733	15,063	30,999	17,198	13,801	2,797	1,535	1,262	2,779	1,522	1,257
LOUISIANA.....	35,651	19,736	15,915	23,834	13,306	10,528	11,817	6,430	5,387	11,741	6,381	5,360
MAINE.....	10,800	5,723	5,077	10,756	5,699	5,057	44	24	20	11	5	6
MARYLAND.....	34,016	18,212	15,804	26,828	14,073	12,755	7,188	4,139	3,049	7,043	4,052	2,991
MASSACHUSETTS.....	55,070	27,454	27,616	53,404	26,519	26,885	1,666	935	731	1,524	848	676
MICHIGAN.....	75,187	41,076	34,111	65,225	35,322	29,903	9,962	5,754	4,208	9,731	5,623	4,108
MINNESOTA.....	33,366	18,094	15,272	32,800	17,749	15,051	566	345	221	320	188	132

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 11

NUMBER OF RESIDENT DEATHS TABULATED BY
STATE OF RESIDENCE, RACE AND SEX: UNITED STATES, 1980 - CONTINUED

STATE OF RESIDENCE	RACE											
	ALL RACES			WHITE			ALL OTHER 1/			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
MISSISSIPPI.....	23,656	13,170	10,486	14,591	8,158	6,433	9,065	5,012	4,053	9,012	4,981	4,031
MISSOURI.....	49,660	26,284	23,376	44,475	23,478	20,997	5,185	2,806	2,379	5,139	2,777	2,362
MONTANA.....	6,666	3,760	2,906	6,339	3,568	2,771	327	192	135	11	7	4
NEBRASKA.....	14,474	7,697	6,777	14,028	7,441	6,587	446	256	190	358	204	154
NEVADA.....	5,896	3,513	2,383	5,444	3,227	2,217	452	286	166	295	190	105
NEW HAMPSHIRE.....	7,647	3,938	3,709	7,624	3,923	3,701	23	15	8	16	12	4
NEW JERSEY.....	68,943	36,030	32,913	61,542	31,878	29,664	7,401	4,152	3,249	7,229	4,039	3,190
NEW MEXICO.....	9,093	5,393	3,700	8,281	4,873	3,408	812	520	292	140	88	52
NEW YORK.....	172,853	89,388	83,465	151,670	77,683	73,987	21,183	11,705	9,478	19,982	10,913	9,069
NORTH CAROLINA.....	48,440	27,328	21,112	36,202	20,293	15,909	12,238	7,035	5,203	11,848	6,801	5,047
NORTH DAKOTA.....	5,596	3,197	2,399	5,422	3,088	2,334	174	109	65	5	3	2
OHIO.....	98,421	52,360	46,061	88,500	46,761	41,745	9,915	5,599	4,316	9,814	5,536	4,278
OKLAHOMA.....	28,234	15,515	12,719	25,310	13,880	11,430	2,924	1,635	1,289	1,977	1,081	896
OREGON.....	21,798	12,099	9,699	21,260	11,769	9,491	538	330	208	277	172	105
PENNSYLVANIA.....	123,594	65,357	58,237	112,527	59,176	53,351	11,067	6,181	4,886	10,913	6,080	4,833
RHODE ISLAND.....	9,325	4,846	4,479	9,104	4,717	4,387	221	129	92	194	113	81
SOUTH CAROLINA.....	25,154	14,099	11,055	16,791	9,448	7,343	8,363	4,651	3,712	8,348	4,640	3,708
SOUTH DAKOTA.....	6,556	3,670	2,886	6,105	3,408	2,697	451	262	189	8	7	1
TENNESSEE.....	40,774	22,484	18,290	33,476	18,535	14,941	7,298	3,949	3,349	7,272	3,936	3,336
TEXAS.....	108,180	60,237	47,943	93,048	51,670	41,378	15,132	8,567	6,565	14,857	8,410	6,447
UTAH.....	8,120	4,570	3,550	7,939	4,463	3,476	181	107	74	45	28	17
VERMONT.....	4,582	2,426	2,156	4,573	2,422	2,151	9	4	5	5	4	1
VIRGINIA.....	42,506	23,350	19,156	32,882	17,944	14,938	9,624	5,406	4,218	9,518	5,343	4,175
WASHINGTON.....	32,007	17,308	14,699	30,659	16,502	14,157	1,348	806	542	637	392	245
WEST VIRGINIA.....	19,237	10,682	8,555	18,322	10,181	8,141	915	501	414	906	497	409
WISCONSIN.....	40,838	22,127	18,711	39,654	21,452	18,202	1,184	675	509	967	544	423

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 11

NUMBER OF RESIDENT DEATHS TABULATED BY
STATE OF RESIDENCE, RACE AND SEX: UNITED STATES, 1980 - CONTINUED

STATE OF RESIDENCE	RACE											
	ALL RACES			WHITE			ALL OTHER 1/			BLACK		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
WYOMING.....	3,221	1,872	1,349	3,126	1,817	1,309	95	55	40	23	15	8

1/ INCLUDES BLACK

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 12

NUMBER OF DEATHS TABULATED BY
STATE OF OCCURRENCE AND MONTH: UNITED STATES, 1980

(DEATHS BY STATE OF OCCURRENCE INCLUDE FOREIGN RESIDENTS)

STATE OF OCCURRENCE	TOTAL	MONTH OF DEATH											
		JANUARY	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCTOBER	NOV.	DEC.
UNITED STATES.....	1,993,137	176,413	174,011	177,401	160,114	160,326	154,477	163,776	157,643	151,218	163,836	164,221	189,701
ALABAMA.....	35,282	3,051	3,075	3,230	2,787	2,837	2,870	3,221	2,743	2,679	2,829	2,812	3,148
ALASKA.....	1,729	131	115	130	135	170	176	173	156	132	140	123	148
ARIZONA.....	22,058	2,020	1,821	2,012	1,818	1,728	1,675	1,723	1,639	1,650	1,669	1,876	2,427
ARKANSAS.....	22,598	1,959	1,800	2,006	1,907	1,786	1,876	2,125	1,776	1,704	1,882	1,814	1,963
CALIFORNIA.....	187,412	16,743	15,379	15,952	15,227	14,971	14,684	14,955	14,924	14,572	15,212	15,492	19,301
COLORADO.....	19,515	1,748	1,643	1,578	1,608	1,602	1,553	1,509	1,620	1,557	1,632	1,656	1,809
CONNECTICUT.....	27,507	2,358	2,600	2,579	2,111	2,193	2,046	2,114	2,202	2,110	2,223	2,337	2,634
DELAWARE.....	5,228	437	441	471	409	431	419	419	407	397	427	478	492
DISTRICT OF COLUMBIA.....	8,818	784	785	741	738	673	678	729	697	645	741	741	866
FLORIDA.....	106,635	9,981	9,866	10,143	8,798	8,494	7,962	8,409	8,215	7,915	8,310	8,605	9,937
GEORGIA.....	44,890	3,934	3,741	4,084	3,627	3,624	3,532	3,817	3,696	3,408	3,696	3,659	4,072
HAWAII.....	5,204	513	462	446	432	419	427	445	399	424	409	381	447
IDAHO.....	6,440	542	514	553	508	484	553	534	511	522	575	550	594
ILLINOIS.....	100,319	8,851	9,052	8,857	7,900	7,946	7,535	8,372	7,971	7,820	8,407	8,318	9,290
INDIANA.....	47,500	4,313	4,170	4,172	3,742	3,945	3,678	3,966	3,797	3,598	3,944	3,857	4,318
IOWA.....	26,765	2,457	2,379	2,429	2,162	2,223	2,018	2,141	2,030	2,053	2,282	2,223	2,368
KANSAS.....	21,396	1,930	1,974	1,909	1,759	1,707	1,692	1,872	1,612	1,617	1,778	1,678	1,868
KENTUCKY.....	33,500	2,942	2,895	3,008	2,677	2,763	2,576	2,834	2,562	2,482	2,759	2,756	3,246
LOUISIANA.....	36,094	3,105	3,033	2,982	2,945	3,006	2,930	3,077	3,065	2,782	2,905	2,999	3,265
MAINE.....	10,737	995	973	953	857	815	810	888	876	806	924	879	961
MARYLAND.....	33,367	2,798	2,819	3,067	2,670	2,652	2,556	2,713	2,599	2,596	2,685	2,849	3,363
MASSACHUSETTS.....	55,446	4,753	5,188	5,245	4,206	4,263	4,214	4,413	4,233	4,036	4,412	4,607	5,876
MICHIGAN.....	73,992	6,274	6,087	6,723	5,988	6,054	5,836	5,987	6,037	5,892	6,401	6,121	6,592
MINNESOTA.....	34,016	2,987	3,034	3,087	2,703	2,782	2,615	2,850	2,603	2,644	2,914	2,785	3,012
MISSISSIPPI.....	23,095	1,983	1,987	2,024	1,876	1,900	1,789	2,094	1,838	1,737	1,869	1,916	2,082

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 12

NUMBER OF DEATHS TABULATED BY
STATE OF OCCURRENCE AND MONTH: UNITED STATES, 1980

(DEATHS BY STATE OF OCCURRENCE INCLUDE FOREIGN RESIDENTS) - CONTINUED

STATE OF OCCURRENCE	TOTAL	MONTH OF DEATH											
		JANUARY	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCTOBER	NOV.	DEC.
MISSOURI.....	50,503	4,431	4,438	4,363	4,065	4,121	3,782	4,782	3,974	3,774	4,172	4,153	4,448
MONTANA.....	6,580	588	562	528	510	527	520	590	559	562	534	523	577
NEBRASKA.....	14,639	1,367	1,210	1,333	1,193	1,211	1,132	1,200	1,159	1,098	1,197	1,232	1,307
NEVADA.....	6,484	566	513	526	476	538	534	503	507	471	585	647	618
NEW HAMPSHIRE.....	7,519	637	675	704	554	624	595	613	560	578	633	598	748
NEW JERSEY.....	67,098	5,817	6,088	5,979	5,260	5,209	5,152	5,396	5,282	5,003	5,516	5,524	6,872
NEW MEXICO.....	9,027	782	711	781	696	700	717	732	699	730	741	765	973
NEW YORK.....	172,459	15,470	15,369	15,107	13,569	13,702	13,130	13,874	13,558	12,613	14,268	14,376	17,423
NORTH CAROLINA.....	48,887	4,196	4,130	4,388	4,106	3,961	3,784	3,917	4,013	3,682	4,128	4,098	4,484
NORTH DAKOTA.....	5,839	533	465	492	498	498	440	476	437	520	500	468	512
OHIO.....	98,047	8,605	8,788	8,747	7,746	8,021	7,459	7,901	7,721	7,486	8,093	8,120	9,360
OKLAHOMA.....	27,444	2,537	2,337	2,454	2,256	2,273	2,287	2,376	2,159	2,040	2,150	2,209	2,366
OREGON.....	21,778	2,035	2,007	1,834	1,724	1,750	1,689	1,877	1,753	1,614	1,717	1,797	1,981
PENNSYLVANIA.....	123,292	10,678	10,875	11,535	9,809	9,924	9,429	9,762	9,498	9,352	10,100	10,053	12,277
RHODE ISLAND.....	9,559	823	885	872	744	766	724	719	701	739	809	845	932
SOUTH CAROLINA.....	24,357	2,166	2,131	2,128	2,022	2,007	1,843	2,003	1,946	1,824	2,077	1,934	2,276
SOUTH DAKOTA.....	6,408	567	591	557	560	547	507	517	479	515	482	542	544
TENNESSEE.....	43,187	3,735	3,578	3,757	3,532	3,497	3,296	3,946	3,572	3,158	3,515	3,492	4,109
TEXAS.....	110,050	9,864	9,530	9,696	8,933	8,793	9,089	9,123	8,919	8,445	8,861	8,980	9,817
UTAH.....	8,479	775	668	734	735	742	665	645	656	650	684	715	810
VERMONT.....	4,607	411	381	414	331	370	356	397	378	340	402	377	450
VIRGINIA.....	41,831	3,623	3,742	3,817	3,444	3,421	3,179	3,446	3,290	3,093	3,484	3,408	3,884
WASHINGTON.....	32,291	3,081	2,869	2,697	2,681	2,647	2,565	2,584	2,559	2,364	2,712	2,646	2,886
WEST VIRGINIA.....	19,303	1,618	1,708	1,778	1,524	1,571	1,471	1,527	1,532	1,406	1,678	1,651	1,839
WISCONSIN.....	40,843	3,659	3,687	3,560	3,310	3,197	3,162	3,258	3,226	3,123	3,492	3,321	3,848

SEE FOOTNOTES AT END OF TABLE.

MULTIPLE CAUSE OF DEATH PUBLIC USE TAPE
CONTROL TOTAL TABLE 12

NUMBER OF DEATHS TABULATED BY
STATE OF OCCURRENCE AND MONTH: UNITED STATES, 1980

(DEATHS BY STATE OF OCCURRENCE INCLUDE FOREIGN RESIDENTS) - CONTINUED

STATE OF OCCURRENCE	TOTAL	MONTH OF DEATH											
		JANUARY	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCTOBER	NOV.	DEC.
WYOMING.....	3,083	260	240	239	246	241	270	232	298	260	281	235	281

Monthly

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VITAL STATISTICS REPORT



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FROM THE

NATIONAL CENTER FOR HEALTH STATISTICS

Estimates of Selected Comparability Ratios Based on Dual Coding of 1976 Death Certificates by the Eighth and Ninth Revisions of the International Classification of Diseases^a

Introduction

One of the efforts to maintain the tradition of progress in the classification of diseases has been the practice, begun in 1900, to revise about every 10 years what is now the *International Classification of Diseases* (ICD). Each of these revisions has produced some break in the comparability of cause-of-death statistics. The Ninth Revision produced many changes, including shifts of inclusion terms and titles from one category, section, or chapter to another; regroupings of diseases; new titles and sections; and modifications in coding rules. As a result there are serious breaks in comparability for a number of causes of death. Measures of this discontinuity are essential to interpretation of mortality trends. Ratios of comparability between the Eighth and Ninth Revisions have been computed for this purpose. This supplement to the *Monthly Vital Statistics Report* (MVSR) presents comparability ratios for the causes or groups of causes of death for which data are published regularly in the MVSR.

Comparability Ratios

The method followed by the United States for constructing comparability ratios for mortality data is that recommended by the International Conference for the Sixth Revision of the International List of Diseases and Causes of Death, which convened in France in 1948. The Conference recommended that deaths for the country as a whole in 1949 or in 1950 be coded according to the Detailed List of Causes of Death of the Fifth Revision, and that dual tabulations of these data be published in such a way as to indicate the changes resulting from the application of the new revision. The dual coding method to measure discontinuities in mortality data resulting from the introduction of a new revision was used in this study between the Eighth and Ninth Revisions. This makes the fourth time since the recommendation of the International Conference for the Sixth Revision that the United States has used this method.

For this study comparability ratios are based on all deaths in 1976 coded according to the Eighth Revision and a sample of these same 1976 deaths coded according to the Ninth Revision. The denominator of a ratio for any particular cause is the number of deaths in 1976 assigned to that cause in accordance with the Eighth Revision; and the numerator is the estimate of the number of deaths in 1976 assigned to the

^aPrepared by A. Joan Klebba, Statistician, Division of Vital Statistics, and Joyce H. Scott, Medical Codification Specialist, WHO Center for Classification of Diseases for North America.

comparable cause in accordance with the Ninth Revision. The year 1976 was selected because it was the most recent year for which final mortality statistics according to the Eighth Revision were available at the time of this study.

The numerators for these ratios are based on two highly stratified random samples of death certificates from the National Center for Health Statistics' (NCHS) data file. They are based on 137,292 records drawn from the total file for 1976 for the main study of deaths at all ages and on an additional sample of 12,708 records drawn from the 48,265 records of infant deaths for the infant study.

A comparability ratio of 1.00 indicates that the same number of deaths was assigned to a particular cause or combination of causes whether the Eighth or Ninth Revision was used. A ratio showing perfect correspondence (1.00) between the two revisions does not necessarily indicate that the cause was unaffected by changes in classification and coding procedures because the changes may compensate for each other.

Usually a ratio of less than 1.00 results from one of two situations: (1) a decrease in assignments of deaths to a cause in the Ninth Revision compared with the Eighth, resulting, for example, from the transfer of inclusion terms, or (2) the cause as described by the Ninth Revision is only a part of the Eighth Revision title with which it is compared.

Most frequently a ratio of more than 1.00 results from an increase in assignments of deaths to a cause in the Ninth Revision compared with the comparable Eighth Revision cause, or from the fact that the Ninth Revision title is broader than the Eighth Revision title with which it is compared.

One of the major objectives of the comparability study is to furnish ratios that will measure the degree of discontinuity between data tabulated by the cause lists published under the Ninth Revision and data tabulated by the most nearly comparable cause lists published under the Eighth Revision.

In this brief advance report of the findings of the comparability study, ratios are presented for the lists that are used for the provisional mortality statistics based on a 10-percent sample of deaths reported monthly. These data appear

in the *Monthly Vital Statistics Report* (MVSR) and in the annual summary of these provisional statistics. The list of selected causes for which provisional data are published in the MVSR has been expanded from the 38 causes published monthly and the 70 causes published annually under the Eighth Revision, to 72 causes under the Ninth Revision for both the monthly and annual issues. The list of selected causes of infant death was expanded from 8 to 10 causes for both the monthly and annual issues. Comparisons are made between the following lists:

<i>Ninth Revision</i>	<i>Eighth Revision</i>
1. List of 72 Selected Causes of Death for the monthly and annual issues of the <i>Monthly Vital Statistics Report</i>	1. List of 70 Selected Causes of Death for the annual issue of the <i>Monthly Vital Statistics Report</i>
2. List of 10 Selected Causes of Infant Death for the monthly and annual issues of the <i>Monthly Vital Statistics Report</i>	2. List of 8 Selected Causes of Infant Death for the monthly and annual issues of the <i>Monthly Vital Statistics Report</i>

Ninth Revision data for the List of 72 Selected Causes of Death, Eighth Revision data for the corresponding categories in the List of 70 Selected Causes of Death, and comparability ratios between the two revisions are shown in tables A and 1. Similarly, data and comparability ratios for the Ninth Revision List of 10 Selected Causes of Infant Death and the Eighth Revision List of 8 Selected Causes of Infant Death are shown in tables B and 2.

More detailed studies are planned in which ratios for the Ninth Revision List of 282 Causes of Death will be presented for the total population and for each of the four color-sex groups. Studies in preparation will also present ratios for the List of 72 Selected Causes of Death by sex, color, and age (10-year age groups) and for the List of 61 Selected Causes of Infant Death by color.

Major Features and Changes in the Classification

In the Ninth Revision, as in the Eighth Revision, the Classification is arranged in 17

MONTHLY VITAL STATISTICS REPORT

Table A. COMPARABLE CATEGORY NUMBERS FOR 72 SELECTED CAUSES OF DEATH ACCORDING TO THE NINTH AND EIGHTH REVISIONS, AND SIZE OF SAMPLE FOR SELECTED CAUSES BY THE EIGHTH REVISION: UNITED STATES

[Eighth Revision category numbers are from the List of 70 Selected Causes of Death used during 1968-78 for the Annual Summary]

Cause of death according to the Ninth Revision of the International Classification of Diseases, 1975	Category numbers according to the Ninth Revision (1)	Category numbers according to the Eighth Revision (2)	Number of deaths in 1976 (final count), by the Eighth Revision ¹ (3)	Number of deaths in 1976 in the sample ¹ (4)
All causes.....	...	...	1,909,440	137,292
Shigellosis and amebiasis.....	004,006	004,006	55	55
Certain other intestinal infections.....	007-009	008,009	1,939	643
Tuberculosis.....	010-018	010-019	3,130	1,322
Tuberculosis of respiratory system.....	010-012	010-012	2,419	688
Other tuberculosis.....	013-018	013-019	711	634
Whooping cough.....	033	033	7	7
Streptococcal sore throat, scarlatina, and erysipelas.....	034-035	034	14	14
Meningococcal infection.....	036	036	330	330
Septicemia.....	038	038	6,401	874
Acute poliomyelitis.....	045	040-043	16	16
Measles.....	055	055	12	12
Viral hepatitis.....	070	070	567	365
Syphilis.....	090-097	090-097	225	225
All other infectious and parasitic diseases.....	001-003,005,020-032, 037,039-041,046 054, 056-066,071-088,098- 139	Remainder of 000-136	3,857	2,053
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues.....	140-208	140-209	377,312	28,103
Malignant neoplasms of lip, oral cavity, and pharynx.....	140-149	140-149	8,114	2,050
Malignant neoplasms of digestive organs and peritoneum.....	150-159	150-159	101,729	9,575
Malignant neoplasms of respiratory and intrathoracic organs.....	160-165	160-163	91,131	2,172
Malignant neoplasm of breast.....	174-175	174	33,403	679
Malignant neoplasms of genital organs.....	179-187	180-187	44,461	2,483
Malignant neoplasms of urinary organs.....	188-189	188,189	16,980	1,590
Malignant neoplasms of all other and unspecified sites.....	170-173,190-199	170-173,190-199	45,975	4,241
Leukemia.....	204-208	204-207	15,056	2,404
Other malignant neoplasms of lymphatic and hematopoietic tissues.....	200-203	200-203,208,209	20,463	2,909
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature.....	210-239	210-239	4,719	2,056
Diabetes mellitus.....	250	250	34,508	1,009
Nutritional deficiencies.....	260-269	260-269	2,619	675
Anemias.....	280-285	280-285	3,182	1,689
Meningitis.....	320-322	320	1,589	607
Major cardiovascular diseases.....	390-448	390-448	974,429	30,433
Diseases of heart.....	390-398,402,404-429	390-398,402,404, 410-429	723,878	15,455
Rheumatic fever and rheumatic heart disease.....	390-398	390-398	13,110	2,544
Hypertensive heart disease.....	402	402	6,670	915
Hypertensive heart and renal disease.....	404	404	4,020	745
Ischemic heart disease.....	410-414	410-413	646,073	7,228
Acute myocardial infarction.....	410	410	319,477	2,041
Other acute and subacute forms of ischemic heart disease.....	411	411	4,028	962
Angina pectoris.....	413	413	186	186
Old myocardial infarction and other forms of chronic ischemic heart disease.....	412,414	412	322,382	4,039
Other diseases of endocardium.....	424	424,428	4,195	1,352
All other forms of heart disease.....	415-423,425-429	420-423,425-427,429	49,810	2,671
Hypertension with or without renal disease.....	401,403	400,401,403	6,130	1,825
Cerebrovascular diseases.....	430-438	430-438	188,623	9,838
Intracerebral and other intracranial hemorrhage.....	431-432	431	24,845	1,837
Cerebral thrombosis and unspecified occlusion of cerebral arteries.....	434,0,434.9	433	44,803	1,729
Cerebral embolism.....	434.1	434	826	419
All other and late effects of cerebrovascular diseases.....	430,433,435-438	430,432,435-438	118,149	5,853
Atherosclerosis.....	440	440	29,366	946
Other diseases of arteries, arterioles, and capillaries.....	441-448	441-448	26,432	2,369
Acute bronchitis and bronchiolitis.....	466	466	854	420
Pneumonia and influenza.....	480-487	470-474,480-486	61,866	4,377
Pneumonia.....	480-486	480-486	53,989	3,664
Influenza.....	487	470-474	7,877	713
Chronic obstructive pulmonary diseases and allied conditions.....	490-496	490-493	24,410	2,444
Bronchitis, chronic and unspecified.....	490-491	490-491	4,639	971
Emphysema.....	492	492	17,796	843
Asthma.....	493	493	1,975	630
Other chronic obstructive pulmonary diseases and allied conditions.....	494-496	...	2...	2...
Ulcer of stomach and duodenum.....	531-533	531-533	6,428	1,689
Appendicitis.....	540-543	540-543	752	442
Hernia of abdominal cavity and intestinal obstruction without mention of hernia.....	550-553,560	550-553,560	5,919	796
Chronic liver disease and cirrhosis.....	571	571	31,453	2,639
Cholelithiasis and other disorders of gallbladder.....	574-575	574,575	2,956	677
Nephritis, nephrotic syndrome, and nephrosis.....	580-589	580-584	8,541	1,788
Acute glomerulonephritis and nephrotic syndrome.....	580-581	580,581	1,759	890
Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified.....	582-583,587	582-584	6,782	898
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause.....	584-586,588-589	582-584	6,782	898
Infections of kidney.....	590	590	4,017	743
Hyperplasia of prostate.....	600	600	1,077	339

See footnotes at end of table.

