

HEALTH INTELLIGENCE SERVICE  
DEPARTMENT OF HEALTH  
MANILA

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Republic of the Philippines  
Department of Health

## OFFICE OF THE SECRETARY

SAN LAZARO COMPOUND, RIZAL AVENUE, ETA CRUZ, MANILA, PHILIPPINES  
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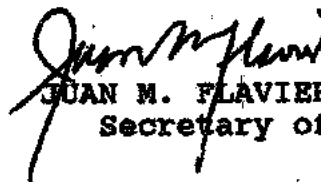
### FOREWORD

The Department of Health, through the Health Intelligence Service, in line with its functions, and always aware of the major role that Health Statistics plays in Public Health, takes pleasure in presenting this report - Philippine Health Statistics, 1990.

This report represents the final statistical data collected on Births, Deaths, Fetal and Maternal Deaths and Notifiable Diseases as they were registered and reported during the year 1990. In line with a collaborative and coordinated effort in the field of Vital Statistics, the statistical data on Births, Deaths, Fetal and Maternal Deaths as well as Population estimates were provided by the National Statistics Office. Data on Notifiable Diseases were collected through established mechanisms of DOH reporting by all field health personnel throughout the country. The data from these two sources have been summarized, sorted, analyzed and interpreted. Such meaningful information extracted is presented in tables and graphs and published in this report which are disseminated to the health administrators at various levels, researchers, and academicians as well as local government officials.

It is hoped that this annual report on Philippine Health Statistics will provide those concerned with the prevention and control of diseases and the promotion, protection and maintenance of the health of the nation, the necessary statistical basis for the planning, implementation and evaluation of health programs and services.

I gratefully acknowledge the support extended by the National Statistics Office specifically in the provision of vital statistical data, and to all field health officers throughout the country, for their active participation in the collection of morbidity data on Notifiable Diseases. Likewise, appreciation is extended to the staff and personnel of the Health Intelligence Service in the preparation of this report.

  
JUAN M. FLAVIER, M.D., M.P.H.  
Secretary of Health

April 26, 1993



Republic of the Philippines  
Department of Health

## OFFICE OF THE SECRETARY

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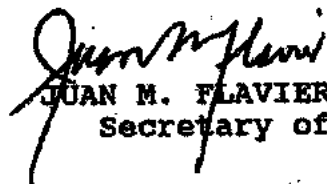
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Department of Health  
HEALTH INTELLIGENCE SERVICE  
Manila**

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Republic of the Philippines  
Department of Health  
HEALTH INTELLIGENCE SERVICE  
M a n i l a

PHILIPPINE HEALTH STATISTICS  
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## INTRODUCTION

### A. SOURCES OF DATA

1. Live Birth, Death and Fetal Death Statistics - Effective March, 1973 a collaborative program was drawn with the National Census and Statistics Office (NCSO) now National Statistics Office (NSO) whereby that Office shall provide basic tabulation on births and deaths thereby making it possible for the Health Intelligence Service to discontinue its collection and mechanical processing of such data. Raw data on births, deaths and fetal deaths were taken from the said Office. The basis of the registration of vital events is Act No. 3753 otherwise known as the Civil Registry Law. By virtue of Commonwealth Act 591, the Director of the Bureau of Census and Statistics (now the Administrator of the National Statistics Office) concurrently is the Civil Registrar-General and all local civil registrars are under his supervision. In the cities, the local civil registrars are the officials designated in their respective city charters generally the City Health Officers, while in regular municipalities and municipal districts, the local civil registrars are the municipal treasurers and municipal district treasurers, respectively. Each vital event is registered in the office of the civil registrar of the locality where the event occurred and a copy of each document is sent to the Office of the Civil Registrar-General within the first ten days of the succeeding month.

2. Notifiable Diseases Statistics - Data on Notifiable Diseases is based on information gathered by field health personnel. The Law on Reporting of Notifiable Diseases (Act 3573) provides that any cases of Notifiable Diseases shall be reported immediately to the nearest health officer. All field health officers by means of established reporting mechanism (Memorandum Order No. 51-a.s. 1960) submit through the Provincial and City Health Officers, collective morbidity reports (W1-a, W1-b) weekly to the Health Intelligence Service where such data received are then edited, classified, compiled, analyzed and interpreted.

3. Population Statistics - The official population estimates since 1931, as computed by the National Statistics Office, using the geometric method, are presented in this report. These bases for the yearly population figures are the censuses of 1918, 1939, 1948, 1960, 1970, 1975, 1980. The 1987 population for the Philippines and its region, province and city were estimated from the 1985 census which indicated an annual rate of increase of 2.4%.

## B. CLASSIFICATION OF DATA

Classification of health statistics and population statistics must be made according to the similarly defined system and tabulated in comparable groups in order to make use of the principal value of both data. Thus, variables common to both, i.e., geographic area, age and sex have been similarly classified and tabulated in this report.

1. Geographic Classification - Livebirths; deaths from all causes; infant, maternal and fetal deaths; and data on notifiable diseases have been classified by place of occurrence-region, province and city - the first being a geographical division created as a result of the reorganization of the Department of Health and other two being political divisions of the country. There are fourteen (14) regions, seventy five (75) provinces and sixty (60) cities. There is no classification of the place of occurrence as to whether it is rural or urban because of the lack of standard criteria.

2. Age - There is no valid information with regard to the accuracy of age of a reported morbid case. Regarding the registered deaths; the age of deceased is fully determined by the date of birth. However, some of the vital records are filled with the age not recorded or the data of birth not indicated. Thus, misstatement of age on vital records maybe assumed to some degree. The age classification used in this report is consistent with those recommended for international use by the World Health Organization.

3. Diseases and Causes of Deaths - Morbidity and mortality Statistics published by the Department of Health are classified and tabulated in accordance with the International Classification of Diseases, Injuries and Causes of Death, 9th Revision. In this report, the 3-digit classification was used for morbidity as well as for total mortality statistics, while the 2-digit classifications was used for fetal deaths.

4. Sex - Classification by sex is made in relation to other factors such as age, nationality, date and place of occurrence. Thus, some tabulations presented in this report maybe considered as four-fold tables with sex as one of the attributes of classifications.

### C. ANALYSIS AND INTERPRETATION OF DATA

Health statistics are very useful for a variety of administrative and research purposes. However, they can not correctly be interpreted unless pertinent qualifying factors, aside from the method of classification, are taken into consideration.

Some of the factors limiting the use of statistical data emanate from discrepancies in the original records or from the impracticability of tabulating these data in very detailed items. While these defects do exist, nevertheless, the value of these data for original purposes is indispensable. The exact evaluation of health statistics or the analysis of small differences necessitates careful study of a variety of related elements. However, the major trends and differences may not be altered materially by finer analysis.

1. Small Frequencies - The number of births and deaths reported for an area or community, or the number of ailments, represents complete counts of such events. Such being the case, they are not subject to sampling errors although they are subject to errors in the registration process or reporting system. When data is used for analytical purposes, as for example, the comparison of rate 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 risen under the same circumstances. In accordance with certain statistical assumptions, the probable range of values may be estimated from the actual figures.

2. Computation of Statistical Indices - In the computation of statistical indices for the Philippines and each health region, province and city, the standard formula are used. Thus, the crude birth and death rates are computed per 1,000 population; the infant, neonatal, maternal and fetal death rates are per 1,000 livebirths; and the specific diseases morbidity and mortality rates classified either by age, age and sex are computed per 100,000 population.

3. Completeness of Registration and Notification - In the Philippines, although the law provides for a compulsory registration of births, deaths and fetal deaths (Act. 3753) and the reporting of Notifiable Diseases (Act 3573) there are deficiencies in the observance of the Law due to a variety of factors.

Tests for completeness of birth and death registration made in 1956 in the province of Nueva Ecija, indicated an under registration of births by more than 30% and deaths by more than 10% for the whole province. A more recent and more extensive survey on the completeness of death registration in all provinces (32) and cities (18) of Health Regions 1, 2, 3, and 4, and one province each in Regions 5 and 6 was conducted in 1961-1962. This revealed that of the randomly selected names of persons buried in cemeteries in more recent years (1959-1962), 27.3% do not appear in the Death Registers of the Local Civil Registrars.

In view of the limited scope of these two studies the percentage of underregistration cannot be made to apply on a nationwide basis. Corrections for underregistration may only be made after the latter survey has been completed for the whole country. At any rate, it is grossly evident that incomplete registration of births, deaths and fetal deaths is still a problem in many areas in the country.

Completeness in the reporting of Notifiable Diseases varies greatly by disease and by area. In general, and from all indications, reporting is apparently incomplete.

4. Population Bases - In order to insure statistical comparability, the vital and health statistical indices presented in this report of the Philippines and each health regions, province and city were computed using the official population estimates of the National Statistics Office, which were based on the latest census enumeration.

5. Allocation of Vital Events - All data in this report were tabulated according to place of occurrence and not by place of residence. Philippine laws provide that all vital events and cases of notifiable diseases must be registered and reported, respectively, by place of occurrence.

# PHILIPPINE HEALTH PICTURE 1940-1990



**POPULATION**  
INCREASED FROM 16,459,900 TO 62,049,229  
276.9 % INCREASE OR 277.0 %



**CRUDE BIRTH RATE**  
DECLINED FROM 32.5 TO 26.3  
19.1 % DECREASE



**CRUDE DEATH RATE**  
DECLINED FROM 16.6 TO 5.1  
69.3 % DECREASE



**INFANT DEATH RATE**  
DECLINED FROM 135.8 TO 24.3  
82.1 % DECREASE



**MATERNAL DEATH RATE \***  
DECLINED FROM 6.3 TO 0.8  
87.3 % DECREASE



**NEONATAL DEATH RATE \*\***  
DECLINED FROM 34.7 TO 11.7  
66.3 % DECREASE



**TUBERCULOSIS DEATH RATE**  
DECLINED FROM 228.8 TO 39.1  
82.9 % DECREASE



**LIFE EXPECTANCY AT BIRTH**  
MALE 62.8 YRS. FEMALE 66.4 YRS.  
BOTH SEXES 64.6 YRS.

\* SINCE 1940

\*\* SINCE 1961

Republic of the Philippines  
Department of Health  
OFFICE OF THE SECRETARY  
Manila

6/3/93

May 1, 1993

DEPARTMENT CIRCULAR  
NO. 72-A s. 1993

TO : ALL BUREAUS/SERVICES, DIVISION CHIEFS, OF OFFICES  
AND OTHERS CONCERNED


SUBJECT : NSCB RESOLUTION NO. 1-93 AND NO. 11-92 FROM THE  
NATIONAL-STATISTICAL COORDINATION BOARD

Enclosed for information, ready reference and guideline are copies of the NSCB Resolution Nos. 1-93 and No. 11-92 from the National Statistical Coordination Board re: Adoption of the official Population Projections at the National Level and Adoption of Official Infant Mortality Rates at the National and Regional Levels.

Please be guided accordingly.

(SGD.) JUAN M. FLAVIER, M.D., M.P.H.  
Secretary of Health

CERTIFIED TRUE COPY:

  
HELEN B. MAG-IBA  
Chief, Records Section  
Department of Health  
Manila/mvro

Republic of the Philippines  
NATIONAL STATISTICAL COORDINATION BOARD

\*\*\*\*\*  
NSCB RESOLUTION NO. 11-92

ADOPTION OF OFFICIAL INFANT MORTALITY RATES  
AT THE NATIONAL AND REGIONAL LEVELS

WHEREAS, the Task Force on Infant Mortality Rate (TF-IMR) was created by the NSCB Technical Committee on Population and Housing Statistics (TC-PHS) in its meeting held 5 July 1991;

WHEREAS, the TF was tasked to review and assess the latest IMR estimates and the corresponding methods used to arrive at these estimates; and to recommend the most reasonable IMR estimates at both national and regional levels;

WHEREAS, the recommended IMRs at the national and regional levels are drawn from the indirect estimates based on national demographic surveys;

WHEREAS, these surveys are nationally representative and derivation of the indirect estimates of IMR necessitates the use of model life tables;

WHEREAS, there are two models that represent Philippine mortality patterns, namely: the Latin American from the UN Model Life Tables for developing countries and the West from the Coale and Demery Regional Model Life Tables;

WHEREAS, it has been found that the observed mortality patterns of the Philippines based on constructed ~~life~~ tables for 1960, 1970, 1975 and 1980 showed a closer fit to the Latin American compared to the West Model;

WHEREAS, the recommended IMR estimates at the national and regional levels for 1976-1986 (except 1990) was submitted by the TF to the Board and was subsequently approved in its meeting held last 22 May 1992;

WHEREAS, after thorough discussions and in-depth studies, the 1990 national and regional IMR estimates were endorsed by the TC-PHS and approved by the Board in a referendum held last December 14, 1992;

WHEREAS, in a special meeting held last January 8, 1993 the national population projections - utilizing key demographic indicators such as these IMRs were approved by the Board;

NOW, THEREFORE, BE IT RESOLVED AT IT IS HEREBY RESOLVED that the IMRs for the years 1976 to 1990 as shown in the attached table be adopted for planning and policy/decision making purposes.

ATTESTED BY:

(SGD.) ROMULO A. VIROLA  
Secretary General

NATIONAL STATISTICAL COORDINATION BOARD

RESOLUTION NO. 1-93

ADOPTION OF THE OFFICIAL POPULATION PROJECTIONS AT  
THE NATIONAL LEVEL

WHEREAS, projections of the population at various levels of disaggregation are effective tools for estimating the need for specific government programs and services;

WHEREAS, the Technical Committee (TC) on Population and Housing Statistics thru the Technical Working Group (TWG) on Population Projections, was tasked to prepare a new set of population projections for the Philippines to serve as basis for policy setting, plan formulation and program development;

WHEREAS, an assessment of the recent demographic changes in the country was undertaken with the data inputs drawn from the results of the 1990 Census of population and Housing and related surveys;

WHEREAS, the TWG has initially come up with the national population projections by five-year age groups and by sex for the years 1992 to 2000, together with the key demographic indicators for the same period;

NOW, THEREFORE, BE IT RESOLVED AS IT IS HEREBY RESOLVED that the Board approve the set of population projections prepared by the TWG and endorsed by the TC as the official figures to be utilized for planning purposes.

ATTESTED BY:

(SGD.) ROMULO A. VIROLA  
Secretary General

January 8, 1993  
Board Meeting

copied/mvrc

# OFFICIAL INFANT MORTALITY RATES, PHILIPPINES AND BY REGION: 1976 - 1990

| Regions     | 1976 | 1978 | 1980 | 1981 | 1982 | 1984 | 1986 | 1990 |
|-------------|------|------|------|------|------|------|------|------|
| Philippines | 64   | 57   | 59   | 57   | 57   | 63   | 63   | 57   |
| NCR         | 54   | 54   | 48   | 48   | 48   | 48   | 48   | 46   |
| CAR         | -    | -    | -    | -    | 63   | 57   | 58   | 63   |
| Region I    | 58   | 58   | 58   | 51   | 51   | 51   | 51   | 56   |
| Region II   | 67   | 65   | 66   | 66   | 66   | 66   | 66   | 62   |
| Region III  | 47   | 47   | 43   | 43   | 39   | 34   | 34   | 45   |
| Region IV   | 63   | 61   | 60   | 60   | 58   | 52   | 49   | 53   |
| Region V    | 68   | 68   | 67   | 58   | 56   | 58   | 58   | 64   |
| Region VI   | 65   | 61   | 60   | 58   | 56   | 56   | 56   | 61   |
| Region VII  | 56   | 56   | 51   | 51   | 51   | 51   | 51   | 55   |
| Region VIII | 76   | 76   | 77   | 77   | 81   | 81   | 81   | 76   |
| Region IX   | 55   | 55   | 56   | 56   | 56   | 69   | 66   | 64   |
| Region X    | 82   | 68   | 61   | 67   | 70   | 64   | 64   | 58   |
| Region XI   | 53   | 53   | 51   | 51   | 51   | 58   | 58   | 56   |
| Region XII  | 93   | 91   | 80   | 80   | 90   | 103  | 105  | 57   |
| ARM         |      |      |      |      |      |      |      | 73   |

Note: Infant Mortality Rate refers to infant deaths per 1000 livebirths using 1990 adjusted population of 62.04 M.

Sources of Basic Data: (1) Total Philippines; 1978 Republic of the Philippines Fertility Survey (RPFS), 1983 and 1988 National Demographic Surveys (NDSs), Table 3.

(2) CAR; 1988 NDS, Table 5.

(3) All the other regions; 1983 and 1988 NDSs, Table 5.

TABLE 1

ESTIMATED POPULATION BY SEX  
PHILIPPINES, 1940 - 1990

| Y E A R   | B O T H S E X E S | M A L E    | F E M A L E |
|-----------|-------------------|------------|-------------|
| 1990..... | 62,049,229        | 31,183,608 | 30,865,621  |
| 1989..... | 60,096,988        | 30,182,591 | 29,914,397  |
| 1988..... | 58,721,307        | 29,486,542 | 29,234,765  |
| 1987..... | 57,356,042        | 28,795,983 | 28,560,059  |
| 1986..... | 56,004,130        | 28,112,404 | 27,891,726  |
| 1985..... | 54,668,332        | 27,437,246 | 27,231,086  |
| 1984..... | 53,182,708        | 26,699,705 | 26,483,003  |
| 1983..... | 51,973,651        | 26,091,773 | 25,307,792  |
| 1982..... | 50,783,065        | 25,475,273 | 25,881,878  |
| 1981..... | 49,536,022        | 24,846,275 | 24,689,747  |
| 1980..... | 48,316,503        | 24,231,626 | 24,084,877  |
| 1979..... | 46,580,400        | 23,150,500 | 23,429,900  |
| 1978..... | 45,528,500        | 22,627,700 | 22,900,800  |
| 1977..... | 45,005,300        | 22,412,700 | 22,592,600  |
| 1976..... | 43,451,300        | 21,744,400 | 22,006,900  |
| 1975..... | 42,517,300        | 21,169,400 | 21,347,900  |
| 1974..... | 41,457,100        | 20,645,600 | 20,811,500  |
| 1973..... | 40,219,000        | 20,030,000 | 20,189,000  |
| 1972..... | 39,040,100        | 19,434,000 | 19,605,700  |
| 1971..... | 37,959,000        | 18,888,000 | 19,071,000  |
| 1970..... | 36,849,000        | 18,318,000 | 18,531,000  |
| 1969..... | 37,158,000        | 18,741,000 | 18,417,000  |
| 1968..... | 35,883,000        | 18,098,000 | 17,785,000  |
| 1967..... | 34,656,000        | 17,480,000 | 17,176,000  |
| 1966..... | 33,477,000        | 16,885,000 | 16,592,000  |
| 1965..... | 32,345,000        | 16,314,000 | 16,031,000  |
| 1964..... | 31,270,000        | 15,772,000 | 15,498,000  |
| 1963..... | 30,241,000        | 15,255,000 | 14,986,000  |
| 1962..... | 29,257,000        | 14,759,000 | 14,498,000  |
| 1961..... | 28,313,000        | 14,282,000 | 14,031,000  |
| 1960..... | 27,410,000        | 13,826,000 | 13,584,000  |
| 1959..... | 26,926,400        | 13,441,700 | 13,484,700  |
| 1958..... | 26,096,600        | 13,032,700 | 13,063,900  |
| 1957..... | 25,292,400        | 12,638,600 | 12,653,800  |
| 1956..... | 24,513,000        | 12,254,100 | 12,258,900  |
| 1955..... | 23,757,600        | 11,881,200 | 11,876,400  |
| 1954..... | 23,025,500        | 11,521,900 | 11,503,600  |
| 1953..... | 22,316,000        | 11,171,400 | 11,144,600  |
| 1952..... | 21,828,300        | 10,831,500 | 10,996,800  |
| 1951..... | 20,961,800        | 10,503,900 | 10,457,900  |
| 1950..... | 20,315,800        | 10,184,300 | 10,131,500  |
| 1949..... | 19,689,800        | 9,874,400  | 9,815,400   |
| 1948..... | 19,143,800        | 9,607,000  | 9,536,800   |
| 1947..... | 18,758,700        | 9,431,700  | 9,354,000   |
| 1946..... | 18,434,400        | 9,259,700  | 9,174,700   |
| 1945..... | 18,089,600        | 9,090,700  | 8,998,900   |
| 1944..... | 17,751,200        | 8,924,800  | 8,826,400   |
| 1943..... | 17,419,200        | 8,762,000  | 8,657,200   |
| 1942..... | 17,093,400        | 8,602,200  | 8,491,200   |
| 1941..... | 16,773,700        | 8,445,200  | 8,328,500   |
| 1940..... | 16,459,900        | 8,291,100  | 8,168,800   |