MONTHLY VITAL STATISTICS REPORT

Table A. COMPARABLE CATEGORY NUMBERS FOR 72 SELECTED CAUSES OF DEATH ACCORDING TO THE NINTH AND EIGHTH REVISIONS, AND SIZE OF SAMPLE FOR SELECTED CAUSES BY THE EIGHTH REVISION: UNITED STATES—Con.

[Eighth Revision category numbers are from the List of 70 Selected Causes of Death used during 1968-78 for the Annual Summary]

Cause of death according to the Ninth Revision of the International Classification of Diseases, 1975	Category numbers according to the Ninth Revision (1)	Category numbers according to the Eighth Revision (2)	Numbers of deaths in 1976 (final count), by the Eighth Revision ¹ (3)	Number of deaths in 1976 in the sample ¹ (4)
Complications of pregnancy, childbirth, and the puerperium.....	630-676	630-678	390	390
Pregnancy with abortive outcome.....	630-638	640-646	16	16
Other complications of pregnancy, childbirth and the puerperium.....	640-676	630-639,650-678	374	374
Congenital anomalies.....	740-759	740-768	13,002	3,057
Certain conditions originating in the perinatal period.....	760-779	760-769, 774-778, 774-778	24,809	1,015
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome.....	767-769	764-768, 772, 776	13,432	---
Other conditions originating in the perinatal period.....	760-766, 770-779	Remainder of 760-778	11,377	---
Symptoms, signs, and ill-defined conditions.....	780-799	780-796	30,802	1,558
All other diseases.....	Residual	Residual	125,340	21,635
Accidents and adverse effects.....	E800-E949	E800-E949	100,761	15,922
Motor vehicle accidents.....	E810-E825	E810-E823	47,038	5,002
All other accidents and adverse effects.....	E800-E807, E828-E949	E800-E807, E825-E949	53,723	10,920
Suicide.....	E950-E959	E950-E959	26,832	3,229
Homicide and legal intervention.....	E960-E978	E960-E978	19,554	2,764
All other external causes.....	E980-E999	E980-E999	4,766	880

¹Inasmuch as it was necessary to use more than once some of the Eighth Revision titles in the List of 70 Selected Causes of Death for the Annual Summary as the most nearly comparable titles for the Ninth Revision List of 72 Selected Causes, the figures in this column do not add up to the total.

²Chronic obstructive lung disease without mention of asthma, bronchitis, or emphysema (No. *519.3), introduced by NCHS to be used with the Eighth Revision, is comparable to Other chronic obstructive pulmonary diseases and allied conditions (ICD Nos. 494-496) of the Ninth Revision. The comparability ratio for this set of titles is 1.0054, with a standard error of 0.0118, a relative error of 1.2 percent, and 95 percent confidence limits of 1.0285 and 0.9823. These data are not shown in this table because there are no sample data for *519.3.

Table B. COMPARABLE CATEGORY NUMBERS FOR THE LIST OF 10 SELECTED CAUSES OF INFANT DEATH FOR THE MONTHLY VITAL STATISTICS REPORT, AND TOTAL NUMBER OF DEATHS IN 1976 AND SIZE OF SAMPLE FOR COMPARABLE CAUSES ACCORDING TO THE EIGHTH REVISION: UNITED STATES

[Eighth Revision category numbers are from the List of 8 Selected Causes of Infant Death used during 1968-78 for the Monthly Vital Statistics Report]

Cause of death according to the Ninth Revision of the International Classification of Diseases, 1975	Category numbers according to the Ninth Revision (1)	Category numbers according to the Eighth Revision (2)	Number of deaths in 1976 (final count), by the Eighth Revision (3)	Number of deaths in 1976 in the sample (4)
All causes.....	---	---	48,265	12,708
Certain gastrointestinal diseases.....	008-009, 535, 555-558	004, 008-009, 535, 561, 563	761	374
Pneumonia and influenza.....	480-487	470-474, 480-486	1,961	446
Congenital anomalies.....	740-759	740-759	8,345	2,799
Disorders relating to short gestation and unspecified low birthweight.....	765	777	3,977	466
Birth trauma.....	767	764-768(0-.3), 772	1,813	452
Intrauterine hypoxia and birth asphyxia.....	768	776.9	3,599	458
Respiratory distress syndrome.....	769	---	---	---
Other conditions originating in the perinatal period.....	760-764, 766, 770-779	Remainder of 760-778	15,378	3,464
Sudden infant death syndrome.....	798.0	---	---	---
All other causes.....	Residual	Residual	12,431	4,249

main sections or chapters. The first chapter deals with diseases caused by well-defined infectious and parasitic agents. The next two chapters deal with categories for Neoplasms and for Endocrine, nutritional and metabolic diseases and immunity disorders. Most of the remaining chapters are arranged according to the principal anatomical sites of diseases with special chapters for Mental disorders; Complications of pregnancy, childbirth, and the puerperium; Congenital anomalies; Certain conditions originating in the perinatal period; and a chapter for Symptoms, signs, and ill-defined conditions.

The last chapter (XVII), Injury and poisoning, represents a decided departure from the corresponding chapter in previous revisions. The role of the E code for external causes was changed. In the Sixth, Seventh, and Eighth Revisions, chapter XVII—Accidents, poisonings, and violence—consisted of two alternative classifications, one according to the nature of the injury (the N code), and the other according to the external cause (the E code). In the Ninth Revision, chapter XVII consists only of titles for nature of injury as part of the main classification. The N prefix that was used before the category numbers for these titles in the Eighth Revision has been dropped. In the Ninth Revision the E code is a supplementary classification. For underlying cause of death, where both an E code and another code are applicable, the E code is still used when the other code is from chapter XVII. When the other code is from chapters I-XVI that code and not the E code is used.

In the Ninth Revision there are two codes for certain diagnostic terms that convey information about both a localized manifestation or complication and a more generalized underlying disease process. The traditional etiology code relating to the underlying disease is marked with a dagger (†), and the code relating to the manifestation or complication is marked with an asterisk (*). Tuberculous meningitis, for example, has its dagger code (ICD No. 013.0†) in the chapter for infectious and parasitic diseases and its asterisk code (ICD No. 320.4*) in the chapter for the nervous system and sense organs. Only the dagger codes are used for coding underlying cause of death.

Following are some of the major changes between the Eighth and Ninth Revisions, appli-

able to underlying cause coding in the United States, including those that are most pertinent to the causes shown in the MVS. They are arranged according to the chapters in the Ninth Revision of the ICD.

I. Infectious and parasitic diseases.—Under the Ninth Revision, colitis, diarrhea, enteritis, and gastroenteritis, without further specification, are assumed to be of noninfectious origin and are classified to chapter IX, Diseases of the digestive system. In the Eighth Revision, unless stated to be noninfectious or due to a noninfectious condition, they were assumed to be of infectious origin and were coded to chapter I, Infective and parasitic diseases. This change transferred deaths that were assigned by the Eighth Revision to Diarrheal diseases (ICDA No. 009) to the Ninth Revision title Other noninfective gastroenteritis and colitis (ICD No. 558), accounting in great part for the low comparability ratio for Certain other intestinal infections (ICD Nos. 007-009).

A section pulling together all late effects of infectious and parasitic diseases was added to chapter I in the Ninth Revision. In the Eighth Revision a few conditions had special late effects codes; for certain other conditions late effects were coded to the resulting chronic condition; for the remaining conditions in chapter I, late effects were coded to the regular code for the infectious or parasitic disease.

The ratios in this report reflect the fact that the code span for tuberculosis included late effects under the Eighth Revision but not under the Ninth; pleural effusion was assumed to be tuberculous under the Eighth Revision but not under the Ninth; and erysipelas was combined with streptococcal sore throat and scarlatina in the List of 72 Causes of Death for the Ninth Revision but was excluded from the most nearly comparable Eighth Revision cause. Thus, the comparability ratio for Tuberculosis (ICD Nos. 010-018) is less than 1.0, and the ratio for Streptococcal sore throat, scarlatina, and erysipelas (ICD Nos. 034-035) is greater than 1.0.

The ratios for Whooping cough, Acute poliomyelitis, and Measles are based on very small numbers of deaths. Also, it appears that in the Eighth Revision a few deaths that should have

been attributed to late effects of poliomyelitis may have been classified to active poliomyelitis.

In the Eighth Revision, deaths from serum hepatitis went to the condition being treated, if known. Otherwise they were assigned to an E code, usually to Complications and misadventures in other and unspecified therapeutic procedures in infusion and transfusion (ICDA No. E931.2). Under the Ninth Revision, because serum hepatitis does not have a code in chapter XVII, deaths attributed to this cause are assigned to Viral hepatitis B without mention of hepatic coma (ICD No. 070.3) increasing the ratio for ICD No. 070.

Deaths from Septicemia (ICDA No. 038) that occurred among the newborn were transferred in the Ninth Revision from chapter I to chapter XV—Certain conditions originating in the perinatal period or, more specifically, to Other infection specific to the perinatal period (ICD No. 771.8).

II. *Neoplasms*.—A new section, Neoplasms of uncertain behavior (ICD Nos. 235-238), has been added to this chapter. Among the conditions transferred to this new section are some of the conditions under the Eighth Revision title Polycythemia vera (ICDA No. 208) and Myelofibrosis (ICDA No. 209), raising the comparability ratio for Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature (ICD No. 210-239).

III. *Endocrine, nutritional and metabolic diseases and immunity disorders*.—A new title—Disorders of fluid, electrolyte and acid-base balance (ICD No. 276)—has been added to this chapter. Most of these conditions were previously assigned to chapter XVI, Symptoms and ill-defined conditions, but were not coded as the underlying cause of death because conditions in this chapter were not coded if another codable condition was entered on the certificate. Consequently, the overall effect of locating this new title in chapter III is to increase the number of deaths assigned to this chapter and to decrease by a smaller number those assigned to chapter XVI.

The low comparability ratio for Nutritional deficiencies (ICD Nos. 260-269) is largely attributable to the transfer of Sprue and steatorrhea and Malabsorption syndrome, unspecified, from

ICDA Nos. 269.0 and 269.1 to ICD No. 579; transfer of cachexia, NOS, from ICDA No. 268 to ICD No. 799.4; and a change in handling a number of trivial conditions that result in acceptance of conditions from other parts of the classification, e.g., mental conditions as the underlying cause.

VII. *Diseases of the circulatory system*.—In the Eighth Revision, mitral and aortic incompetence, insufficiency, regurgitation, and stenosis were assumed to be rheumatic unless stated to be nonrheumatic or due to another condition that would cause a valvular heart disease. According to the Ninth Revision the conditions described by these terms are assumed to be nonrheumatic unless specified as rheumatic or due to a rheumatic heart disease, with one exception—mitral stenosis. The condition described by this term is assumed, as for the Eighth Revision, to be rheumatic.

This change in assumptions resulted in the transfer to Other diseases of endocardium (ICD No. 424) of an estimated 4,015 of the 13,110 deaths in 1976 from Rheumatic fever and rheumatic heart disease (ICDA Nos. 390-398). This transfer accounts in great part for the low comparability ratio for Rheumatic fever and rheumatic heart disease (ICD Nos. 390-398).

In the Ninth Revision there is no separate category for malignant hypertension. The new fourth digits for Hypertensive disease (ICD Nos. 401-404) indicate whether the hypertensive disease was specified as malignant, benign, or not specified as malignant or benign. The Eighth Revision fourth digits denoting the presence of hypertension in ischemic heart and cerebrovascular diseases no longer exist, making it impossible to show hypertension with these conditions for underlying cause tabulations.

Deaths assigned to Hypertension with or without renal disease (ICD Nos. 401, 403) increased under the Ninth Revision as a result of the rule that combines hypertension with cardiovascular diseases only when it is stated that the cardiovascular disease is due to hypertension. The Eighth Revision rule provided for a combination code if there was mention of hypertension anywhere on the record.

According to the Ninth Revision, Cardiovascular disease, unspecified (ICD No. 429.2) has

been separated from Ischemic heart disease (ICD Nos. 410-414). This separation accounts in great part for the increase in deaths assigned to All other forms of heart disease (ICD Nos. 415-423, 425-429), from 49,810 to 124,701 deaths, resulting in a very large comparability ratio. At the same time this separation accounts for a large part of the reduction in chronic ischemic heart disease, for which the title in the Ninth Revision is Old myocardial infarction and other forms of chronic ischemic heart disease (ICD Nos. 412, 414).

The transfer by the Ninth Revision to Hypertensive heart disease (ICD No. 402) of deaths that were assigned to the subtitle Cardiovascular disease without mention of chronic ischemic heart disease with hypertensive disease (*412.2) (introduced by NCHS for use during 1968-78) also accounts for a sizable part of the reduction in Ischemic heart disease (ICD Nos. 410-414).

Diseases of pulmonary circulation have been brought together in a new group—Diseases of pulmonary circulation (ICD Nos. 415-417). These pulmonary diseases have been separated from those in the group title Diseases of veins and lymphatics, and other diseases of circulatory system (ICD Nos. 451-459).

The Ninth Revision transferred Heart failure, unspecified (ICD No. 428.9) to this chapter—Diseases of the circulatory system—from the Eighth Revision chapter XVI, Symptoms and ill-defined conditions (ICDA Nos. 780-796), where it appeared as Acute heart failure, undefined (ICDA No. 782.4). Although this transfer resulted in increasing deaths assigned to circulatory diseases, there was not a compensating decrease in the deaths assigned to chapter XVI, because under the Eighth Revision, conditions assigned to this chapter were not coded as the underlying cause if another codable condition was reported.

VIII. *Diseases of the respiratory system.*—New titles have been added for respiratory conditions including Pneumonitis due to solids and liquids (ICD No. 507); and Chronic airways obstruction, not elsewhere classified (ICD No. 496). Most of the deaths assigned by the new Ninth Revision title Pneumonitis due to solids and liquids (ICD No. 507) were transferred from the Eighth Re-

vision title Pneumonia, unspecified (ICDA No. 486), more particularly from aspiration pneumonia, which was an inclusion term under ICDA No. 486. This transfer had the effect of reducing the number of deaths assigned to the pneumonias.

The deaths assigned by the Eighth Revision to Chronic obstructive lung disease without mention of asthma, bronchitis, or emphysema (*519.3), a subtitle first introduced by NCHS for deaths occurring in 1969, have been transferred to the new Ninth Revision title Chronic airways obstruction, not elsewhere classified (ICD No. 496).

There was a change in the linkage provision that affects the coding of diseases of the respiratory system. In the Eighth Revision, asthma linked with bronchitis and emphysema. The Ninth Revision does not provide this linkage, with the result of an increase in assignments of deaths to asthma, and a corresponding decrease in assignments to bronchitis and emphysema.

The Ninth Revision title Bronchiectasis (ICD No. 494) has been placed in the section Chronic obstructive pulmonary disease and allied conditions (ICD Nos. 490-496). According to the Eighth Revision Bronchiectasis (ICDA No. 518) was a title included in the group Other diseases of respiratory system (ICDA Nos. 510-519). This change resulted in the transfer of an estimated 93.7 percent (685) of the deaths to ICD Nos. 494-495 that were formerly assigned to ICDA No. 518.

IX. *Diseases of the digestive system.*—The instruction in the Eighth Revision was to code ulcer, site unspecified, and peptic ulcer, site unspecified, reported due to, with, or causing gastrointestinal hemorrhage to gastrointestinal ulcer which was an inclusion term under ICDA No. 534. This instruction was changed for the Ninth Revision to provide that these conditions be coded to Peptic ulcer (ICD No. 533). This accounted in great part for a comparability ratio greater than 1.0 for Ulcer of stomach and duodenum (ICD Nos. 531-533).

The comparability ratio of less than 1.0 for Hernia of abdominal cavity and intestinal obstruction without mention of hernia (ICD Nos. 550-553, 560) resulted primarily from the transfer of congenital diaphragmatic hernia from Diaphragmatic (ICDA No. 551.3), a subtitle under

Other hernia of abdominal cavity without mention of obstruction (ICDA No. 551) to Anomalies of diaphragm (ICD No. 756.6).

The increase in the number of deaths assigned by the Ninth Revision to Cholelithiasis and other disorders of gallbladder (ICD Nos. 574-575) resulted from the transfer to this cause of deaths that were assigned by the Eighth Revision to Other diseases of gallbladder and biliary ducts (ICDA No. 576).

X. *Diseases of the genitourinary system.*—The low comparability ratio for Acute glomerulonephritis and nephrotic syndrome (ICD Nos. 580-581) resulted primarily from the transfer of acute renal failure from Acute nephritis (ICDA No. 580) to the new Ninth Revision title Acute renal failure (ICD No. 584).

The low comparability ratio for Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified (ICD Nos. 582-583, 587) is attributable to the transfer of chronic renal failure from Chronic nephritis (ICDA No. 582) to the new Ninth Revision title Chronic renal failure (ICD No. 585).

The large increase in the number of deaths assigned by the Ninth Revision to Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause (ICD Nos. 584-586, 588-589) results in part from the above described transfers by the Ninth Revision to ICD Nos. 584 and 585; and to the following three additional transfers: (1) Renal failure, NOS, from Other renal disease (ICDA No. 593.2) to the new Ninth Revision title Renal failure, unspecified (ICD No. 586); (2) Uremia (ICDA No. 792) to the new title Chronic renal failure (ICD No. 585), and to Renal failure, unspecified (ICD No. 586); and (3) Acute tubular nephrosis (ICDA No. 593.1) to the new Ninth Revision title Acute renal failure, with lesion of tubular necrosis (ICD No. 584.5).

XI. *Complications of pregnancy, childbirth, and the puerperium.*—The most nearly comparable Eighth Revision title to the Ninth Revision title Pregnancy with abortive outcome (ICD Nos. 630-638) is Abortions (ICDA Nos. 640-645). The large comparability ratio for this set of titles (3.8125) results in large part from the fact that

Ectopic pregnancy (ICDA No. 631) has been transferred from Complications of pregnancy (ICDA Nos. 630-634) to Pregnancy with abortive outcome (ICD Nos. 630-638).

XV. *Certain conditions originating in the perinatal period.*—This chapter was extensively revised, including the change in title. In the Eighth Revision the comparable title was Certain causes of perinatal morbidity and mortality. Conditions that were classifiable to other chapters according to the Eighth Revision are now included in this chapter if they arise during the perinatal period.

Some of the conditions that were previously classified by the Eighth Revision to Anoxic and hypoxic conditions not elsewhere classifiable (ICDA No. 776) were transferred by the Ninth Revision to Other respiratory conditions of newborn (ICD No. 770).

The title Birth trauma (ICD No. 767) of the Ninth Revision does not include all types of intracranial hemorrhage. The exclusion of intraventricular and subarachnoid hemorrhage from this category reduced the number of deaths assigned by the Ninth Revision to Birth trauma.

These changes account for the low comparability ratio (0.7483) between the Ninth Revision title Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome (ICD Nos. 767-769) and the Eighth Revision title Birth injury, difficult labor, and other anoxic and hypoxic conditions (ICDA Nos. 764-768, 772, 776).

XVI. *Symptoms, signs, and ill-defined conditions.*—The comparability ratio of less than 1.0 for this chapter results from the transfer of inclusion terms to chapters I-XV. Some of the most important of these transfers were the following: Acute heart failure, undefined (ICDA No. 782.4) to Heart failure, unspecified (ICD No. 428.9); Uremia (ICDA No. 792) to Chronic renal failure (ICD No. 585) and to Renal failure, unspecified (ICD No. 586); Electrolyte disorders (ICDA No. *788.0) to Disorders of fluid, electrolyte and acid-base balance (ICD No. 276) and to Late metabolic acidosis of newborn (ICD No. 775.7); Encephalopathy (ICDA No. 781.7) to Encephalopathy, unspecified (ICD No. 348.3); Pylorospasm (ICDA No. 784.2) to Other (ICD No. 537.8) under Other disorders of stomach

and duodenum; Hematemesis (ICDA No. 784.5) to Hematemesis (ICD No. 578.0); Melena (not of newborn) (ICDA No. 785.7) to Melena (ICD No. 578.1); Hematuria (ICDA No. 789.3) to Hematuria (ICD No. 599.7); and Depression (ICDA No. 790.2) to Depressive disorder, not elsewhere classified (ICD No. 311).

Precision of Estimates

In tables 1 and 2 are shown the estimated comparability ratios and their standard errors and relative standard errors. The figures in columns 6 and 7 of tables 1 and 2 are pairs of positive numbers such that the probability that the true value of the comparability ratio is included in the interval defined by them is 95 percent.

Some Specific Examples

Pneumonia and Influenza.—The estimated number of infant deaths assigned to the subcategories in the Ninth Revision under Pneumonia and influenza (ICD Nos. 480-487) together with the number of infant deaths assigned to the subcategories of Influenza and pneumonia in the Eighth Revision (ICDA Nos. 470-474, 480-486) are shown below:

The comparability ratio of 0.7471 (obtained by dividing 1,465 by 1,961) results in great part from a decrease in assignments of deaths to each of the five subcategories under Pneumonia (ICD Nos. 480-486) compared with the corresponding assignments in the Eighth Revision.

Among the deaths transferred out of these subcategories were those attributed to Congenital pneumonia (to ICD No. 770.0) and to aspiration pneumonia (to ICD No. 507.0). Also, there were 208 infant deaths assigned by the Eighth Revision to Acute interstitial pneumonia (ICDA No. 484). An estimated 42 of these deaths went to Pneumocystosis (ICD No. 136.3), or to some other infectious disease when pneumonia complicated the disease (ICD Nos. 001-136). An estimated 158 deaths were classified to the subtitle Other (ICD No. 516.8) under the title Other alveolar and parietoalveolar pneumopathy (ICD No. 516). Interstitial pneumonia unspecified as to whether acute or chronic was classified to Acute interstitial pneumonia (ICDA No. 484) under the Eighth Revision and to the subtitle Other (ICD No. 516.8) under the Ninth Revision.

Hypertensive heart disease.—When the Ninth Revision List of 72 Selected Causes of Death is compared with the Eighth Revision List of 70 Selected Causes of Death for the Annual Sum-

Ninth Revision title	Eighth Revision		Ninth Revision	
	Category number	Number of deaths	Category number	Estimated number of deaths
Total.....	---	1,961	---	1,465
Pneumonia.....	480-486	1,928	480-486	1,392
Viral pneumonia.....	480	193	480	172
Pneumococcal and other bacterial pneumonia.....	481,482	152	481-482	123
*Pneumonia in infectious diseases classified elsewhere.....	484	208	*484	
Bronchopneumonia, organism unspecified.....	485	475	485	374
Pneumonia due to other and unspecified organism.....	483,486	900	483,486	723
Influenza.....	470-474	33	487	27

¹The subtotals do not add up to 1,465 because in addition to the 1,419 deaths from Influenza and pneumonia (ICDA Nos. 470-474, 480-486) of the Eighth Revision that were assigned by the Ninth Revision to the comparable cause Pneumonia and influenza (ICD Nos. 480-487), there were also 46 deaths from other causes assigned to Pneumonia and influenza (ICD Nos. 480-487).

Codes marked with an asterisk () are not appropriate according to the Ninth Revision for underlying cause-of-death classification.

mary, the comparability ratio for Hypertensive heart disease (ICD No. 402) is 3.3022. This ratio is obtained by dividing 22,026, the number of deaths classified by the Ninth Revision to Hypertensive heart disease (ICD No. 402), by 6,670, the number of deaths classified by the Eighth Revision to Hypertensive heart disease (ICDA No. 402).

This large comparability ratio reflects important changes between the Eighth and Ninth Revisions in rules for selecting the underlying cause of death. It is only when the Ninth Revision List of 282 Selected Causes of Death is compared with the corresponding Eighth Revision List that the Eighth Revision cause most nearly comparable to Hypertensive heart disease (ICD No. 402) is identified. As shown below, the comparability ratio for Hypertensive heart disease (ICD No. 402) is 1.0275. This ratio is obtained by dividing 22,026, the estimated number of 1976 deaths classified by the Ninth Revision to this cause, by 21,437, the number classified to the most nearly comparable Eighth Revision cause, Cardiovascular disease without mention of chronic ischemic heart disease with hypertensive disease (*412.2).