# ESTIMATED POPULATION PHILIPPINES 1940 - 1990

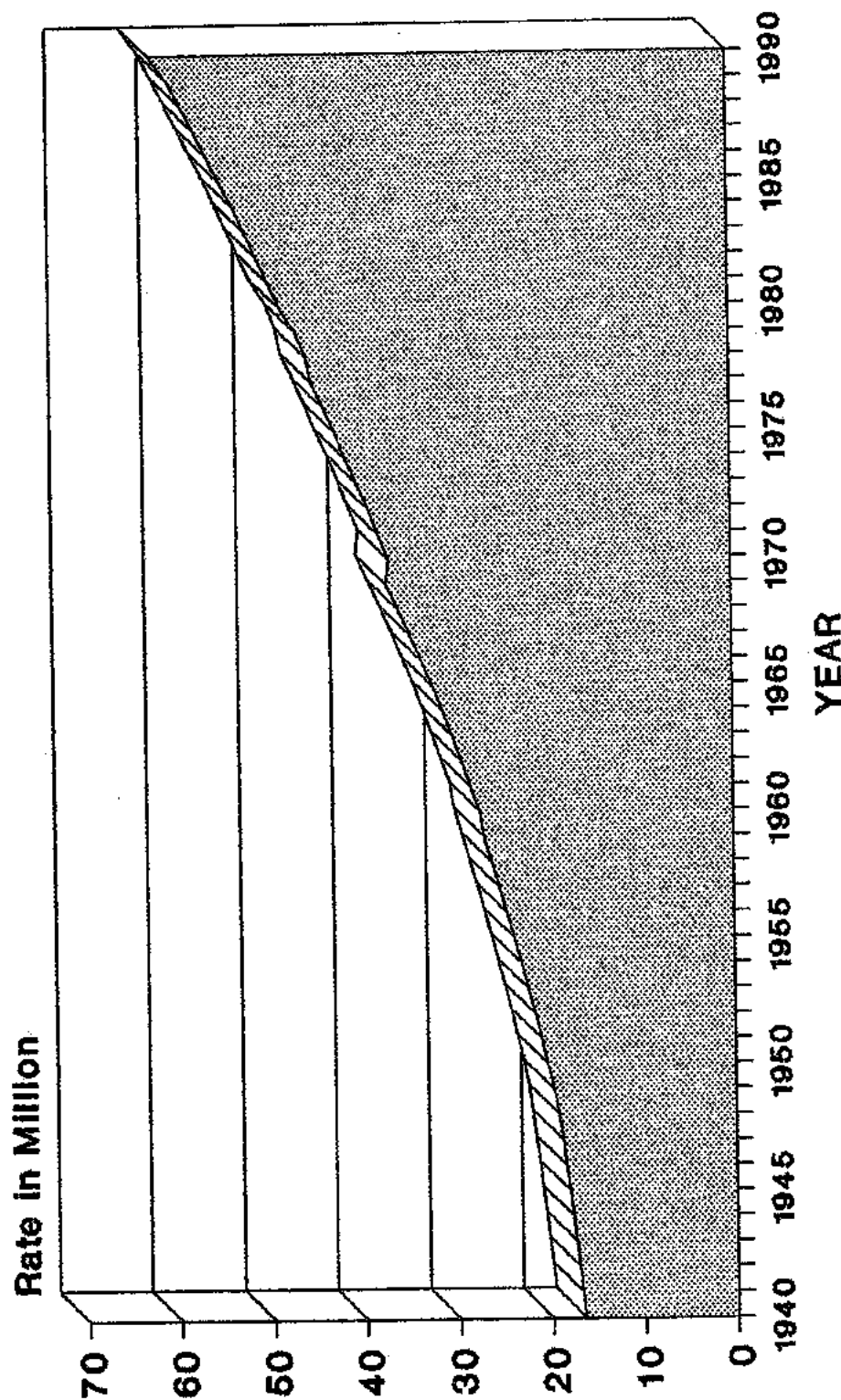


Fig. 2

TABLE 2

ESTIMATED POPULATION  
BY HEALTH REGION, PROVINCE AND CITY  
PHILIPPINES  
1990

8

| A R E A              | POPULATION | A R E A                   | POPULATION |
|----------------------|------------|---------------------------|------------|
| PHILIPPINES.....     | 62,049,229 | CABANATUAN CITY.....      | 191,764    |
| NAT. CAP. REGION.... | 8,102,077  | OLONGAPO CITY.....        | 198,086    |
| 1ST DIST. MANILA.... | 2,454,084  | PALAYAN CITY.....         | 21,718     |
| 2ND DIST. MUN.       | 1,048,621  | SAN JOSE CITY.....        | 91,965     |
| QUEZON CITY.....     | 1,703,895  | REGION 4                  | 8,450,067  |
| 3RD DIST. MUN.       | 842,952    | AURORA.....               | 142,494    |
| CALOOCAN CITY.....   | 780,576    | BATANGAS.....             | 1,157,948  |
| 4TH DIST. MUN.       | 896,219    | CAVITE.....               | 1,044,118  |
| PASAY CITY.....      | 375,730    | LAGUNA.....               | 1,236,786  |
| C.A.R.               | 1,169,229  | MARINDUQUE.....           | 189,940    |
| ABRA.....            | 188,979    | MINDORO OCC.....          | 288,589    |
| BENGUET.....         | 309,689    | MINDORO OR.....           | 563,054    |
| IFUGAO.....          | 150,649    | PALAWAN.....              | 445,380    |
| KALINGA APAYAO.....  | 216,595    | QUEZON.....               | 1,249,922  |
| MT. PROVINCE.....    | 119,029    | RIZAL.....                | 999,867    |
| BAGUIO CITY.....     | 184,298    | ROMBLON.....              | 232,978    |
| REGION 1             | 3,634,583  | BATANGAS CITY.....        | 189,522    |
| ILOCOS NORTE.....    | 386,209    | CAVITE CITY.....          | 93,896     |
| ILOCOS SUR.....      | 532,055    | LIPA CITY.....            | 164,057    |
| LA UNION.....        | 561,745    | LUCENA CITY.....          | 153,498    |
| PANGASINAN.....      | 181,590    | PUERTO PRINCESA CITY..... | 92,017     |
| DAGUPAN CITY.....    | 125,256    | SAN PABLO CITY.....       | 165,606    |
| LAOAG CITY.....      | 85,818     | TAGAYTAY CITY.....        | 24,323     |
| SAN CARLOS CITY..... | 127,593    | TRECE MARTIRES CITY.....  | 16,072     |
| REGION 2             | 2,393,841  | REGION 5                  | 4,000,978  |
| BATANES.....         | 15,342     | ALBAY.....                | 800,944    |
| CAGAYAN.....         | 848,585    | CAMARINES NORTE.....      | 400,060    |
| ISABELA.....         | 1,105,091  | CAMARINES SUR.....        | 1,114,240  |
| NUEVA VIZCAYA.....   | 307,962    | CATANDUANES.....          | 191,416    |
| QUIRINO.....         | 116,861    | MASBATE.....              | 613,645    |
| REGION 3             | 6,341,034  | SORSOGON.....             | 535,062    |
| BATAAN.....          | 435,148    | IRIGA CITY.....           | 83,481     |
| BULACAN.....         | 1,539,321  | LEGASPI CITY.....         | 123,857    |
| NUEVA ECIJA.....     | 1,037,642  | NAGA CITY.....            | 139,273    |
| PAMPANGA.....        | 1,325,857  | REGION 6                  | 5,517,753  |
| TARLAC.....          | 880,368    | AKLAN.....                | 389,381    |
| ZAMBALES.....        | 377,292    | ANTIQUE.....              | 415,915    |
| ANGELES CITY.....    | 241,873    | CAPIZ.....                | 466,275    |
|                      |            | ILOILO.....               | 1,488,859  |
|                      |            | NEGROS OCC.....           | 1,417,206  |
|                      |            | BACOLOD CITY.....         | 373,143    |

TABLE 2

ESTIMATED POPULATION  
BY HEALTH REGION, PROVINCE AND CITY  
PHILIPPINES  
1990

| A R E A              | POPULATION | A R E A               | POPULATION |
|----------------------|------------|-----------------------|------------|
| BAGO CITY.....       | 125,888    | DAPITAN CITY.....     | 61,621     |
| CADIZ CITY.....      | 122,721    | DIPOLOG CITY.....     | 81,503     |
| ILOILO CITY.....     | 317,124    | PAGADIAN CITY.....    | 108,296    |
| LA CARLOTA CITY..... | 57,832     | ZAMBOANGA CITY.....   | 451,723    |
| ROXAS CITY.....      | 131,577    |                       |            |
| SAN CARLOS CITY..... | 108,315    | REGION 10             | 3,588,869  |
| SILAY CITY.....      | 103,517    |                       |            |
| REGION 7             | 4,694,957  | AGUSAN DEL NORTE..... | 243,298    |
|                      |            | AGUSAN DEL SUR.....   | 430,251    |
| BOHOL.....           | 913,382    | BUKIDNON.....         | 862,991    |
| CEBU.....            | 1,552,258  | CAMIGUIN.....         | 65,757     |
| NEGROS OR.....       | 765,652    | MISAMIS OCC.....      | 243,169    |
| SIQUIJOR.....        | 75,705     | MISAMIS OR.....       | 452,999    |
|                      |            | SURIGAO DEL NORTE...  | 333,202    |
| BAIS CITY.....       | 61,025     | BUTUAN CITY.....      | 232,930    |
| CANLAON CITY.....    | 38,067     | CAGAYAN DE ORO.....   | 346,276    |
| CEBU CITY.....       | 619,511    | GINGOOG CITY.....     | 84,615     |
| DANAO CITY.....      | 74,987     | OROQUIETA CITY.....   | 53,617     |
| DUMAGUETE CITY.....  | 81,235     | OZAMIS CITY.....      | 93,280     |
| LAPU-LAPU CITY.....  | 149,212    | SURIGAO CITY.....     | 102,534    |
| MANDAWE CITY.....    | 184,177    | TANGUB CITY.....      | 43,850     |
| TAGBILARAN CITY..... | 57,024     |                       |            |
| TOLEDO CITY.....     | 122,722    | REGION 11             | 4,558,081  |
| REGION 8             | 3,123,878  |                       |            |
|                      |            | COTABATO SOUTH.....   | 841,669    |
| LEYTE DEL NORTE..... | 1,246,862  | DAVAO ORIENTAL.....   | 404,007    |
| LEYTE DEL SUR.....   | 329,418    | DAVAO DEL NORTE.....  | 1,079,078  |
| EASTERN SAMAR.....   | 336,782    | DAVAO DEL SUR.....    | 647,809    |
| NORTHERN SAMAR.....  | 392,617    | SURIGAO DEL SUR.....  | 462,393    |
| WESTERN SAMAR.....   | 427,175    |                       |            |
|                      |            | DAVAO CITY.....       | 867,303    |
| CALBAYOG CITY.....   | 117,815    | GEN. SANTOS CITY....  | 255,822    |
| ORMOC CITY.....      | 132,642    |                       |            |
| TACLOBAN CITY.....   | 140,567    | REGION 12             | 3,245,499  |
| REGION 9             | 3,228,383  |                       |            |
|                      |            | LANAO DEL NORTE.....  | 396,857    |
| BASILAN.....         | 243,865    | LANAO DEL SUR.....    | 520,096    |
| SULU.....            | 480,397    | MAGUINDANAO.....      | 645,313    |
| TAWI-TAWI.....       | 233,336    | NORTH COTABATO.....   | 781,926    |
| ZAMB. DEL NORTE..... | 549,515    | SULTAN KUDARAT.....   | 446,168    |
| ZAMB. DEL SUR.....   | 1,018,127  |                       |            |
|                      |            | COTABATO CITY.....    | 130,193    |
|                      |            | ILIGAN CITY.....      | 231,495    |
|                      |            | MARAWI CITY.....      | 93,451     |

TABLE 3

ESTIMATED POPULATION  
No. & Percentage Distribution, By Age & Sex  
PHILIPPINES  
1990

10

| A R E A            | P O P U L A T I O N |            |            | P E R C E N T A G E D I S T R I B U T I O N |        |            |
|--------------------|---------------------|------------|------------|---|--------|------------|
|                    | MALE                | FEMALE     | BOTH SEXES | MALE  | FEMALE | BOTH SEXES |
| ALL AGES.....      | 31,183,608          | 30,865,621 | 62,049,229 | 50.3  | 49.7   | 100.0      |
| Under 1 yr.....    | 929,997             | 887,933    | 1,817,930  | 1.5   | 1.4    | 2.9        |
| 1 - 4 yrs.....     | 3,432,260           | 3,254,889  | 6,687,149  | 5.5   | 5.2    | 10.8       |
| 5 - 9 yrs.....     | 4,144,213           | 3,953,186  | 8,097,399  | 6.7   | 6.4    | 13.0       |
| 10 - 14 yrs.....   | 3,817,476           | 3,636,882  | 7,454,358  | 6.2   | 5.9    | 12.0       |
| 15 - 19 yrs.....   | 3,372,630           | 3,191,579  | 6,564,209  | 5.4   | 5.1    | 10.6       |
| 20 - 24 yrs.....   | 2,973,157           | 2,890,132  | 5,863,289  | 4.8   | 4.7    | 9.4        |
| 25 - 29 yrs.....   | 2,524,328           | 2,650,762  | 5,175,090  | 4.1   | 4.3    | 8.3        |
| 30 - 34 yrs.....   | 2,157,260           | 2,330,427  | 4,487,687  | 3.5   | 3.8    | 7.2        |
| 35 - 39 yrs.....   | 1,342,031           | 1,888,748  | 3,730,779  | 3.0   | 3.0    | 6.0        |
| 40 - 44 yrs.....   | 1,468,483           | 1,442,975  | 2,911,458  | 2.4   | 2.3    | 4.7        |
| 45 - 49 yrs.....   | 1,168,680           | 1,148,949  | 2,317,629  | 1.9   | 1.9    | 3.7        |
| 50 - 54 yrs.....   | 958,473             | 965,986    | 1,924,459  | 1.5   | 1.6    | 3.1        |
| 55 - 59 yrs.....   | 747,375             | 779,943    | 1,527,318  | 1.2   | 1.3    | 2.5        |
| 60 - 64 yrs.....   | 575,224             | 621,969    | 1,197,193  | 0.9   | 1.0    | 1.9        |
| 65 - 69 yrs.....   | 420,872             | 473,629    | 894,501    | 0.7   | 0.8    | 1.4        |
| 70 yrs. & Over.... | 651,149             | 747,632    | 1,398,781  | 1.0   | 1.2    | 2.3        |