The subcategory *412.2 was introduced by NCHS for data year 1968 together with the following three additional titles:

Chronic ischemic heart disease with or without cardiovascular disease with hypertensive disease *412.1

Chronic ischemic heart disease with or without cardiovascular disease without mention of hypertensive disease *412.3

Cardiovascular disease without mention of chronic ischemic heart disease without mention of hypertensive disease *412.4

These special four-digit subcategories permitted separation of deaths due to "cardiovascular disease without mention of chronic ischemic heart disease" from those involving "chronic ischemic heart disease with or without mention of cardiovascular disease." As indicated in the above table, many of the records that were previously classified to *412.2 are classified by the Ninth Revision to Hypertensive heart disease (ICD No. 402).

Eighth Revision		Ninth Revision	
Cause of death (1)	Number of deaths in 1976 (2)	Estimated number of deaths in column (2) that went to Hypertensive heart disease (ICD No. 402) (3)	Estimated number of deaths in column (2) that went to other causes (4)
All causes.....000-E999	1,909,440	22,026	1,887,414
Hypertensive heart disease.....402	6,670	4,321	2,349
Cardiovascular disease without mention of chronic ischemic heart disease with hypertensive disease.....*412.2	21,437	17,000	4,437
Other causes.....Residual	1,881,333	705	1,880,628

Table 1. COMPARABILITY RATIOS FOR 72 SELECTED CAUSES: BASED ON A STRATIFIED RANDOM SAMPLE OF 1976 DEATHS ASSIGNED ACCORDING TO THE NINTH REVISION AND ON ALL DEATHS ASSIGNED ACCORDING TO THE EIGHTH REVISION OF THE INTERNATIONAL CLASSIFICATION OF DISEASES: UNITED STATES

[Denominators of ratios were selected from the List of 70 Selected Causes of Death used during 1968-78 for the Annual Summary]

Cause of death (Ninth Revision of the International Classification of Diseases, 1975)	Number of deaths assigned according to—		Estimated comparability ratio ²	Error of the estimate of the ratio in (3)		95 percent confidence limits ³	
	Ninth Revision (estimated from sample)	Eighth Revision (total count) ¹		Standard error	Relative standard error	Upper	Lower
	(1)	(2)						(3)	(4)	(5)	(6)	(7)
All causes.....	1,909,440	1,909,440	...	...	...	...	...
Shigellosis and amebiasis.....004-006	54	55	0.9818	0.0378	3.9	1.0659	0.9077
Certain other intestinal infections.....007-009	353	1,939	0.1821	0.0207	11.4	0.2227	0.1415
Tuberculosis.....010-018	2,400	3,130	0.7668	0.0119	1.6	0.7901	0.7435
Tuberculosis of respiratory system.....010-012	2,039	2,419	0.8429	0.0146	1.7	0.8715	0.8143
Other tuberculosis.....013-018	361	711	0.5077	0.0167	3.3	0.5404	0.4750
Whooping cough.....033	6	7	0.8571	0.0000	0.0	0.8571	0.8571
Streptococcal sore throat, scarlatina, and erysipelas.....034-036	20	14	1.4286	0.0000	0.0	1.4286	1.4286
Meningococcal infection.....036	323	330	0.9788	0.0124	1.3	1.0030	0.9546
Septicemia.....038	5,441	6,401	0.8500	0.0180	2.1	0.8853	0.8147
Acute poliomyelitis.....045	8	16	0.5000	0.0000	0.0	0.5000	0.5000
Measles.....065	11	12	0.9167	0.0000	0.0	0.9167	0.9167
Viral hepatitis.....070	793	567	1.3986	0.0820	5.9	1.5693	1.2379
Syphilis.....090-097	227	225	1.0089	0.0259	2.6	1.0596	0.9582
All other infectious and parasitic diseases.....001-003,005,020-032,037,039-041,046-054,056-066,071-088,098-139	3,981	3,857	1.0321	0.0634	6.1	1.1563	0.9079
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues.....140-208	378,289	377,312	1.0026	0.0017	0.2	1.0059	0.9993
Malignant neoplasms of lip, oral cavity, and pharynx.....140-149	8,209	8,114	1.0117	0.0087	0.9	1.0286	0.9948
Malignant neoplasms of digestive organs and peritoneum.....150-159	105,081	101,729	1.0330	0.0035	0.3	1.0398	1.0262
Malignant neoplasms of respiratory and intrathoracic organs.....160-165	91,191	91,131	1.0007	0.0033	0.3	1.0071	0.9943
Malignant neoplasm of breast.....174-175	33,701	33,403	1.0089	0.0022	0.2	1.0131	1.0047
Malignant neoplasms of genital organs.....179-187	44,953	44,461	1.0111	0.0031	0.3	1.0171	1.0051
Malignant neoplasms of urinary organs.....188-189	16,851	16,980	0.9924	0.0045	0.5	1.0011	0.9837
Malignant neoplasms of all other and unspecified sites.....170-173,190-199	43,938	45,975	0.9557	0.0082	0.9	0.9718	0.9396
Leukemia.....204-208	15,161	15,056	1.0070	0.0056	0.6	1.0180	0.9960
Other malignant neoplasms of lymphatic and hematopoietic tissues.....200-203	19,205	20,463	0.9385	0.0069	0.7	0.9519	0.9251
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature.....210-239	5,703	4,719	1.2085	0.0261	2.2	1.2595	1.1575
Diabetes mellitus.....250	34,478	34,508	0.9991	0.0087	0.9	1.0162	0.9820
Nutritional deficiencies.....260-269	1,877	2,619	0.7167	0.0262	3.7	0.7680	0.6654
Anemias.....280-285	2,958	3,182	0.9296	0.0124	1.3	0.9538	0.9054
Meningitis.....320-322	1,603	1,589	0.9459	0.0163	1.7	0.9777	0.9141
Major cardiovascular diseases.....390-448	981,184	974,429	1.0069	0.0004	0.0	1.0076	1.0062
Diseases of heart.....390-398,402,404-429	732,989	723,878	1.0126	0.0039	0.4	1.0202	1.0050
Rheumatic fever and rheumatic heart disease.....390-398	8,715	13,110	0.6648	0.0080	1.2	0.6804	0.6492
Hypertensive heart disease.....402	22,026	6,670	3.3022	0.0557	1.7	3.4114	3.1930
Hypertensive heart and renal disease.....404	4,872	4,020	1.2119	0.0438	3.6	1.2978	1.1260
Ischemic heart disease.....410-414	567,520	646,073	0.8784	0.0038	0.4	0.8859	0.8709
Acute myocardial infarction.....410	319,552	319,477	1.0003	0.0054	0.5	1.0108	0.9898
Other acute and subacute forms of ischemic heart disease.....411	4,924	4,028	1.2224	0.0661	5.4	1.3519	1.0929
Angina pectoris.....413	195	186	1.0484	0.0666	6.4	1.1789	0.9179
Old myocardial infarction and other forms of chronic ischemic heart disease.....412,414	242,839	322,382	0.7533	0.0055	0.7	0.7640	0.7426
Other diseases of endocardium.....424	5,154	4,195	1.2286	0.0227	1.8	1.2731	1.1841
All other forms of heart disease.....415-423,425-429	124,701	49,810	2.5035	0.0257	1.0	2.5539	2.4531
Hypertension with or without renal disease.....401,403	7,787	6,130	1.2703	0.0294	2.3	1.3280	1.2126
Cerebrovascular diseases.....430-438	189,553	188,623	1.0049	0.0066	0.7	1.0178	0.9920
Intracerebral and other intracranial hemorrhage.....431-432	24,769	24,845	0.9969	0.0068	0.7	1.0102	0.9836
Cerebral thrombosis and unspecified occlusion of cerebral arteries.....434,0,434,9	46,328	44,803	1.0340	0.0222	2.1	1.0774	0.9906
Cerebral embolism.....434.1	926	826	1.1211	0.0924	8.2	1.3022	0.9400
All other and late effects of cerebrovascular diseases.....430,433,435-438	117,530	118,149	0.9948	0.0061	0.6	1.0067	0.9829
Atherosclerosis.....440	31,273	29,366	1.0648	0.0246	2.3	1.1130	1.0168
Other diseases of arteries, arterioles, and capillaries.....441-448	19,583	26,432	0.7409	0.0098	1.3	0.7600	0.7218
Acute bronchitis and bronchiolitis.....466	769	854	0.8888	0.0274	3.1	0.9425	0.8351
Pneumonia and influenza.....480-487	57,315	61,866	0.9264	0.0067	0.7	0.9394	0.9134
Pneumonia.....480-486	49,663	53,989	0.9199	0.0076	0.8	0.9347	0.9051
Influenza.....487	7,652	7,877	0.9714	0.0078	0.8	0.9866	0.9562
Chronic obstructive pulmonary diseases and allied conditions.....480-486	46,002	24,410	1.8846	0.0150	0.8	1.9141	1.8551
Bronchitis, chronic and unspecified.....480-481	4,363	4,639	0.9383	0.0134	1.4	0.9646	0.9120
Emphysema.....482	17,387	17,796	0.9770	0.0127	1.3	1.0018	0.9522
Asthma.....483	2,675	1,975	1.3544	0.0636	4.7	1.4790	1.2298
Other chronic obstructive pulmonary diseases and allied conditions.....484-486	21,588	...	...	...	...	...	...
Ulcer of stomach and duodenum.....531-533	7,194	6,428	1.1192	0.0247	2.2	1.1675	1.0709
Appendicitis.....540-543	758	752	1.0080	0.0264	2.6	1.0597	0.9663
Hernia of abdominal cavity and intestinal obstruction without mention of hernia.....550-553,560	5,583	5,919	0.9432	0.0168	1.8	0.9762	0.9102

See footnotes at end of table.

MONTHLY VITAL STATISTICS REPORT

Table 1. COMPARABILITY RATIOS FOR 72 SELECTED CAUSES; BASED ON A STRATIFIED RANDOM SAMPLE OF 1976 DEATHS ASSIGNED ACCORDING TO THE NINTH REVISION AND ON ALL DEATHS ASSIGNED ACCORDING TO THE EIGHTH REVISION OF THE INTERNATIONAL CLASSIFICATION OF DISEASES: UNITED STATES—Con.

[Denominators of ratios were selected from the List of 70 Selected Causes of Death used during 1968-78 for the Annual Summary]

Cause of death (Ninth Revision of the International Classification of Diseases, 1975)	Number of deaths assigned according to—		Estimated comparability ratio ²	Error of the estimate of the ratio in (3)		95 percent confidence limits ³	
	Ninth Revision (estimated from sample)	Eighth Revision (total count) ¹		Standard error	Relative standard error	Upper	Lower
Chronic liver disease and cirrhosis.....571	31,799	31,453	1.0110	0.0069	0.7	1.0245	0.9975
Cholelithiasis and other disorders of gallbladder.....574-575	3,102	2,956	1.0494	0.0445	4.2	1.1366	0.9622
Nephritis, nephrotic syndrome, and nephrosis.....580-589	14,859	8,541	1.7397	0.0777	4.5	1.8920	1.5874
Acute glomerulonephritis and nephrotic syndrome.....580-581	426	1,759	0.2422	0.0185	7.6	0.2783	0.2061
Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified.....582-583,587	3,360	6,782	0.4954	0.0195	3.9	0.5335	0.4573
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause.....584-586,588-589	11,073	6,782	1.6327	0.0958	5.9	1.8205	1.4449
Infections of kidney.....590	3,968	4,017	0.9878	0.0091	0.9	1.0056	0.9700
Hyperplasia of prostate.....600	1,102	1,077	1.0232	0.0226	2.2	1.0674	0.9790
Complications of pregnancy, childbirth, and the puerperium.....630-676	429	390	1.1000	0.0435	4.0	1.1853	1.0147
Pregnancy with abortive outcome.....630-638	61	16	3.8125	0.0000	0.0	3.8125	3.8125
Other complications of pregnancy, childbirth, and the puerperium.....640-676	368	374	0.9840	0.0454	4.6	1.0729	0.8951
Congenital anomalies.....740-759	12,981	13,002	0.9984	0.0100	1.0	1.0179	0.9789
Certain conditions originating in the perinatal period.....760-779	26,706	24,809	1.0765	0.0238	2.2	1.1230	1.0300
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome.....767-769	10,061	13,432	0.7483	0.0306	4.1	0.8083	0.6883
Other conditions originating in the perinatal period.....760-766,770-779	16,655	11,377	1.4639	0.0371	2.5	1.5367	1.3911
Symptoms, signs, and ill-defined conditions.....780-799	28,037	30,802	0.9102	0.0121	1.3	0.9338	0.8866
All other diseases.....Residual	97,585	125,340	0.7785	0.0082	1.1	0.7947	0.7625
Accidents and adverse effects.....E800-E949	100,454	100,761	0.9970	0.0030	0.3	1.0029	0.9911
Motor vehicle accidents.....E810-E825	47,587	47,038	1.0117	0.0027	0.3	1.0169	1.0066
All other accidents and adverse effects.....E800-E807,E826-E949	52,867	53,723	0.9841	0.0051	0.5	0.9941	0.9741
Suicide.....E950-E959	26,919	26,832	1.0032	0.0042	0.4	1.0114	0.9950
Homicide and legal intervention.....E960-E978	19,666	19,554	1.0067	0.0030	0.3	1.0115	0.9999
All other external causes.....E980-E999	4,611	4,766	0.9675	0.0144	1.5	0.9957	0.9393

¹ Figures in this column are number of deaths in 1976 assigned to the categories in the Eighth Revision, selected as the most nearly comparable to the Ninth Revision categories, as shown in Table A.
² Ratio of deaths assigned according to the Ninth Revision to deaths assigned according to the Eighth Revision.
³ The probability is 95 percent that the true comparability ratio will have a value between the upper and lower limits shown. These limits were computed before the standard error was rounded to the fourth decimal.
⁴ Chronic obstructive lung disease without mention of asthma, bronchitis, or emphysema (No.*519.3), introduced by NCHS to be used with the Eighth Revision, is comparable to Other chronic obstructive pulmonary diseases and allied conditions (ICD Nos. 494-496) of the Ninth Revision. The comparability ratio for this set of titles is 1.0054, with a standard error of 0.0118, a relative error of 1.2 percent, and 95 percent confidence limits of 1.0285 and 0.9823. These data are not shown in this table because there are no sample data for *519.3.

Table 2. COMPARABILITY RATIOS FOR 10 SELECTED CAUSES OF INFANT DEATHS FOR THE MONTHLY VITAL STATISTICS REPORT; BASED ON A STRATIFIED RANDOM SAMPLE OF 1976 INFANT DEATHS ASSIGNED ACCORDING TO THE NINTH REVISION AND ON ALL INFANT DEATHS ASSIGNED ACCORDING TO THE EIGHTH REVISION: UNITED STATES

[Denominators of ratios were selected from the List of 8 Selected Causes of Infant Death used during 1968-78 for the Monthly Vital Statistics Report]

Cause of death (Ninth Revision of the International Classification of Diseases, 1975)	Number of deaths assigned according to—		Estimated comparability ratio ²	Error of the estimate of the ratio in (3)		95 percent confidence limits ³	
	Ninth Revision (estimated from sample)	Eighth Revision (total count) ¹		Standard error	Relative standard error	Upper	Lower
All causes.....	48,265	48,265	1.0000	...	...	...	..
Certain gastrointestinal diseases.....008-009,535,555-558	356	761	0.4678	0.0228	4.9	0.5125	0.4231
Pneumonia and influenza.....480-487	1,465	1,961	0.7471	0.0200	2.7	0.7862	0.7078
Congenital anomalies.....740-759	8,404	8,345	1.0071	0.0062	0.6	1.0191	0.9949
Disorders relating to short gestation and unspecified low birthweight.....765	3,830	3,977	0.9630	0.0107	1.1	0.9839	0.9421
Birth trauma.....767	1,297	1,813	0.7154	0.0337	4.7	0.7813	0.6493
Intrauterine hypoxia and birth asphyxia.....768	1,177	3,599	0.3270	0.0212	6.5	0.3684	0.2856
Respiratory distress syndrome.....769	7,560	...	...	...	...	...	...
Other conditions originating in the perinatal period.....760-764,766,770-779	13,059	15,378	0.8492	0.0098	1.1	0.8683	0.8301
Sudden infant death syndrome.....798.0	4,334	...	...	...	...	...	...
All other causes.....Residual	6,781	12,431	0.5456	0.0061	1.1	0.5573	0.5335

¹ Figures in this column are number of infant deaths in 1976 assigned to the categories in the Eighth Revision, selected as the most nearly comparable to the Ninth Revision categories, as shown in Table B.
² Ratio of deaths assigned according to the Ninth Revision to deaths assigned according to the Eighth Revision.
³ The probability is 95 percent that the true comparability ratio will have a value between the upper and lower limits shown. These limits were computed before the standard error was rounded to the fourth decimal.

APPENDIX

BRIEF SUMMARY OF STATISTICAL DESIGN

General Plan for Deaths at All Ages

In this study the total number of deaths in 1976 (1,909,440) is divided into 13,680 cause-age-color-sex-specific strata, with 285 causes or groups of causes of death classified according to the Eighth Revision. A total of 137,292 deaths in 1,140 random samples was drawn, corresponding to the four color-sex groups for each of the 285 causes of death classified according to the Eighth Revision. Then each of these 1,140 random samples was divided into the 12 age groups used in this study (under 1 year, 1-4, 5-14, 15-24, 25-34, 35-44, 45-54, 55-64, 65-74, 75-84, 85 years and over, and not stated). Thus, by the theorem that states that a simple random sample of a population contains a simple random sample of any subset of the population,¹ this division by age gives as the total number of strata in the study 1,140 multiplied by 12, or 13,680.

This total number of strata is designated by L , the total number of deaths in 1976 by N , and the number of deaths in the general or $kmbi$ th stratum by N_{kmbi} . The subscripts $kmbi$ refer to the following general terms: k for the general term for the 285 causes of death, m for the sexes, b for the color groups, and i for the age groups. Therefore,

$$N = \sum_k^{285} \sum_m^2 \sum_b^2 \sum_i^{12} N_{kmbi} \\ = N_1 + N_2 + \dots + N_{kmbi} \dots + N_L. \quad (1)$$

Similarly, the strata according to the Ninth Revision are designated by L' ; and the number of deaths in the general or $k'm'b'i'$ th stratum, by $N'_{k'm'b'i'}$. Thus according to the Ninth Revision,

the total number of deaths in 1976 may be represented as follows:

$$N' = \sum_{k'}^{282} \sum_{m'}^2 \sum_{b'}^2 \sum_{i'}^{12} N'_{k'm'b'i'} \\ = N'_1 + N'_2 + \dots + N'_{k'm'b'i'} \dots + N'_L. \quad (2)$$

Let the number in the stratum according to the Ninth Revision to which the $kmbi$ th stratum according to the Eighth Revision is most nearly comparable be designated by $N'_{k'm'b'i'}$. Then the equation for the comparability ratio (designated by R_{kmbi}) that is to be estimated is:

$$R_{kmbi} = \frac{N'_{k'm'b'i'}}{N_{kmbi}}. \quad (3)$$

Let the estimate of R_{kmbi} be denoted by $r_{k'm'b'i'}$; and the estimate of $N'_{k'm'b'i'}$ be denoted by $x'_{k'm'b'i'}$. Inasmuch as N_{kmbi} is known, the problem of obtaining an estimate of R_{kmbi} reduces to the problem of obtaining an estimate of $N'_{k'm'b'i'}$. This estimate $r_{k'm'b'i'}$, may be defined as follows:

$$r_{k'm'b'i'} = \frac{x'_{k'm'b'i'}}{N_{kmbi}}. \quad (4)$$

As noted above to obtain the estimate $x'_{k'm'b'i'}$, L random subsamples were drawn from the L strata into which the total number of deaths in 1976 were divided according to classification by the Eighth Revision. These L random subsamples were then classified according to the Ninth Revision.

The size of the random subsample drawn from the $kmbi$ th stratum of N is denoted by n_{kmbi} ; and the size of the stratified random sample drawn from all deaths in 1976, classified according to the Eighth Revision is:

$$n = \sum_k^{285} \sum_m^2 \sum_b^2 \sum_i^{12} n_{kmbi}. \quad (5)$$

¹Hansen, Morris H., Hurwitz, William N., and Madow, William G.: *Sample Survey Methods and Theory*, Vol. II, Chap. 4. New York. John Wiley & Sons, Inc., 1957. p. 106.

The total of this n in the study for all ages is 137,292 deaths.

The number of deaths in the stratum according to the Ninth Revision to which the $kmbith$ stratum of the stratified random sample n , according to the Eighth Revision, is most nearly comparable, is designated by $n'_{k'm'b'i'}$; and the total number of deaths at all ages drawn in the stratified random sample, classified according to the Ninth Revision, is designated by n' . Thus, n' may be represented as follows:

$$n' = \sum_{k'}^{282} \sum_{m'}^2 \sum_{b'}^2 \sum_{i'}^{12} n'_{k'm'b'i'}; \quad (6)$$

where L' designates the strata in the sample according to the Ninth Revision.

Estimator of the numerator.—Inasmuch as the denominators of these comparability ratios (defined in equation (3)) are the total counts of deaths in the stratum in 1976 according to the Eighth Revision, the only values estimated from the stratified random sample (n) are, as stated above, the numerators—the numbers of deaths that would be assigned to each of the strata if all deaths in 1976 were classified by the Ninth Revision. The estimator of these numerators is represented as follows:

$$x'_{k'm'b'i'} = \frac{N_{kmbi} x_{kmbi}}{n_{kmbi}} + \sum_{j \neq k}^J \frac{N_{jmbi} x_{jmbi}}{n_{jmbi}}, \quad (7)$$

where x_{kmbi} is the number of deaths in the $kmbith$ stratum of the sample—the stratum according to the Eighth Revision selected as most nearly comparable to the $k'm'b'i'$ th stratum of the Ninth Revision, and where x_{jmbi} represents the number of deaths in any except the $kmbith$ stratum of the stratified random sample that were coded to the $k'm'b'i'$ th stratum by the Ninth Revision. The total number of strata other than the $kmbith$ that contained deaths that were assigned to the $k'm'b'i'$ th stratum by the Ninth Revision is represented by J .

In equation (7),

$$x_{kmbi} = \sum_{h=1}^{n_{kmbi}} x_{kmbih},$$

where x_{kmbih} takes on the value 1 if the death it represents was assigned by the Ninth Revision to stratum $N'_{k'm'b'i'}$; and takes on the value 0 if the death it represents was not assigned to stratum $N'_{k'm'b'i'}$.

Similarly, in equation (7),

$$x_{jmbi} = \sum_{h=1}^{n_{jmbi}} x_{jmbih},$$

where x_{jmbih} takes on the value 1 if the death it represents was assigned to stratum $N'_{k'm'b'i'}$; and takes on the value 0 if the death it represents was not assigned to stratum $N'_{k'm'b'i'}$.

Variance of the numerator.—The variance of $x'_{k'm'b'i'}$, the estimated total of deaths that are coded by the Ninth Revision to the category numbers comprising $N'_{k'm'b'i'}$, is:

$$\sigma^2_{x'_{k'm'b'i'}} = N^2_{kmbi} (1 - f_{kmbi}) \frac{S^2_{kmbi}}{n_{kmbi}} + \sum_{j \neq k}^J N^2_{jmbi} (1 - f_{jmbi}) \frac{S^2_{jmbi}}{n_{jmbi}}. \quad (8)$$

where f_{kmbi} is the sampling fraction (n_{kmbi}/N_{kmbi}), and f_{jmbi} is the sampling fraction (n_{jmbi}/N_{jmbi}). For a variate, such as in this study, that takes on only the value 0 or 1,

$$S^2_{kmbi} = (N_{kmbi} P_{kmbi} Q_{kmbi}) / (N_{kmbi} - 1), \quad (9)$$

where P_{kmbi} is the proportion of deaths in N_{kmbi} that would take on the value 1, that is, that would be assigned to $N'_{k'm'b'i'}$, if coded by the Ninth Revision, and where $Q_{kmbi} = 1 - P_{kmbi}$. The sample variance for stratum $kmbi$ may be expressed as follows:

$$s^2_{kmbi} = (n_{kmbi} p_{kmbi} q_{kmbi}) / (n_{kmbi} - 1). \quad (10)$$

Similarly, the sample variance for the general term among all the strata in the stratified random sample that include deaths assigned to

stratum $k'm'b'i'$ by the Ninth Revision may be written:

$$s_{jmbi}^2 = (n_{jmbi}p_{jmbi}q_{jmbi})/(n_{jmbi} - 1). \quad (11)$$

Substituting the right-hand members of equations (10) and (11) for S_{kmbi}^2 and S_{jmbi}^2 , respectively, in equation (8) gives the following as the estimate from the sample of $x'_{k'm'b'i'}$:

$$s_{x'_{k'm'b'i'}}^2 = \frac{N_{kmbi}(N_{kmbi} - n_{kmbi})}{n_{kmbi} - 1} (p_{kmbi}q_{kmbi}) + \sum_{j \neq k}^J \frac{N_{jmbi}(N_{jmbi} - n_{jmbi})}{n_{jmbi} - 1} (p_{jmbi}q_{jmbi}). \quad (12)$$

Inasmuch as $p_{kmbi} = (x_{kmbi}/n_{kmbi})$; $q_{kmbi} = 1 - p_{kmbi}$; $p_{jmbi} = (x_{jmbi}/n_{jmbi})$; and $q_{jmbi} = 1 - p_{jmbi}$, we have

$$s_{x'_{k'm'b'i'}}^2 = \frac{N_{kmbi}(N_{kmbi} - n_{kmbi})}{n_{kmbi}} \left(\frac{x_{kmbi}}{n_{kmbi} - 1} - \frac{x_{kmbi}^2}{n_{kmbi}(n_{kmbi} - 1)} \right) + \sum_{j \neq k}^J \frac{N_{jmbi}(N_{jmbi} - n_{jmbi})}{n_{jmbi}} \left(\frac{x_{jmbi}}{n_{jmbi} - 1} - \frac{x_{jmbi}^2}{n_{jmbi}(n_{jmbi} - 1)} \right) \quad (13)$$

Standard error of the estimate of the ratio.—Inasmuch as the variance of a constant times a random variable is the constant squared times the variance of the random variable, it follows that

$$s_{r_{k'm'b'i'}}^2 = \left(\frac{1}{N_{kmbi}} \right)^2 s_{x'_{k'm'b'i'}}^2. \quad (14)$$

Taking the square root of equation (14) gives the estimated standard error of $r_{k'm'b'i'}$, denoted $s_{r_{k'm'b'i'}}$:

$$s_{r_{k'm'b'i'}} = \left(\frac{1}{N_{kmbi}} \right) \left(s_{x'_{k'm'b'i'}}^2 \right)^{1/2} = s_{x'_{k'm'b'i'}} \left(\frac{1}{N_{kmbi}} \right). \quad (15)$$

Confidence interval for the ratio.—Once the standard error of the estimate of the comparability ratio (denoted $s_{r_{k'm'b'i'}}$) is known, confidence intervals for R_{kmbi} , the true value of the comparability ratio as defined in equation (3) may be computed. The required degree of confidence that a range will cover the true value of R_{kmbi} has been specified for this study to be 95 percent.

Employing the usual notation in the table for the normal distribution² it may be stated that for given percentage p (equal to 5 percent in the present study) the $p\%$ value λ_p of the normal distribution is defined by the condition:

$$\text{Probability } (|r_{k'm'b'i'} - R_{kmbi}| > \lambda_p s_{r_{k'm'b'i'}}) = \frac{p}{100}. \quad (16)$$

With the 5-percent value λ_p of the normal distribution equal to 1.9600 this gives:

$$r_{k'm'b'i'} - 1.9600 s_{r_{k'm'b'i'}} < R_{kmbi} < r_{k'm'b'i'} + 1.9600 s_{r_{k'm'b'i'}}.$$

To illustrate, let

$$r_{k'm'b'i'} = 1.1852;$$

and

$$s_{r_{k'm'b'i'}} = 0.0406.$$

²Cramer, Harald: *Mathematical Methods of Statistics*, table 2. Princeton, N.J. Princeton University Press, 1966. p. 558.

This gives the relation:

$$(\tau_{k'm'b'i'} - 1.9600 s_{\tau_{k'm'b'i'}})$$

$$< R_{kmbi} < (\tau_{k'm'b'i'} + 1.9600 s_{\tau_{k'm'b'i'}});$$

or $1.1056 < R_{kmbi} < 1.2648$.

Thus, we have two positive numbers (1.1056, 1.2648) such that the probability that the true value of R_{kmbi} is included in the interval defined by them is 95 percent.

Comparability ratios for Ninth Revision List of 282 Selected Causes of Death and for List of 72 Selected Causes of Death.—Since we have simple random sampling within each stratum and all strata have been independently selected except the age groups for each of the four color-sex groups and the age groups for the total population, we may assume that the expected value of the sum of any group of strata is equal to the sum of the expected values of the individual terms, where the value of the individual term is represented by $x'_{k'm'b'i'}$.

Moreover, two theorems make it possible to put together the expected value of the variance of these sums by summing up the expected values of the variance of the individual terms. The first of these theorems is that the variance of the sum of independently selected samples is the sum of their variances; and the second theorem is that if a random variable is multiplied by a constant, the variance of the product is the constant squared multiplied by the variance of the variable.

For the total population, for any cause of death or group of causes, the estimate and the variance of the estimate of the numerator of the ratio was obtained by adding the estimates and variances of the estimates of the numerators of the ratios for the cause or group of causes for each of the four color-sex groups. In turn, for each of the four color-sex groups the estimate and the variance of the estimate of the numerator of the ratio was obtained as if "stratification by age after sampling" had not been introduced in the design.

The variances and estimates for the total population, or for each of the four color-sex groups were not obtainable by summing the variances and estimates for the 12 age groups; because the random samples for these 12 age groups into which each of the color-sex groups was divided were not independently selected samples.

For each of the 12 age groups in the total population, however, for each cause or group of causes, the estimate and variance of the estimate of the numerator of the ratio was obtained by summing the estimates and the variances for the four color-sex groups into which the age group was divided. This was possible because the four random samples by color and sex that made up the age group were independently selected samples.

For the total population and for any sub-population the variance of the estimate of the numerator of the ratio for any subgroup of causes of death is equal to the sum of the variances of the component causes. These additive properties of component causes of death classified by the Eighth Revision to a particular Ninth Revision cause have been taken into account in the design and make it possible to estimate comparability ratios and the variances of these estimates, not only for the Ninth Revision *List of 282 Selected Causes of Death* but also for any shorter list of causes into which the 282 list is capable of being compressed. To keep the study within the constraints of time and resources, however, the plan of the study for deaths at all ages provides for computing comparability ratios only for the following: Ninth Revision *List of 282 Causes of Death* (by color and sex) and the *List of 72 Causes of Death* (by age, color, and sex). It should be emphasized, however, that comparability ratios for a number of shorter lists, including a list of 10 leading causes of death, may be obtained directly from the list of comparability ratios for the longer lists, with the only additional computation needed being that for the residuals.

General Plan for Infant Deaths

The plan for infant deaths, with 12,708 deaths in the sample is analogous to that for deaths at all ages. For infant deaths, however, there are only 134 color-cause-specific strata in the stratified random sample compared with 13,680 strata in the stratified random sample for deaths at all ages.

In 1976 there were 48,265 deaths at ages

under 1 year. Of these, 12,708 were drawn in the 134 color-cause-specific strata.

The plan of the study for infant deaths provides for computing estimates of comparability ratios, together with estimates of their standard errors, for the Ninth Revision *List of 61 Selected Causes of Infant Death* (by color) and for the *List of 10 Selected Causes of Infant Death* for the *Monthly Vital Statistics Report*.

1980 Addendum to "Technical Appendix" of Vital Statistics of the United States, 1978, Volume II, Mortality, Part A

To assist the users of the mortality public-use tapes, attached is a copy of the Technical Appendix of Vital Statistics of the United States, 1978, Volume II, Mortality, Part A. This technical appendix provides certain qualifications of the data that are essential to using, analyzing, and interpreting the data on these tapes. Certain modifications to the attached Technical Appendix are essential to make it applicable to the mortality file for the 1980 data year. Those modifications, which will appear in the printed version of the 1980 Technical Appendix, include the following:

1. Vital Statistics Cooperative Program. In 1980, 45 States and New York City furnished demographic data on computer tape and 15 of these States also furnish cause-of-death data on computer tape through the Vital Statistics Cooperative Program (VSCP). The following States were added to the VSCP in 1979 and 1980.

<u>State-coded demographic data</u>		<u>State-coded medical data</u>	
<u>1979</u>	<u>1980</u>	<u>1980</u>	
Connecticut	Arkansas	Colorado	Mississippi
Hawaii	New Mexico	Kansas	New Hampshire
Mississippi	South Dakota	Massachusetts	Pennsylvania
New Jersey		Minnesota	South Carolina
Pennsylvania			
Wyoming			

2. Cause of death. Effective with the 1979 data year, causes of death are classified by the Ninth Revision, International Classification of Diseases. Principal features of this classification are described in the enclosed publication "Estimates of Selected Comparability Ratios Based on Dual Coding of 1976 Death Certificates by the Eighth and Ninth Revisions of the International Classification of Diseases," Monthly Vital Statistics Report, Vol. 28, No. 11, Supplement, February 29, 1980.
3. New items. The public use tapes also include data on new items not described in the 1978 Technical Appendix. These include (1) Marital status, (2) State or country of birth, and (3) Place of death and status of decedent when death occurred in a hospital or medical center. A discussion of these items follows:

Marital status

Mortality statistics by marital status became available for 1979 for the first time since 1961. Previously they were published in the annual reports for the years 1949-51 and 1959-61. Several reports specifically analyzing mortality by marital status have been published including the special study based on 1959-61 data, "Mortality from Selected Causes by Marital Status: United States," Vital and Health Statistics, Series 20, Nos. 8a and 8b.

Mortality statistics by marital status are tabulated separately for the following categories: Never married; Ever married; Married; Widowed; Divorced. Ever married includes the categories married, widowed, and divorced. Certificates in which the marriage was specified as being annulled are classified as Never married. Where marital status was specified as Separated or Common Law marriage, it was classified as Married. Of the 1,924,871 resident deaths 15 years and over, 9,261 (0.5 percent) certificates had marital status not stated.

State or Country of Birth

Mortality statistics by State of birth became available for 1979 for the first time since 1950. The place of birth of a decedent is assigned to one of 50 States or the District of Columbia; to one of the territorial possessions of Puerto Rico, Guam or the Virgin Islands; to one of the countries of Canada, Cuba, Mexico, or to the Remainder of the World as specified on the death certificate. Deaths for which information on State of birth was unknown, not stated, or not classifiable accounted for a small proportion of all deaths in 1980, about 0.6 percent.

Early mortality reports published by the Bureau of the Census contained tables showing nativity of parents as well as nativity of decedent. The publication of these tables was discontinued in 1933. Mortality data showing nativity of decedent were again published in annual reports for 1939 to 1941, and for 1950, when comparable population figures were available.

Place of death and status of decedent when death occurred in hospital or medical center

Mortality statistics by place of death became available in 1979 for the first time since 1958. Mortality data were also available for the first time in 1979 for the status of decedent when death occurred in a hospital or medical center. These data were obtained from the following two items that appear on the U.S. Standard Certificate of Death:

Item 7c) Hospital or other institution--name (if not in either, give street and number)

Item 7d) If hospital or institution, indicate DOA, Op/Emer. Room, inpatient (specify)

All of the States and the District of Columbia have item 7c (or its equivalent) on the death certificate. For 44 of the States in the Vital Statistics Cooperative Program (VSCP), NCHS accepts the State definition, classification, or codes for hospitals, medical centers or other institutions. For New Mexico and for the 5 States and the District of Columbia not in the VSCP, NCHS classifies and codes to a hospital or medical center according to whether the terms "hospital", "clinic", or "medical center" are entered as part of the name in item 7c or its equivalent. If the terms "hospital", "clinic", or "medical center" are not entered as part of the name, then the entry is coded appropriately to one of the following: (1) other institutions providing patient care, (2) dead on arrival--hospital, clinic, medical center name not given, (3) all other reported entries, or (4) unknown, not stated.

Table 1-28 shows mortality data for the status of the decedent when death occurred in a hospital or medical center. The data are shown for the following 40 States that have item 7d or its equivalent on their death certificates:

Alaska	New Hampshire
Arizona	New Jersey
Arkansas	New Mexico
Colorado	New York
Florida	North Carolina
Georgia	North Dakota
Hawaii	Ohio
Idaho	Oregon
Illinois	Pennsylvania
Indiana	Rhode Island
Iowa	South Carolina
Kansas	South Dakota
Kentucky	Tennessee
Maine	Utah
Michigan	Vermont
Mississippi	Virginia
Missouri	Washington
Montana	West Virginia
Nebraska	Wisconsin
Nevada	Wyoming

Population bases for computing rates

The populations used for computing rates (furnished by the U.S. Bureau of the Census) represent the population residing in the specified area. The population estimates for 1980 are based on the April 1, 1980 census enumeration. The figures by race in the 1980 census are affected by changes in the practice of reporting race, particularly on the part of the Hispanic population, and in coding and classifying racial groups in the 1980 census. One particular change has created a major inconsistency between the 1980 census data and historical data series. About 40 percent of the Hispanic population counted in 1980, or over 5.8 million persons, did not mark one of the specified races listed on the census questionnaire but marked the "other" category instead. In the 1980 census a modification was made in the coding procedures in the treatment of persons who marked "other" race and wrote in a national origin designation of a Latin American country or a specific Hispanic origin group in response to the race question. These persons remained in the "other races" category in 1980 census data; in previous censuses and in vital statistics, such responses were almost always coded to the "white" category. In order to maintain comparability, the 1980 census data by race have been redistributed to conform to the historical categories. Unpublished tabulations of these modified census counts were obtained from the U.S. Bureau of the Census and were used for the computation of the rates.

In obtaining the modified census counts, persons who marked the "other" race category and who reported any Spanish origin on the Spanish origin question (5.8 million persons) were distributed to white and black races in proportion to the distribution of persons of Hispanic origin who reported their race to be white or black. This procedure was done for each age-sex group. As a result of this procedure, 5.7 million persons were added to the white population, and about 135,000 persons were added to the black population. Persons who marked the "other" race category and who reported that they were not of Spanish origin (about 916,000 persons) were distributed as follows: 20 percent in each age-sex group were added to the category "Asian and Pacific Islander" and 80 percent were added to the "white" category.^{1/} The count of American Indians, Eskimos, and Aleuts was not affected by these procedures.

Rates for 1971-79 have been revised based on revised populations for those years which are consistent with the 1980 census levels.^{1/} The 1980 census enumerated approximately 5.5 million persons more than were previously estimated for April 1, 1980.^{2/}

^{1/}U.S. Bureau of the Census: Preliminary estimates of the population of the United States, by age, sex, and race: 1970-1981. Current Population Reports. Series P-25, No. 917. Washington. U.S. Government Printing Office, July 1982.

^{2/}U.S. Bureau of the Census: Coverage of the national population in the 1980 census, by age, sex, and race: Preliminary estimates by demographic analysis. Current Population Reports. Series P-23, No. 115. Washington. U.S. Government Printing Office, Feb. 1982.

SECTION 6 - TECHNICAL APPENDIX

SOURCES OF DATA

Death and fetal-death statistics

Mortality statistics for 1978 are again, as for all previous years except 1972, based on information from all death records received by the National Center for Health Statistics (NCHS). The records are furnished by all the States, the District of Columbia, and the independent registration area of New York City. As a result of personnel and budgetary restrictions, mortality statistics for 1972 were based on information obtained from a 50-percent sample of death records instead of from all records. Fetal-death statistics for all years were based on fetal-death records received.

Although the United States vital statistics system covers the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, and Guam, in this report the term *United States* refers only to the aggregate of the 50 States (including New York City) and the District of Columbia.

Death statistics for Puerto Rico, the Virgin Islands, and Guam were not included for 1972 but are included in section 8 of the reports for each of the years 1973-78. The Virgin Islands was admitted to the "registration area" for deaths in 1924; Puerto Rico, in 1932; and Guam, in 1970. Tabulations for Puerto Rico and the Virgin Islands have been regularly shown in the annual volumes from the year of their admission through 1971 except for the years 1967 through 1969. Tabulations for Guam have been included for 1970 and 1971. Information for 1972 for these three areas is published in the respective annual vital statistics reports of the Department of Health of the Commonwealth of Puerto Rico, the Department of Health of the Virgin Islands, and the Department of Public Health and Social Services of the Government of Guam.

Another change from procedures for prior years, begun for 1971 and continued for 1972 through 1978, is that tabulations of deaths are based on information from two sources. Before 1971, tabulations of deaths and fetal deaths were based solely on information obtained from copies of the original certificates. The information from these copies was edited, classified, and tabulated. For 1960 and for each year thereafter through 1970, all mortality information taken from these records has been transferred by NCHS to magnetic tape for computer processing.

However, beginning with 1971 for demographic data and 1974 for medical data, tabulations are based

on information derived from computer tapes of data coded by an increasing number of States according to NCHS specifications and provided to NCHS through the Cooperative Health Statistics System. The year in which utilization of State-coded data was begun is shown below for New York City, Puerto Rico, and each of the 36 States now furnishing demographic data.

1971	Florida	1976	Alabama Kentucky Minnesota Nevada Texas West Virginia
1972	Maine Missouri New Hampshire Rhode Island Vermont	1977	Alaska Idaho Massachusetts New York City Ohio Puerto Rico
1973	Colorado Michigan New York (except New York City)	1978	Indiana Utah Washington
1974	Illinois Iowa Kansas Montana Nebraska Oregon South Carolina		
1975	Louisiana Maryland North Carolina Oklahoma Tennessee Virginia Wisconsin		

State-coded data were used beginning in 1974 for two States furnishing medical data (Iowa and Michigan) and in 1975 for five more States furnishing medical data (Louisiana, Nebraska, North Carolina, Virginia, and Wisconsin).

For the remaining 14 States, the District of Columbia, the Virgin Islands, and Guam, mortality statistics for 1978 are again based on information obtained directly from copies of the original certificates received from the registration offices. All fetal-death data are obtained directly from copies of the original reports.

Standard certificates and reports

The standard certificate of death and the standard report of fetal death, issued by the Public Health Service, have served for many years as the principal means of attaining uniformity in the content of the documents used to collect information on these events. They have been modified in each State to the extent necessitated by the particular needs of the State or by special provisions of the State vital statistics law. However, the certificates or reports of most States conform closely in content and arrangement to the standards.

The first issue of the Standard Certificate of Death appeared shortly before the formation of the registration area. Since then, it has been revised periodically by the national vital statistics agency through consultation with State health officers and registrars; Federal agencies concerned with vital statistics; national, State, and county medical societies; and others working in such fields as public health, social welfare, demography, and insurance. This revision procedure has assured careful evaluation of each item in terms of its current and future usefulness for registration, identification, legal, medical, and research purposes. New items have been added when necessary, and old items have been modified to ensure better reporting or in some cases have been dropped when their usefulness appeared to be limited.

New revisions of the standard certificate of death and report of fetal death were recommended for State use beginning January 1, 1978. The standard certificate of death and report of fetal death are shown in figures 6-A and 6-B. The certificate of death shown in figure 6-A is for use by either a physician or a medical examiner or a coroner. Two other forms of the Standard Certificate of Death are available; they are similar to the one shown except that the section on certification is designed for the physician's signature on one while the other is designed for the medical examiner's or coroner's signature.

HISTORY

The first death statistics published by the Federal Government concerned events in 1850 and included the entire United States. These statistics were based on information collected during the decennial census of that year. Similar decennial collections were made by census enumerators at each census up to and including the census of 1900, but because of the time interval between the occurrence of a death and census enumeration, these reports were inaccurate and incomplete.

In 1880 the U.S. Bureau of the Census established a national "registration area" for deaths. This original area consisted of two States—Massachusetts and New Jersey—the District of Columbia, and several large cities having efficient systems for death registrations. By 1900, eight other States had been admitted to the death-registration area. For 1880, 1890, and 1900, mortality data were received from the States and cities included in this expanding area, but the figures for the entire country were still compiled from the reports of census enumerators.

Beginning with 1900, mortality statistics were collected annually for the death-registration area. In 1902 the Bureau of the Census, which had previously functioned only in census years, was made a permanent agency by an act of Congress. This act authorized the Director of the Bureau of the Census to obtain annually copies of records filed in the vital statistics offices of States and cities having adequate death-registration systems. At that time not all States had enacted laws requiring death registrations, and in many States the existing laws were poorly enforced. The growth of the registration area is indicated in table 6-1.

The death-registration area for 1900 consisted of 10 States, the District of Columbia, and a number of cities located in nonregistration States. In 1900 the registration area included 40.5 percent of the population of the continental United States. The original registration area was predominantly urban and was characterized by a high proportion of white persons. If the reporting cities located in nonregistration States are excluded, the population coverage of the death-registration States is much lower, only 26.2 percent of the total population of the United States.

Statistics of fetal deaths (the term "stillbirth" was used for many years) were first published for the birth-registration area in 1918. However, they were not included in the reports issued for the succeeding 3 years. Beginning with 1922, statistics of fetal deaths have been published each year for the birth-registration area.

Table 6-1 presents for each year through 1932 the estimated midyear population of the United States and the estimated midyear population of the birth- and death-registration States. Both registration areas included the entire United States for the first time in 1933.

Before 1940 most of the national mortality tabulations published by the Bureau of the Census were based on data collected from the registration areas. However, beginning with 1940 all published material given in statistical series for the United States before the death-registration area was completed omits data for registration cities located in nonregistration States and includes only statistics for

FIGURE 6 A.