# ESTIMATED POPULATION BY AGE & SEX PHILIPPINES, 1990

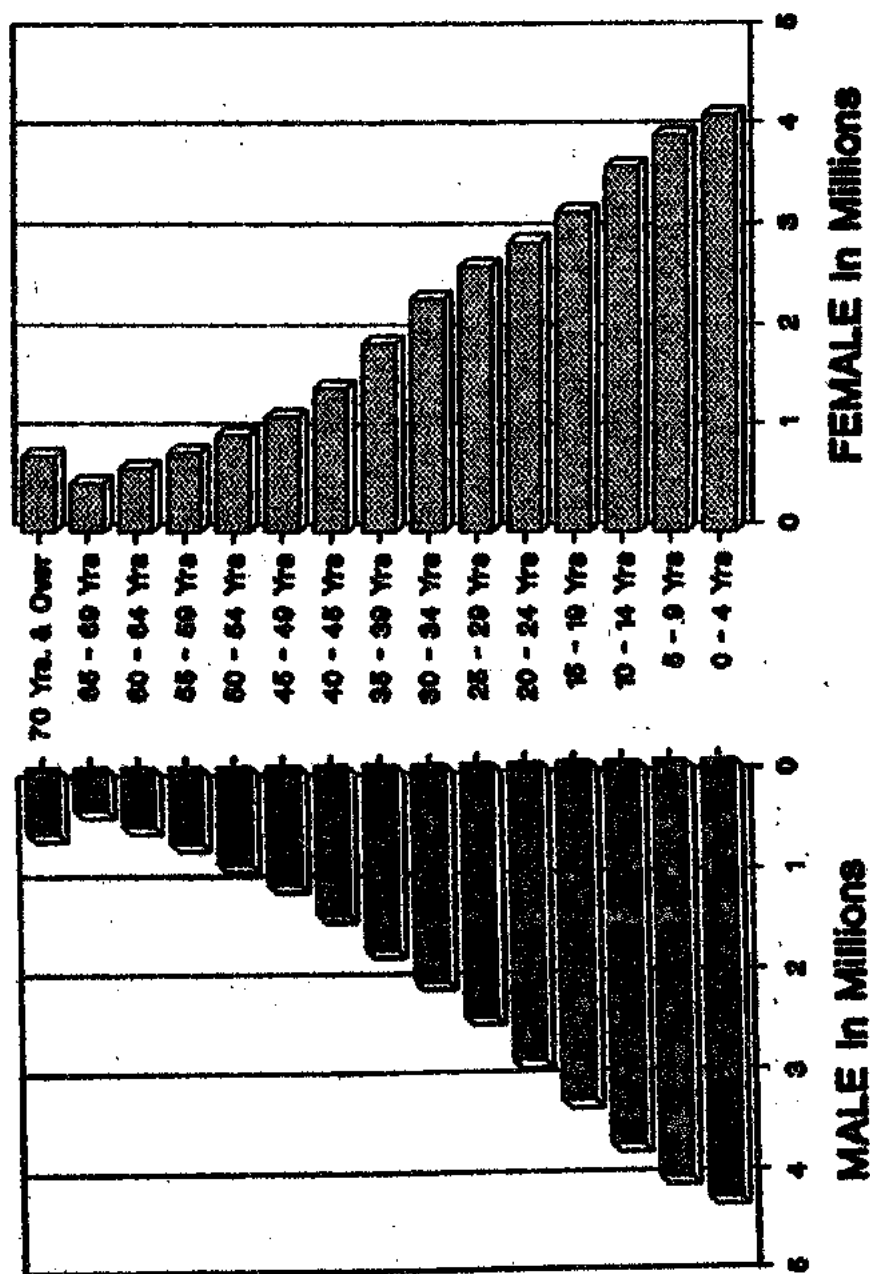


Fig. 3

TABLE 4

LIVEBIRTHS, TOTAL DEATHS, DEATHS UNDER 1 YEAR  
MATERNAL DEATHS & FETAL DEATHS  
No. & Rate  
PHILIPPINES, 1940 - 1990

12

| Y E A R   | BIRTHS  |       | DEATHS |       | DEATHS<br>UNDER 1 YR. |        | MATERNAL<br>DEATHS |        | FETAL<br>DEATHS |        |
|-----------|---------|-------|--------|-------|-----------------------|--------|--------------------|--------|-----------------|--------|
|           | No.     | Rate* | No.    | Rate* | No.                   | Rate** | No.                | Rate** | No.             | Rate** |
| 1990..... | 1631069 | 26.3  | 313890 | 5.1   | 39633                 | 24.3   | 1307               | 0.8    | 11915           | 7.3    |
| 1989..... | 1565254 | 26.0  | 325621 | 5.4   | 43026                 | 27.5   | 1579               | 1.0    | 11423           | 7.3    |
| 1988..... | 1565372 | 26.7  | 325098 | 5.5   | 47187                 | 30.1   | 1745               | 1.1    | 10641           | 6.8    |
| 1987..... | 1582469 | 27.6  | 335254 | 5.8   | 50803                 | 32.1   | 1611               | 1.0    | 10515           | 6.6    |
| 1986..... | 1493995 | 26.7  | 326749 | 5.8   | 52263                 | 35.0   | 1573               | 1.1    | 8400            | 5.6    |
| 1985..... | 1437154 | 26.3  | 334663 | 6.1   | 54613                 | 38.0   | 1489               | 1.0    | 8948            | 6.2    |
| 1984..... | 1478205 | 27.8  | 313359 | 5.9   | 56897                 | 38.5   | 1379               | 0.9    | 11884           | 8.0    |
| 1983..... | 1506356 | 29.0  | 327260 | 6.3   | 64267                 | 42.7   | 1502               | 1.0    | 14780           | 9.8    |
| 1982..... | 1474491 | 29.0  | 308758 | 6.1   | 61665                 | 41.8   | 1425               | 1.0    | 13465           | 9.1    |
| 1981..... | 1461204 | 29.5  | 301117 | 6.1   | 64415                 | 44.1   | 1542               | 1.1    | 13343           | 9.1    |
| 1980..... | 1456860 | 30.2  | 298006 | 6.2   | 65700                 | 45.1   | 1607               | 1.1    | 13965           | 9.6    |
| 1979..... | 1429614 | 30.7  | 206427 | 6.6   | 71772                 | 50.2   | 1635               | 1.1    | 14586           | 10.2   |
| 1978..... | 1387588 | 30.5  | 297034 | 6.5   | 73640                 | 53.1   | 1734               | 1.2    | 14365           | 10.4   |
| 1977..... | 1344836 | 29.9  | 308904 | 6.9   | 76330                 | 56.8   | 1909               | 1.4    | 14589           | 10.8   |
| 1976..... | 1314860 | 30.1  | 298861 | 6.9   | 74792                 | 56.9   | 1862               | 1.4    | 14565           | 11.3   |
| 1975..... | 1223837 | 28.8  | 271136 | 6.4   | 65263                 | 53.3   | 1753               | 1.4    | 13764           | 11.2   |
| 1974..... | 1081073 | 26.1  | 283975 | 6.8   | 63491                 | 58.7   | 1690               | 1.6    | 13451           | 12.4   |
| 1973..... | 1049290 | 26.1  | 283475 | 7.0   | 67881                 | 64.7   | 1488               | 1.4    | 10805           | 10.3   |
| 1972..... | 968385  | 24.8  | 285761 | 7.3   | 65719                 | 67.9   | 1379               | 1.4    | 13577           | 14.0   |
| 1971..... | 963749  | 25.4  | 250139 | 6.6   | 59730                 | 62.0   | 1261               | 1.3    | 12969           | 13.5   |
| 1970..... | 1008504 | 27.4  | 248251 | 6.7   | 59774                 | 59.3   | 1950               | 1.9    | 7384            | 7.3    |
| 1969..... | 1015784 | 27.3  | 255785 | 6.9   | 65142                 | 64.1   | 2047               | 2.0    | 7290            | 7.2    |
| 1968..... | 961646  | 26.8  | 253841 | 7.1   | 62994                 | 65.5   | 1979               | 2.1    | 6855            | 7.1    |
| 1967..... | 911872  | 26.3  | 241548 | 7.0   | 59448                 | 65.2   | 1822               | 2.0    | 7468            | 8.2    |
| 1966..... | 908826  | 27.1  | 240865 | 7.2   | 59810                 | 65.8   | 1829               | 2.0    | 6166            | 6.8    |
| 1965..... | 871715  | 27.0  | 241305 | 7.5   | 59733                 | 68.5   | 1757               | 2.0    | 6143            | 7.0    |
| 1964..... | 880871  | 28.2  | 214904 | 6.9   | 54174                 | 61.5   | 1031               | 2.1    | 6696            | 7.6    |
| 1963..... | 851459  | 28.2  | 215743 | 7.1   | 56700                 | 66.6   | 1783               | 2.1    | 7026            | 8.2    |
| 1962..... | 832204  | 28.4  | 213439 | 7.3   | 56365                 | 67.7   | 1944               | 2.3    | 7424            | 8.9    |
| 1961..... | 782857  | 27.6  | 213587 | 7.5   | 56663                 | 72.4   | 2023               | 2.6    | 8800            | 11.2   |
| 1960..... | 810904  | 29.6  | 212688 | 6.6   | 59301                 | 73.1   | 1981               | 2.4    | 10262           | 12.7   |
| 1959..... | 809086  | 30.0  | 197423 | 7.3   | 58610                 | 72.4   | 2114               | 2.6    | 10167           | 12.6   |
| 1958..... | 766562  | 29.4  | 218186 | 8.4   | 61335                 | 80.0   | 2235               | 2.9    | 9012            | 11.8   |
| 1957..... | 748331  | 29.6  | 241469 | 9.5   | 69592                 | 93.0   | 1963               | 2.6    | 8967            | 12.0   |
| 1956..... | 757794  | 30.9  | 219719 | 9.0   | 63583                 | 83.9   | 2241               | 3.0    | ***             | -      |
| 1955..... | 734761  | 30.9  | 219798 | 9.0   | 61958                 | 84.3   | 2339               | 3.2    | ***             | -      |
| 1954..... | 702662  | 30.5  | 217650 | 9.5   | 66175                 | 84.2   | 2214               | 3.2    | ***             | -      |
| 1953..... | 661939  | 29.7  | 239938 | 10.8  | 69729                 | 105.3  | 2397               | 3.6    | ***             | -      |
| 1952..... | 648725  | 30.0  | 241020 | 11.1  | 65883                 | 101.6  | 2511               | 3.6    | ***             | -      |
| 1951..... | 637264  | 30.4  | 237937 | 11.4  | 67209                 | 105.5  | 2645               | 4.2    | ***             | -      |
| 1950..... | 642472  | 31.6  | 226505 | 11.1  | 65273                 | 101.6  | 2406               | 3.7    | ***             | -      |
| 1949..... | 609138  | 30.9  | 231151 | 11.8  | 66114                 | 108.5  | 1818               | 3.0    | ***             | -      |
| 1948..... | 602415  | 31.5  | 234467 | 12.7  | 68897                 | 114.4  | 2468               | 4.1    | ***             | -      |
| 1947..... | 572226  | 30.5  | 238527 | 12.7  | 63809                 | 111.5  | 2425               | 4.2    | ***             | -      |
| 1946..... | 533283  | 28.9  | 278546 | 15.1  | 66902                 | 125.5  | ***                | -      | ***             | -      |
| 1945-1941 | ***     | -     | ***    | -     | ***                   | -      | ***                | -      | ***             | -      |
| 1940..... | 535117  | 32.5  | 273480 | 16.6  | 72647                 | 135.8  | 3397               | 6.3    | ***             | -      |

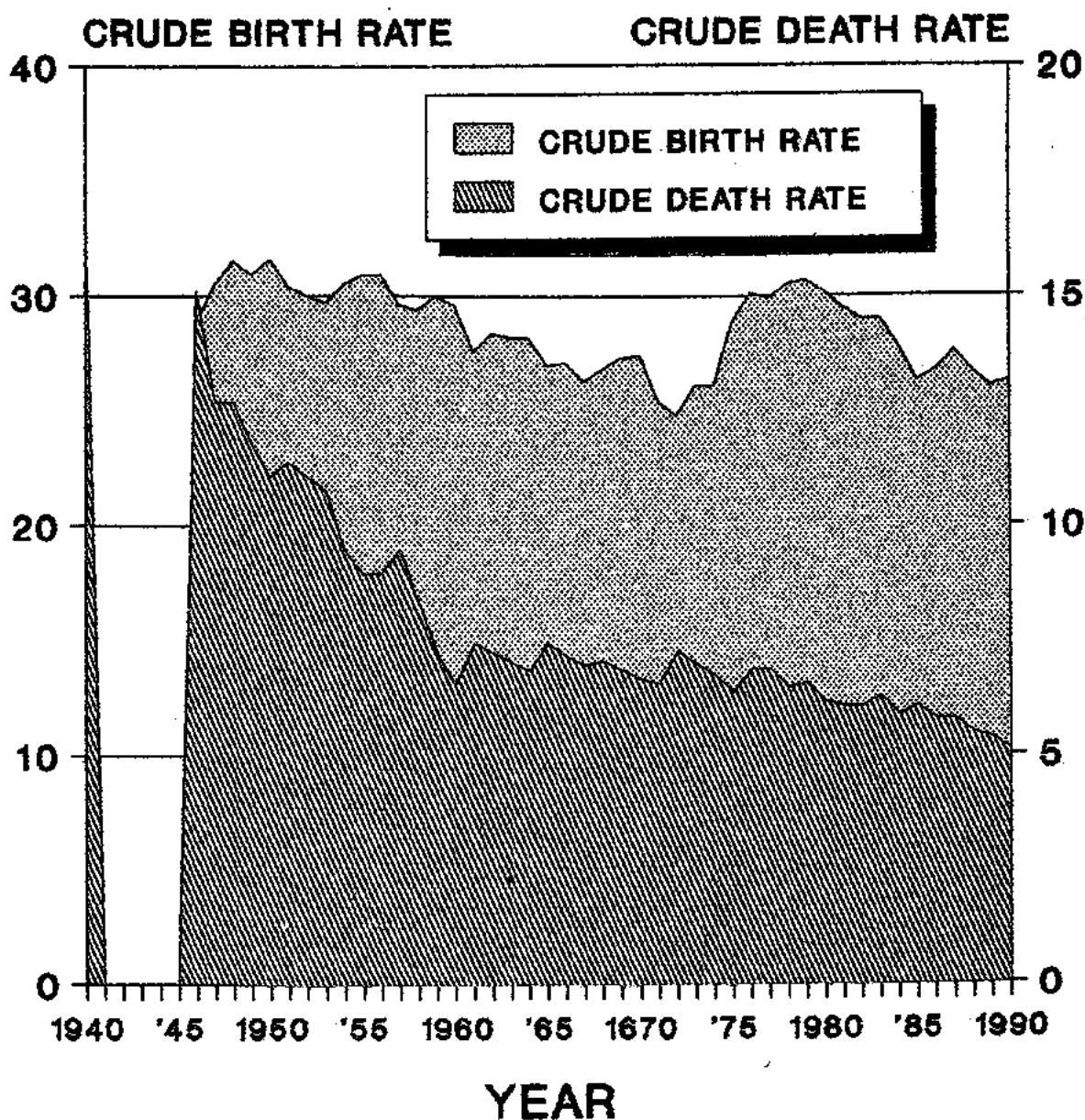
\*Per 1,000 Population

\*\* Per 1,000 Livebirths.

\*\*\*No data available.

# CRUDE BIRTH AND DEATH RATES

Rate per 1,000 Population  
PHILIPPINES, 1940-1990

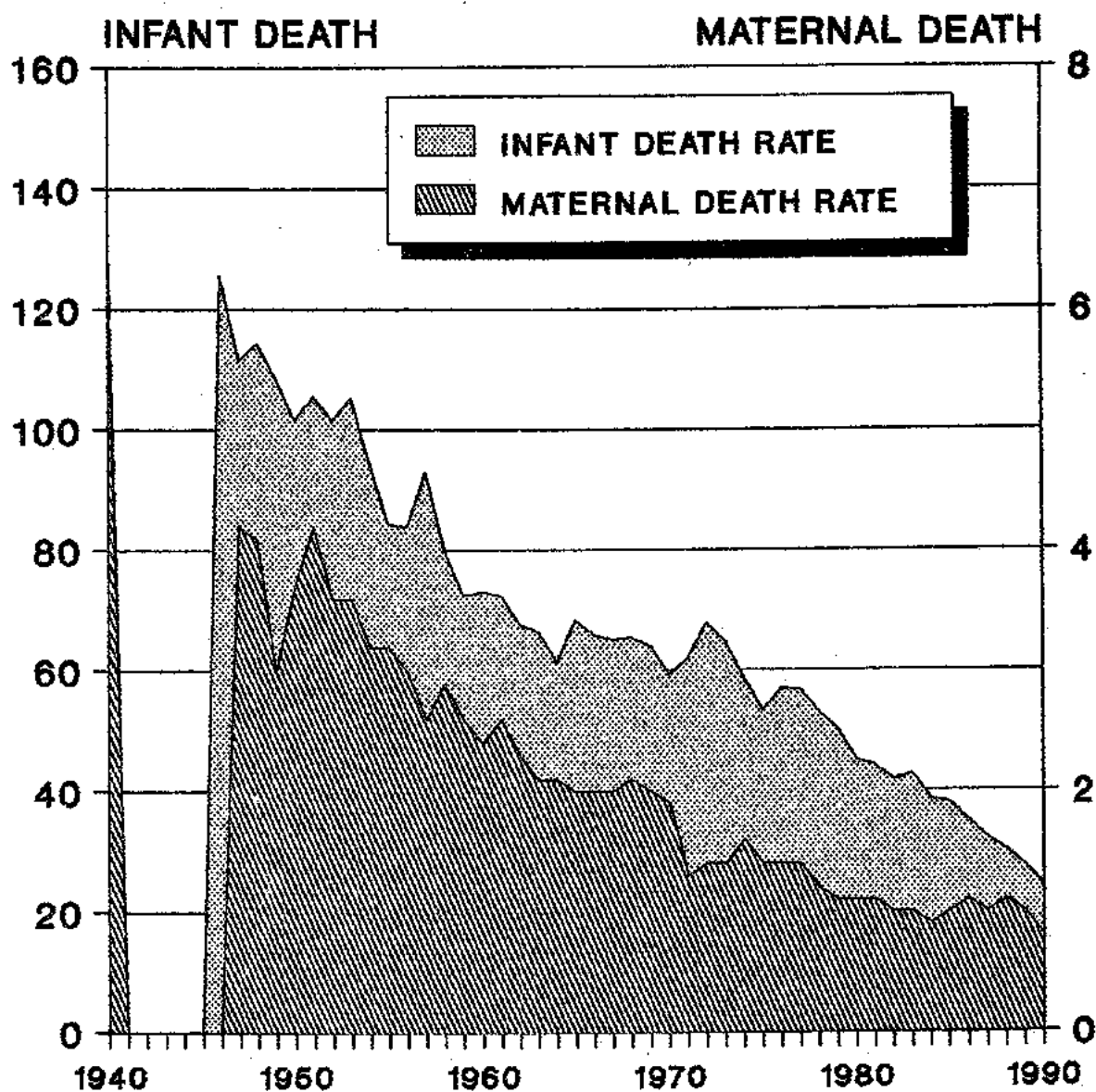


Note: No data available for  
years 1941 to 1945

Fig. 4

# INFANT AND MATERNAL DEATH RATES

Rate per 1,000 Livebirths  
PHILIPPINES, 1940-1990



Note: No data available for years 1941 to 1945 & MDR for 1939

Fig. 5

TABLE 5 LIVEBIRTHS, TOTAL DEATHS AND INFANT, FETAL & MATERNAL DEATHS  
BY HEALTH REGION, PROVINCE & CITY

15

No. & Rate  
PHILIPPINES  
1990

| A R E A             | BIRTHS  |      | TOTAL DEATHS |      | DEATHS UNDER 1 YR. |      | FETAL DEATHS |      | MATERNAL DEATHS |      |
|---------------------|---------|------|--------------|------|--------------------|------|--------------|------|-----------------|------|
|                     | Number  | Rate | Number       | Rate | Number             | Rate | Number       | Rate | Number          | Rate |
| PHILIPPINES.....    | 1631069 | 26.3 | 313890       | 5.1  | 39633              | 24.3 | 11915        | 7.3  | 1307            | 0.8  |
| NAT. CAP. REGION... | 281817  | 34.8 | 49591        | 6.1  | 7712               | 27.4 | 2673         | 9.5  | 113             | 0.4  |
| 1ST DIST. MANILA... | 101830  | 41.5 | 15776        | 6.4  | 2633               | 25.9 | 1071         | 10.5 | 19              | 0.2  |
| 2ND DIST. MUN.      | 33390   | 31.8 | 5960         | 5.7  | 929                | 27.8 | 392          | 11.7 | 30              | 0.9  |
| QUEZON CITY.....    | 56039   | 32.9 | 12718        | 7.5  | 1747               | 31.2 | 353          | 6.3  | 26              | 0.5  |
| 3RD DIST. MUN.      | 18612   | 22.1 | 3208         | 3.8  | 577                | 31.0 | 84           | 4.5  | 7               | 0.4  |
| CALOOCAN CITY....   | 18700   | 24.0 | 3891         | 5.0  | 618                | 33.0 | 187          | 10.0 | 12              | 0.6  |
| 4TH DIST. MUN.      | 43563   | 48.6 | 6361         | 7.1  | 963                | 22.1 | 468          | 10.7 | 12              | 0.3  |
| PASAY CITY.....     | 9683    | 25.8 | 1677         | 4.5  | 245                | 25.3 | 118          | 12.2 | 7               | 0.7  |
| C.A.R.              | 29059   | 24.9 | 4530         | 3.9  | 438                | 15.1 | 137          | 4.7  | 17              | 0.6  |
| ABRA.....           | 3042    | 16.1 | 692          | 3.7  | 63                 | 20.7 | 4            | 1.3  | 1               | 0.3  |
| BENGUET.....        | 9171    | 29.6 | 1138         | 3.7  | 133                | 14.6 | 58           | 6.3  | 6               | 0.7  |
| IFUGAO.....         | 3107    | 20.6 | 366          | 2.4  | 43                 | 13.8 | 4            | 1.3  | 4               | 1.3  |
| KALINGA-APAYAO...   | 4107    | 19.0 | 570          | 2.6  | 42                 | 10.2 | 5            | 1.2  | 3               | 0.7  |
| MT. PROVINCE.....   | 2769    | 23.3 | 405          | 3.4  | 44                 | 15.9 | 24           | 8.7  | 0               | -    |
| BAGUIO CITY.....    | 6863    | 37.2 | 1359         | 7.4  | 113                | 16.5 | 42           | 6.1  | 3               | 0.4  |
| REGION 1            | 98092   | 27.0 | 24461        | 6.7  | 2742               | 28.0 | 824          | 8.4  | 74              | 0.8  |
| ILOCOS NORTE.....   | 8901    | 23.0 | 2507         | 6.5  | 227                | 25.5 | 78           | 8.8  | 5               | 0.6  |
| ILOCOS SUR.....     | 12050   | 22.6 | 3636         | 6.8  | 316                | 26.2 | 87           | 7.2  | 10              | 0.8  |
| LA UNION.....       | 15095   | 26.9 | 4162         | 7.4  | 429                | 28.4 | 139          | 9.2  | 18              | 1.2  |
| PANGASINAN.....     | 48908   | 26.9 | 10797        | 5.9  | 1304               | 26.7 | 343          | 7.0  | 27              | 0.5  |
| DAGUPAN CITY.....   | 6778    | 54.1 | 1811         | 14.5 | 310                | 45.7 | 142          | 21.0 | 7               | 1.0  |
| LAOAG CITY.....     | 2036    | 23.7 | 683          | 8.0  | 61                 | 30.0 | 15           | 7.4  | 1               | 0.5  |
| SAN CARLOS CITY...  | 4324    | 33.9 | 865          | 6.8  | 95                 | 22.0 | 20           | 4.6  | 6               | 1.4  |
| REGION 2            | 66163   | 27.6 | 12462        | 5.2  | 1771               | 26.8 | 294          | 4.4  | 92              | 1.4  |
| BATANES.....        | 394     | 25.7 | 95           | 6.2  | 14                 | 35.5 | 0            | -    | 0               | -    |
| CAGAYAN.....        | 23146   | 27.3 | 5216         | 6.1  | 735                | 31.9 | 109          | 4.7  | 41              | 1.8  |
| ISABELA.....        | 31618   | 28.6 | 5229         | 4.7  | 773                | 24.4 | 146          | 4.6  | 43              | 1.4  |
| NUEVA VIZCAYA.....  | 7902    | 25.7 | 1445         | 4.7  | 175                | 22.1 | 35           | 4.4  | 7               | 0.9  |
| QUIRINO.....        | 3103    | 26.6 | 477          | 4.1  | 74                 | 23.8 | 4            | 1.3  | 1               | 0.3  |
| REGION 3            | 179158  | 28.3 | 31853        | 5.0  | 3468               | 19.4 | 1333         | 7.4  | 92              | 0.5  |
| BATAAN.....         | 12475   | 28.7 | 2182         | 5.0  | 275                | 22.0 | 136          | 10.9 | 5               | 0.4  |
| BULACAN.....        | 42422   | 27.6 | 8352         | 5.4  | 986                | 23.2 | 485          | 11.4 | 26              | 0.6  |
| NUEVA ECLJA.....    | 24562   | 23.7 | 4582         | 4.4  | 490                | 19.9 | 95           | 3.9  | 7               | 0.3  |
| PAMPANGA.....       | 38390   | 29.0 | 5555         | 4.2  | 468                | 12.2 | 90           | 2.3  | 12              | 0.3  |
| TARLAC.....         | 25983   | 29.5 | 4606         | 5.2  | 510                | 19.6 | 170          | 6.5  | 18              | 0.7  |
| ZAMBALES.....       | 8932    | 26.3 | 1883         | 5.0  | 135                | 18.6 | 81           | 8.2  | 8               | 0.8  |