(PHYSICIAN, MEDICAL EXAMINER OR CORONER)
U.S. STANDARD
CERTIFICATE OF DEATH

Form Approved
OMB No. 6BR 1901

	LOCAL FILE NUMBER					STATE FILE NUMBER														
TYPE OR PRINT IN PRESENTATION FOR INSTRUCTIONS SEE HANDBOOK	DECEDENT - NAME FIRST MIDDLE LAST					SEX	DATE OF DEATH (Mo. Day Yr.)													
	1					2	3													
IF DEATH OCCURRED IN INSTITUTION SEE HANDBOOK REGARDING COMPLETION OF RESIDENCE ITEMS	RACE - (e.g., White, Black, American Indian, etc.) (Specify)	AGE - Last Birthday (Yrs.)	UNDER 1 YEAR		UNDER 1 DAY		DATE OF BIRTH (Mo. Day Yr.)		COUNTY OF DEATH											
	4	5a.	5b.	5c.	5d.	5e.	8		7a											
DEPARTMENT OF HEALTH EDUCATION AND WELFARE PUBLIC HEALTH SERVICE NATIONAL CENTER FOR HEALTH STATISTICS 1978 REVISION	7b. CITY, TOWN OR LOCATION OF DEATH					7c. HOSPITAL OR OTHER INSTITUTION - Name (If not in either give street and number)				7d. IF HOSP OR INST Indicate ODA OP/Emr. Rm. Inpatient (Specify)										
	7b.		7c.							7d.										
CONDITIONS IF ANY WHICH GAVE RISE TO IMMEDIATE CAUSE STATE THE UNDERLYING CAUSE LAST	8. STATE OF BIRTH (If not in U.S. A name country)		9. CITIZEN OF WHAT COUNTRY		10. MARRIED, NEVER MARRIED, WIDOWED, DIVORCED (Specify)		11. SURVIVING SPOUSE (If wife give maiden name)		12. WAS DECEDENT EVER IN U.S. ARMED FORCES? (Specify Yr or No)											
	8		9		10		11		12											
HRA-162-1 Rev. 1/78	13. SOCIAL SECURITY NUMBER					14a. USUAL OCCUPATION (Give kind of work done during most of working life even if retired)			14b. KIND OF BUSINESS OR INDUSTRY											
	13					14a.			14b.											
IF DEATH OCCURRED IN INSTITUTION SEE HANDBOOK REGARDING COMPLETION OF RESIDENCE ITEMS	15a. RESIDENCE - STATE		15b. COUNTY		15c. CITY, TOWN OR LOCATION		15d. STREET AND NUMBER		15e. INSIDE CITY LIMITS (Specify Yr or No)											
	15a.		15b.		15c.		15d.		15e.											
DEPARTMENT OF HEALTH EDUCATION AND WELFARE PUBLIC HEALTH SERVICE NATIONAL CENTER FOR HEALTH STATISTICS 1978 REVISION	16. FATHER - NAME FIRST MIDDLE LAST				17. MOTHER - MAIDEN NAME FIRST MIDDLE LAST															
	16				17															
IF DEATH OCCURRED IN INSTITUTION SEE HANDBOOK REGARDING COMPLETION OF RESIDENCE ITEMS	18. INFORMANT - NAME (Type or Print)				19. MAILING ADDRESS STREET OR R.F.D. NO. CITY OR TOWN STATE ZIP															
	18				19															
DEPARTMENT OF HEALTH EDUCATION AND WELFARE PUBLIC HEALTH SERVICE NATIONAL CENTER FOR HEALTH STATISTICS 1978 REVISION	20a. BURIAL, CREMATION, REMOVAL, OTHER (Specify)				20b. CEMETERY OR CREMATORY - NAME				20c. LOCATION CITY OR TOWN STATE											
	20a.				20b.				20c.											
IF DEATH OCCURRED IN INSTITUTION SEE HANDBOOK REGARDING COMPLETION OF RESIDENCE ITEMS	21a. FUNERAL SERVICE LICENSEE Of Person Acting As Death (Signature)				21b. NAME OF FACILITY				21c. ADDRESS OF FACILITY											
	21a.				21b.				21c.											
DEPARTMENT OF HEALTH EDUCATION AND WELFARE PUBLIC HEALTH SERVICE NATIONAL CENTER FOR HEALTH STATISTICS 1978 REVISION	21a. To the best of my knowledge, death occurred on the same, date and place and due to the cause(s) stated (Signature and Title)					21c. HOUR OF DEATH					22a. On the basis of examination and/or investigation in my opinion death occurred at the time, date and place and due to the cause(s) stated (Signature and Title)									
																21b. DATE SIGNED (Mo. Day Yr.)				
IF DEATH OCCURRED IN INSTITUTION SEE HANDBOOK REGARDING COMPLETION OF RESIDENCE ITEMS	21b. NAME OF ATTENDING PHYSICIAN IF OTHER THAN CERTIFIER (Type or Print)					22b. PRONOUNCED DEAD (Mo. Day Yr.)					22c. PRONOUNCED DEAD (Hour)									
	21b.					22b.					22c.									
DEPARTMENT OF HEALTH EDUCATION AND WELFARE PUBLIC HEALTH SERVICE NATIONAL CENTER FOR HEALTH STATISTICS 1978 REVISION	21d. NAME AND ADDRESS OF CERTIFIER (PHYSICIAN, MEDICAL EXAMINER OR CORONER) (Type or Print)										22d. ON					22e. AT				
	21d.										22d.					22e.				
IF DEATH OCCURRED IN INSTITUTION SEE HANDBOOK REGARDING COMPLETION OF RESIDENCE ITEMS	23. REGISTRAR										24. DATE RECEIVED BY REGISTRAR (Mo. Day Yr.)									
	23										24									
DEPARTMENT OF HEALTH EDUCATION AND WELFARE PUBLIC HEALTH SERVICE NATIONAL CENTER FOR HEALTH STATISTICS 1978 REVISION	25. IMMEDIATE CAUSE (ENTER ONLY ONE CAUSE PER LINE FOR (a), (b), AND (c))										Interval between onset and death									
	PART I (a) DUE TO OR AS A CONSEQUENCE OF										Interval between onset and death									
IF DEATH OCCURRED IN INSTITUTION SEE HANDBOOK REGARDING COMPLETION OF RESIDENCE ITEMS	(b) DUE TO OR AS A CONSEQUENCE OF										Interval between onset and death									
	(c) DUE TO OR AS A CONSEQUENCE OF										Interval between onset and death									
DEPARTMENT OF HEALTH EDUCATION AND WELFARE PUBLIC HEALTH SERVICE NATIONAL CENTER FOR HEALTH STATISTICS 1978 REVISION	PART II OTHER SIGNIFICANT CONDITIONS - Conditions contributing to death but not related to cause given in PART I (a)										26. AUTOPSY (Specify Yr or No)					27. WAS CASE REFERRED TO MEDICAL EXAMINER OR CORONER (Specify Yr or No)				
	PART II										26					27				
IF DEATH OCCURRED IN INSTITUTION SEE HANDBOOK REGARDING COMPLETION OF RESIDENCE ITEMS	28a. ACC., SUICIDE, HOMICIDE OR PENDING INVEST (Specify)		28b. DATE OF INJURY (Mo. Day Yr.)		28c. HOUR OF INJURY		28d. DESCRIBE HOW INJURY OCCURRED													
	28a.		28b.		28c.		28d.													
DEPARTMENT OF HEALTH EDUCATION AND WELFARE PUBLIC HEALTH SERVICE NATIONAL CENTER FOR HEALTH STATISTICS 1978 REVISION	29a. INJURY AT WORK (Specify Yr or No)		29b. PLACE OF INJURY - At home, farm, street, factory office building, etc. (Specify)				29c. LOCATION		29d. STREET OR R.F.D. No.		29e. CITY OR TOWN		29f. STATE							
	29a.		29b.				29c.		29d.		29e.		29f.							

the registration States. This change decreases the mortality statistics coverage of the United States by excluding cities in nonregistration States, but it has advantages in that more reliable population estimates are available for the registration States than for smaller registration areas.

Rates for the expanding group of death-registration States are approximations of rates for the entire Nation, and general comparisons over a long period of time can be made. More exact trends for parts of the United States can be secured by using some constant area such as the original registration States or the registration States in 1920.

CLASSIFICATION OF DATA

The principal value of vital statistics data is realized through the presentation of rates which are computed by relating the vital events of a class to the population of a similarly defined class. Vital statistics and population statistics must therefore be classified according to similarly defined systems and tabulated in comparable groups. Even when the variables common to both, such as geographic area, age, race, and sex, have been similarly classified and tabulated, differences between the enumeration method of obtaining population data and the registration method

FIGURE 6B.

FORM APPROVED
OMB No. 68R 1901

**U. S. STANDARD
REPORT OF FETAL DEATH**

STATE FILE NUMBER

TYPE OR PRINT IN PERMANENT INK SEE HANDBOOK FOR INSTRUCTIONS	1a. HOSPITAL - NAME (If not in hospital, give street and number)		1b. CITY, TOWN OR LOCATION OF DELIVERY		1c. COUNTY OF DELIVERY		
	2a. DATE OF DELIVERY (Month, Day, Year)		2b. HOUR OF DELIVERY		4. WEIGHT OF FETUS		
	3a. MOTHER - MAIDEN NAME FIRST MIDDLE LAST			5a. AGE (At time of this delivery)		6a. RESIDENCE - STATE	
	3b. CITY, TOWN OR LOCATION			4b. STREET AND NUMBER		6b. COUNTY	
	7. RACE - (e.g., White, Black, American Indian, etc.) (Specify)		8. EDUCATION (Specify only highest grade completed) (Elementary or Secondary (8-12) College (1-4 or 5+))		9. DATE LAST NORMAL MENSTRUATION BEGAN (Month, Day, Year)		
	12a. MONTH OF PREGNANCY PRENATAL CARE BEGAN (First, second, etc.) (Specify)		12b. PRENATAL VISITS - Total number (If none, so state)		13a. THIS BIRTH - Single, twin, triplet, etc. (Specify)		
	10. IS MOTHER MARRIED? (Specify yes or no)		11a. LIVE BIRTHS (Specify yes or no)		11b. OTHER TERMINATIONS (Spontaneous and Induced)		
	11c. DATE OF LAST LIVE BIRTH (Month, Year)		11d. DATE OF LAST OTHER TERMINATION (as indicated in 8 or 9 above) (Month, Year)				
	14a. FATHER - NAME FIRST MIDDLE LAST			14b. AGE (At time of this delivery)		14c. RACE - (e.g., White, Black, American Indian, etc.) (Specify)	
	14d. EDUCATION (Specify only highest grade completed) (Elementary or Secondary (8-12) College (1-4 or 5+))						
	15. PART I IMMEDIATE CAUSE (ENTER ONLY ONE CAUSE PER LINE FOR (a), (b), AND (c)) Specify Fetal or Maternal						
	15a. DUE TO, OR AS A CONSEQUENCE OF Specify Fetal or Maternal						
	15b. DUE TO, OR AS A CONSEQUENCE OF Specify Fetal or Maternal						
	15c. OTHER SIGNIFICANT CONDITIONS OF FETUS OR MOTHER (Conditions contributing to fetal death but not related to cause given in (a))			16. FETUS DIED BEFORE LABOR, DURING LABOR OR DELIVERY, UNKNOWN (Specify)		17. PHYSICIAN'S ESTIMATE OF GESTATION Weeks	
	18. COMPLICATIONS OF PREGNANCY (Describe or write "none")			19. COMPLICATIONS OF LABOR AND/OR DELIVERY (Describe or write "none")			
	20. CONCURRENT ILLNESSES OR CONDITIONS AFFECTING THE PREGNANCY (Describe or write "none")			21. CONGENITAL MALFORMATIONS OR ANOMALIES OF FETUS (Describe or write "none")			
	22. NAME OF PHYSICIAN OR ATTENDANT (Type or print)			23. NAME OF PERSON COMPLETING REPORT (Type or print)		24. TITLE	
25. FETAL DEATH(S)							

DEPARTMENT OF HEALTH, EDUCATION AND WELFARE PUBLIC HEALTH SERVICE NATIONAL CENTER FOR HEALTH STATISTICS 1978 REVISION

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of obtaining vital statistics data may result in significant discrepancies.

The general rules used in the classification of geographic and personal items for deaths and fetal deaths are set forth in two NCHS instruction manuals.^{1,2}

Following is a discussion of the classification of certain important items.

¹National Center for Health Statistics: Vital statistics, classification and coding instructions for fetal-death records, 1978. *NCHS Instruction Manual*, Part 3b. Public Health Service. Hyattsville, Md., Nov. 1977.

²National Center for Health Statistics: Vital Statistics, demographic classification and coding instructions for death records, 1978. *NCHS Instruction Manual*, Part 4. Public Health Service. Hyattsville, Md., Nov. 1977.

Classification by occurrence and residence

Tabulations for the United States and specified geographic areas in this report are by place of residence unless stated as by place of occurrence. Before 1970, resident mortality statistics for the United States included all deaths occurring in the United States, with deaths of "nonresidents of the United States" assigned to place of death. "Deaths of nonresidents of the United States" refer to deaths that occur in the United States of nonresident aliens, nationals residing abroad, and residents of Puerto Rico, the Virgin Islands, Guam, and other possessions of the United States. Beginning with 1970, deaths of nonresidents of the United States are not included in tables by place of residence.

Tables by place of occurrence, on the other hand, include both deaths of residents and nonresidents of the United States. Consequently, for each year during 1970-78, the total number of deaths in the United States by place of occurrence is somewhat greater than the total by place of residence. For 1978 this difference amounts to 2,839 deaths.

Mortality statistics by place of occurrence are shown in tables 1-10, 1-19, 1-20, 1-30, 3-1, 3-8, 7-1, and 7-7.

Before 1970, except for the years 1964 and 1965, deaths of nonresidents of the United States occurring in the United States have been treated as deaths of residents of the exact place of occurrence, which in most instances was an urban area. In 1964 and 1965 deaths of nonresidents of the United States occurring in the United States were allocated as deaths of residents of the balance of the county in which they occurred.

Residence error.—Results of a 1960 study show that the classification of residence information on the death certificates corresponded closely to the residence classification of the census records for the decedents whose records were matched.³

A comparison of the results of this study of deaths with those for a previous matched record study of births⁴ shows that considerable improvement in the quality of residence data had taken place since 1950. The results were the same—an overstatement of events in urban areas by NCHS compared with the U.S. Bureau of the Census classification. The magnitude of the difference was substantially less for deaths in 1960 than it was for births in 1950. Two factors contribute to this difference in magnitude. The first factor is an item that was added to the Standard Certificate of Death in 1956, asking if residence is inside or outside city limits. This new item aided in properly allocating the residence of persons living near cities but outside the corporate limits. The second factor is that there is more likelihood of movement for hospital utilization for births than for deaths.

Geographic classification

The rules followed in the classification of geographic areas for deaths and fetal deaths are con-

³National Center for Health Statistics: Comparison of the classification of place of residence on death certificates and matching census records, United States, May-August 1960, by M. A. McCarthy. *Vital and Health Statistics*. PHS Pub. No. 1000-Series 2-No. 30. Public Health Service. Washington. U.S. Government Printing Office, Jan. 1969.

⁴National Vital Statistics Division: Matched record comparison of birth certificate and census information, United States, 1950, *Vital Statistics—Special Reports*, Vol. 47, No. 12. Public Health Service. Washington, D.C., Mar. 1962.

tained in the two instruction manuals referred to previously.

The geographic codes assigned by the National Center for Health Statistics during data reduction of source information on birth, death, and fetal-death records are given in an NCHS instruction manual.⁵

Standard metropolitan statistical areas.—Except in the New England States, a standard metropolitan statistical area (SMSA) is a county or a group of contiguous counties containing at least one city of 50,000 inhabitants or more or "twin cities" with a combined population of at least 50,000 in the 1970 census. In addition to the county or counties containing such a city or cities, contiguous counties are included in an SMSA if, according to specified criteria, they are essentially metropolitan in character and are socially and economically integrated with the central city or cities.⁶

In New England the U.S. Office of Management and Budget uses towns and cities rather than counties as geographic components of SMSA's. The National Center for Health Statistics cannot use the SMSA classification for these States because its data are not coded to identify all towns. Instead, the metropolitan State economic area (MSEA) established by the U.S. Bureau of the Census, which is made up of county units, is used.⁷

For tables 7-4 and 7-8 in this report, the SMSA's and their component counties are those established by the U.S. Office of Management and Budget as of 1970 (except in the New England States) and used by the U.S. Bureau of the Census.

Tables 1-18 and 2-8, however, are limited to the 50 largest SMSA's and MSEA's (in the New England States) established by the Office of Federal Statistical Policy and Standards for 1978. These 50 largest units for 1978 are different from those for 1977.

The list of 50 largest units for 1978 also differs from the list for 1970. Moreover, the county components for some of the SMSA's and MSEA's that appear on both lists are different for 1978 from the components for 1970.

As a result, sometimes the number of deaths shown for the same-named SMSA or MSEA in tables

⁵National Center for Health Statistics: Vital statistics, vital records geographic classification, 1970. *NCHS Instruction Manual*, Part 8. Health Resources Administration. Rockville, Md., 1975.

⁶For a more complete discussion see U.S. Bureau of the Census, *U.S. Census of Population, 1970, Number of Inhabitants*, Final Report, PC(1)-A1, United States Summary, Washington. U.S. Government Printing Office, 1971, and U.S. Bureau of the Budget, *Standard Metropolitan Statistical Areas*, Washington. U.S. Government Printing Office, 1967.

⁷For discussion of MSEA's see U.S. Bureau of the Census, *State Economic Areas*, Washington. U.S. Government Printing Office, 1951, and the first reference cited in footnote 6.

7-4 and 7-8 based on units established for 1970 will differ from the number of deaths shown in tables 1-18 and 2-8 based on units established for 1978.

Standard consolidated areas.—For the metropolitan complexes around New York and Chicago, several contiguous SMSA's and additional counties that do not appear to meet the formal integration criteria for SMSA's but do have strong interrelationships of other kinds have been combined into the New York-Northeastern New Jersey and the Chicago-Northwestern Indiana Standard Consolidated Areas.⁸

Metropolitan and nonmetropolitan counties.—Counties included in SMSA's or in New England MSEA's for 1970 are called metropolitan counties; all other counties are classified as nonmetropolitan.

Population-size groups (formerly "urban" and "rural" areas).—Vital statistics data for cities and certain other urban places in 1978 are classified according to the population enumerated in the 1970 Census of Population. In this report "Population-size groups" refer to two groups, "Urban places" and "Balance of area." "Urban places" consist of the following places:

1. Each incorporated city and other urban places of 10,000 inhabitants or more.
2. Each town in New England and each township in New Jersey and Pennsylvania that had no incorporated municipality as a subdivision and had either 25,000 inhabitants or more, or a population of 10,000 to 25,000 and a density of 1,500 persons or more per square mile.
3. Each county in States other than the New England States, New Jersey, and Pennsylvania that had no incorporated municipality within its boundary and had a density of 1,500 persons or more per square mile. (Arlington County, Virginia, is the only county classified as urban under this rule.)

"Balance of area" consists of all other places.

Before 1964, places were classified as "urban" or "rural." The Technical Appendixes for earlier years discuss the previous classification system.

Age

The age recorded on the death record is the age at last birthday. With respect to the computation of death rates, the age classification used by the U.S. Bureau of the Census is also based on the age of the person in completed years.

Race and color

For vital statistics in the United States in 1978, deaths are classified by race—white, black, Indian, Chinese, Japanese, and other races.

The white category includes, in addition to persons reported as white, those reported as Mexican, Puerto Rican, Cuban, and all other Caucasians. The Indian category includes American, Alaskan, Canadian, Eskimo, and Aleut. If the racial entry on the death certificate indicates a mixture of Hawaiian and any other race, the entry is coded to Hawaiian. If the race is given as a mixture of white and any other race, the entry is coded to the appropriate other race. If a mixture of races other than white is given (except Hawaiian), the entry is coded to the first race listed. This procedure for coding the first race listed has been in use for each year of the period 1969-78. Before 1969 if the entry for race was a mixture of black and any other race except Hawaiian, the entry was coded to black.

Most of the tables in this report, however, do not show data for this extended classification by race. In some tables the divisions are white, black, and other. In other tables, where the main purpose is to isolate the major group, the classifications are simply white and all other.

Race not stated.—For 1978 the number of death records for which the race was not stated was 1,756, or 0.1 percent of the total deaths. Death records with race entry not stated were assigned to a racial designation as follows: If the preceding record were coded white, the code assignment is made to white; if the code is other than white, the assignment is made to black. For years before 1964 all records with race not stated were assigned to white except records of residents of New Jersey for 1962-64.

New Jersey, 1962-64.—New Jersey omitted the race item from its certificates of live birth, death, and fetal death in use in the beginning of 1962. The item was restored during the latter part of 1962. However, the certificate revision without the race item was used for most of 1962 as well as 1963. Therefore figures by race or color for 1962 and 1963 exclude New Jersey. For 1964, 6.8 percent of the death records in use for residents of New Jersey did not contain the race item.

Adjustments made in vital statistics to take into account the omission of the race item in New Jersey for part of the certificates filed during 1962-64 are described in the Technical Appendix of *Vital Statistics of the United States* for each of those data years.

Fetal deaths

In May 1950 the World Health Organization recommended the adoption for international use of the definition of fetal death as "death prior to the

⁸See footnote 6.

complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of pregnancy; the death is indicated by the fact that after such separation, the fetus does not breathe or show any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles."⁹ The term "fetal death" was defined on an all-inclusive basis to end confusion arising from usage of such terms as still-birth, abortion, and miscarriage.

Shortly thereafter this definition of fetal death was adopted by the National Center for Health Statistics as the nationally recommended standard. Currently, of the 55 registration areas (including the 50 States, the District of Columbia, New York City, Guam, Puerto Rico, and the Virgin Islands), a total of 40 registration areas uses this definition. Of the remaining 15 areas, 14 use a shortened definition, and 1 (Puerto Rico) has no formal definition.¹⁰

As another step toward increasing the comparability of data on fetal deaths for different countries, the World Health Organization recommended that in classifying fetal deaths for statistical purposes they be grouped as early, intermediate, and late. These groups are defined as follows:

Less than 20 completed weeks of gestation (early fetal deaths)	Group I
20 completed weeks of gestation but less than 28 (intermediate fetal deaths)	Group II
28 completed weeks of gestation and over (late fetal deaths)	Group III
Gestation period not classifiable in groups I, II, and III.	Group IV

Note that in table 3-13, group IV consists of fetal deaths with gestation not stated but presumed to be 20 weeks or more gestation.

Until 1939 the nationally recommended procedure for registration of a fetal death required the filing of both a live-birth and a death certificate. In 1939 a separate Standard Certificate of Stillbirth (fetal death) was created to replace the former procedure. This was revised in 1949, 1955, 1956, and 1968. In 1978 the Standard Certificate of Fetal

Death was replaced by the Standard Report of Fetal Death (figure 6-B).

The 1977 revision of the *Model State Vital Statistics Act and Model State Vital Statistics Regulations*,¹¹ implemented in 1978, recommended that spontaneous fetal deaths of 20 weeks or more gestation and all induced terminations of pregnancy regardless of gestational age be reported and further that they be reported on separate forms. These forms are to be considered legally-required statistical reports rather than legal documents.

Because the health implications are different for spontaneous fetal deaths and induced terminations of pregnancy, and because the National Center for Health Statistics began receiving increasing numbers of reports on induced terminations of pregnancy, beginning with 1970 fetal deaths, procedures were implemented that attempted to separate reports on spontaneous fetal deaths from those on induced terminations of pregnancy, based on reported information on each report. These procedures are still in use.

Comparability and completeness of data.—State requirements for registration of fetal deaths vary. Most of the States require registration of fetal deaths of gestations of 20 weeks or more. Table 3-1 in section 3 shows the minimum period of gestation required by each State for fetal-death registration. There is substantial evidence that not all fetal deaths for which registration is required are reported.¹²

Underregistration is more of a problem near the lower limit for States having a minimum gestation period requirement. Failure to register fetal deaths near the lower limit results to a large degree from underestimating the gestation period. This is illustrated by the fact that for areas requiring registration of all fetal deaths, the total number reported for 20-23 weeks is higher than the numbers reported for 24-27 and 28-31 weeks. For most of the other areas, however, the opposite is true.

To maximize the comparability of data by year and by State, most of the tables in section 3 are based on fetal deaths occurring at gestations of 20 weeks or more. These tables also include fetal deaths of not stated or unknown gestation for those States requiring registration at 20 weeks or more only. Beginning with 1969, fetal deaths of not stated gestation were excluded for States requiring registration of all

⁹National Office of Vital Statistics: *International Recommendations on Definitions of Live Birth and Fetal Death*. PHS Pub. No. 39. Public Health Service. Washington. U.S. Government Printing Office, Oct. 1950.

¹⁰For definitions used by the States and registration areas, see National Center for Health Statistics, *State Definitions and Reporting Requirements for Live Births, Fetal Deaths, and Induced Terminations of Pregnancy*. PHS Pub. No. (PHS) 81-1119. Public Health Service. Washington. U.S. Government Printing Office, May 1981.

¹¹National Center for Health Statistics, *Model State Vital Statistics Act and Model State Vital Statistics Regulations*. PHS Pub. No. (PHS) 78-1115. Public Health Service. Washington. U.S. Government Printing Office, May 1978.

¹²Unpublished fetal mortality data contained in a thesis for Harvard School of Public Health, Apr. 1962, by Carl L. Erhardt, Sc.D., Director, Bureau of Records and Statistics, Department of Health, New York, N.Y.

products of conception except for those with a stated birth weight of 500 grams or more. In 1978 this rule was applied to the following States: Colorado, Georgia, Hawaii, New York, Rhode Island, and Virginia. Each year there are some exceptions to this procedure. In 1978 Arkansas was one such exception; this State required the reporting of fetal deaths of all periods of gestation in 1978; however, all fetal deaths of not stated gestation were assumed to be of 20 weeks or more gestation.

The data in table 3-3 include only fetal deaths to residents of those areas in the United States which report all periods of gestation. The areas are Arkansas, Colorado, Georgia, Hawaii, New York, Rhode Island, and Virginia. However, Arkansas is excluded from this table because of individual reporting problems explained below. None of these reporting problems, however, should appreciably affect the data for fetal deaths of 20 weeks or more gestation.

In States requiring the reporting of fetal deaths of all periods of gestation, generally at least half of the reported fetal deaths are less than 20 weeks gestation. Only 8.5 percent of all fetal deaths reported for Arkansas in 1978 were of less than 20 weeks gestation. Beginning with data year 1971, Arkansas introduced a form for confidential reporting of abortions. It is believed that most spontaneous fetal deaths of under 20 weeks gestation are reported on this form and not on the fetal-death certificate. The National Center for Health Statistics only receives fetal-death certificates from Arkansas.

Some liveborn infants who die shortly after birth, particularly those born prematurely who die before the umbilical cord is severed or while the placenta is still attached, may be erroneously reported as fetal deaths. This type of error may be more of a problem in States lacking a precise definition of fetal deaths.

Georgia.—Beginning with data year 1975, fetal deaths occurring in Georgia are reported only to the State and county level. This affects the figures concerning fetal deaths in tables 3-6, 7-1, and 7-2. In tables 3-6 and 7-2 all fetal deaths occurring in Georgia are assigned to "Balance of area" and not to "Urban places." Consequently, reported fetal deaths and fetal-death ratios for the United States and Georgia for "Urban Areas" are lower than they would be if needed residence information were available for fetal deaths occurring in Georgia. Also, the figures for "Balance of area" are higher than they would be if this same information were available. In table 7-1 all fetal deaths occurring in Georgia are assigned to "Balance of county" and not to specified urban places. Fetal deaths that are assigned to specified urban places are those occurring outside of Georgia to residents of Georgia.