TABLE 5

LIVEBIRTHS, TOTAL DEATHS AND INFANT, FETAL & MATERNAL DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate  
PHILIPPINES  
1990

| A R E A             | BIRTHS |      | TOTAL DEATHS |      | DEATHS UNDER 1 YR. |      | FETAL DEATHS |      | MATERNAL DEATHS |      |
|---------------------|--------|------|--------------|------|--------------------|------|--------------|------|-----------------|------|
|                     | Number | Rate | Number       | Rate | Number             | Rate | Number       | Rate | Number          | Rate |
| ANGELES CITY.....   | 8624   | 35.7 | 1363         | 5.6  | 171                | 19.8 | 113          | 13.1 | 4               | 0.5  |
| CABANATUAN CITY.... | 6880   | 35.9 | 1531         | 8.0  | 134                | 19.5 | 21           | 3.1  | 3               | 0.4  |
| OLONGAPO CITY.....  | 6773   | 34.2 | 1160         | 5.9  | 155                | 22.9 | 96           | 14.2 | 5               | 0.7  |
| PALAYAN CITY.....   | 550    | 25.3 | 74           | 3.4  | 9                  | 16.4 | 3            | 5.5  | 0               | -    |
| SAN JOSE CITY.....  | 2567   | 27.9 | 565          | 6.1  | 85                 | 33.1 | 43           | 16.8 | 4               | 1.6  |
| REGION 4            | 226957 | 26.9 | 45116        | 5.3  | 6063               | 26.7 | 2360         | 10.4 | 205             | 0.9  |
| AURORA.....         | 4400   | 30.9 | 718          | 5.0  | 131                | 29.8 | 21           | 4.8  | 8               | 1.8  |
| BATANGAS.....       | 30778  | 26.6 | 5965         | 5.2  | 613                | 19.9 | 201          | 6.5  | 17              | 0.6  |
| CAVITE.....         | 20094  | 19.2 | 4678         | 4.5  | 522                | 26.0 | 253          | 12.6 | 13              | 0.6  |
| LAGUNA.....         | 31616  | 25.6 | 6505         | 5.3  | 748                | 23.7 | 323          | 10.2 | 15              | 0.5  |
| MARINDUQUE.....     | 5686   | 29.9 | 1256         | 6.6  | 175                | 30.8 | 128          | 22.5 | 10              | 1.8  |
| MINDORO OCC.....    | 7426   | 25.7 | 1073         | 3.7  | 124                | 16.7 | 32           | 4.3  | 12              | 1.6  |
| MINDORO OR.....     | 16381  | 29.1 | 2835         | 5.0  | 407                | 24.8 | 224          | 13.7 | 7               | 0.4  |
| PALAWAN.....        | 9007   | 20.2 | 1136         | 2.6  | 165                | 18.3 | 37           | 4.1  | 12              | 1.3  |
| QUEZON.....         | 35907  | 28.7 | 8265         | 6.6  | 1308               | 36.4 | 328          | 9.1  | 51              | 1.4  |
| RIZAL.....          | 25973  | 26.0 | 4505         | 4.5  | 679                | 26.1 | 309          | 11.9 | 24              | 0.9  |
| ROMBLON.....        | 6402   | 27.5 | 1377         | 5.9  | 210                | 32.8 | 68           | 10.6 | 13              | 2.0  |
| BATANGAS CITY.....  | 7668   | 40.5 | 1163         | 6.1  | 165                | 21.5 | 67           | 8.7  | 2               | 0.3  |
| CAVITE CITY.....    | 3054   | 32.5 | 721          | 7.7  | 119                | 39.0 | 44           | 14.4 | 5               | 1.6  |
| LIPA CITY.....      | 5432   | 33.1 | 1070         | 6.5  | 165                | 30.4 | 66           | 12.2 | 3               | 0.6  |
| LUCENA CITY.....    | 6603   | 43.0 | 1543         | 10.1 | 212                | 32.1 | 103          | 15.6 | 5               | 0.8  |
| PUERTO PRINCESA.... | 2820   | 30.6 | 491          | 5.3  | 70                 | 24.8 | 24           | 8.5  | 4               | 1.4  |
| SAN PABLO CITY..... | 5874   | 35.5 | 1390         | 8.4  | 167                | 28.4 | 82           | 14.0 | 4               | 0.7  |
| TAGAYTAY CITY.....  | 524    | 21.5 | 94           | 3.9  | 9                  | 17.2 | 3            | 5.7  | 0               | -    |
| TRECE MARTIRES....  | 1312   | 81.6 | 331          | 20.6 | 74                 | 56.4 | 47           | 35.8 | 0               | -    |
| REGION 5            | 109151 | 27.3 | 22131        | 5.5  | 2749               | 25.2 | 718          | 6.6  | 138             | 1.3  |
| ALBAY.....          | 24459  | 30.5 | 4579         | 5.7  | 503                | 20.6 | 160          | 6.5  | 25              | 1.0  |
| CAMARINES NORTE.... | 12103  | 30.3 | 2878         | 7.2  | 516                | 42.6 | 124          | 10.2 | 18              | 1.5  |
| CAMARINES SUR.....  | 32167  | 28.9 | 5783         | 5.2  | 750                | 23.3 | 212          | 6.6  | 43              | 1.3  |
| CATANDUANES.....    | 5514   | 28.8 | 1212         | 6.3  | 153                | 27.7 | 53           | 9.6  | 5               | 0.9  |
| MASBATE.....        | 7504   | 12.2 | 1905         | 3.1  | 283                | 37.7 | 32           | 4.3  | 16              | 2.1  |
| SORSOGON.....       | 14203  | 26.5 | 3148         | 5.9  | 319                | 22.5 | 76           | 5.4  | 17              | 1.2  |
| IRIGA CITY.....     | 2437   | 29.2 | 508          | 6.1  | 49                 | 20.1 | 1            | 0.4  | 5               | 2.1  |
| LEGASPI CITY.....   | 3870   | 31.2 | 928          | 7.5  | 101                | 26.1 | 39           | 10.1 | 4               | 1.0  |
| NAGA CITY.....      | 6894   | 49.9 | 1190         | 8.6  | 75                 | 10.9 | 21           | 3.0  | 5               | 0.7  |
| REGION 6            | 115915 | 21.0 | 31161        | 5.6  | 3306               | 28.5 | 663          | 5.7  | 121             | 1.0  |
| AKLAN.....          | 9006   | 23.1 | 2467         | 6.3  | 265                | 29.4 | 40           | 4.4  | 12              | 1.3  |
| ANTIQUE.....        | 8830   | 21.2 | 2937         | 7.1  | 356                | 40.3 | 66           | 7.5  | 4               | 0.4  |
| CAPIZ.....          | 9511   | 20.4 | 2356         | 5.1  | 315                | 33.1 | 39           | 4.1  | 12              | 1.3  |
| ILOILO.....         | 29159  | 19.6 | 7743         | 5.2  | 834                | 28.6 | 172          | 5.9  | 35              | 1.2  |
| NEGROS OCC.....     | 27455  | 19.4 | 5789         | 4.1  | 654                | 23.8 | 127          | 4.6  | 28              | 1.0  |

TABLE 5 LIVEBIRTHS, TOTAL DEATHS AND INFANT, FETAL & MATERNAL DEATHS  
BY HEALTH REGION, PROVINCE & CITY

No. & Rate  
PHILIPPINES  
1990

| A R E A             | BIRTHS |      | TOTAL DEATHS |      | DEATHS UNDER 1 YR. |      | FETAL DEATHS |      | MATERNAL DEATHS |      |
|---------------------|--------|------|--------------|------|--------------------|------|--------------|------|-----------------|------|
|                     | Number | Rate | Number       | Rate | Number             | Rate | Number       | Rate | Number          | Rate |
| BACOLOD CITY.....   | 8235   | 22.1 | 3423         | 9.2  | 270                | 32.8 | 68           | 8.3  | 9               | 1.1  |
| BAGO CITY.....      | 1735   | 13.8 | 530          | 4.2  | 76                 | 43.8 | 12           | 6.9  | 0               | -    |
| CADIZ CITY.....     | 2454   | 20.0 | 453          | 3.7  | 28                 | 11.4 | 6            | 2.4  | 2               | 0.8  |
| ILOILO CITY.....    | 9349   | 29.5 | 2848         | 9.0  | 191                | 20.4 | 67           | 7.2  | 6               | 0.6  |
| LA CARLOTA CITY.... | 925    | 16.0 | 259          | 4.5  | 20                 | 21.6 | 13           | 14.1 | 1               | 1.1  |
| ROXAS CITY.....     | 3641   | 27.7 | 981          | 7.5  | 121                | 33.2 | 2            | 0.5  | 2               | 0.5  |
| SAN CARLOS CITY.... | 2562   | 23.7 | 692          | 6.4  | 95                 | 37.1 | 22           | 8.6  | 7               | 2.7  |
| SILAY CITY.....     | 3053   | 29.5 | 683          | 6.6  | 81                 | 26.5 | 29           | 8.5  | 3               | 1.0  |
| REGION 7            | 140231 | 29.9 | 28177        | 6.0  | 3764               | 26.8 | 1018         | 7.3  | 108             | 0.8  |
| BOHOL.....          | 23877  | 26.1 | 5441         | 6.0  | 765                | 32.0 | 183          | 7.7  | 23              | 1.0  |
| CEBU.....           | 43606  | 28.1 | 8732         | 5.6  | 1220               | 28.0 | 274          | 6.3  | 37              | 0.8  |
| NEGROS OR.....      | 18467  | 24.1 | 2341         | 3.1  | 262                | 14.2 | 21           | 1.1  | 5               | 0.3  |
| SIGUIJOR.....       | 1859   | 25.9 | 528          | 7.0  | 48                 | 24.4 | 10           | 5.1  | 0               | -    |
| BAIS CITY.....      | 1647   | 27.0 | 235          | 3.9  | 28                 | 17.0 | 2            | 1.2  | 1               | 0.6  |
| CANLON CITY.....    | 1051   | 27.6 | 306          | 8.0  | 60                 | 57.1 | 14           | 13.3 | 1               | 1.0  |
| CEBU CITY.....      | 27278  | 44.0 | 6071         | 9.8  | 754                | 27.6 | 334          | 12.2 | 15              | 0.5  |
| DANAO CITY.....     | 2430   | 32.4 | 522          | 7.0  | 88                 | 36.2 | 42           | 17.3 | 2               | 0.8  |
| DUMAGUETE CITY....  | 4038   | 49.7 | 1118         | 13.8 | 112                | 27.7 | 40           | 9.9  | 7               | 1.7  |
| LAPU-LAPU CITY....  | 4758   | 31.9 | 805          | 5.4  | 164                | 34.5 | 0            | -    | 2               | 0.4  |
| MANDAWE CITY.....   | 4309   | 23.4 | 800          | 4.3  | 136                | 31.6 | 66           | 15.3 | 4               | 0.9  |
| TAGBILARAN CITY.... | 2863   | 50.2 | 725          | 12.7 | 42                 | 14.7 | 5            | 1.7  | 9               | 3.1  |
| TOLEDO CITY.....    | 3948   | 32.2 | 553          | 4.5  | 85                 | 21.5 | 27           | 6.8  | 2               | 0.5  |
| REGION 8            | 57857  | 18.5 | 15407        | 4.9  | 1567               | 27.1 | 206          | 3.6  | 88              | 1.5  |
| LEYTE DEL NORTE...  | 27510  | 22.1 | 6837         | 5.5  | 720                | 26.2 | 113          | 4.1  | 35              | 1.3  |
| LEYTE DEL SUR.....  | 9078   | 27.6 | 2260         | 6.9  | 297                | 32.7 | 66           | 7.3  | 10              | 1.1  |
| EASTERN SAMAR.....  | 4142   | 12.3 | 812          | 2.4  | 34                 | 8.2  | 0            | -    | 6               | 1.4  |
| NORTHERN SAMAR....  | 4306   | 11.0 | 1641         | 4.2  | 180                | 41.8 | 4            | 0.9  | 14              | 3.3  |
| WESTERN SAMAR.....  | 3496   | 8.2  | 1048         | 2.5  | 86                 | 24.6 | 6            | 1.7  | 8               | 2.3  |
| CALBAYOG CITY.....  | 1506   | 12.8 | 640          | 5.4  | 52                 | 34.5 | 1            | 0.7  | 4               | 2.7  |
| ORMOC CITY.....     | 4031   | 30.4 | 751          | 5.7  | 55                 | 13.6 | 16           | 4.0  | 4               | 1.0  |
| TACLOBAN CITY.....  | 3788   | 26.9 | 1418         | 10.1 | 143                | 37.8 | 0            | -    | 7               | 1.8  |
| REGION 9            | 60661  | 18.8 | 10165        | 3.1  | 1487               | 24.5 | 293          | 4.8  | 48              | 0.8  |
| BASILAN.....        | 1703   | 7.0  | 578          | 2.4  | 53                 | 31.1 | 5            | 2.9  | 3               | 1.8  |
| SULU.....           | 1579   | 3.3  | 817          | 1.7  | 149                | 94.4 | 10           | 6.3  | 5               | 3.2  |
| TAWI-TAWI.....      | 418    | 1.8  | 39           | 0.2  | 0                  | -    | 1            | 2.4  | 0               | -    |
| ZAMB. DEL NORTE...  | 12321  | 22.4 | 1637         | 3.9  | 239                | 19.4 | 18           | 1.5  | 3               | 0.2  |
| ZAMB. DEL SUR.....  | 26328  | 25.9 | 2577         | 2.5  | 339                | 12.9 | 62           | 2.4  | 19              | 0.7  |

TABLE 5

LIVEBIRTHS, TOTAL DEATHS AND INFANT, FETAL & MATERNAL DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate  
PHILIPPINES  
1990

| A R E A             | BIRTHS |      | TOTAL DEATHS |      | DEATHS UNDER 1 YR. |      | FETAL DEATHS |      | MATERNAL DEATHS |      |
|---------------------|--------|------|--------------|------|--------------------|------|--------------|------|-----------------|------|
|                     | Number | Rate | Number       | Rate | Number             | Rate | Number       | Rate | Number          | Rate |
| DAPITAN CITY.....   | 1911   | 31.0 | 383          | 6.2  | 63                 | 33.0 | 22           | 11.5 | 1               | 0.5  |
| DIFOLOG CITY.....   | 2562   | 31.4 | 566          | 6.9  | 97                 | 37.9 | 1            | 0.4  | 2               | 0.8  |
| PAGADIAN CITY.....  | 3401   | 31.4 | 867          | 8.0  | 160                | 47.0 | 39           | 11.5 | 3               | 0.9  |
| ZAMBOANGA CITY..... | 10438  | 23.1 | 2701         | 6.0  | 387                | 37.1 | 135          | 12.9 | 12              | 1.1  |
| REGION 10           | 99920  | 27.8 | 15456        | 4.3  | 1891               | 18.9 | 613          | 6.1  | 94              | 0.9  |
| AGUSAN DEL NORTE..  | 6397   | 26.3 | 959          | 3.9  | 107                | 16.7 | 15           | 2.3  | 12              | 1.9  |
| AGUSAN DEL SUR....  | 10932  | 25.4 | 1058         | 2.5  | 109                | 10.0 | 19           | 1.7  | 9               | 0.8  |
| BUKIDNON.....       | 26011  | 30.1 | 2326         | 2.7  | 369                | 14.2 | 150          | 5.8  | 21              | 0.8  |
| CAMIGUIN.....       | 1843   | 28.0 | 403          | 6.1  | 42                 | 22.8 | 6            | 3.3  | 0               | -    |
| MISAMIS OCC.....    | 5612   | 23.1 | 1171         | 4.8  | 121                | 21.6 | 18           | 3.2  | 4               | 0.7  |
| MISAMIS OR.....     | 12420  | 27.4 | 1897         | 4.2  | 249                | 20.0 | 95           | 7.6  | 6               | 0.5  |
| SURIGAO DEL NORTE.. | 6446   | 19.3 | 1199         | 3.6  | 129                | 20.0 | 13           | 2.0  | 10              | 1.6  |
| BUTUAN CITY.....    | 6575   | 28.2 | 1490         | 6.4  | 213                | 32.4 | 62           | 9.4  | 10              | 1.5  |
| CAGAYAN DE ORO....  | 12325  | 35.6 | 2176         | 6.3  | 241                | 19.6 | 136          | 11.0 | 4               | 0.3  |
| GINGOOG CITY.....   | 2182   | 25.8 | 546          | 6.5  | 77                 | 35.3 | 31           | 14.2 | 5               | 2.3  |
| OROQUIETA CITY....  | 1713   | 31.9 | 527          | 9.8  | 39                 | 22.8 | 8            | 4.7  | 1               | 0.6  |
| OZAMIS CITY.....    | 3025   | 32.4 | 734          | 7.9  | 101                | 33.4 | 38           | 12.6 | 4               | 1.3  |
| SURIGAO CITY.....   | 3345   | 32.6 | 674          | 6.6  | 56                 | 16.7 | 11           | 3.3  | 7               | 2.1  |
| TANGUB CITY.....    | 1094   | 24.9 | 296          | 6.7  | 38                 | 34.7 | 11           | 10.1 | 1               | 0.9  |
| REGION 11           | 119897 | 26.3 | 17371        | 3.8  | 2035               | 17.0 | 567          | 4.7  | 97              | 0.7  |
| COTABATO SOUTH....  | 20042  | 23.8 | 2719         | 3.2  | 282                | 14.1 | 59           | 2.9  | 8               | 0.4  |
| DAVAO ORIENTAL....  | 8124   | 20.1 | 1011         | 2.5  | 135                | 16.6 | 24           | 3.0  | 8               | 1.0  |
| DAVAO DEL NORTE...  | 32123  | 29.8 | 3990         | 3.7  | 575                | 17.9 | 186          | 5.8  | 21              | 0.7  |
| DAVAO DEL SUR....   | 14297  | 22.1 | 2040         | 3.1  | 196                | 13.7 | 45           | 3.1  | 17              | 1.2  |
| SURIGAO DEL SUR...  | 11827  | 25.6 | 1965         | 4.2  | 305                | 25.8 | 71           | 6.0  | 14              | 1.2  |
| DAVAO CITY.....     | 24774  | 28.6 | 4102         | 4.7  | 294                | 11.9 | 124          | 5.0  | 16              | 0.6  |
| GEN. SANTOS CITY..  | 8810   | 34.4 | 1544         | 6.0  | 248                | 28.1 | 58           | 6.6  | 3               | 0.3  |
| REGION 12           | 46091  | 14.2 | 6009         | 1.9  | 640                | 13.4 | 216          | 4.7  | 30              | 0.7  |
| NORTH COTABATO....  | 13133  | 16.8 | 791          | 1.0  | 58                 | 4.4  | 10           | 0.8  | 4               | 0.3  |
| LANAO DEL NORTE...  | 8697   | 21.9 | 1071         | 2.7  | 145                | 16.7 | 31           | 3.6  | 6               | 0.7  |
| LANAO DEL SUR.....  | 1186   | 2.3  | 133          | 0.3  | 6                  | 5.1  | 0            | -    | 0               | -    |
| MAGUINDANAO.....    | 2369   | 3.7  | 382          | 0.6  | 12                 | 5.1  | 8            | 3.4  | 2               | 0.8  |
| SULTAN KUDARAT....  | 9090   | 20.4 | 1176         | 2.6  | 108                | 11.9 | 21           | 2.3  | 6               | 0.7  |
| COTABATO CITY.....  | 3081   | 23.7 | 765          | 5.9  | 62                 | 20.1 | 19           | 6.2  | 2               | 0.6  |
| ILIGAN CITY.....    | 7936   | 34.3 | 1582         | 6.8  | 232                | 29.2 | 124          | 15.6 | 10              | 1.3  |
| MARAWI CITY.....    | 599    | 6.4  | 109          | 1.2  | 17                 | 28.4 | 3            | 5.0  | 0               | -    |

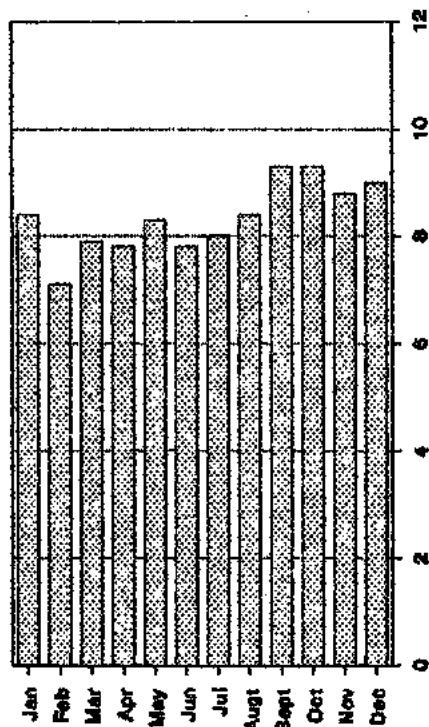
TABLE 6

LIVEBIRTHS, DEATHS, INFANT, MATERNAL & FETAL DEATHS  
BY MONTH OF OCCURRENCE  
No. & Percent Distribution  
PHILIPPINES  
1990

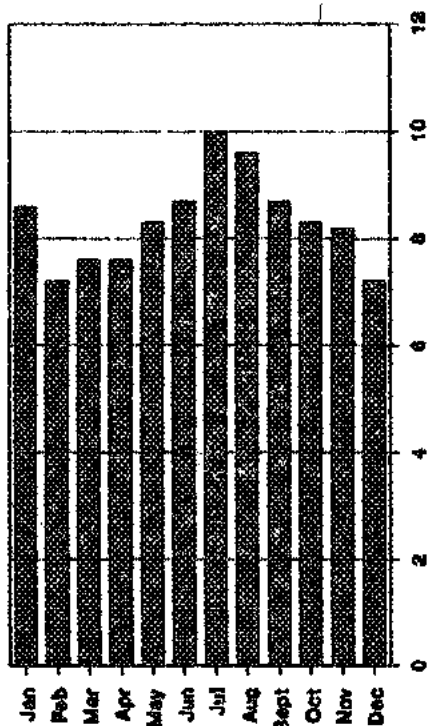
19

| MONTH         | BIRTHS  |       | DEATHS |       | INFANT DEATHS |       | MATERNAL DEATHS |       | FETAL DEATHS |       |
|---------------|---------|-------|--------|-------|---------------|-------|-----------------|-------|--------------|-------|
|               | No.     | %     | No.    | %     | No.           | %     | No.             | %     | No.          | %     |
| JANUARY.....  | 137329  | 8.4   | 27504  | 8.8   | 3420          | 8.6   | 138             | 10.6  | 1055         | 8.9   |
| FEBRUARY..... | 116473  | 7.1   | 23323  | 7.4   | 2871          | 7.2   | 114             | 8.7   | 903          | 7.6   |
| MARCH.....    | 128183  | 7.9   | 24733  | 7.9   | 3013          | 7.6   | 100             | 7.7   | 973          | 8.2   |
| APRIL.....    | 127604  | 7.8   | 25107  | 8.0   | 3012          | 7.6   | 103             | 7.9   | 842          | 7.1   |
| MAY.....      | 134620  | 8.3   | 26640  | 8.5   | 3271          | 8.3   | 120             | 9.2   | 1001         | 8.4   |
| JUNE.....     | 127040  | 7.8   | 26384  | 8.4   | 3442          | 8.7   | 103             | 7.9   | 920          | 7.7   |
| JULY.....     | 129890  | 8.0   | 29286  | 9.3   | 3954          | 10.0  | 95              | 7.3   | 1024         | 8.6   |
| AUGUST.....   | 136863  | 8.4   | 27438  | 8.7   | 3818          | 9.6   | 109             | 8.3   | 1036         | 8.7   |
| SEPTEMBER...  | 150893  | 9.3   | 25935  | 8.3   | 3447          | 8.7   | 107             | 8.2   | 1033         | 8.7   |
| OCTOBER.....  | 151095  | 9.3   | 25973  | 8.3   | 3278          | 8.3   | 103             | 7.9   | 1128         | 9.5   |
| NOVEMBER..... | 143309  | 8.8   | 25847  | 8.2   | 3256          | 8.2   | 116             | 8.9   | 1064         | 8.9   |
| DECEMBER..... | 146760  | 9.0   | 25720  | 8.2   | 2851          | 7.2   | 89              | 7.6   | 936          | 7.9   |
| T O T A L     | 1631069 | 100.0 | 313890 | 100.0 | 39633         | 100.0 | 1307            | 100.0 | 11915        | 100.0 |

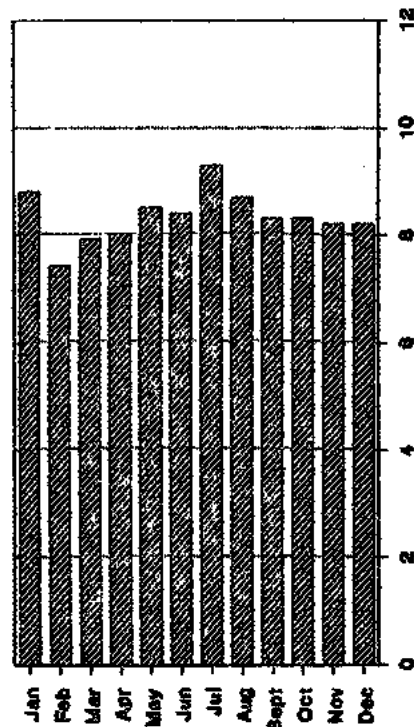
**LIVEBIRTHS BY MONTH OF OCCURRENCE**  
PERCENTAGE DISTRIBUTION  
PHILIPPINES, 1990



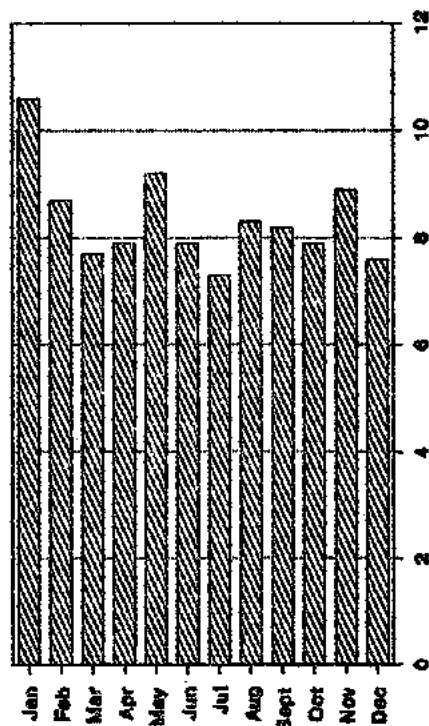
**INFANT DEATHS BY MONTH OF OCCURRENCE**  
PERCENTAGE DISTRIBUTION  
PHILIPPINES, 1990



**DEATHS BY MONTH OF OCCURRENCE**  
PERCENTAGE DISTRIBUTION  
PHILIPPINES, 1990



**MATERNAL DEATHS BY MONTH OF OCCURRENCE**  
PERCENTAGE DISTRIBUTION  
PHILIPPINES, 1990



**Fig. 6**

TABLE 7

TOTAL LIVEBIRTHS, FEMALE POPULATION (15-49 YEARS))  
& FERTILITY RATE BY HEALTH REGION  
PHILIPPINES  
1990

| A R E A            | TOTAL<br>LIVEBIRTHS | FEMALE POPULATION<br>(15 - 49 Years) | FERTILITY<br>RATE |
|--------------------|---------------------|--------------------------------------|-------------------|
| PHILIPPINES.....   | 1,631,069           | 15,543,572                           | 104.9             |
| NAT. CAP. REGION.. | 281,817             | 2,403,936                            | 117.2             |
| C. A. R. ....      | 29,059              | 245,807                              | 118.2             |
| REGION 1.....      | 98,092              | 831,334                              | 118.0             |
| REGION 2.....      | 66,163              | 678,801                              | 97.5              |
| REGION 3.....      | 179,158             | 1,607,757                            | 111.4             |
| REGION 4.....      | 226,957             | 2,021,445                            | 112.3             |
| REGION 5.....      | 109,151             | 973,461                              | 112.1             |
| REGION 6.....      | 115,915             | 1,352,450                            | 85.7              |
| REGION 7.....      | 140,231             | 1,148,984                            | 122.0             |
| REGION 8.....      | 57,857              | 780,580                              | 74.1              |
| REGION 9.....      | 60,661              | 820,738                              | 73.9              |
| REGION 10.....     | 99,920              | 871,020                              | 114.7             |
| REGION 11.....     | 119,997             | 1,086,123                            | 110.5             |
| REGION 12.....     | 46,091              | 721,136                              | 63.9              |

# FERTILITY RATE BY REGION PHILIPPINES 1990

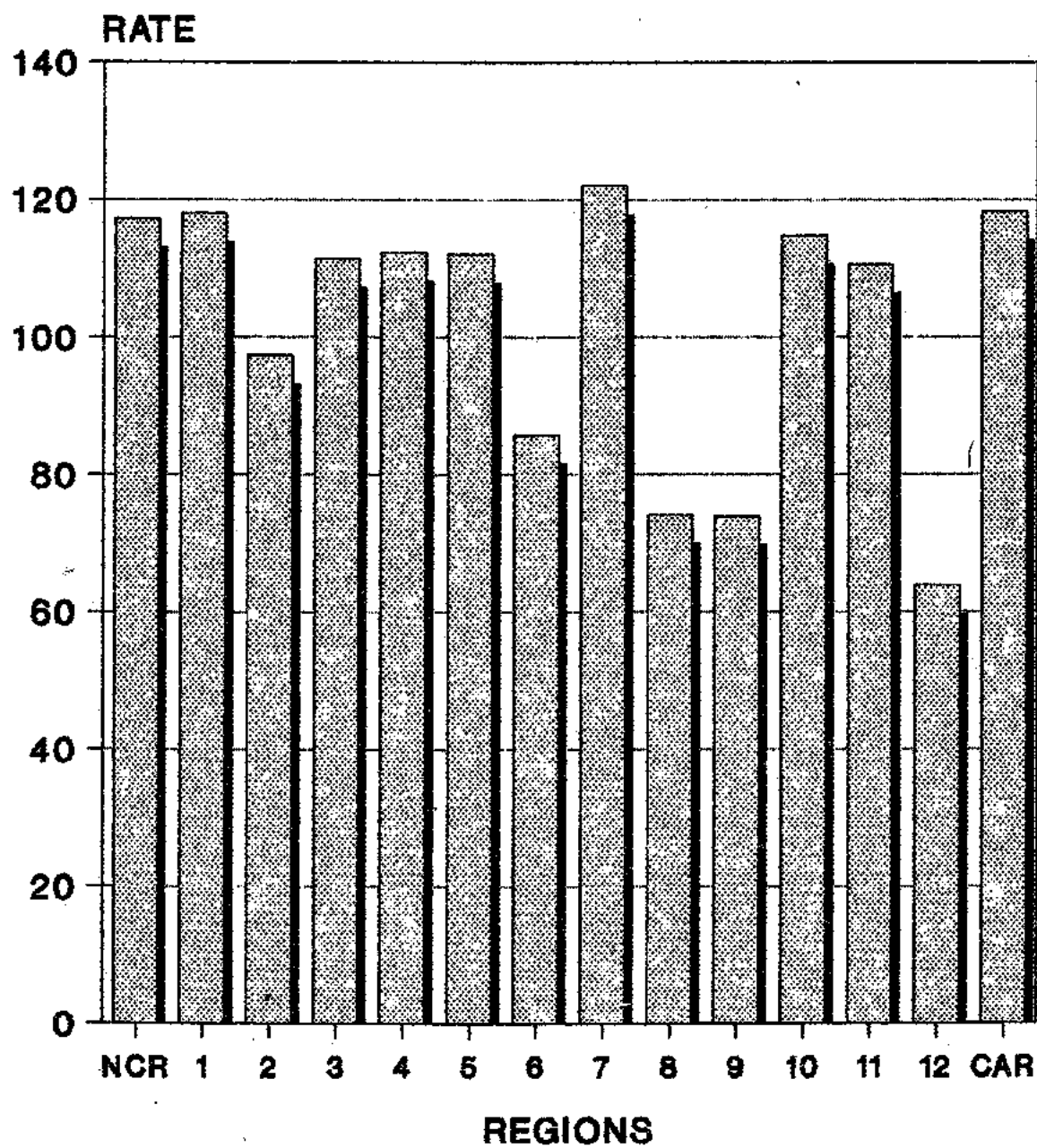


Fig. 7

## NATALITY STATISTICS

All birth statistics tabulated and presented in the reports are based on information received by the Office of the Civil Registrar General from all Local Civil Registrars throughout the Philippines.

In 1990, a total 1,631,069 births were registered. This number represents an increase of 65815 or 4.2% than that of the 1989 figure.

The crude birth rate of 26.3 in 1990 is slightly higher than that of 1989 which is 26.0. The average birth rate for the past ten years (1981-1990) is 27.4 per 1,000 population. While the population has increased by 277.0% since 1940; improvement in birth registration during this period was not consistent with the tremendous population increase.

The figure of 1,631,069 represents the total number of livebirths registered in 1990. This does not represent the actual total number of babies born alive in the year but since there is no measure of registration of birth which is valid for the whole country, no correction was made for such.

Trend of Crude Birth - The number of livebirths registered and the corresponding birth rate from 1940 to 1990 is presented in Table 4. During these period, the crude birth rate showed a general declining trend and changes were rather slow and irregular during the later years. For the year 1940, the rate was 32.5 per 1,000 population. There were no available data during the war years (1941-1945). After World War II (1946) the crude birth rate went down to 28.9 only to rise again the next year and remained stable till 1952. An average of 30 births per 1,000 population prevailed from 1952 to 1959. From then on a declining pattern of the crude birth rate could be observed. However, in the year 1969 and 1970 it went up again to 27.3 and 27.4 respectively. It declined to 25.4 in 1971 and 24.8 in 1972, the lowest ever recorded. The 1972 figure soared to 26.1 in 1973 and went up to 28.8 in 1975 and up again to 30.1 in 1976. A drop to 29.9 was registered for 1977 followed by an increase to 30.5 and 30.7 in 1978 and 1979 respectively. The rates for the decade (1981-1990) showed a declining trend which started in 1981 with 29.5 per 100,000 population and went down to 26.3 in 1985. The average rate for these years 1981-1990 was 27.5 per 100,000 population.

Birth By Sex - Of the total 1,631,069 registered births in 1990, 848,275 are males and 782,794 are females representing 52.0% and 48.0% of the total births respectively. The ratio of male birth to female births is still 1 male for every 0.9 female birth.

Birth By Attendant - Of the total births registered for 1990 (1,631,069), 955,581 (58.6%) had the benefit of medical attendance (Table 9 and 10). This figure showed an increase of 60,883 or 6.4% over that of the previous year. It could be observed that a total of 675,488 births or 41.4% were not medically attended. Of these with medical attendance 443,793 or 27.2% were delivered by physicians, 17,038 or 1.0% by nurses and 494,750 or 30.3% by midwives. The National Capital Region registered the highest medically attended deliveries (89.1%) while Region 5 had the lowest 35.3%.

Crude Birth Rate By Area - Table 5 shows that of all the provinces, Aurora registered the highest birth rate of 30.9 per 1,000 population, while Tawi-Tawi had the lowest rate of 1.8. Of the cities, Trece Martires recorded the highest rate of 81.6 while Marawi City had the lowest, 6.4. Of the 13 health regions, National Capital Region topped the group with a birth rate of 34.8 per 1,000 population, while Region 12 registered the lowest rate of 14.2 per 1,000 population. Variations in the crude birth rate in different places all over the country depend largely on the extent of the completeness of birth registrations and do not necessarily depict the fertility of the people in these areas.

Births By Month of Occurrence - Table 6 and Figure 6 show the distribution of births by month of occurrence. It is clearly noted that the month of October had the highest percentage of birth delivered with 9.3% followed by September and December with percentages of 9.3% and 9.0% respectively. The lowest was seen in February with 7.1%.

Birth By Age of Mother and By Sex - Table 11 and figure 9 show the number of births by age of mother and by sex. More than one-half or 57.9% of all births reported occurred to women in the age group 20-29 years, 6.9% to women below 20 years and 0.6% to women 45 years and over. Male births were more than the female births in almost all age group.

Births By Age of Mother and Number of Living Issues - Living issues refer to the children born alive and are still living at the time of the last delivery of the mother. Excluded from this category were children born alive but died before the delivery of the latest child. Table 12 shows the number of living issues relative to the age of the mother. Generally the number of living issues increase as the age group of mother increases.

General Fertility Rate - The fertility rate of a country is measured in terms of total number of livebirths per 1,000 female population of child bearing age (15-49 years).

In 1990, the female population of such group numbered 15,543,572, while the total livebirths registered was 1,631,069. The fertility rate is 104.9 which is higher by 1.0 or 1.0% than that of the previous year 1989 (103.9).