Maine.—Beginning with data year 1978, Maine changed its reporting requirements for spontaneous

fetal deaths from "all periods of gestation" to "20 weeks or more." This change affected the tabulation of fetal deaths with not stated gestational age, including trend data in table 3-7. Whereas data for 1974-77 includes fetal deaths of not stated gestational age only if birth weight was stated as 500 grams or more, data in 1978 include all fetal deaths of not stated gestational age.

Period of gestation.—The period of gestation is the number of completed weeks elapsed between the first day of the last menstrual period and the date of delivery, irrespective of whether the product of conception was liveborn or born without evidence of life. The first day of the last normal menstrual period (LMP) is used as the initial date since it can be more accurately determined than the date of conception, which usually occurs 2 weeks after LMP. Data on period of gestation are computed from information on "date of delivery" and "date last normal menses began." If "date last normal menses began" is not on the record or the calculated gestation falls beyond a duration considered biologically plausible, "gestation in weeks" or "Physician's estimate of gestation" is used. When the period of gestation is reported in months on the certificate, it is allocated to gestation intervals in weeks as follows:

- 1 - 3 months to under 16 weeks
- 4 months to 16 - 19 weeks
- 5 months to 20 - 23 weeks
- 6 months to 24 - 27 weeks
- 7 months to 28 - 31 weeks
- 8 months to 32 - 35 weeks
- 9 months to 40 weeks
- 10 months and over to 43 weeks and over

In 1978 the areas using LMP were as follows:

Alabama	Kentucky	North Carolina
Alaska	Louisiana	North Dakota
Arizona	Maine	Ohio
California	Maryland	Oklahoma
Colorado	Massachusetts	Oregon
District of Columbia	Michigan	Rhode Island
Florida	Minnesota	South Carolina
Georgia	Mississippi	South Dakota
Hawaii	Missouri	Tennessee
Idaho	Montana	Utah
Illinois	Nebraska	Vermont
Indiana	Nevada	Washington
Iowa	New Hampshire	West Virginia
Kansas	New Jersey	Wyoming
	New York	

Birth weight.—Of the 55 registration areas (including the 50 States, the District of Columbia, New York City, Guam, Puerto Rico, and the Virgin Islands), 26 do not specify how weight should be given; 16 specified that weight should be given in pounds and ounces; 6 specified grams; and the re-

maining 7 areas specified weight should be given either in pounds and ounces or in grams.

In tabulating and presenting these data, the metric system (grams) has been used to facilitate comparison with other data published in the United States and internationally. The equivalents of the gram intervals in pounds and ounces are as follows:

500 grams or less	=	1 lb	1 oz or less	
501 - 1,000 grams	=	1 lb	2 oz	3 oz
1,001 - 1,500 grams	=	2 lb	4 oz	4 oz
1,501 - 2,000 grams	=	3 lb	5 oz	6 oz
2,001 - 2,500 grams	=	4 lb	7 oz	8 oz
2,501 - 3,000 grams	=	5 lb	9 oz	9 oz
3,001 - 3,500 grams	=	6 lb	10 oz	11 oz
3,501 - 4,000 grams	=	7 lb	12 oz	13 oz
4,001 - 4,500 grams	=	8 lb	14 oz	14 oz
4,501 - 5,000 grams	=	9 lb	15 oz	0 oz
5,001 grams or more	=	11 lb	1 oz or more	

Race and color.—The race of the fetus is ordinarily classified to the race of the parents. If the parents are of different races, the following rules apply: (1) When only one parent is white, the fetus is assigned the other parent's race. (2) When neither parent is white, the fetus is assigned the father's race with one exception: If the mother is Hawaiian or Part-Hawaiian, the fetus is classified as Hawaiian.

When the race of one parent is missing or ill-defined, the race of the other determines that of the fetus. When race of both parents is missing, the race of the fetus is allocated to the specific race of the fetus on the preceding record.

Total-birth order.—The number of a live birth or a fetal death in the total birth order is the sum of the live births and fetal deaths which a mother has had including the birth being recorded. For example, if a mother has previously given birth to two live babies and to one born dead, the next event to occur, whether a live birth or fetal death, is counted as number four in the total-birth order.

In the 1978 revision of the Standard Report of Fetal Death, total birth order is calculated from four items on pregnancy history: number of previous live births, now living; number of previous live births, now dead; number of other terminations (include both spontaneous fetal deaths and induced terminations of pregnancy) before 20 weeks; and number of other terminations (include both spontaneous fetal deaths and induced terminations) after 20 weeks. Of the 55 registration areas (including the 50 States, the District of Columbia, New York City, Guam, Puerto Rico, and the Virgin Islands), 29 areas have adopted the 4 standard items on pregnancy history. These areas are

Alabama	Nevada ^a
Arizona ^a	New Hampshire ^a
California	New York City
Hawaii	North Dakota
Idaho	Ohio
Indiana	Oregon
Iowa	Rhode Island
Kansas	South Carolina
Kentucky	South Dakota
Maine ^a	Tennessee
Massachusetts	Utah
Mississippi	Wisconsin
Missouri	Wyoming
Montana	Guam
Nebraska	

Twenty areas have information on the number of previous live births, now living; number of previous live births, now dead; and number of previous fetal deaths any time after conception. Four areas request information on the number of previous live births, now living; number of previous live births, now dead; and number of previous fetal deaths; these areas also specify a gestational age for including information on previous fetal deaths. These 24 areas are

Alaska	New Jersey
Arkansas	New Mexico
Connecticut	North Carolina
Delaware	Oklahoma
District of Columbia ^b	Pennsylvania ^b
Florida	Texas ^b
Georgia	Vermont ^b
Illinois	Virginia
Louisiana	Washington
Maryland	West Virginia
Michigan	Puerto Rico
Minnesota	Virgin Islands

Two areas (Colorado and New York State) ask for information on number of previous live births, now living; number of previous live births, now dead; and number of other terminations, spontaneous and induced. Total birth order for all 55 areas is calculated from the sum of the available information. Thus information on total birth order may not be completely comparable for all 55 registration areas.

Marital status.—Table 3-4 shows fetal deaths by marital status. Only fetal deaths to residents of States which provided for reporting this item on both their certificates of live birth and fetal death in 1978

^aThese areas changed their forms during 1978 but after January 1, 1978.

^bThese areas specify a gestational age for the inclusion of previous fetal deaths.

are included. The following States are considered as reporting States:

Alabama	Kentucky	Oregon
Alaska	Louisiana	Pennsylvania
Arizona	Maine	Rhode Island
Colorado	Massachusetts	South Carolina
Delaware	Minnesota	South Dakota
District of Columbia	Mississippi	Tennessee
Florida	Missouri	Utah
Hawaii	Nebraska	Virginia
Idaho	New Hampshire	Washington
Illinois	New Jersey	West Virginia
Indiana	North Carolina	Wisconsin
Iowa	North Dakota	Wyoming
Kansas	Oklahoma	

There are no quantitative data on the characteristics of unmarried women who may misreport their marital status or who fail to register fetal deaths. Underregistration may be greater for the unmarried group than for the married group.

Age of mother.—The fetal-death certificate asks for the mother's "age (at time of delivery)," and the ages are edited in NCHS for upper and lower limits. When mothers are reported to be under 10 years of age or age 50 years and over, the age of the mother is considered not stated and is assigned as follows: Age on all fetal-death records with age of mother not stated is allocated according to the age appearing on the record previously processed for a mother of identical color and having the same total-birth order (total of fetal deaths and live births).

Cause of death

Beginning with data year 1968 the cause-of-death statistics published by the National Center for Health Statistics have been classified in accordance with the *Eighth Revision International Classification of Diseases, Adapted for Use in the United States (ICDA)*,¹³ which is based on the 1965 Revision of the International Classification of Diseases (ICD).¹⁴ The ICDA gives greater detail and specificity in some categories than is provided by the Eighth Revision of the ICD. Complete correspondence between these two classifications was maintained at the three-digit level, but new four-digit subdivisions were created in various parts of the ICDA. Where necessary, existing four-

digit subdivisions are renumbered to accommodate the additional subcategories in logical sequence. In the ICDA, subdivisions which do not correspond exactly with the ICD are identified by asterisks. In this report the four-digit subcategory numbers which differ from those in the ICD are also shown with asterisks.

In addition to specifying that the Classification be used, the World Health Organization recommended special lists for mortality tabulations—the Detailed List, consisting of all three-digit categories; List A, the List of 150 Causes for Tabulation of Morbidity and Mortality; List B, the List of 50 Causes for Tabulation of Mortality; and List P, the List of 100 Causes for Tabulation of Perinatal Morbidity and Mortality. The recommended tabulation lists have been modified for use in the National Center for Health Statistics.

The Each-Cause List is made up of each three-digit category of the Detailed List to which deaths may be assigned and each four-digit subcategory of the ICDA to which deaths may be assigned. For category 412 the fourth digits .1, .2, .3, and .4 are used instead of the fourth digits .0 and .9 which appear in the ICDA. The each-cause table (1-23) does not show the fourth-digit subcategories provided for Motor vehicle accidents (E810-E823). However, these subcategories, which identify persons injured, are shown in the accident tables (Section 4). Special fifth-digit subcategories are also used in the accident tables to identify place of accident when deaths from non-transport accidents are shown.

The List of 281 Selected Causes of Death is an extension of List A, designed so that with one exception the original groups can be obtained by combining titles. The individual titles in List A for Certain causes of mortality in early infancy are shown as one group title in tables using the List of 281 Selected Causes. The individual categories are shown in the tables using the List of 65 Selected Causes of Infant Death, which was created by extending some titles in List P and by combining others. Titles in List P not shown in this list may be found in the each-cause table except for causes of death in List P that are applicable only to fetal deaths.

The List of 69 Selected Causes of Death is an extension of List B; however, certain causes of low frequency in the United States are not shown separately. These causes are Cholera, Typhoid fever, Plague, Diphtheria, Smallpox, Typhus and other rickettsioses, and Malaria.

The List of 34 Selected Causes of Death for Detailed Geographic Areas was created by combining titles in the List of 69 Selected Causes.

These lists were designed to be as comparable as possible to the NCHS lists most recently in use under the Seventh Revision. In several instances this could

¹³National Center for Health Statistics: *Eighth Revision International Classification of Diseases, Adapted for Use in the United States*. PHS Pub. No. 1693. Public Health Service. Washington. U.S. Government Printing Office, 1967.

¹⁴World Health Organization: *Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Death*, Based on the Recommendations of the Eighth Revision Conference, 1965. Geneva. World Health Organization, 1967.

not be done. No attempt will be made here to enumerate these changes. However, the following changes are especially worth noting. The group title Major cardiovascular diseases (ICDA Nos. 390-448) includes all of the titles in "Section VII. Diseases of the circulatory system" of the Eighth Revision except Diseases of veins and lymphatics and other diseases of circulatory system (ICDA Nos. 450-458). The most nearly comparable group title in the Seventh Revision is Diseases of cardiovascular system (ICD Nos. 330-334, 400-468).

Both of these group titles include the first and third leading causes of death—Diseases of heart (ICDA Nos. 390-398, 402, 404, 410-429) and Cerebrovascular diseases (ICDA Nos. 430-438). They both also include Diseases of arteries, arterioles, and capillaries (ICDA Nos. 440-448). The comparable title in the Seventh Revision for these latter diseases is Diseases of arteries (ICD Nos. 450-456). But the group title Diseases of cardiovascular system (ICD Nos. 330-334, 400-468) in the Seventh Revision includes also the title Diseases of veins and other diseases of circulatory system (ICD Nos. 460-468). These diseases of veins and other diseases of circulatory system (assigned by the Eighth Revision to ICDA Nos. 450-458) are not included, however, under the Eighth Revision group title Major cardiovascular diseases (ICDA Nos. 390-448).

Effect of decennial list revisions.—The International Lists, in use in this country since 1900, have been revised decennially so that the disease classification may be consistent with advances in medical science and changes in diagnostic practice. Each decennial revision of the International Lists has produced some break in comparability of cause-of-death statistics. For the first five revisions, the continuity in the mortality trends is not considered a problem of great concern. Van Buren described some of the major shifts in the cause-of-death statistics up to the Fifth Revision (1938) due to changes in the classification of causes of death.¹⁵ Dunn and Shackley measured the change in mortality statistics by cause due to the Fifth Revision.¹⁶

This was done by coding mortality records for 1940 by the 1929 and 1938 revisions. The results of

the study have been useful in evaluating the effects of the Fifth Revision and changes in the joint-cause selection procedure.

Sixth Revision.—The Sixth Revision of the International Lists of Diseases and Causes of Death was adopted by the World Health Organization in July 1948 and used for mortality data in the United States from 1949 through 1957. This revision represented a more sweeping change than any previous revision. The classification scheme was expanded considerably to provide specific categories for nonfatal diseases and injuries in order to provide a classification which could be used for coding morbidity as well as mortality records.

In addition to the expanded scope of the Sixth Revision of the International Classification, there was a major change in the method of selection of the cause of death for primary tabulation. A large proportion of death certificates filed annually in the United States reports two or more diseases or conditions as causes of death. General statistical practice requires that cases involving more than one cause of death be assigned to a single cause, making it necessary to select the one cause to which the death will be assigned. The method of selection has an important effect upon the resulting statistics.

In 1948 the World Health Assembly adopted, along with the Sixth Revision of the International Lists, a form of medical certification and rules for classification of the underlying cause of death for international use. The form of medical certification in the Standard Certificate of Death is shown in figure 6-A. It is designed to facilitate the selection of the underlying cause of death when two or more causes are recorded. In general, if the certification is completed properly, the underlying cause of death entered by the physician is the cause to be tabulated. This procedure, used in the United States beginning with deaths in 1949, differs markedly from that used in previous years. Formerly, definite priority relationships were set up for combinations of causes reported on the death certificate. The single cause to be tabulated was chosen according to these fixed rules.

Comparability between the Sixth and Fifth Revisions.—To maintain a time series of mortality rates for comparable causes, the International Conference for the Sixth Revision of the International Lists recommended that deaths for a country as a whole in 1949 and 1950 be coded according to both the Sixth and Fifth Revisions. In the United States, 1950 mortality data were used for the dual coding. The differences resulting from the use of the two revisions are expressed by a factor termed the comparability ratio. This is the number of deaths assigned to a particular cause under the Sixth Revision divided

¹⁵U.S. Bureau of the Census: Some things you can't prove by mortality statistics, by G. H. Van Buren. *Vital Statistics—Special Reports*, Vol. 12, No. 13. Washington, D.C., Jan. 1940.

¹⁶U.S. Bureau of the Census: Comparison of cause-of-death assignments by the 1929 and 1938 Revisions of the International Lists, deaths in the United States, 1940, by H. L. Dunn and W. Shackley. *Vital Statistics—Special Reports*, Vol. 19, No. 14. Washington, D.C., June 1944.

by the number of deaths assigned to that cause using the Fifth Revision.^{17,18}

Seventh Revision.—Changes in the Seventh Revision were held to a minimum because of the relatively short experience with the Sixth Revision. In compliance with a recommendation of the Expert Committee on Health Statistics, the changes were limited to essential ones and amendments of errors and inconsistencies. Provisions previously contained in an addendum¹⁹ were integrated into the manual.²⁰ Since these provisions had been used with the Sixth Revision, they did not represent classification changes. The only change made in three-digit categories consisted of rewording a few titles. In a few cases the rewording included redefining morbid conditions classifiable to these categories and transferring certain terms from one category to another. The three-digit categories which were affected are listed in Section 1, Volume I, of *Vital Statistics of the United States, 1958*. There were also a number of changes in four-digit subcategories, consisting mostly of the addition of subdivisions to provide more detailed classification of malignant neoplasms of specified sites. The three-digit categories for which there were additions, deletions, or changes in the four-digit subcategories are also listed in section 1 of the 1958 report.

The international rules for selecting the cause of death for primary mortality classification were recast for use with the Seventh Revision to simplify them and to organize them from the viewpoint of the coder making the cause-of-death assignment. The intent of the rules remains the same, that is, to code the cause which the medical certifier judged to be the underlying cause starting the train of events leading directly to death. In recasting the rules, some interpretations were modified—mainly those involving selection of

the underlying cause for improperly completed certifications. In adapting coding procedures to reporting practices in the United States, some additional changes in interpretations were made.

In the majority of cases, application of the rules for the Sixth and Seventh Revisions resulted in the same code assignment. There were some differences in individual assignments affecting a number of categories. Many of these individual assignments were compensatory and resulted in no detectable discontinuity of trends for various causes of death; the comparability of a number of categories was affected to a limited extent.

Comparability between the Seventh and Sixth Revisions.—To estimate the magnitude of the effect of the Seventh Revision upon the comparability of mortality trends for various causes, a 10-percent sample of deaths in 1958 was classified using both the Sixth and Seventh Revisions. The comparability ratios for selected causes and a discussion of the results of this study are published in “Comparability of Mortality Statistics for the Sixth and Seventh Revisions, United States, 1958.”²¹

Eighth Revision.—The Eighth Revision contains major modifications in several sections of the lists. Also, the international rules for selecting the underlying cause have been simplified. In addition, changes have been introduced in the special rules and decisions which adapt the coding procedures to reporting practices in the United States.

The Detailed List of the Eighth Revision consists of 671 categories of diseases and morbid conditions, 182 categories for classification of the external cause of injury, and 187 categories for characterization of injuries according to the nature of the lesion. These detailed categories are designated by three-digit numbers. There are also four-digit subcategories in the ICDA that provide further specificity or more information regarding etiology or manifestations of the disease. The classification is arranged in 17 main sections, or chapters. The important changes are summarized for each of these sections in the introduction to the ICDA, pages xxiv-xxviii. Following are some of the many changes made:

Infective and parasitic diseases.—In the Seventh Revision, list titles for diarrheal conditions were scattered over several sections of the classification. In the Eighth Revision all the Seventh Revision subdivisions for these conditions, including

¹⁷National Center for Health Statistics: Comparability of mortality statistics for the Fifth and Sixth Revisions, United States, 1950, by M. M. Faust and A. B. Dolman. *Vital Statistics—Special Reports*, Vol. 51, No. 2. Public Health Service. Washington, D.C., Dec. 1963.

¹⁸National Center for Health Statistics: Comparability ratios based on mortality statistics for the Fifth and Sixth Revisions, United States, 1959, by M. M. Faust and A. B. Dolman. *Vital Statistics—Special Reports*, Vol. 51, No. 3. Public Health Service. Washington, D.C., Feb. 1964.

¹⁹World Health Organization: *Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Death*, Addendum 1, *Supplementary Interpretations and Instructions for Coding Causes of Death*. Geneva. World Health Organization, 1953.

²⁰World Health Organization: *Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Death*, Based on the Recommendations of the Seventh Revision Conference, 1955. Geneva. World Health Organization, 1957.

²¹National Center for Health Statistics: Comparability of mortality statistics for the Sixth and Seventh Revisions, United States, 1958, by M. M. Faust and A. B. Dolman. *Vital Statistics—Special Reports*, Vol. 51, No. 4. Public Health Service. Washington, D.C., Mar. 1965.

those for infants, are brought together under one category, Diarrheal diseases (009).

Diseases of the nervous system and sense organs.—Vascular lesions affecting central nervous system (330-334) in the Seventh Revision has been transferred in the Eighth Revision to "Section VII, Diseases of the circulatory system," where they appear as Cerebrovascular diseases (430-438).

Certain causes of perinatal morbidity and mortality.—This section represents an integration of "Section XV, Certain diseases of early infancy" and Classification of causes of stillbirth (Y30-Y39) in the Seventh Revision. The age qualifications used in previous revisions to classify the same conditions in or outside this section have been deleted. For example, Pneumonia of newborn (763) of the Seventh Revision is no longer in this section. Instead, it is included in the Eighth Revision with Pneumonia (480-486), to which pneumonias are assigned without regard to age.

Accidents, poisonings, and violence.—A new subsection (E980-E989) has been introduced for the classification of deaths where it was not possible for the certifier to determine whether the injuries were accidentally or purposely inflicted.

Comparability between the Eighth and Seventh Revisions.—To measure the degree of discontinuity in cause-of-death statistics resulting from the introduction of the Eighth Revision, provisional estimates of selected comparability ratios based on dual coding of a stratified sample of 1966 death certificates by the Seventh and Eighth Revisions of the International Classification of Diseases were computed. These ratios appear in the *Monthly Vital Statistics Report* of the National Center for Health Statistics, Volume 17, Number 8, Supplement; and in *Comparability of Mortality Statistics for the Seventh and Eighth Revisions of the International Classification of Diseases, United States, Vital and Health Statistics, Series 2, No. 66, DHEW Pub. No. (HRA) 76-1340.*

Significant coding changes during the Eighth Revision.—Since 1968 the use of an automated system for obtaining the underlying cause requires special coding procedures in NCHS. (See Quality control procedures under Quality of Data.) The automated system was designed to assign the underlying cause according to the international rules just as if a manual process were to be used.

Beginning with 1969 a special four-digit subcategory, Chronic obstructive lung disease (*519.3), has been added to obtain the number of certificates

on which medical certifiers have entered this more general term rather than a more specific diagnosis of chronic bronchitis, emphysema, or asthma. The number of certificates assigned to (*519.3) increased from 2,704 for 1969 to 28,613 for 1978. It is necessary to add together the number of deaths assigned to this new four-digit category and the number of deaths assigned to Bronchitis, emphysema, and asthma (ICDA Nos. 490-493) to obtain a measure of mortality from all chronic obstructive lung diseases.

To provide that deaths would not be assigned to Chronic obstructive lung disease (*519.3) if a more specific diagnosis such as chronic bronchitis, emphysema, or asthma also appeared on the death certificate, the coding procedures were updated for 1971 and 1972 data years in accordance with the following linkages:

*519.3 Chronic obstructive lung disease without mention of asthma, bronchitis, or emphysema

*Excludes conditions in *519.3 with conditions in:*

490	Bronchitis (491) (Chronic bronchitis)
491	(Chronic bronchitis) (491)
492	(Emphysema) (492)
493	(Asthma) (493)

But the limitation imposed by these linkage provisions did not alter the upward trend in the number of deaths assigned to Chronic obstructive lung disease without mention of asthma, bronchitis, or emphysema (*519.3). The number of deaths assigned to (*519.3) increased from 6,321 for 1971 to 8,210 for 1972.

Under the Eighth Revision of the ICDA, deaths assigned to chronic obstructive lung disease or chronic obstructive pulmonary disease were assigned to Other diseases of lung (ICDA No. 519.2). Despite the transfer of these deaths from this category to the new category Chronic obstructive lung disease (No. *519.3), the number of deaths assigned to Other diseases of lung (ICDA No. 519.2) also continued to increase—from 1,306 deaths for 1969 to 2,318 for 1978.

Also beginning with 1971 a special four-digit subcategory (*E854.8) has been added to identify Acute narcotism, not otherwise specified, whether or not the circumstances were undetermined. Also, a preference will be given to Drug dependence (ICDA No. 304) when a statement of drug dependence or a synonymous term appears on the certificate with mention of poisoning by certain addictive drugs.

In addition, beginning with 1971 the term "cerebral sclerosis (general)" is classified to Generalized ischemic cerebrovascular disease (ICDA No. 437) rather than to Other demyelinating diseases of central

nervous system (ICDA No. 341). As a result of this transfer, the number of deaths assigned to this latter category decreased from 569 for 1970 to 96 for 1971.

For 1973 the significant coding changes were concerned with the sudden infant death syndrome (SIDS).

SIDS, frequently called crib death or cot death, has been defined as the sudden and unexpected death of a previously healthy infant (usually between 1 and 6 months of age) which remains unexplained after careful post mortem studies. SIDS almost always occurs during sleep periods. This phenomenon seldom occurs in an infant under 1 month or over 1 year of age. There are no specific symptoms identifiable with SIDS. Therefore, SIDS cannot be predicted, even by a physician, and in the light of present knowledge, SIDS cannot be prevented. An autopsy usually reveals congestion and edema of the lungs and minor inflammatory changes in the respiratory system. In about 85 percent of the cases, intrathoracic petechial hemorrhages are found. However, evidence of a conventionally accepted lethal lesion(s) is lacking. Because of these characteristic features, experts and researchers in the field consider SIDS a clearly identifiable distinctive entity even though the cause and mechanism of death remain unknown.