TABLE 8  
LIVEBIRTHS BY SEX & HEALTH REGION, PROVINCE & CITY  
PHILIPPINES  
1990

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| A R E A              | BOTH SEXES | M A L E | F E M A L E |
|----------------------|------------|---------|-------------|
| PHILIPPINES.....     | 1,631,069  | 848,275 | 782,794     |
| NAT. CAP. REGION.... | 281,817    | 146,550 | 135,267     |
| 1ST DIST. MANILA.... | 101,830    | 52,876  | 48,954      |
| 2ND DIST. MUN.....   | 33,390     | 17,314  | 16,076      |
| QUEZON CITY.....     | 56,039     | 29,309  | 26,730      |
| 3RD DIST. MUN.....   | 18,612     | 9,593   | 9,019       |
| CALOOCAN CITY.....   | 18,700     | 9,663   | 9,037       |
| 4TH DIST. MUN.....   | 43,563     | 22,794  | 20,769      |
| PASAY CITY.....      | 9,683      | 5,001   | 4,682       |
| C.A.R.               | 29,059     | 15,031  | 14,028      |
| AERRA.....           | 3,042      | 1,539   | 1,503       |
| BENGUET.....         | 8,171      | 4,721   | 4,450       |
| IFUGAO.....          | 3,107      | 1,631   | 1,476       |
| KALINGA-APAYAO.....  | 4,107      | 2,114   | 1,993       |
| MT. PROVINCE.....    | 2,769      | 1,453   | 1,316       |
| BAGUIO CITY.....     | 6,863      | 3,573   | 3,290       |
| REGION 1             | 98,092     | 51,480  | 46,612      |
| ILOCOS NORTE.....    | 8,901      | 4,620   | 4,281       |
| ILOCOS SUR.....      | 12,050     | 6,327   | 5,723       |
| LA UNION.....        | 15,095     | 7,850   | 7,245       |
| PANGASINAN.....      | 48,908     | 25,666  | 23,242      |
| DAGUPAN CITY.....    | 6,778      | 3,529   | 3,249       |
| LACAG CITY.....      | 2,036      | 1,030   | 1,006       |
| SAN CARLOS CITY..... | 4,324      | 2,458   | 1,866       |
| REGION 2             | 66,163     | 34,886  | 31,277      |
| BATANES.....         | 394        | 212     | 182         |
| CAGAYAN.....         | 23,146     | 12,100  | 11,046      |
| ISABELA.....         | 31,618     | 16,786  | 14,832      |
| QUIRINO.....         | 3,103      | 1,620   | 1,483       |
| REGION 3             | 179,158    | 93,344  | 85,814      |
| BATAAN.....          | 12,475     | 6,438   | 6,037       |
| BULACAN.....         | 42,422     | 22,217  | 20,205      |
| NOEVA ECIIJA.....    | 24,562     | 12,736  | 11,826      |
| PAMPANGA.....        | 38,390     | 19,947  | 18,443      |
| TARLAC.....          | 25,983     | 13,557  | 12,426      |
| ZAMBALES.....        | 9,932      | 5,156   | 4,776       |

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TABLE 8

LIVEBIRTHS BY SEX & HEALTH REGION, PROVINCE & CITY  
PHILIPPINES

1990

| AREA                      | BOTH SEXES | MALE    | FEMALE  |
|---------------------------|------------|---------|---------|
| ANGELES CITY.....         | 8,624      | 4,542   | 4,082   |
| CABANATUAN CITY.....      | 6,880      | 3,568   | 3,312   |
| OLONGAPO CITY.....        | 6,773      | 3,580   | 3,193   |
| PALAYAN CITY.....         | 550        | 269     | 281     |
| SAN JOSE CITY.....        | 2,567      | 1,334   | 1,233   |
| REGION 4                  | 226,957    | 117,875 | 109,082 |
| AURORA.....               | 4,400      | 2,286   | 2,114   |
| BATANGAS.....             | 30,778     | 15,815  | 14,963  |
| CAVITE.....               | 20,094     | 10,418  | 9,676   |
| LAGUNA.....               | 31,616     | 16,496  | 15,120  |
| MARINDUQUE.....           | 5,686      | 2,889   | 2,797   |
| MINDORO OCC.....          | 7,426      | 3,908   | 3,518   |
| MINDORO OR.....           | 16,381     | 8,366   | 8,015   |
| PALAWAN.....              | 9,007      | 4,713   | 4,294   |
| QUEZON.....               | 35,907     | 18,614  | 17,293  |
| RIZAL.....                | 25,973     | 13,666  | 12,307  |
| ROMBLON.....              | 6,402      | 3,377   | 3,025   |
| BATANGAS CITY.....        | 7,668      | 3,983   | 3,685   |
| CAVITE CITY.....          | 3,054      | 1,600   | 1,454   |
| LIPA CITY.....            | 5,432      | 2,785   | 2,647   |
| LUCENA CITY.....          | 6,603      | 3,405   | 3,198   |
| PUERTO PRINCESA CITY..... | 2,820      | 1,480   | 1,340   |
| SAN PABLO CITY.....       | 5,874      | 3,098   | 2,776   |
| TAGAYTAY CITY.....        | 524        | 289     | 235     |
| TRECE MARTIRES CITY.....  | 1,312      | 687     | 625     |
| REGION 5                  | 109,151    | 56,671  | 52,480  |
| ALBAY.....                | 24,459     | 12,815  | 11,644  |
| CAMARINES NORTE.....      | 12,103     | 6,294   | 5,809   |
| CAMARINES SUR.....        | 32,167     | 16,653  | 15,514  |
| CATANDUANES.....          | 5,514      | 2,794   | 2,720   |
| MASEATE.....              | 7,504      | 3,865   | 3,639   |
| SORSOGON.....             | 14,203     | 7,354   | 6,849   |
| IRIGA CITY.....           | 2,437      | 1,243   | 1,194   |
| LEGASPI CITY.....         | 3,870      | 2,016   | 1,854   |
| NAGA CITY.....            | 6,894      | 3,637   | 3,257   |
| REGION 6                  | 115,915    | 59,788  | 56,127  |
| AKLAN.....                | 9,006      | 4,598   | 4,408   |
| ANTIQUE.....              | 8,830      | 4,650   | 4,280   |
| CAPIZ.....                | 9,511      | 4,811   | 4,700   |
| ILOILO.....               | 29,159     | 15,120  | 14,039  |
| NEGROS OCC.....           | 27,455     | 14,073  | 13,382  |

TABLE 8

LIVEBIRTHS BY SEX & HEALTH REGION, PROVINCE & CITY  
PHILIPPINES  
1990

| A R E A              | BOTH SEXES | M A L E | F E M A L E |
|----------------------|------------|---------|-------------|
| BACOLOD CITY.....    | 8,235      | 4,329   | 3,906       |
| BAGO CITY.....       | 1,735      | 904     | 831         |
| CADIZ CITY.....      | 2,454      | 1,269   | 1,185       |
| ILOILO CITY.....     | 9,349      | 4,860   | 4,489       |
| LA CARLOTA CITY..... | 825        | 482     | 443         |
| ROXAS CITY.....      | 3,641      | 1,879   | 1,762       |
| SAN CARLOS CITY..... | 2,562      | 1,319   | 1,243       |
| SILAY CITY.....      | 3,053      | 1,594   | 1,459       |
| REGION 7             | 140,231    | 73,053  | 67,178      |
| BOHOL.....           | 23,877     | 12,408  | 11,469      |
| CEBU.....            | 43,606     | 22,610  | 20,996      |
| NEGROS OR.....       | 18,467     | 9,548   | 8,918       |
| SIQULJOR.....        | 1,959      | 965     | 994         |
| BAIS CITY.....       | 1,647      | 871     | 776         |
| CANLAON CITY.....    | 1,051      | 524     | 527         |
| CEBU CITY.....       | 27,278     | 14,407  | 12,871      |
| DANAO CITY.....      | 2,430      | 1,250   | 1,180       |
| DUMAGUETE CITY.....  | 4,038      | 2,105   | 1,933       |
| LAPU-LAPU CITY.....  | 4,758      | 2,461   | 2,297       |
| MANDAWE CITY.....    | 4,309      | 2,255   | 2,054       |
| TAGBILARAN CITY..... | 2,863      | 1,523   | 1,340       |
| TOLEDO CITY.....     | 3,948      | 2,125   | 1,823       |
| REGION 8             | 57,857     | 30,043  | 27,814      |
| LEYTE DEL NORTE..... | 27,510     | 14,298  | 13,212      |
| LEYTE DEL SUR.....   | 9,078      | 4,719   | 4,359       |
| EASTERN SAMAR.....   | 4,142      | 2,177   | 1,965       |
| NORTHERN SAMAR.....  | 4,306      | 2,231   | 2,075       |
| WESTERN SAMAR.....   | 3,496      | 1,774   | 1,722       |
| CALBAYOG CITY.....   | 1,506      | 796     | 710         |
| ORMOC CITY.....      | 4,031      | 2,074   | 1,957       |
| TACLOBAN CITY.....   | 3,788      | 1,974   | 1,814       |
| REGION 9             | 60,661     | 31,389  | 29,272      |
| BASILAN.....         | 1,703      | 896     | 807         |
| SULU.....            | 1,579      | 783     | 796         |
| TAWI-TAWI.....       | 418        | 220     | 198         |
| ZAMB. DEL NORTE..... | 12,321     | 6,377   | 5,944       |
| ZAMB. DEL SUR.....   | 26,328     | 13,637  | 12,691      |

TABLE 8

LIVEBIRTHS BY SEX & HEALTH REGION, PROVINCE & CITY  
PHILIPPINES  
1990

| A R E A               | BOTH SEXES | M A L E | F E M A L E |
|-----------------------|------------|---------|-------------|
| DAPITAN CITY.....     | 1,911      | 1,006   | 905         |
| DIPOLOG CITY.....     | 2,562      | 1,350   | 1,212       |
| PAGADIAN CITY.....    | 3,401      | 1,733   | 1,668       |
| ZAMBOANGA CITY.....   | 10,438     | 5,387   | 5,051       |
| REGION 10             | 89,820     | 51,787  | 48,133      |
| AGUSAN DEL NORTE..... | 6,397      | 3,278   | 3,119       |
| AGUSAN DEL SUR.....   | 10,932     | 5,656   | 5,276       |
| BUKIDNON.....         | 26,011     | 13,536  | 12,475      |
| CAMIGUIN.....         | 1,843      | 931     | 912         |
| MISAMIS OCC.....      | 5,612      | 2,938   | 2,674       |
| MISAMIS OR.....       | 12,420     | 6,432   | 5,988       |
| SURIGAO DEL NORTE...  | 6,446      | 3,336   | 3,110       |
| BUTUAN CITY.....      | 6,575      | 3,401   | 3,174       |
| CAGAYAN DE ORO.....   | 12,325     | 6,434   | 5,891       |
| GINGOOG CITY.....     | 2,182      | 1,127   | 1,055       |
| OROQUIETA CITY.....   | 1,713      | 894     | 819         |
| OZAMIS CITY.....      | 3,025      | 1,551   | 1,474       |
| SURIGAO CITY.....     | 3,345      | 1,696   | 1,649       |
| TANGUB CITY.....      | 1,094      | 577     | 517         |
| REGION 11             | 119,997    | 62,495  | 57,502      |
| COTABATO SOUTH.....   | 20,042     | 10,400  | 9,642       |
| DAVAO ORIENTAL.....   | 8,124      | 4,212   | 3,912       |
| DAVAO DEL NORTE.....  | 32,123     | 16,673  | 15,450      |
| DAVAO DEL SUR.....    | 14,297     | 7,406   | 6,891       |
| SURIGAO DEL SUR.....  | 11,827     | 6,131   | 5,696       |
| DAVAO CITY.....       | 24,774     | 13,059  | 11,715      |
| GEN. SANTOS CITY....  | 8,810      | 4,614   | 4,196       |
| REGION 12             | 46,091     | 23,883  | 22,208      |
| NORTH COTABATO.....   | 13,133     | 6,853   | 6,280       |
| LANAO DEL NORTE.....  | 8,697      | 4,464   | 4,233       |
| LANAO DEL SUR.....    | 1,185      | 574     | 612         |
| MAGUINDANAO.....      | 2,369      | 1,173   | 1,196       |
| SULTAN KUDARAT.....   | 9,090      | 4,623   | 4,467       |
| COTABATO CITY.....    | 3,081      | 1,632   | 1,449       |
| ILIGAN CITY.....      | 7,936      | 4,221   | 3,715       |
| MARAWI CITY.....      | 599        | 343     | 256         |

TABLE 9

FREQUENCY DISTRIBUTION OF LIVEBIRTHS BY ATTENDANCE  
BY HEALTH REGION, PROVINCE & CITY  
PHILIPPINES  
1990

| A R E A            | TOTAL<br>BIRTHS | BIRTHS ATTENDED BY: |       |         |                  |        |
|--------------------|-----------------|---------------------|-------|---------|------------------|--------|
|                    |                 | M.D.                | Nurse | Midwife | Trad.<br>Midwife | Others |
| PHILIPPINES.....   | 1631069         | 443793              | 17038 | 494750  | 650630           | 24858  |
| NAT. CAP. REGION.. | 281817          | 163286              | 3129  | 84851   | 27875            | 2576   |
| 1ST DIST. MANILA.. | 101830          | 83548               | 91    | 16765   | 674              | 752    |
| 2ND DIST. MUN..... | 33390           | 18804               | 285   | 11344   | 2756             | 201    |
| QUEZON CITY.....   | 56039           | 32022               | 208   | 15863   | 7282             | 664    |
| 3RD DIST. MUN..... | 18612           | 3754                | 426   | 10937   | 3184             | 341    |
| CALOOCAN CITY....  | 18700           | 5956                | 148   | 6667    | 5751             | 178    |
| 4TH DIST. MUN..... | 43563           | 14184               | 604   | 21303   | 7105             | 367    |
| PASAY CITY.....    | 9683            | 5018                | 1367  | 1972    | 1223             | 103    |
| C.A.R.             | 29059           | 10854               | 606   | 5842    | 4040             | 7717   |
| ABRA.....          | 3042            | 540                 | 39    | 695     | 1642             | 126    |
| BENGUET.....       | 9171            | 2739                | 355   | 2265    | 347              | 3465   |
| IFUGAO.....        | 3107            | 477                 | 94    | 515     | 373              | 1648   |
| KALINGA APAYAO.... | 4107            | 430                 | 71    | 1291    | 1509             | 806    |
| MT. PROVINCE.....  | 2769            | 605                 | 20    | 765     | 105              | 1274   |
| BAGUIO CITY.....   | 6863            | 6063                | 27    | 311     | 64               | 398    |
| REGION 1           | 98092           | 16662               | 1201  | 47734   | 31644            | 851    |
| ILOCOS NORTE.....  | 8801            | 1340                | 164   | 5733    | 1347             | 317    |
| ILOCOS SUR.....    | 12050           | 1443                | 180   | 5514    | 4601             | 312    |
| LA UNION.....      | 15095           | 3986                | 104   | 7249    | 3718             | 38     |
| PANGASINAN.....    | 48908           | 3026                | 683   | 26324   | 18740            | 135    |
| DAGUPAN CITY.....  | 6778            | 4324                | 8     | 1084    | 1353             | 9      |
| LAOAG CITY.....    | 2036            | 581                 | 56    | 1061    | 300              | 38     |
| SAN CARLOS CITY... | 4324            | 1962                | 6     | 769     | 1585             | 2      |
| REGION 2           | 66163           | 4965                | 718   | 22394   | 35658            | 2428   |
| BATANES.....       | 394             | 56                  | 30    | 258     | 20               | -      |
| CAGAYAN.....       | 23146           | 1257                | 237   | 6800    | 14478            | 374    |
| ISABELA.....       | 31618           | 2297                | 334   | 11545   | 16571            | 871    |
| NUEVA VIZCAYA..... | 7902            | 1126                | 57    | 3065    | 2589             | 1065   |
| QUIRINO.....       | 3103            | 199                 | 60    | 726     | 2000             | 118    |
| REGION 3           | 179158          | 63744               | 1693  | 73337   | 39189            | 1195   |
| BATAAN.....        | 12475           | 4547                | 52    | 6527    | 1239             | 80     |
| BULACAN.....       | 42422           | 14329               | 332   | 19878   | 7136             | 647    |
| NUEVA ECIJA.....   | 24562           | 1803                | 323   | 13421   | 8941             | 74     |
| PAMPANGA.....      | 38390           | 18828               | 113   | 13133   | 6104             | 212    |
| TARLAC.....        | 25983           | 8077                | 448   | 10112   | 7247             | 98     |
| ZAMBALES.....      | 9932            | 2379                | 146   | 4152    | 3216             | 39     |

TABLE 9

FREQUENCY DISTRIBUTION OF LIVEBIRTHS BY ATTENDANCE  
BY HEALTH REGION, PROVINCE & CITY  
PHILIPPINES  
1990

| A R E A             | TOTAL<br>BIRTHS | BIRTHS ATTENDED BY: |       |         |                  |        |
|---------------------|-----------------|---------------------|-------|---------|------------------|--------|
|                     |                 | M.D.                | Nurse | Midwife | Trad.<br>Midwife | Others |
| ANGELES CITY.....   | 8624            | 4451                | 79    | 2499    | 1583             | 12     |
| CABANATUAN CITY.... | 6880            | 5174                | 21    | 555     | 1107             | 23     |
| OLONGAPO CITY.....  | 6773            | 3622                | 54    | 1765    | 1331             | 1      |
| PALAYAN CITY.....   | 550             | 20                  | 11    | 115     | 403              | 1      |
| SAN JOSE CITY.....  | 2567            | 514                 | 83    | 1080    | 882              | 8      |
| REGION 4            | 226957          | 45535               | 2597  | 67945   | 108889           | 1991   |
| AURORA.....         | 4400            | 438                 | 17    | 464     | 3436             | 45     |
| BATANGAS.....       | 30778           | 3146                | 353   | 13858   | 13280            | 141    |
| CAVITE.....         | 20094           | 3931                | 456   | 9795    | 5823             | 84     |
| LAGUNA.....         | 31616           | 7754                | 302   | 12988   | 10295            | 287    |
| MARINDUQUE.....     | 5686            | 422                 | 44    | 1015    | 4202             | 3      |
| MINDORO OCC.....    | 7426            | 590                 | 96    | 1285    | 5312             | 143    |
| MINDORO OR.....     | 16381           | 910                 | 129   | 1168    | 14144            | 30     |
| PALAWAN.....        | 9007            | 359                 | 118   | 1555    | 6928             | 47     |
| QUEZON.....         | 35907           | 3340                | 487   | 7506    | 23909            | 665    |
| RIZAL.....          | 25973           | 5700                | 220   | 12500   | 7055             | 498    |
| ROMBLON.....        | 6402            | 932                 | 85    | 1202    | 4164             | 19     |
| BATANGAS CITY.....  | 7668            | 3930                | 5     | 1721    | 2001             | 11     |
| CAVITE CITY.....    | 3054            | 2434                | 5     | 254     | 361              | -      |
| LIPA CITY.....      | 5432            | 1631                | 3     | 974     | 2819             | 5      |
| LUCENA CITY.....    | 6603            | 4574                | 13    | 193     | 1820             | 3      |
| PUERTO PRINCESA.... | 2820            | 644                 | 219   | 445     | 1508             | 4      |
| SAN PABLO CITY..... | 5874            | 3638                | 37    | 748     | 1449             | 2      |
| TAGAYTAY CITY.....  | 524             | 66                  | 8     | 171     | 279              | -      |
| TRECE MARTIRES....  | 1312            | 1096                | -     | 103     | 109              | 4      |
| REGION 5            | 109151          | 12800               | 1073  | 24629   | 70030            | 619    |
| ALBAY.....          | 24459           | 1565                | 112   | 5775    | 16693            | 314    |
| CAMARINES NORTE.... | 12103           | 716                 | 500   | 3270    | 7601             | 16     |
| CAMARINES SUR.....  | 32167           | 602                 | 216   | 6926    | 24330            | 93     |
| CATANDUANES.....    | 5514            | 1046                | 41    | 1174    | 3238             | 15     |
| MASBATE.....        | 7504            | 978                 | 55    | 1593    | 4812             | 66     |
| SORSOGON.....       | 14203           | 1867                | 50    | 3534    | 8693             | 49     |
| IRIGA CITY.....     | 2437            | 159                 | 11    | 790     | 1468             | 9      |
| LEGASPI CITY.....   | 3870            | 1449                | 22    | 516     | 1542             | 41     |
| NAGA CITY.....      | 6894            | 4418                | 56    | 751     | 1653             | 16     |
| REGION 6            | 115915          | 27722               | 779   | 24443   | 61483            | 1488   |
| AKLAN.....          | 9006            | 1360                | 76    | 2934    | 4226             | 410    |
| ANTIQUE.....        | 8830            | 1047                | 81    | 2067    | 5576             | 59     |
| CAPIZ.....          | 9511            | 619                 | 38    | 1719    | 7102             | 33     |
| ILOILO.....         | 29159           | 4606                | 107   | 7392    | 16607            | 447    |
| NEGROS OCC.....     | 27455           | 2763                | 276   | 6370    | 17829            | 217    |

TABLE 9

FREQUENCY DISTRIBUTION OF LIVEBIRTHS BY ATTENDANCE  
BY HEALTH REGION, PROVINCE & CITY  
PHILIPPINES  
1990

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| A R E A            | TOTAL<br>BIRTHS | BIRTHS ATTENDED BY: |       |         |                  |        |
|--------------------|-----------------|---------------------|-------|---------|------------------|--------|
|                    |                 | M.D.                | Nurse | Midwife | Trad.<br>Midwife | Others |
| BACOLOD CITY.....  | 8235            | 6969                | 28    | 220     | 1001             | 17     |
| BAGO CITY.....     | 1735            | 14                  | 2     | 727     | 967              | 25     |
| CADIZ CITY.....    | 2454            | 61                  | 34    | 713     | 1602             | 44     |
| ILOILO CITY.....   | 9349            | 6465                | 59    | 720     | 1880             | 225    |
| LA CARLOTA CITY... | 925             | 212                 | 6     | 313     | 393              | 1      |
| ROXAS CITY.....    | 3641            | 1067                | 6     | 788     | 1772             | 8      |
| SAN CARLOS CITY... | 2562            | 242                 | 63    | 413     | 1844             | -      |
| SILAY CITY.....    | 3053            | 2297                | 3     | 67      | 684              | 2      |
| REGION 7           | 140231          | 33500               | 959   | 49610   | 55084            | 1078   |
| BOHOL.....         | 23877           | 1221                | 137   | 11090   | 11329            | 100    |
| CEBU.....          | 43606           | 3211                | 193   | 21606   | 18313            | 283    |
| NEGROS OR.....     | 18467           | 1034                | 69    | 5678    | 11628            | 58     |
| SIGUIJOR.....      | 1959            | 281                 | 11    | 1563    | 100              | 4      |
| BAIS CITY.....     | 1647            | 246                 | 10    | 246     | 1143             | 2      |
| CANLAON CITY.....  | 1051            | 9                   | 3     | 306     | 731              | 2      |
| CEBU CITY.....     | 27278           | 18564               | 117   | 3967    | 4441             | 189    |
| DANAO CITY.....    | 2430            | 622                 | 8     | 666     | 766              | 368    |
| DUMAGUETE CITY...  | 4038            | 3468                | 7     | 130     | 431              | 2      |
| LAPU-LAPU CITY...  | 4758            | 750                 | 67    | 1706    | 2216             | 18     |
| MANDAWE CITY.....  | 4309            | 284                 | 250   | 1749    | 1997             | 29     |
| TAGBILARAN CITY... | 2963            | 2197                | 35    | 597     | 16               | 18     |
| TOLEDO CITY.....   | 3948            | 1613                | 52    | 306     | 1973             | 4      |
| REGION 8           | 57857           | 10864               | 572   | 13364   | 32123            | 934    |
| LEYTE DEL NORTE... | 27510           | 2845                | 261   | 6778    | 16880            | 746    |
| LEYTE DEL SUR..... | 9078            | 1824                | 129   | 2525    | 4529             | 71     |
| EASTERN SAMAR..... | 4142            | 509                 | 71    | 1334    | 2176             | 52     |
| NORTHERN SAMAR...  | 4306            | 653                 | 44    | 886     | 2700             | 23     |
| WESTERN SAMAR..... | 3496            | 339                 | 49    | 1110    | 1974             | 24     |
| CALBAYOG CITY..... | 1506            | 569                 | 1     | 109     | 825              | 2      |
| ORMOC CITY.....    | 4031            | 1038                | 6     | 420     | 2552             | 15     |
| TACLOBAN CITY..... | 3788            | 3087                | 11    | 202     | 487              | 1      |
| REGION 9           | 60661           | 8693                | 1760  | 19573   | 30351            | 284    |
| BASILAN.....       | 1703            | 230                 | 63    | 407     | 977              | 26     |
| SULU.....          | 1579            | 425                 | 32    | 618     | 488              | 16     |
| TAWI-TAWI.....     | 418             | 75                  | 30    | 168     | 141              | 4      |
| ZAMB. DEL NORTE... | 12321           | 416                 | 97    | 4292    | 7504             | 12     |
| ZAMB. DEL SUR..... | 26328           | 823                 | 963   | 8741    | 15617            | 184    |

TABLE 9

FREQUENCY DISTRIBUTION OF LIVEBIRTHS BY ATTENDANCE  
BY HEALTH REGION, PROVINCE & CITY  
PHILIPPINES  
1990

| A R E A             | TOTAL<br>BIRTHS | BIRTHS ATTENDED BY: |       |         |                  |        |
|---------------------|-----------------|---------------------|-------|---------|------------------|--------|
|                     |                 | M.D.                | Nurse | Midwife | Trad.<br>Midwife | Others |
| DAPITAN CITY.....   | 1911            | 959                 | 2     | 265     | 684              | 1      |
| DIPOLOG CITY.....   | 2562            | 1039                | 4     | 814     | 702              | 9      |
| PAGADIAN CITY.....  | 3401            | 774                 | 8     | 1143    | 1472             | 4      |
| ZAMBOANGA CITY..... | 10438           | 3958                | 561   | 3125    | 2766             | 28     |
| REGION 10           | 99920           | 16345               | 885   | 22235   | 58314            | 2141   |
| AGUSAN DEL NORTE... | 6397            | 440                 | 157   | 2017    | 3741             | 42     |
| AGUSAN DEL SUR....  | 10932           | 528                 | 114   | 2351    | 7901             | 38     |
| BUKIDNON.....       | 26011           | 2921                | 192   | 5217    | 16625            | 1056   |
| CAMIGUIN.....       | 1843            | 303                 | 23    | 882     | 635              | -      |
| MISAMIS OCC.....    | 5612            | 251                 | 52    | 2070    | 3190             | 49     |
| MISAMIS OR.....     | 12420           | 416                 | 56    | 4877    | 6963             | 108    |
| SURIGAO DEL NORTE.. | 6446            | 449                 | 40    | 1066    | 4877             | 14     |
| BUTUAN CITY.....    | 6575            | 2014                | 13    | 593     | 3948             | 7      |
| CAGAYAN DE ORO....  | 12325           | 5323                | 202   | 1599    | 4390             | 811    |
| GINGOOG CITY.....   | 2182            | 357                 | 2     | 504     | 1313             | 6      |
| OROQUIETA CITY....  | 1713            | 742                 | -     | 497     | 473              | 1      |
| OZAMIS CITY.....    | 3025            | 1075                | 9     | 194     | 1744             | 3      |
| SURIGAO CITY.....   | 3345            | 1331                | 23    | 137     | 1849             | 5      |
| TANGUB CITY.....    | 1094            | 195                 | 2     | 231     | 665              | 1      |
| REGION 11           | 119897          | 21578               | 737   | 22799   | 74072            | 811    |
| COTABATO SOUTH....  | 20042           | 1553                | 89    | 5132    | 13043            | 215    |
| DAVAO ORIENTAL....  | 8124            | 625                 | 23    | 1495    | 5971             | 10     |
| DAVAO DEL NORTE...  | 32123           | 3895                | 201   | 5504    | 22197            | 326    |
| DAVAO DEL SUR....   | 14297           | 1661                | 49    | 2580    | 9938             | 69     |
| SURIGAO DEL SUR...  | 11827           | 1800                | 50    | 2267    | 7590             | 120    |
| DAVAO CITY.....     | 24774           | 10442               | 67    | 4077    | 10130            | 58     |
| GEN. SANTOS CITY..  | 8810            | 1602                | 248   | 1744    | 5203             | 13     |
| REGION 12           | 46091           | 7245                | 329   | 15994   | 21778            | 745    |
| NORTH COTABATO....  | 13133           | 781                 | 65    | 2581    | 9446             | 260    |
| LANAO DEL NORTE...  | 8697            | 690                 | 63    | 5432    | 2380             | 132    |
| LANAO DEL SUR.....  | 1186            | 14                  | 41    | 491     | 609              | 31     |
| MAGUINDANAO.....    | 2369            | 35                  | 24    | 884     | 1413             | 13     |
| SULTAN KUDARAT....  | 9090            | 483                 | 45    | 3570    | 4809             | 183    |
| COTABATO CITY.....  | 3081            | 1516                | 41    | 695     | 727              | 102    |
| ILIGAN CITY.....    | 7936            | 3381                | 43    | 2196    | 2292             | 24     |
| MARAWI CITY.....    | 598             | 345                 | 7     | 145     | 102              | -      |

TABLE 10

PERCENTAGE DISTRIBUTION OF LIVEBIRTHS, BY ATTENDANCE  
BY HEALTH REGION, PROVINCE & CITY  
PHILIPPINES  
1990

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| A R E A             | TOTAL<br>BIRTHS | PERCENT OF BIRTHS ATTENDED BY: |       |         |                  |        |
|---------------------|-----------------|--------------------------------|-------|---------|------------------|--------|
|                     |                 | M.D.                           | Nurse | Midwife | Trad.<br>Midwife | Others |
| PHILIPPINES.....    | 1,631,069       | 27.2                           | 1.0   | 30.3    | 39.9             | 1.5    |
| NAT. CAP. REGION..  | 281,817         | 57.9                           | 1.1   | 30.1    | 9.9              | 0.9    |
| 1ST DIST. MANILA... | 101,830         | 82.0                           | 0.1   | 16.5    | 0.7              | 0.7    |
| 2ND DIST. MUN.....  | 33,390          | 56.3                           | 0.9   | 34.0    | 8.3              | 0.6    |
| QUEZON CITY.....    | 56,039          | 57.1                           | 0.4   | 28.3    | 13.0             | 1.2    |
| 3RD DIST. MUN.....  | 18,612          | 20.2                           | 2.3   | 58.8    | 17.1             | 1.8    |
| CALOCAN CITY....    | 18,700          | 31.9                           | 0.8   | 35.7    | 30.8             | 1.0    |
| 4TH DIST. MUN.....  | 43,563          | 32.6                           | 1.4   | 48.9    | 16.3             | 0.8    |
| PASAY CITY.....     | 9,683           | 51.8                           | 14.1  | 20.4    | 12.6             | 1.1    |
| C.A.R.              | 29,059          | 37.4                           | 2.1   | 20.1    | 13.9             | 26.6   |
| ABRA.....           | 3,042           | 17.8                           | 1.3   | 22.8    | 54.0             | 4.1    |
| BENGUET.....        | 9,171           | 29.9                           | 3.9   | 24.7    | 3.8              | 37.8   |
| IFUGAO.....         | 3,107           | 15.4                           | 3.0   | 16.6    | 12.0             | 53.0   |
| KALINGA-APAYAO....  | 4,107           | 10.5                           | 1.7   | 31.4    | 36.7             | 19.6   |
| MT. PROVINCE.....   | 2,769           | 21.8                           | 0.7   | 27.6    | 3.8              | 46.0   |
| BAGUIO CITY.....    | 6,863           | 88.3                           | 0.4   | 4.5     | 0.9              | 5.8    |
| REGION 1            | 88,092          | 17.0                           | 1.2   | 48.6    | 32.2             | 0.8    |
| ILOCOS NORTE.....   | 8,901           | 15.1                           | 1.8   | 64.4    | 15.1             | 3.5    |
| ILOCOS SUR.....     | 12,050          | 12.0                           | 1.5   | 45.7    | 38.1             | 2.5    |
| LA UNION.....       | 15,095          | 26.4                           | 0.6   | 48.0    | 24.6             | 0.2    |
| PANGASINAN.....     | 48,908          | 6.2                            | 1.4   | 53.8    | 38.3             | 0.2    |
| DAGUPAN CITY.....   | 6,778           | 63.8                           | 0.1   | 16.1    | 20.0             | 0.1    |
| LAOAG CITY.....     | 2,036           | 28.5                           | 2.7   | 52.1    | 14.7             | 1.8    |
| SAN CARLOS CITY...  | 4,324           | 45.4                           | 0.1   | 17.8    | 36.7             | 0.0    |
| REGION 2            | 66,163          | 7.5                            | 1.1   | 33.8    | 53.9             | 3.7    |
| BATANES.....        | 394             | 21.8                           | 7.6   | 65.4    | 5.0              | -      |
| CAGAYAN.....        | 23,146          | 5.4                            | 1.0   | 29.0    | 62.5             | 1.6    |
| ISABELA.....        | 31,618          | 7.3                            | 1.1   | 36.5    | 52.4             | 2.7    |
| NEUVA VIZCAYA.....  | 7,902           | 14.2                           | 0.7   | 38.7    | 32.8             | 13.5   |
| QUIRINO.....        | 3,103           | 6.4                            | 2.0   | 23.4    | 64.4             | 3.8    |
| REGION 3            | 179,158         | 35.6                           | 1.0   | 41.0    | 21.8             | 0.7    |
| BATAAN.....         | 12,475          | 36.4                           | 0.7   | 52.3    | 10.0             | 0.6    |
| BULACAN.....        | 42,422          | 33.8                           | 0.9   | 47.1    | 16.8             | 1.5    |
| NUEVA ECIJA.....    | 24,562          | 7.3                            | 1.3   | 54.6    | 36.4             | 0.3    |
| PAMPANGA.....       | 38,390          | 49.0                           | 0.3   | 34.2    | 15.9             | 0.5    |
| TARLAC.....         | 25,983          | 31.1                           | 1.7   | 39.0    | 27.9             | 0.3    |
| ZAMBALES.....       | 9,932           | 24.0                           | 1.5   | 41.8    | 32.3             | 0.4    |

TABLE 10

PERCENTAGE DISTRIBUTION OF LIVEBIRTHS, BY ATTENDANCE  
BY HEALTH REGION, PROVINCE & CITY  
PHILIPPINES  
1990

| A R E A             | TOTAL<br>BIRTHS | PERCENT OF BIRTHS ATTENDED BY: |       |         |                  |        |
|---------------------|-----------------|--------------------------------|-------|---------|------------------|--------|
|                     |                 | M.D.                           | Nurse | Midwife | Trad.<br>Midwife | Others |
| ANGELES CITY.....   | 8,624           | 51.6                           | 1.0   | 28.9    | 18.3             | 0.1    |
| CABANATUAN CITY...  | 6,880           | 75.2                           | 0.3   | 8.1     | 16.1             | 0.3    |
| OLONGAPO CITY.....  | 6,773           | 53.5                           | 0.8   | 26.1    | 19.6             | 0.0    |
| PALAYAN CITY.....   | 550             | 3.6                            | 2.0   | 21.0    | 73.2             | 0.2    |
| SAN JOSE CITY.....  | 2,567           | 20.0                           | 3.2   | 42.1    | 34.4             | 0.3    |
| REGION 4            | 226,957         | 20.1                           | 1.1   | 30.0    | 48.0             | 0.9    |
| AURORA.....         | 4,400           | 10.0                           | 0.4   | 10.5    | 78.1             | 1.0    |
| BATANGAS.....       | 30,778          | 10.2                           | 1.2   | 45.0    | 43.1             | 0.5    |
| CAVITE.....         | 20,094          | 19.5                           | 2.3   | 48.7    | 29.0             | 0.4    |
| LAGUNA.....         | 31,616          | 24.5                           | 1.0   | 41.0    | 32.5             | 1.0    |
| MARINDUQUE.....     | 5,686           | 7.4                            | 0.8   | 17.8    | 74.0             | 0.1    |
| MINDORO OCC.....    | 7,426           | 8.0                            | 1.3   | 17.3    | 71.5             | 1.9    |
| MINDORO OR.....     | 16,381          | 5.5                            | 0.9   | 7.1     | 86.3             | 0.2    |
| PALAWAN.....        | 9,007           | 4.0                            | 1.3   | 17.2    | 77.0             | 0.5    |
| QUEZON.....         | 35,907          | 8.3                            | 1.3   | 21.0    | 68.6             | 1.8    |
| RIZAL.....          | 25,973          | 22.0                           | 0.8   | 48.1    | 27.1             | 2.0    |
| ROMBLON.....        | 6,402           | 14.6                           | 1.3   | 18.8    | 65.0             | 0.3    |
| BATANGAS CITY.....  | 7,668           | 51.2                           | 0.1   | 22.4    | 26.1             | 0.2    |
| CAVITE CITY.....    | 3,054           | 79.6                           | 0.1   | 8.3     | 12.0             | -      |
| LIPA CITY.....      | 5,432           | 30.0                           | 0.1   | 18.0    | 51.9             | 0.1    |
| LUCENA CITY.....    | 6,603           | 69.3                           | 0.2   | 3.0     | 27.5             | 0.0    |
| PUERTO PRINCESA...  | 2,320           | 22.8                           | 7.8   | 15.8    | 53.5             | 0.1    |
| SAN PABLO CITY..... | 5,374           | 62.0                           | 0.6   | 12.7    | 24.7             | 0.0    |
| TAGAYTAY CITY.....  | 524             | 12.6                           | 1.5   | 32.6    | 53.3             | -      |
| TRECE MARTIRES....  | 1,312           | 83.6                           | -     | 7.8     | 8.3              | 0.3    |
| REGION 5            | 109,151         | 11.7                           | 1.0   | 22.6    | 64.2             | 0.5    |
| ALBAY.....          | 24,459          | 6.4                            | 0.5   | 23.6    | 69.2             | 1.3    |
| CAMARINES NORTE...  | 12,103          | 6.0                            | 4.1   | 27.0    | 62.8             | 0.1    |
| CAMARINES SUR.....  | 32,167          | 1.9                            | 0.7   | 21.5    | 75.6             | 0.3    |
| CATANDUANES.....    | 5,514           | 19.0                           | 0.7   | 21.3    | 58.7             | 0.3    |
| MASBATE.....        | 7,504           | 13.0                           | 0.7   | 21.2    | 64.2             | 0.9    |
| SORSOGON.....       | 14,203          | 13.2                           | 0.7   | 24.9    | 61.2             | 0.3    |
| IRIGA CITY.....     | 2,437           | 6.5                            | 0.5   | 32.4    | 60.2             | 0.4    |
| LEGASPI CITY.....   | 3,870           | 37.4                           | 0.5   | 21.1    | 39.9             | 1.0    |
| NAGA CITY.....      | 6,894           | 64.0                           | 0.8   | 11.0    | 24.0             | 0.2    |
| REGION 6            | 115,915         | 24.0                           | 0.6   | 21.1    | 53.0             | 1.3    |
| AKLAN.....          | 9,006           | 15.1                           | 0.8   | 32.6    | 47.0             | 4.5    |
| ANTIQUE.....        | 8,830           | 11.8                           | 1.0   | 23.4    | 63.1             | 0.7    |
| CAPIZ.....          | 9,511           | 6.5                            | 0.4   | 18.1    | 74.7             | 0.3    |
| ILOILO.....         | 29,159          | 15.8                           | 0.4   | 25.3    | 57.0             | 1.5    |
| NEGROS OCC.....     | 27,455          | 10.0                           | 1.0   | 23.2    | 65.0             | 0.8    |

TABLE 10

PERCENTAGE DISTRIBUTION OF LIVEBIRTHS, BY ATTENDANCE  
BY HEALTH REGION, PROVINCE & CITY  
PHILIPPINES  
1990

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| A R E A              | TOTAL<br>BIRTHS | PERCENT OF BIRTHS ATTENDED BY: |       |         |                  |        |
|----------------------|-----------------|--------------------------------|-------|---------|------------------|--------|
|                      |                 | M.D.                           | Nurse | Midwife | Trad.<br>Midwife | Others |
| BACOLOD CITY.....    | 8,235           | 84.6                           | 0.3   | 2.7     | 12.2             | 0.2    |
| BAGO CITY.....       | 1,735           | 0.8                            | 0.1   | 42.0    | 55.7             | 1.4    |
| CADIZ CITY.....      | 2,454           | 2.5                            | 1.4   | 29.0    | 65.3             | 1.8    |
| ILOILO CITY.....     | 9,349           | 69.2                           | 0.6   | 7.7     | 20.1             | 2.4    |
| LA CARLOTA CITY..... | 925             | 23.0                           | 0.7   | 33.8    | 42.4             | 0.1    |
| ROXAS CITY.....      | 3,641           | 29.3                           | 0.1   | 21.6    | 48.7             | 0.3    |
| SAN CARLOS CITY..... | 2,562           | 9.4                            | 2.5   | 16.1    | 72.0             | -      |
| SILAY CITY.....      | 3,053           | 75.2                           | 0.1   | 2.2     | 22.4             | 0.1    |
| REGION 7             | 140,231         | 24.0                           | 0.7   | 35.4    | 39.2             | 0.7    |
| BOHOL.....           | 23,877          | 5.1                            | 0.6   | 46.5    | 47.4             | 0.4    |
| CEBU.....            | 43,606          | 7.4                            | 0.4   | 49.5    | 42.1             | 0.6    |
| NEGROS OR.....       | 18,467          | 5.6                            | 0.4   | 30.7    | 63.0             | 0.3    |
| SIQUIJOR.....        | 1,959           | 14.3                           | 0.6   | 79.8    | 5.1              | 0.2    |
| BAIS CITY.....       | 1,647           | 15.0                           | 0.6   | 15.0    | 68.3             | 0.1    |
| CANLAON CITY.....    | 1,051           | 0.8                            | 0.3   | 29.1    | 69.6             | 0.2    |
| CEBU CITY.....       | 27,278          | 68.1                           | 0.4   | 14.5    | 16.3             | 0.7    |
| DANAO CITY.....      | 2,430           | 25.6                           | 0.3   | 27.4    | 31.5             | 15.2   |
| DUMAGUETE CITY.....  | 4,038           | 85.9                           | 0.2   | 3.2     | 10.7             | -      |
| LAPU-LAPU CITY.....  | 4,758           | 15.8                           | 1.4   | 35.8    | 46.5             | 0.4    |
| MANDAWE CITY.....    | 4,309           | 6.6                            | 5.8   | 40.6    | 46.3             | 0.7    |
| TAGBILARAN CITY..... | 2,863           | 76.7                           | 1.2   | 21.0    | 0.5              | 0.6    |
| TOLEDO CITY.....     | 3,948           | 40.9                           | 1.3   | 7.8     | 50.0             | 0.1    |
| REGION 8             | 57,857          | 18.8                           | 1.0   | 23.1    | 55.5             | 1.6    |
| LEYTE DEL NORTE....  | 27,510          | 10.3                           | 1.0   | 24.6    | 61.4             | 2.7    |
| LEYTE DEL SUR.....   | 9,078           | 20.1                           | 1.4   | 27.8    | 49.9             | 0.8    |
| EASTERN SAMAR.....   | 4,142           | 12.3                           | 1.7   | 32.2    | 52.5             | 1.3    |
| NORTHERN SAMAR.....  | 4,306           | 15.2                           | 1.0   | 20.6    | 62.7             | 0.5    |
| WESTERN SAMAR.....   | 3,496           | 9.7                            | 1.4   | 31.7    | 56.5             | 0.7    |
| CALBAYOG CITY.....   | 1,506           | 37.8                           | 0.1   | 7.2     | 54.8             | 0.1    |
| ORMOG CITY.....      | 4,031           | 25.8                           | 0.1   | 10.4    | 63.3             | 0.4    |
| TACLOBAN CITY.....   | 3,788           | 81.5                           | 0.3   | 5.3     | 12.9             | 0.0    |
| REGION 9             | 60,661          | 14.3                           | 3.0   | 32.3    | 50.0             | 0.4    |
| BASILAN.....         | 2,803           | 13.5                           | 3.7   | 23.9    | 57.4             | 1.5    |
| SULU.....            | 1,579           | 27.0                           | 2.0   | 39.1    | 30.9             | 1.0    |
| TAWI-TAWI.....       | 418             | 18.0                           | 7.2   | 40.2    | 33.7             | 0.9    |
| ZAMB. DEL NORTE....  | 12,321          | 3.3                            | 0.8   | 34.8    | 61.0             | 0.1    |
| ZAMB. DEL SUR.....   | 26,328          | 32.2                           | 3.6   | 33.2    | 58.3             | 0.7    |