Estimates of the number of SIDS deaths vary. Efforts to obtain accurate data on the incidence of SIDS have been hampered by a number of factors. Among these are the following:

1. The failure of a number of physicians, coroners, and medical examiners to diagnose and/or report SIDS as the cause of death.
2. The lack of uniformity in the terminology used to describe SIDS.
3. The absence of a category in the *Eighth Revision International Classification of Diseases, Adapted for Use in the United States* (ICDA), which identifies SIDS.
4. The reluctance on the part of certifiers to report conditions that they feel may be regarded as unacceptable by vital statistics offices.
5. The reporting of conditions, including incidental autopsy findings, that were in fact unrelated to death on the certificates of death for infants who actually died from SIDS.

NCHS has modified the ICDA and the procedures for classifying information recorded on the death certificate to facilitate the identification and analysis of data related to known and suspected cases of SIDS.

Three fourth-digit subdivisions have been created under ICDA category 795 (Sudden death). These subdivisions together with the inclusion terms are as follows:

*795.0	Sudden infant death syndrome, under 1 year of age
	Acute fatal infant syndrome
	Cause unknown
	Cot or crib death
	Died without sign of disease, so stated
	Found dead (in bed, cot, cradle, crib, etc.) (infant)
	Infant found in bed
	Other unknown and unspecified causes, so stated
	SDII, SID, SIDS, SUDI, SUID
	Sudden death (in infancy) (infant) (syndrome)
	(unattended) (unexpected) (unexplained)
	Undetermined (cause) (in infancy) (infant)
	Unexpected death (in infancy) (infant)
	Unexplained death (in infancy) (infant)
	Unknown (cause)
*795.1	Sudden death syndrome, 1 year of age
	The same terms under *795.0 when age is 1 year
*795.2	All other sudden deaths, age 2 years and over
	Died suddenly
	Fell dead
	Dropped dead
	Sudden death

It should be noted that two of the above subdivisions (i.e., *795.0 and *795.1) include several terms that were previously included under ICDA categories 796.2, Found dead (cause unknown), 796.3, Died without sign of disease, and 796.9, Other unknown and unspecified causes. The decision to include these terms in the categories that have been created for Sudden infant death syndrome, under 1 year of age, and Sudden death syndrome, 1 year of age, was made after consultation with experts in the field. This decision was based on conclusions drawn from a recent study that relatively few infant deaths that were not sudden and unexpected are certified as found dead, died without sign of disease, or other unknown and unspecified causes.

The third subdivision (i.e., *795.2) does not include terms previously classifiable to ICDA categories 796.2, 796.3, or 796.9. Coders should continue to classify these terms to categories 796.2, 796.3, and 796.9 if the decedent was 2 years of age or over.

A distinction has been made between Sudden infant death syndrome, under 1 year of age, and Sudden death syndrome, 1 year of age (but under 2 years of age), because there is some difference of opinion about whether SIDS does in fact occur at ages 1 year and over. National data for 1973, the first year NCHS used the new coding rules, show 3,264 deaths coded to category *795.0 and 75 deaths coded to category *795.1.

Apparently, some vital statistics offices have, perhaps unintentionally, created the impression that SIDS is not an acceptable cause of death. This is unfortunate since it is important that SIDS be cited officially as the cause of death when the certifier believes this to be the case. This diagnosis as well as

other terms that are being used to describe SIDS should be accepted as a valid cause of death without querying the certifier. Past experience has shown that some certifiers are reluctant to use terminology that they have reason to believe will be queried by vital statistics offices.

Coding in 1978.—The National Center for Health Statistics usually prepares for its cause-of-death coding clerks an instruction manual which contains decisions and interpretations that apply each year. These manuals are revised annually, chiefly to bring coding procedures into alignment with new developments in reporting practices and in medical opinions as to the etiology and causal relationship of diseases and to eliminate inconsistencies in coding procedures.²² No significant coding changes occurred for 1978.

Medical certification.—The use of a standard classification list, although essential for State, regional, and international comparison, does not assure strict comparability of the tabulated figures. A high degree of comparability between areas could be attained only if all records of cause of death were reported with equal accuracy and completeness. The medical certification of death can be made only by a qualified person, usually a physician, a medical examiner, or a coroner. Therefore, the reliability and accuracy of cause-of-death statistics are, to a large extent, governed by the ability of the medical attendant to make the proper diagnosis and by the care with which he completes the death certificate.

The quality of the basic data reported on the death certificate is of fundamental importance in the interpretation of cause-of-death statistics. A pilot study was based on a sample of deaths occurring in Pennsylvania during 3 months in 1956. A representative sample of certificates was selected for particular causes of death. Questionnaires were sent to the physicians who had signed the certificates asking for the diagnostic methods and pertinent findings on which the medical certification of death was based. The returns were reviewed along with the original cause-of-death statement and rated for quality (type and amount) of supporting diagnostic information. For 39 percent of the cases the diagnostic data given were sketchy, and for 58 percent the information was considered good or very good. The quality of the diagnostic information varied considerably with the cause of death. It was concluded that in Pennsylvania the diagnostic data for many disease categories pro-

vided an adequate base for medical certification of the cause of death.²³

In a later followback study conducted by NCHS, a national sample of deaths occurring in July and August 1960 was selected from the 10-percent Current Mortality Sample. A questionnaire was sent to the physician, coroner, or medical examiner signing the death certificate and to the hospitals and others suggested by the medical examiner as possible added sources of diagnostic information. Eighty-seven percent of the medical certifiers returned a questionnaire with some kind of response. Of those returned, 14 percent contained no useful information. The forms were reviewed by two cardiologists to determine whether or not the cause of death assigned was supported by the diagnostic information provided by the certifier. The results showed that "for cardiovascular-renal diseases as a whole, it is estimated that 70 to 75 percent of the deaths so classified may be considered as a reasonable inference or better."²⁴

One index of the quality of reporting causes of death is the proportion of death certificates coded to the Eighth Revision category numbers 780-792, 795, and 796, which are the rubrics for Symptoms and other ill-defined conditions. While there are cases for which it is not possible to determine the causes of death, this proportion indicates the care and consideration given to the certification by attending physicians. It may also be used as a rough measure of the specificity of the medical diagnoses made by the physicians in various areas and, to a small degree, the extent to which autopsies are performed and their findings used in determining the underlying cause of death entered on the death certificate. In 1978, 1.6 percent of all reported deaths in the United States were assigned to ill-defined or unknown causes. However, this percentage varied among the States, from 0.4 percent for Rhode Island to 7.6 percent for Mississippi.

Ranking causes of death.—The causes included in the List of 69 Selected Causes of Death have been ranked on the basis of the number of deaths assigned to each cause. Two group titles—Major cardiovascular diseases and Symptoms and ill-defined conditions—are not ranked. In addition, category titles that begin with the words "Other" or "All other" are not ranked. The remaining titles are ranked to determine the leading causes of death. When one of the titles

²²National Center for Health Statistics: Vital statistics, instructions for classifying the underlying cause of death, 1976-78. *NCHS Instruction Manual*, Part 2a. Health Resources Administration. Rockville, Md., Dec. 1976.

²³For a more complete report see "Inquiry Into Diagnostic Evidence Supporting Medical Certifications of Death," by I. M. Moriyama and others, *Am. J. Pub. Health*, Vol. 48, No. 10, pp. 1376-1387.

²⁴Moriyama, I. M., and others: Evaluations of Diagnostic Information Supporting Medical Certification of Cardiovascular Disease Deaths. Paper presented at a meeting of the American Public Health Association, Kansas City, Mo., Nov. 13, 1963.

that represents a subtotal is ranked, as in the case of Tuberculosis, all forms, its component parts (in this case, Tuberculosis of respiratory system and Tuberculosis, other forms) are not ranked.

Maternal deaths

Maternal deaths are those for which the certifying physician has designated a maternal condition as the underlying cause of death. The maternal conditions are those assigned to Complications of pregnancy, childbirth, and the puerperium (630-678).

Report of autopsy

Prior to 1972 the year 1958 was the last year for which autopsy data were tabulated. For 1972-78 all registration areas requested information on the death certificate as to whether autopsies were performed. For 1978 autopsies were reported on 303,134 death certificates (15.7 percent of the total, table 1-28).

Information as to whether the autopsy findings were used in determining the causes of death were tabulated for 1972-77 for all but eight or nine registration areas. The autopsy findings used item was deleted from the 1978 Standard Certificate of Death.

For six of the cause-of-death categories shown in table 1-29, autopsies were reported as performed for 50 percent or more of all deaths (Whooping cough; Meningococcal infections; Abortions; Other complications of pregnancy, childbirth, and the puerperium; Homicide; and Other external causes).

There were eight other categories for which 40 percent or more death certificates reported autopsies. Autopsies were reported for 9.7 percent of the major cardiovascular diseases. Among all causes other than the major cardiovascular group, autopsies were reported for 21.8 percent of all deaths.

Mortality by month and date of death

Deaths by month have been regularly tabulated and published in the annual report for each year beginning with data year 1900. For 1978, deaths by month are shown in this report in tables 1-20, 1-21, 1-24, 1-30, 2-10, 2-12, and 3-9.

The year 1972 was the first data year for which date of death was published (table 1-30). Unpublished data for selected causes by date of death for 1962 are available in NCHS.

Number of deaths by date of death in this report are shown for 1978 for the total number of deaths and for the number of deaths for the following three causes, for which the greatest general interest in date of occurrence of death has been expressed: Motor vehicle accidents, Suicide, and Homicide.

These data in table 1-30 show the frequency distribution of deaths for the selected causes by day of week. They also make it possible to identify holidays with peak numbers of deaths from specified causes.

QUALITY OF DATA

Completeness of registration

Although every State has adopted a law requiring the registration of births, deaths, and fetal deaths, these laws are not uniformly observed. In most areas practically all births and deaths are registered. For some areas, however, there is enough underregistration to affect the use of the statistics for certain purposes.

Quantitative information on completeness of death registration is not available. One condition for admission to the national registration areas was a demonstrated registration completeness of at least 90 percent, although the method used in testing completeness was subject to considerable error. It is believed that in the past, death registration for the United States has been more complete than birth registration, but the difference now may be rather small. There is evidence, however, that in certain isolated areas, incomplete registration is still a problem. For example, a study made in a few selected counties of Tennessee, where the death rates for 1949-51 were unusually low, served to locate a number of unregistered deaths.²⁵ A similar situation may exist in other States.

As previously stated, reporting requirements for fetal deaths vary from State to State, and registration is probably incomplete in all areas.

Massachusetts data

The 1964 statistics for deaths exclude approximately 6,000 events registered in Massachusetts, primarily to residents of the State. Microfilm copies of these records were not received by NCHS. Figures for the United States and the New England Division are also somewhat affected.

Quality control procedures

Demographic items on the death certificate.—As previously indicated, for 1978 the mortality data for these items were obtained from two sources: (1) Microfilm images of the original certificates furnished by 14 States, the District of Columbia, and the Virgin Islands, and photocopies from Guam; and (2) records

²⁵Tennessee Department of Public Health: Results of survey of death-registration completeness. *The Spotlight*, Jan. 1954.

on data tape furnished by the remaining 36 States, New York City, and Puerto Rico. For the 14 States, the District of Columbia, the Virgin Islands, and Guam that send only copies of the original certificates, the demographic items on a 10-percent sample of the certificates were independently verified. For the 33 States, New York City, and Puerto Rico that furnished records on data tape before 1978, the demographic items on about 200 records per State per month were independently verified. For the three States (Indiana, Utah, and Washington) that furnished records on data tape for the first time for 1978, the demographic items were independently verified for a 50-percent sample for the first 3 months, and for about 200 records per area for each of the last 9 months of 1978.

Except for cause-of-death coding discussed below, the above-mentioned verification procedures involve controlling two types of error (coding and entering into the data record tape) at the same time, and the error rates are a combined measure of both types. While it may be assumed that the entering errors are randomly distributed across all items on the record, this assumption cannot be made as readily for coding errors. Systematic errors in coding infrequent events may escape detection during sample verification. This type of error is partially controlled by reverifying randomly selected lots from each operator's work.

Medical items on the death certificate.—The "Automated Classification of Medical Entities" (ACME), a computer system for assigning the underlying cause of death which was introduced in 1968, was used for assigning the 1978 underlying causes of death.²⁶ The ACME rules for coding conditions are very specific, fewer in number, and far less complicated than the international rules for selecting the underlying cause of death.²⁷

The coder produces condition codes which the ACME computer program matches against decision tables to select the underlying cause of death for each record according to the international rules. These decision tables serve two primary purposes. They provide a comprehensive guide for the relationship between conditions classifiable to different categories in the ICDA when applying rules of selection and modification, and they also provide decisions used when the underlying cause is assigned by the ACME system. The tables were developed from the decisions and conclusions employed by NCHS in arriving at the underlying causes of death. Relationships between medical conditions involve varying or contradictory

opinions. Therefore further refinements of the decision tables will be required periodically.

The decision table instruction manual for 1970-71,²⁸ with some modifications, was also used for 1972-78.

For the States that did not furnish State-coded medical data, the medical items were coded for 100 percent of death records. Then the medical items on a 10-percent sample of the records were independently verified. For the seven States (Iowa, Louisiana, Michigan, Nebraska, North Carolina, Virginia, and Wisconsin) that furnished State-coded medical data, the medical items were independently verified for about 200 records per State per month.

For cause-of-death coding, systematic errors in coding infrequent events are controlled by listing the rare and impossible codes from the computer and reverifying the cause-of-death assignment. Similar procedures are utilized to assure consistency between cause-of-death and age and/or sex items.

Demographic items on reports of fetal death.—As previously stated, reports of fetal death for 1978 are based on fetal-death records received. Moreover the coding and entering on data tape of fetal-death records were verified completely because of their relatively small number. (Again for 1978, as for prior years, medical items on the reports of fetal death were not coded.)

Other control procedures.—After completing coding and entering on data tape, record counts are balanced against control totals for each shipment of records from a registration area. Impossible codes are selected out during the editing processes on the computer and are either corrected by reference to the source record or adjusted by arbitrary code assignment. All subsequent operations in tabulating and in table preparation are verified either during the computer processing or by statistical clerks.

Estimates of errors arising from 50-percent sample for 1972

Death statistics for 1972 in this report (excluding fetal-death statistics) are based on a 50-percent sample of all deaths occurring in the 50 States and the District of Columbia.

A description of the sample design and a table of the percent errors of the estimated numbers of deaths by size of estimate and total deaths in the area are shown in the Technical Appendix of *Vital Statistics of the United States*, Volume II, Part A, 1972.

²⁶Automated Classification of Medical Entities (ACME) for Selection of Causes of Death. Unpublished paper presented at the annual meeting of the American Public Health Association, Houston, Tex., Oct. 1970.

²⁷See footnote 22.

²⁸National Center for Health Statistics: Vital statistics, ICDA Eighth Revision decision tables for classifying underlying causes of death, 1970-1971. *NCHS Instruction Manual*, Part 2a. Public Health Service. Rockville, Md., 1972.

COMPUTATION OF RATES AND OTHER MEASURES

Population bases

The death rates shown in this report were computed on the basis of population statistics published or made available by the U.S. Bureau of the Census. Rates for 1940, 1950, 1960, and 1970 are based on the populations enumerated as of April 1 in the censuses of those years. Rates for all other years are based on the estimated midyear (July 1) population for the respective years. Population estimates for 1971-78 are based on the results of the 1970 Census of Population, estimates of census coverage, and data for components of change. Inaccuracies occur in these data sources particularly for the older population. Those inaccuracies are reflected in age-specific death rates and life table values, particularly in the age groups 65-69 years and over for All other males and females.

Population estimates for 1978.—Estimates of the total resident population of the United States by age, race, and sex in 1978 are published by the Bureau of the Census in *Current Population Reports*, Series P-25, Number 870, and are shown in table 6-2. Total estimated populations for States shown in table 6-3 are published in Series P-25, Number 876; populations by broad age groups were prepared by the Bureau of the Census for NCHS and do not appear in the P-25 Series.

The populations of the 50 largest SMSA's and their component counties for July 1, 1978 are published by the Bureau of the Census in *Current Population Reports*, Series P-25, Number 873.

Population estimates for 1971.—The rates by age, color, and sex in Section 1 of *Vital Statistics of the United States, 1971*, were based on provisional estimates of the 1971 population; but the life table values for 1971 in section 5 were based on revised estimates of the 1971 population. These revised estimates are shown in *Current Population Reports*, Series P-25, No. 519, Washington, D.C., 1974. These revised estimates differed considerably from the provisional estimates for a number of age-color-sex groups. Table 6-4 of the report for 1971 shows, for example, that the revised estimates are 7 to 25 percent lower than the provisional estimates for persons other than white in the youngest (under 10 years) and oldest (80 years and over) age groups. The limited number of statistics for 1971 shown in this report are based on the revised populations. Also available in NCHS is a set of unpublished trend tables for which the rates for 1971 are based on the revised population. These tables include age-color-sex-cause specific death rates for both the List of 69 Selected Causes of Death and the List of 281 Selected Causes of Death.

Population estimates for 1961-69.—Comparison of revised populations for 1969 (and several earlier years since 1960) with the provisional populations which were used to calculate annual death rates for these same age, color, and sex groups indicated a similar problem. The rates shown in tables 1-1, 1-2, 1-3, and 1-7, the life table values in table 5-5, and the population estimates in table 6-1 for each year in the period 1961-69 have been revised to reflect modified population bases, as published in the U.S. Bureau of Census, *Current Population Reports*, Series P-25, No. 519. The data shown in tables 1-10 and 1-11 for 1961-69 have not been revised.

Rates and ratios based on live births.—Infant, neonatal, and maternal mortality rates, and fetal death rates and ratios are computed on the basis of the number of live births instead of the estimated population under 1 year of age.

New Jersey.—As previously indicated, data by race or color are not available for New Jersey for 1962 and 1963. Therefore for 1962 and 1963 the National Center for Health Statistics estimated a population by age, color, and sex excluding New Jersey for rates shown by color. The methodology used to estimate the revised population excluding New Jersey is discussed in the Technical Appendixes of the 1962 and 1963 reports.

Age-adjusted death rates

Age-adjusted death rates shown in this report are computed by using the distribution in 10-year age intervals of the enumerated population of the United States in 1940 as the standard population. Each figure represents the rate that would have existed if the age-specific rates of the particular year prevailed in a population whose age distribution was like that of the United States in 1940. The rates for the total population and for each color-sex group were adjusted separately, using the same standard population. It is important not to compare age-adjusted death rates directly with crude rates shown in other tables. The standard population, on the basis of one million total population, is as follows:

Age	Number
All ages	1,000,000
Under 1 year	15,343
1-4 years	64,718
5-14 years	170,355
15-24 years	181,677
25-34 years	162,066
35-44 years	139,237
45-54 years	117,811
55-64 years	80,294
65-74 years	48,426
75-84 years	17,303
85 years and over	2,770

Life tables

United States abridged life tables are constructed by reference to a standard table.²⁹ Life tables for the decennial period 1969-71 are used as the standard life tables in constructing the 1970-78 abridged life tables; life table values for 1970-73 appearing in this publication have been revised. Abridged life tables appearing in *Vital Statistics of the United States* for 1970-73 were constructed using the 1959-61 decennial life tables as the standard tables, since the 1969-71 decennial life tables were not yet available. In addition, life table values for 1951-59 and 1961-69 appearing in this publication are based on revised intercensal estimates of the populations for those years. As such, these life table values may differ from the life table values for those years published in previous volumes.

There has been an increasing interest in data on average length of life (e_0) for single calendar years prior to the initiation of the annual abridged life table series in 1945. The figures in table 5-5 for the color and sex groups for the following years were estimated to meet these needs.³⁰

Years	Color and sex groups
1900-1945	Total
1900-1947	Male
1900-1947	Female
1900-1950	White
1900-1944	White, male
1900-1944	White, female
1900-1950	All other
1900-1944	All other, male
1900-1944	All other, female

The geographic areas covered in life tables before 1929-31 were limited to the death-registration areas. Life tables for 1919-21 were constructed using mortality data from the 1920 death-registration States—34 States and the District of Columbia. For 1900-1902 and 1909-1911, life tables were constructed using mortality data from the 1900 death-registration States—10 States and the District of Columbia. The tables for the period 1929-31 through 1978 cover the conterminous United States. United States life tables include data for Alaska beginning in

²⁹National Center for Health Statistics: Comparison of two methods of constructing abridged life tables by reference to a "standard" table, by M. G. Sirken. *Vital and Health Statistics*. PHS Pub. No. 1000-Series 2-No. 4. Public Health Service. Washington, U.S. Government Printing Office, 1966.

³⁰For estimating procedure see National Office of Vital Statistics, "Estimated Average Length of Life in the Death-Registration States," by T. N. E. Greville and G. A. Carlson, *Vital Statistics—Special Reports*, Vol. 33, No. 9, Public Health Service. Washington, D.C., 1951.

1959 and for Hawaii beginning in 1960. Decennial life table values for the period 1959-61 were derived from data which include both Alaska and Hawaii for each year.

Random variation of death rates

The numbers of deaths reported for a community represent complete counts of such events. As such, they are not subject to sampling error, although they are subject to errors in the registration process. However, when the figures are used for analytical purposes, such as the comparison of rates over a time period or for different areas, the number of events that actually occurred may be considered as one of a large series of possible results that could have arisen under the same circumstances.³¹ The probable range of values may be estimated from the actual figures according to certain statistical assumptions.

In general, distributions of vital events may be assumed to follow the binomial distribution. Estimates of standard error and tests of significance under this assumption are described in most standard statistics texts. When the number of events is large, the standard error, expressed as a percent of the number or rate, is usually small.

When the number of events is small (perhaps less than 100) and the probability of such an event is small, considerable caution must be observed in interpreting the conditions described by the figures. This is particularly true for infant mortality rates, cause-specific death rates, and death rates for counties. Events of rare nature may be assumed to follow a Poisson probability distribution. For this distribution, a simple approximation may be used to estimate the error, as follows:

If N is the number of deaths and R is the corresponding rate, the chances are 19 in 20 that

1. The "true" number of events lies between

$$N - 2\sqrt{N} \text{ and } N + 2\sqrt{N}$$

2. The "true" rate lies between

$$R - 2\frac{R}{\sqrt{N}} \text{ and } R + 2\frac{R}{\sqrt{N}}$$

If the rate R corresponding to N events is compared with the rate S corresponding to M events, the difference between the two rates may be regarded as statistically significant, if it exceeds

³¹National Office of Vital Statistics: Standard error of the age-adjusted death rate, by C. L. Chiang. *Vital Statistics—Special Reports*, Vol. 47, No. 9. Public Health Service. Washington, D.C., Aug. 1961.

$$2\sqrt{\frac{R^2}{N} + \frac{S^2}{M}}$$

For example, if the observed death rate for Community A was 10.0 per 1,000 population and if this rate were based on 20 recorded deaths, then the chances are 19 in 20 that the "true" death rate for that community lies between 5.5 and 14.5 per 1,000 population. If the death rate for Community A of 10.0 per 1,000 population were being compared with a rate of 20.0 per 1,000 population for Community B which is based on 10 recorded deaths, then the difference between the rates for the two communities is 10.0. This difference is less than twice the standard error of the difference

$$2\sqrt{\frac{(10.0)^2}{20} + \frac{(20.0)^2}{10}}$$

of the two rates which is computed to be 13.4. From this, it is concluded that the difference between the rates for the two communities is not statistically significant.

Net census undercount

Mortality statistics may be subject to underregistration of deaths and misclassification of the demographic characteristics reported on the death certificate. Another source of error in the death statistics concerns the population figures used in computing death rates. Intercensal population estimates are affected by undercounts or overcounts in the decennial census. The net census undercount is determined by both undercount and by misclassification of demographic characteristics. The effect of the net census undercounts (or overcounts) on the death rates also depends on the misreporting of age on the death certificate.³² While mortality statistics are not adjusted for possible age misreporting, mortality rates based on populations adjusted for net census undercount may be more accurate than rates based on the unadjusted populations. Thus it is useful to consider the possible impact of net census undercount on death statistics.

The U.S. Bureau of the Census has conducted extensive research to evaluate the completeness of

³²National Center for Health Statistics: Comparability of age on the death certificate and matching census records, United States, May-August 1960, by T. Z. Hambright. *Vital and Health Statistics*. PHS Pub. No. 1000-Series 2-No. 29. Public Health Service. Washington. U.S. Government Printing Office, June 1968.

coverage of the U.S. population (including undercount and misstatement of age, race, and sex) in the last three decennial censuses—1950, 1960, and 1970. These studies provide estimates of the national population that was not enumerated in the respective censuses, by age, color, and sex, as well as a set of exploratory estimates of coverage for States.^{33,34} The reports for 1970 include ranges of estimates of net census undercount based on alternative methodological assumptions for age, race, and sex subgroups of the national population and illustrative estimates for individual States.

These evaluative studies indicate that there is differential coverage in the census among the population subgroups; that is, some age, color, and sex groups are more completely enumerated than others. To the extent that these estimates are valid, that the net undercounts are substantial, and that they vary among subgroups and geographic areas, net census undercounts can have consequences for vital statistics measures.³⁵

The impact of net census undercounts on vital statistics measures can be of several types: (1) Effects on levels of the observed rates, (2) effects on differences among groups; and (3) effects on the levels and group differences shown by summary measures such as age-adjusted rates and life expectancy.

Levels and differentials.—The levels of vital statistics rates are modified by adjustments for persons who were not counted in the census of population. If adjustments are made for persons who were not counted in the census of population, the size of the denominators is generally increased and the rate is smaller than without an adjustment. The adjusted rates for 1970 can be computed by multiplying the reported rates by ratios of the census-level population to the population adjusted for the estimated net census undercount (table 6-4). A ratio of less than 1.0 indicates a net census undercount and a corresponding decrease in the death rate. A ratio greater than 1.0 indicates a net census overcount and would result in an increase in the death rate.

In general, females were more completely enumerated than males, and the white population was more completely enumerated than the all other

³³U.S. Bureau of the Census: Developmental estimates of the coverage of the population of States in the 1970 Census—demographic analysis. *Current Population Reports*. Series P-23, No. 65. Washington. U.S. Government Printing Office, Dec. 1977.

³⁴U.S. Bureau of the Census: *1970 Census of Population and Housing*. Estimates of coverage of the population by sex, race, and age—demographic analysis. Evaluation and Research Program. PHC(E)-4. Washington. U.S. Government Printing Office, 1974.

³⁵Ibid.

population in the 1970 Census of Population. The age groups 25-34 and 35-44 years were most underenumerated for males, while the age group 75-84 years was most underenumerated for females. There was an estimated 5-percent underenumeration of white males and a 13-percent underenumeration of all other males in the age group 25-34 years as well as a 16-percent underenumeration of all other males in the age group 35-44 years. An estimated 6 percent of white females and 15 percent of all other females were not enumerated in the age group 75-84 years. Also for the age group under 1 year, there was an 11-percent underenumeration for the all other population compared with only 1 percent underenumeration in the same age group for the white population.

Hence if vital statistics measures are calculated with adjustments for net census undercounts for each of these subgroups, the resulting rates will be differentially reduced from their original levels; that is, rates for those groups with the greatest estimated undercounts will show the greatest relative reductions due to these adjustments. Thus the ratio of mortality between the rates for males and females, and between the rates for the white and the all other population will usually be reduced.

Similarly the differences between the death rates among subgroups of the population by cause of death would be affected by adjustments for net census undercounts. For example, for the age group 25-34 years in 1970, the ratio of the rates for Homicide for all other males to that for white males is 10.6, while the ratio of the death rates corrected for net census undercount is 9.6. Therefore the adjustment for net census undercount would reduce the ratio by 9.4 percent. For Malignant neoplasms of respiratory system, also for the age group 25-34 in 1970, the ratio of the death rate for males to the death rate for females would decrease from 2.5 to 2.3 if the populations were corrected for net census undercount. This reflects the greater underenumeration among males in this age group.

Summary measures.—The effect of net census undercount on age-adjusted death rates depends on

the underenumeration of each age group and on the distribution of deaths by age. Thus the age-adjusted death rate in 1970 for all causes for the United States would decrease from 7.1 deaths per 1,000 population to 7.0 deaths per 1,000 population if the age-specific death rates were corrected for net census undercount.

For deaths from Homicide the age-adjusted death rate for white males would decrease by 2.7 percent, from 7.3 to 7.1 deaths per 100,000 population, while the age-adjusted death rate for black males would decrease by 10.4 percent, from 72.8 to 65.2 deaths per 100,000 population.

If death rates by age are reduced, then the corresponding life expectancy at birth based on these rates would increase. Thus the general effect of correcting the death rates for the net census undercount is to increase the estimate of life expectancy at birth. In addition the differential underenumeration among race-sex groups would lead to a greater increase in the life expectancy for some groups than for others. For the white population, which experienced less underenumeration in the 1970 Census of Population (table 6-4), the effect of adjustment for net census undercount would, accordingly, be less than that for the black population.

SYMBOLS USED IN TABLES

Data not available	---
Category not applicable . . . . .	...
Quantity zero	-
Quantity more than 0 but less than 0.05	0.0
Figure does not meet standards of reliability or precision	*

SECTION 6 - TECHNICAL APPENDIX

Table 6-1. Population of Birth- and Death-Registration States, 1900-1932, and United States, 1900-1978

[Population enumerated as of April 1 for 1940, 1950, 1960, and 1970 and estimated as of July 1 for all other years]

Year	United States ¹		Year	United States ¹		Birth-registration States		Death-registration States	
	Population including Armed Forces abroad	Population residing in area		Population including Armed Forces abroad	Population residing in area	Number of States ²	Population residing in area	Number of States ²	Population residing in area
1978	218,717,000	218,228,000	1938	129,969,000	129,824,939	...	...	...	...
1977	216,817,000	216,332,000	1937	128,961,000	128,824,829	...	...	...	...
1976	215,116,000	214,649,000	1936	128,181,000	128,053,180	...	...	...	...
1975	213,546,000	213,032,000	1935	127,362,000	127,250,232	...	...	...	...
1974	211,909,000	211,390,000	1934	126,485,000	126,373,773	...	...	...	...
1973	210,404,000	209,851,000	1933	125,690,000	125,578,783	...	...	...	...
1972	208,842,000	208,230,000	1932	124,849,000	124,840,471	47	118,903,899	47	118,903,899
1971	207,045,000	206,212,000	1931	124,149,000	124,039,648	46	117,455,229	47	118,148,987
1970	204,270,000	203,211,926	1930	123,188,000	123,076,741	46	116,544,846	47	117,238,278
1969	202,677,000	201,385,000	1929	---	121,769,939	46	115,317,450	46	115,317,450
1968	200,706,000	199,399,000	1928	---	120,501,115	44	113,836,160	44	113,836,160
1967	198,712,000	197,457,000	1927	---	119,036,062	40	104,320,830	42	107,084,532
1966	196,560,000	195,576,000	1926	---	117,399,225	35	90,400,590	41	103,822,683
1965	194,303,000	193,526,000	1925	---	115,831,983	33	88,294,564	40	102,031,555
1964	191,889,000	191,141,000	1924	---	114,113,463	33	87,000,295	39	99,318,096
1963	189,242,000	188,483,000	1923	---	111,946,945	30	81,072,123	38	96,788,197
1962	186,538,000	185,771,000	1922	---	110,054,778	30	79,580,746	37	92,702,901
1961	183,691,000	182,992,000	1921	---	108,541,489	27	70,807,090	34	87,814,447
1960	179,933,000	179,323,175	1920	---	106,466,420	23	63,597,307	34	86,079,263
1959	177,264,000	176,513,000	1919	105,063,000	104,512,110	22	61,212,076	33	83,157,982
1958	174,141,000	173,320,000	1918	104,550,000	103,202,801	20	55,153,782	30	79,006,412
1957	171,274,000	170,371,000	1917	103,414,000	103,265,913	20	55,197,952	27	70,234,775
1956	168,221,000	167,306,000	1916	---	101,965,984	11	32,944,013	26	66,971,177
1955	165,275,000	164,306,000	1915	---	100,549,013	10	31,096,897	24	61,894,847
1954	162,391,000	161,164,000	1914	---	99,117,567	...	...	24	60,963,309
1953	159,565,000	158,242,000	1913	---	97,226,814	...	...	23	58,156,740
1952	156,954,000	155,687,000	1912	---	95,331,300	...	...	22	54,847,700
1951	154,287,000	153,310,000	1911	---	93,867,814	...	...	22	53,929,644
1950	151,132,000	150,697,361	1910	---	92,406,536	...	...	20	47,470,437
1949	149,186,000	148,665,000	1909	---	90,491,525	...	...	18	44,223,513
1948	146,631,000	146,093,000	1908	---	88,708,976	...	...	17	38,634,759
1947	144,126,000	143,446,000	1907	---	87,000,271	...	...	15	34,552,837
1946	141,389,000	140,054,000	1906	---	85,438,556	...	...	15	33,782,288
1945	139,929,000	138,481,000	1905	---	83,819,666	...	...	10	21,767,080
1944	138,397,000	137,685,000	1904	---	82,164,974	...	...	10	21,332,076
1943	136,739,000	134,245,000	1903	---	80,632,152	...	...	10	20,843,222
1942	134,860,000	133,920,000	1902	---	79,160,196	...	...	10	20,582,907
1941	133,402,000	133,121,000	1901	---	77,585,128	...	...	10	20,237,453
1940	131,820,000	131,669,275	1900	---	76,094,134	...	...	10	19,965,446

¹Alaska included beginning 1959 and Hawaii, 1960.

²The District of Columbia is not included in "Number of States," but it is represented in all data shown for each year.

Source: The populations in this table were published by the U.S. Bureau of the Census, unless otherwise specified, in *Current Population Reports, Series P-25*. The numbers of these reports together with the years for which data were furnished are shown below:

Year for which data were furnished	Series P-25 number	Year for which data were furnished	Series P-25 number	Year for which data were furnished	Series P-25 number
1978	870	1973	(a)	1930-39	499 and (c)
1977	721	1961-69	519	1920-29	(c)
1975-76	643	1960	(b)	1917-19	499 and (c)
1974	529	1951-59	310	1900-16	(c)
1971-73	519	1940-59	499		

¹U.S. Bureau of the Census, *U.S. Census of Population: 1970, Number of Inhabitants, Final Report PC(1)-A1, United States Summary, 1971*

²U.S. Bureau of the Census, *U.S. Census of Population, 1960, Number of Inhabitants, PC(1)-A1, United States Summary, 1964*

³National Office of Vital Statistics, *Vital Statistics Rates in the United States, 1900-1940, 1947*.

SECTION 6 – TECHNICAL APPENDIX

Table 6-2. Estimates of Total Resident Population of the United States, by Age, Race, and Sex: July 1, 1978

[Figures include Armed Forces stationed in the United States and exclude those stationed outside the United States. Due to rounding to the nearest thousand, detailed figures may not add to totals]

Age	All races			White			All other					
	Both sexes	Male	Female	Both sexes	Male	Female	Total			Black		
							Both sexes	Male	Female	Both sexes	Male	Female
All ages ---	218,228,000	106,120,000	112,108,000	188,657,000	92,035,000	96,622,000	29,571,000	14,085,000	15,486,000	25,487,000	12,119,000	13,369,000
Under 1 year -----	3,203,000	1,639,000	1,564,000	2,644,000	1,355,000	1,289,000	559,000	283,000	275,000	474,000	240,000	234,000
1-4 years -----	12,174,000	6,225,000	5,950,000	9,991,000	5,121,000	4,870,000	2,183,000	1,104,000	1,079,000	1,862,000	943,000	920,000
5-9 years -----	16,895,000	8,623,000	8,272,000	13,959,000	7,144,000	6,815,000	2,937,000	1,479,000	1,458,000	2,540,000	1,279,000	1,261,000
10-14 years -----	18,589,000	9,479,000	9,111,000	15,483,000	7,915,000	7,568,000	3,107,000	1,564,000	1,543,000	2,745,000	1,380,000	1,364,000
15-19 years -----	21,013,000	10,647,000	10,366,000	17,716,000	8,997,000	8,718,000	3,297,000	1,649,000	1,648,000	2,906,000	1,451,000	1,456,000
20-24 years -----	20,263,000	10,118,000	10,144,000	17,302,000	8,700,000	8,602,000	2,961,000	1,418,000	1,543,000	2,549,000	1,215,000	1,334,000
25-29 years -----	17,959,000	8,897,000	9,062,000	15,506,000	7,767,000	7,741,000	2,451,000	1,130,000	1,321,000	2,049,000	949,000	1,100,000
30-34 years -----	15,852,000	7,829,000	8,024,000	13,834,000	6,907,000	6,928,000	2,018,000	922,000	1,096,000	1,651,000	754,000	897,000
35-39 years -----	13,034,000	6,353,000	6,682,000	11,397,000	5,616,000	5,781,000	1,638,000	737,000	901,000	1,393,000	628,000	765,000
40-44 years -----	11,311,000	5,505,000	5,806,000	9,871,000	4,856,000	5,015,000	1,440,000	649,000	790,000	1,228,000	556,000	672,000
45-49 years -----	11,364,000	5,540,000	5,824,000	9,969,000	4,892,000	5,077,000	1,395,000	648,000	747,000	1,182,000	552,000	630,000
50-54 years -----	11,827,000	5,699,000	6,129,000	10,525,000	5,095,000	5,430,000	1,302,000	603,000	699,000	1,121,000	521,000	599,000
55-59 years -----	11,241,000	5,365,000	5,876,000	10,099,000	4,834,000	5,265,000	1,142,000	531,000	611,000	1,005,000	466,000	539,000
60-64 years -----	9,436,000	4,419,000	5,017,000	8,548,000	4,015,000	4,533,000	887,000	404,000	483,000	792,000	357,000	435,000
65-69 years -----	8,576,000	3,803,000	4,773,000	7,650,000	3,398,000	4,252,000	926,000	405,000	521,000	850,000	364,000	486,000
70-74 years -----	6,364,000	2,687,000	3,677,000	5,817,000	2,442,000	3,375,000	547,000	245,000	302,000	481,000	210,000	271,000
75-79 years -----	4,171,000	1,631,000	2,540,000	3,842,000	1,487,000	2,356,000	329,000	145,000	184,000	266,000	114,000	153,000
80-84 years -----	2,748,000	973,000	1,774,000	2,517,000	882,000	1,634,000	231,000	91,000	140,000	196,000	74,000	122,000
85 years and over-	2,206,000	688,000	1,518,000	1,983,000	610,000	1,373,000	223,000	78,000	145,000	195,000	65,000	130,000

Source: U.S. Bureau of the Census: Current Population Reports, Series P-25, No. 870.

SECTION 6 - TECHNICAL APPENDIX

Table 6-3. Estimates of Total Resident Population, by Age, for the United States, Each Division and State, Guam, Puerto Rico, and Virgin Islands: July 1, 1978

[Figures include Armed Forces stationed in each area, and exclude Armed Forces stationed outside the United States. Due to rounding to the nearest thousand, detailed figures may not add to totals]

Division and State	Total	Under 5 years	5-19 years	20-44 years	45-64 years	65 years and over
United States	218,228,000	15,378,000	56,497,000	78,419,000	43,868,000	24,065,000
Geographic Divisions:						
New England	12,267,000	720,000	3,149,000	4,382,000	2,563,000	1,453,000
Middle Atlantic	36,825,000	2,258,000	9,205,000	12,790,000	8,190,000	4,380,000
East North Central	41,221,000	2,898,000	10,982,000	14,851,000	8,188,000	4,302,000
West North Central	17,036,000	1,186,000	4,420,000	5,972,000	3,326,000	2,132,000
South Atlantic	34,650,000	2,399,000	8,851,000	12,529,000	6,873,000	3,993,000
East South Central	13,960,000	1,071,000	3,723,000	4,922,000	2,699,000	1,544,000
West South Central	22,035,000	1,792,000	5,896,000	7,931,000	4,133,000	2,283,000
Mountain	10,364,000	922,000	2,800,000	3,757,000	1,918,000	969,000
Pacific	29,872,000	2,134,000	7,471,000	11,282,000	5,973,000	3,011,000
New England:						
Maine	1,092,000	76,000	291,000	369,000	224,000	133,000
New Hampshire	969,000	58,000	229,000	316,000	169,000	96,000
Vermont	487,000	34,000	133,000	177,000	88,000	55,000
Massachusetts	5,771,000	325,000	1,473,000	2,073,000	1,200,000	700,000
Rhode Island	932,000	53,000	236,000	320,000	202,000	121,000
Connecticut	3,116,000	174,000	787,000	1,127,000	680,000	348,000
Middle Atlantic:						
New York	17,746,000	1,093,000	4,438,000	6,249,000	3,870,000	2,095,000
New Jersey	7,316,000	450,000	1,855,000	2,540,000	1,646,000	824,000
Pennsylvania	11,763,000	715,000	2,912,000	4,001,000	2,674,000	1,461,000
East North Central:						
Ohio	10,732,000	743,000	2,832,000	3,861,000	2,173,000	1,124,000
Indiana	5,387,000	392,000	1,445,000	1,939,000	1,050,000	561,000
Illinois	11,238,000	800,000	2,935,000	4,018,000	2,281,000	1,204,000
Michigan	9,181,000	648,000	2,516,000	3,377,000	1,771,000	868,000
Wisconsin	4,683,000	315,000	1,254,000	1,656,000	913,000	545,000
West North Central:						
Minnesota	4,024,000	276,000	1,081,000	1,463,000	742,000	462,000
Iowa	2,906,000	198,000	757,000	988,000	585,000	377,000
Missouri	4,847,000	330,000	1,229,000	1,702,000	959,000	627,000
North Dakota	653,000	50,000	176,000	220,000	129,000	78,000
South Dakota	690,000	54,000	185,000	223,000	139,000	89,000
Nebraska	1,569,000	114,000	407,000	544,000	303,000	202,000
Kansas	2,347,000	164,000	585,000	832,000	469,000	297,000
South Atlantic:						
Delaware	584,000	40,000	155,000	219,000	115,000	55,000
Maryland	4,148,000	253,000	1,098,000	1,591,000	836,000	370,000
District of Columbia	671,000	41,000	164,000	266,000	128,000	72,000
Virginia	5,177,000	343,000	1,347,000	1,996,000	1,021,000	468,000
West Virginia	1,861,000	138,000	467,000	627,000	408,000	222,000
North Carolina	5,571,000	400,000	1,460,000	2,072,000	1,088,000	551,000
South Carolina	2,902,000	232,000	802,000	1,076,000	533,000	258,000
Georgia	5,075,000	396,000	1,381,000	1,906,000	920,000	473,000
Florida	8,661,000	556,000	1,977,000	2,777,000	1,826,000	1,524,000
East South Central:						
Kentucky	3,490,000	266,000	919,000	1,241,000	677,000	387,000
Tennessee	4,333,000	311,000	1,113,000	1,561,000	869,000	478,000
Alabama	3,728,000	282,000	998,000	1,312,000	727,000	409,000
Mississippi	2,409,000	212,000	693,000	806,000	426,000	270,000
West South Central:						
Arkansas	2,167,000	167,000	557,000	728,000	423,000	292,000
Louisiana	3,978,000	334,000	1,136,000	1,415,000	723,000	370,000
Oklahoma	2,843,000	214,000	709,000	1,000,000	563,000	356,000
Texas	13,047,000	1,077,000	3,494,000	4,788,000	2,424,000	1,265,000
Mountain:						
Montana	780,000	61,000	209,000	271,000	158,000	81,000
Idaho	682,000	84,000	239,000	304,000	167,000	87,000
Wyoming	425,000	38,000	112,000	153,000	87,000	36,000
Colorado	2,706,000	209,000	705,000	1,069,000	492,000	232,000
New Mexico	1,215,000	108,000	351,000	430,000	222,000	104,000
Arizona	2,373,000	208,000	627,000	822,000	445,000	271,000
Utah	1,317,000	163,000	382,000	463,000	207,000	102,000
Nevada	666,000	51,000	175,000	245,000	140,000	56,000
Pacific:						
Washington	3,793,000	265,000	968,000	1,433,000	725,000	401,000
Oregon	2,452,000	179,000	603,000	891,000	494,000	285,000
California	22,314,000	1,573,000	5,534,000	8,434,000	4,524,000	2,248,000
Alaska	411,000	42,000	125,000	176,000	58,000	10,000
Hawaii	902,000	75,000	241,000	348,000	172,000	87,000
Guam	113,800	---	---	---	---	---
Puerto Rico	3,358,000	---	---	---	---	---
Virgin Islands	95,900	---	---	---	---	---

Source U.S. Bureau of the Census Current Population Reports, Series P-25, Nos. 876 and 872, and official records

Table 6-4. Ratio of Census-Level Resident Population to Resident Population Adjusted for Estimated Net Census Undercount, by Age, Race, and Sex, United States: April 1, 1970

Age	All races			White			All other					
	Both sexes	Male	Female	Both sexes	Male	Female	Total			Black		
							Both sexes	Male	Female	Both sexes	Male	Female
All Ages -----	9743	9669	9815	9790	9734	9844	9432	9236	9620	9233	9009	9445
Under 5 years -----	9649	9633	9668	9759	9742	9776	9110	9087	9134	8986	8961	9012
Under 1 year -----	9733	9726	9745	9912	9896	9930	8874	8896	8881	8716	8701	8699
1-4 years -----	9626	9609	9647	9720	9703	9738	9172	9136	9200	9057	9028	9094
5-14 years -----	9777	9764	9791	9812	9802	9823	9584	9547	9621	9466	9428	9507
5-9 years -----	9691	9675	9708	9747	9734	9761	9392	9357	9427	9263	9225	9308
10-14 years -----	9861	9850	9873	9876	9868	9884	9781	9744	9819	9673	9635	9710
15-24 years -----	9824	9759	9888	9841	9785	9896	9716	9591	9841	9406	9225	9580
15-19 years -----	9876	9839	9916	9882	9844	9922	9840	9807	9879	9615	9559	9671
20-24 years -----	9763	9663	9859	9793	9717	9868	9562	9308	9795	9140	8785	9469
25-34 years -----	9569	9421	9715	9631	9534	9728	9160	8664	9626	8745	8149	9319
25-29 years -----	9526	9386	9664	9595	9501	9690	9059	8604	9493	8640	8098	9164
30-34 years -----	9620	9464	9775	9673	9573	9774	9277	8733	9781	8867	8209	9499
35-44 years -----	9684	9463	9903	9769	9611	9928	9097	8428	9734	8925	8227	9592
35-39 years -----	9634	9405	9862	9725	9561	9889	9041	8363	9692	8864	8141	9565
40-44 years -----	9730	9517	9941	9810	9657	9964	9155	8494	9776	8986	8314	9620
45-54 years -----	9785	9630	9934	9844	9714	9969	9297	8923	9652	9124	8753	9471
45-49 years -----	9718	9539	9892	9782	9633	9927	9206	8783	9611	9026	8597	9432
50-54 years -----	9860	9732	9981	9913	9804	1,0014	9404	9089	9699	9239	8938	9515
55-64 years -----	9731	9705	9754	9779	9763	9793	9307	9182	9402	9195	9080	9295
55-59 years -----	9754	9696	9804	9818	9773	9861	9188	9026	9319	9052	8914	9175
60-64 years -----	9706	9715	9697	9733	9752	9718	9454	9376	9502	9371	9290	9441
65-74 years -----	1,0059	1,0048	1,0067	1,0014	9997	1,0029	1,0513	1,0558	1,0476	1,0598	1,0670	1,0541
65-69 years -----	1,0143	1,0074	1,0199	1,0053	1,0000	1,0099	1,1046	1,0794	1,1264	1,1235	1,0997	1,1431
70-74 years -----	9952	1,0013	9908	9966	9993	9946	9804	1,0219	9489	9763	1,0212	9434
75-84 years -----	9452	9648	9326	9484	9619	9398	9044	9951	8457	8702	9527	8182
75-79 years -----	9441	9628	9317	9489	9623	9400	8876	9688	8337	8598	9398	8074
80-84 years -----	9471	9686	9342	9476	9613	9394	9346	1,0451	8667	8893	9779	8371
85 years and over -----	1,0140	1,0783	9813	1,0101	1,0586	9854	1,0558	1,2596	9365	9701	1,1219	8923

Source: Computed from populations published by the U.S. Bureau of the Census in *Census of Population, 1970, General Population Characteristics, Final Report PC(1)-B1, United States Summary, Table 52*, and in *Current Population Reports, Series P-25, No. 519, Table A-2*.