TABLE 10

PERCENTAGE DISTRIBUTION OF LIVEBIRTHS, BY ATTENDANCE  
BY HEALTH REGION, PROVINCE & CITY  
PHILIPPINES  
1990

| A R E A             | TOTAL<br>BIRTHS | PERCENT OF BIRTHS ATTENDED BY: |       |         |                  |        |
|---------------------|-----------------|--------------------------------|-------|---------|------------------|--------|
|                     |                 | M.D.                           | Nurse | Midwife | Trad.<br>Midwife | Others |
| DAPITAN CITY.....   | 1,911           | 50.1                           | 0.1   | 13.9    | 35.8             | 0.1    |
| DIPOLOG CITY.....   | 2,562           | 40.3                           | 0.2   | 31.8    | 27.4             | 0.3    |
| PAGADIAN CITY.....  | 3,401           | 22.8                           | 0.2   | 33.6    | 43.3             | 0.1    |
| ZAMBOANGA CITY..... | 10,438          | 38.0                           | 5.4   | 30.0    | 26.4             | 0.2    |
| REGION 10           | 99,920          | 16.4                           | 0.9   | 22.3    | 58.3             | 2.1    |
| AGUSAN DEL NORTE... | 6,397           | 6.9                            | 2.5   | 31.5    | 58.5             | 0.6    |
| AGUSAN DEL SUR....  | 10,932          | 4.8                            | 1.0   | 21.5    | 72.3             | 0.4    |
| BUKIDNON.....       | 26,011          | 11.2                           | 0.7   | 20.1    | 64.0             | 4.0    |
| CAMIGUIN.....       | 1,843           | 16.4                           | 1.2   | 47.9    | 34.5             | -      |
| MISAMIS OCC.....    | 5,612           | 4.5                            | 1.0   | 36.9    | 56.8             | 0.8    |
| MISAMIS OR.....     | 12,420          | 3.3                            | 0.5   | 39.3    | 56.1             | 0.8    |
| SURIGAO DEL NORTE.. | 6,446           | 7.0                            | 0.6   | 16.5    | 75.7             | 0.2    |
| BUTUAN CITY.....    | 6,575           | 30.6                           | 0.2   | 9.0     | 60.1             | 0.1    |
| CAGAYAN DE ORO....  | 12,325          | 43.2                           | 1.6   | 13.0    | 35.6             | 6.6    |
| GINGOG CITY.....    | 2,182           | 16.3                           | 0.1   | 23.1    | 60.2             | 0.3    |
| OROQUIETA CITY....  | 1,713           | 43.3                           | -     | 29.0    | 27.6             | 0.1    |
| OZAMIS CITY.....    | 3,025           | 35.5                           | 0.3   | 6.4     | 57.7             | 0.1    |
| SURIGAO CITY.....   | 3,345           | 39.8                           | 0.7   | 4.1     | 55.3             | 0.1    |
| TANGUB CITY.....    | 1,094           | 17.8                           | 0.2   | 21.1    | 60.8             | 0.1    |
| REGION 11           | 118,997         | 18.0                           | 0.6   | 19.0    | 61.7             | 0.7    |
| COTABATO SOUTH....  | 20,042          | 7.7                            | 0.5   | 25.6    | 65.1             | 1.1    |
| DAVAO DEL NORTE.... | 32,123          | 12.2                           | 0.6   | 17.1    | 69.1             | 1.0    |
| DAVAO ORIENTAL....  | 8,124           | 7.7                            | 0.3   | 18.4    | 73.5             | 0.1    |
| DAVAO DEL SUR....   | 14,297          | 11.6                           | 0.3   | 18.1    | 69.5             | 0.5    |
| SURIGAO DEL SUR.... | 11,827          | 15.2                           | 0.4   | 19.2    | 64.2             | 1.0    |
| DAVAO CITY.....     | 24,774          | 42.1                           | 0.3   | 16.5    | 40.9             | 0.2    |
| GEN. SANTOS CITY..  | 8,810           | 18.2                           | 2.8   | 19.8    | 59.1             | 0.1    |
| REGION 12           | 46,091          | 15.7                           | 0.7   | 34.7    | 47.3             | 1.6    |
| NORTH COTABATO....  | 13,133          | 6.0                            | 0.5   | 19.6    | 72.0             | 2.0    |
| LANAO DEL NORTE.... | 8,697           | 8.0                            | 0.7   | 62.4    | 27.4             | 1.5    |
| LANAO DEL SUR....   | 1,186           | 1.2                            | 3.5   | 41.4    | 51.3             | 2.6    |
| MAGUINDANAO.....    | 2,369           | 1.5                            | 1.0   | 37.3    | 59.7             | 0.5    |
| SULTAN KUDARAT....  | 8,090           | 5.3                            | 0.5   | 39.2    | 53.0             | 2.0    |
| COTABATO CITY.....  | 3,081           | 49.2                           | 1.3   | 22.6    | 23.6             | 3.3    |
| ILIGAN CITY.....    | 7,936           | 42.6                           | 0.5   | 27.7    | 28.8             | 0.3    |
| MARAWI CITY.....    | 593             | 57.6                           | 1.2   | 24.2    | 17.0             | -      |

# BIRTHS BY ATTENDANCE PHILIPPINES 1990

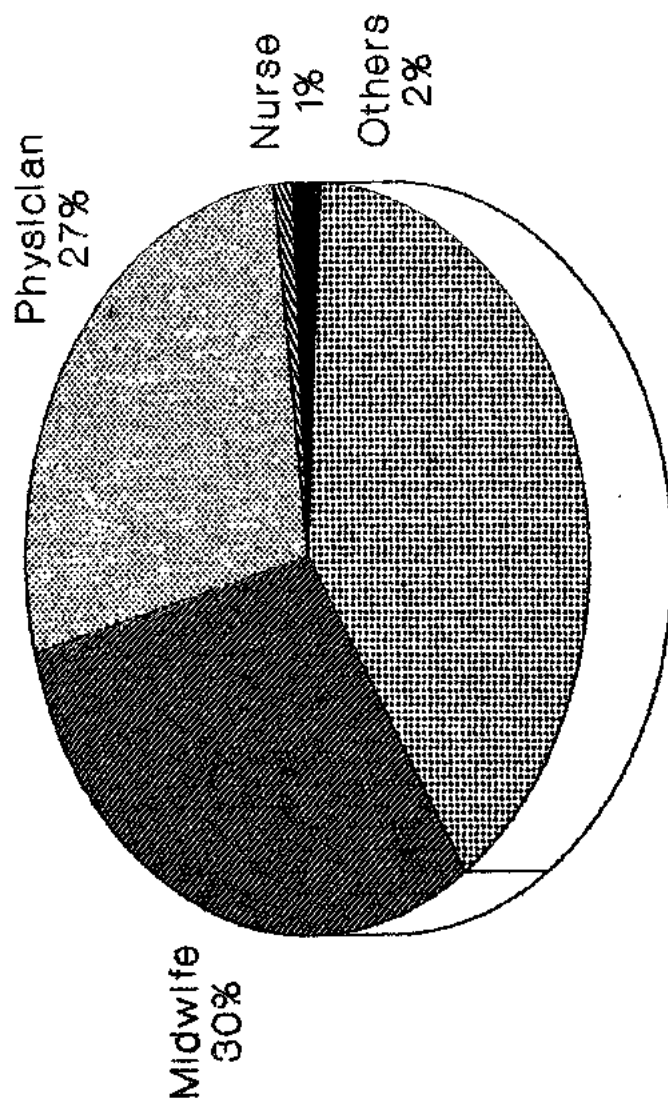


Fig. 8

TABLE 11

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LIVEBIRTHS BY AGE OF MOTHER & BY SEX  
PHILIPPINES  
1990

| AGE OF MOTHER        | BOTH SEXES | PERCENTAGE   | MALE    | FEMALE  |
|----------------------|------------|--------------|---------|---------|
|                      | NUMBER     | DISTRIBUTION | NUMBER  | NUMBER  |
| ALL AGES.....        | 1,631,069  | 100.0        | 848,275 | 782,794 |
| Under 15 years.....  | 287        | 0.02         | 164     | 123     |
| 15 - 19 years.....   | 111,900    | 6.8          | 58,126  | 53,774  |
| 20 - 24 years.....   | 471,039    | 28.9         | 245,441 | 225,598 |
| 25 - 29 years.....   | 473,534    | 29.0         | 246,581 | 226,953 |
| 30 - 34 years.....   | 318,000    | 19.5         | 165,738 | 152,262 |
| 35 - 39 years.....   | 174,890    | 10.7         | 90,416  | 84,474  |
| 40 - 44 years.....   | 59,539     | 3.7          | 30,504  | 29,035  |
| 45- 49 years.....    | 8,694      | 0.5          | 4,399   | 4,295   |
| 50 years & Over..... | 1,180      | 0.07         | 637     | 543     |
| Not Stated.....      | 12,006     | 0.7          | 6,269   | 5,737   |

# LIVEBIRTHS BY AGE OF MOTHER & BY SEX PHILIPPINES 1990

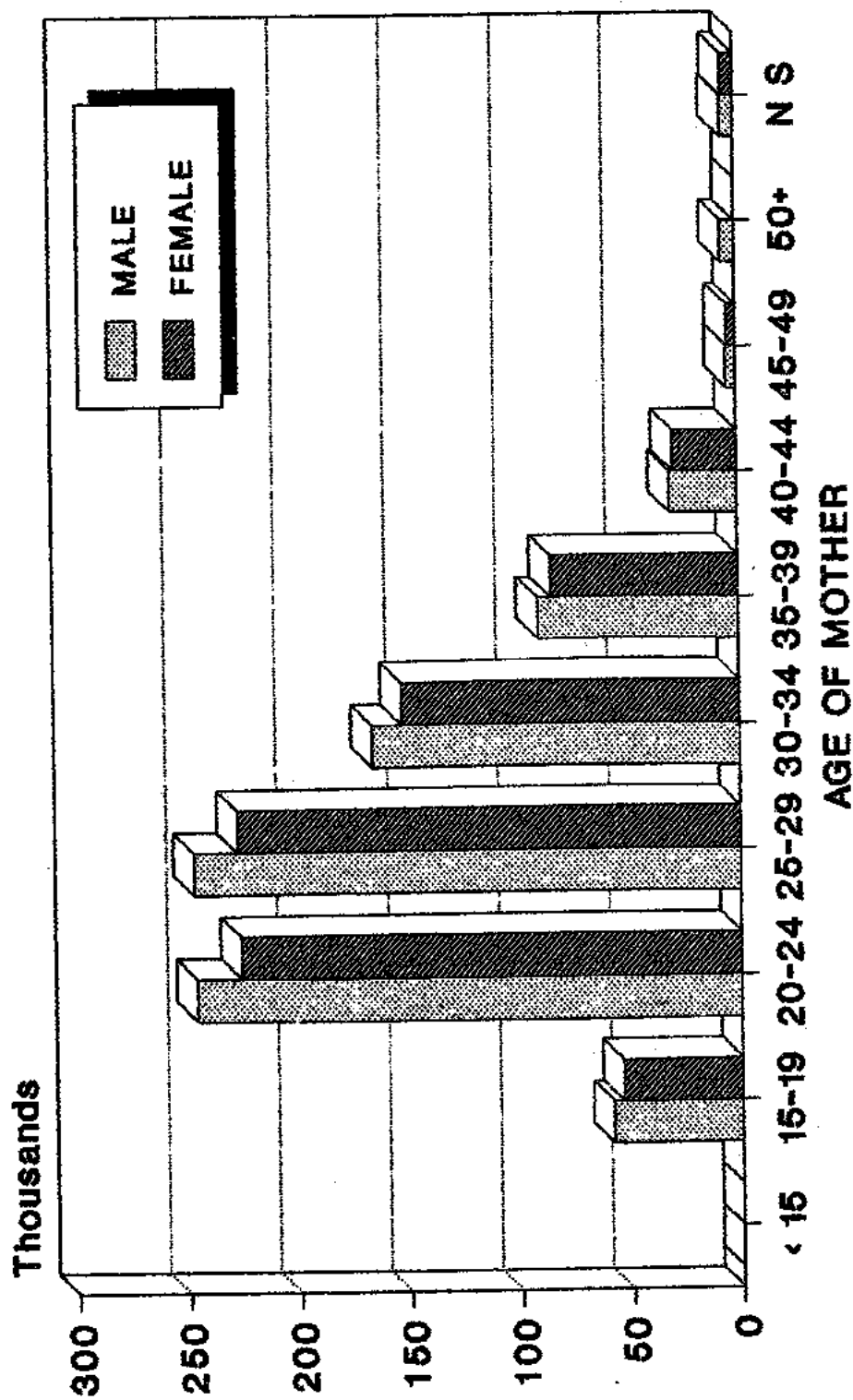


Fig. 9

TABLE 12

LIVEBIRTHS BY AGE OF MOTHER & NUMBER OF LIVING ISSUES  
PHILIPPINES  
1990

| AGE OF MOTHER<br>(In Years) | TOTAL     | NUMBER OF LIVING ISSUES |         |         |         |         |
|-----------------------------|-----------|-------------------------|---------|---------|---------|---------|
|                             |           | 1                       | 2       | 3       | 4       | 5       |
| ALL AGES.....               | 1,631,069 | 455,911                 | 365,701 | 282,601 | 190,755 | 122,479 |
| Under 15 years.....         | 287       | 287                     | -       | -       | -       | -       |
| 15 - 19 years.....          | 111,900   | 85,513                  | 21,590  | 2,773   | 304     | 87      |
| 20 - 24 years.....          | 471,039   | 210,960                 | 154,752 | 76,251  | 22,137  | 4,705   |
| 25 - 29 years.....          | 473,534   | 105,882                 | 120,300 | 113,575 | 76,183  | 36,540  |
| 30 - 34 years.....          | 318,000   | 35,504                  | 49,350  | 61,764  | 59,226  | 47,358  |
| 35 - 39 years.....          | 174,890   | 11,320                  | 14,616  | 22,081  | 25,681  | 25,686  |
| 40 - 44 years.....          | 59,539    | 2,727                   | 2,847   | 4,093   | 5,525   | 6,635   |
| 45- 49 years.....           | 8,694     | 516                     | 393     | 495     | 633     | 778     |
| 50 years & Over.....        | 1,180     | 88                      | 76      | 91      | 95      | 120     |
| Not Stated.....             | 12,006    | 3,114                   | 1,777   | 1,478   | 971     | 570     |

LIVEBIRTHS BY AGE OF MOTHER & NUMBER OF LIVING ISSUES  
PHILIPPINES  
1990

| AGE OF MOTHER<br>(In Years) | NUMBER OF LIVING ISSUES |        |        |        |           |            |
|-----------------------------|-------------------------|--------|--------|--------|-----------|------------|
|                             | 6                       | 7      | 8      | 9      | 10 & OVER | NOT STATED |
| ALL AGES.....               | 80,467                  | 51,026 | 31,604 | 18,452 | 7,926     | 24147      |
| Under 15 years.....         | -                       | -      | -      | -      | -         | -          |
| 15 - 19 years.....          | 1                       | -      | 1      | 2      | -         | 1629       |
| 20 - 24 years.....          | 1,095                   | 379    | 121    | 41     | 23        | 575        |
| 25 - 29 years.....          | 13,339                  | 3,697  | 952    | 270    | 58        | 2738       |
| 30 - 34 years.....          | 33,052                  | 17,875 | 7,788  | 2,680  | 718       | 2685       |
| 35 - 39 years.....          | 24,124                  | 19,982 | 14,351 | 8,612  | 3,441     | 4996       |
| 40 - 44 years.....          | 7,414                   | 7,703  | 7,098  | 5,741  | 3,071     | 6685       |
| 45- 49 years.....           | 932                     | 1,000  | 986    | 904    | 517       | 1540       |
| 50 years & Over.....        | 133                     | 135    | 143    | 98     | 57        | 144        |
| Not Stated.....             | 377                     | 255    | 164    | 104    | 41        | 3155       |

### NOTIFIABLE DISEASES STATISTICS

Statistics on notifiable diseases presented and analyzed in this report were collected from the Morbidity Reports (HIS Form No. 3), received weekly from all provincial and city health offices throughout the country.

In accordance with Act. 3573 (Law on Reporting of Notifiable Diseases), the Department of Health issued the following list of notifiable diseases in 1984: Cholera, Plague, Smallpox, Yellow Fever, Accidents, AIDS, Bronchitis, Dengue Hemorrhagic Fever, Diarrheas, Diphtheria, Diseases of the Heart, Accidents, Filariasis, Gonococcal Infections, Hepatitis Viral, Influenza, Leprosy, Malaria, Malignant Neoplasms, Measles, Pneumonias, Poliomyelitis, Schistosomiasis, Syphilis, Tetanus, T.B. Meningitis, T.B. Other Forms, Typhoid and Paratyphoid Fever and Other Salmonella Infections and Whooping Cough. The first four (4) diseases are quarantinable.

All notifiable diseases in the Philippines are communicable except Malignant Neoplasms, Diseases of the Heart and Accidents.

Trend of Notifiable Diseases - The morbidity and mortality from notifiable diseases for the past 20 years are shown in Table 16. It may be noted that deaths from notifiable diseases showed a continued declining trend except Malignant Neoplasms and Measles which increased in 1987. The incidence of Schistosomiasis, Typhoid and Paratyphoid Fever and Other Salmonella Infections, Infectious Hepatitis, Malaria, Diarrheas and Leprosy showed a generally increasing trend during the 20-year period (1970-1990). Improved method of reporting and notification were mainly responsible for the increase in number of reported cases. On the other hand, the incidence of Gonococcal Infection, Diphtheria, Acute Poliomyelitis, Whooping Cough and Tetanus had generally decreased from 1970-1990. Measles and Influenza present irregular trends on account of outbreaks at almost yearly intervals, while Malignant Neoplasms had consistently increased in incidence and mortality.

Figure 27 presents the trend from 1940 to 1990 of the death rate from communicable diseases as a group, in comparison with that of Malignant Neoplasms and Diseases of the Heart. It may be noted that while the mortality rate of communicable diseases presented a generally decreasing pattern, those of the Diseases of the Heart and Malignant Neoplasms showed distinctive increasing trends.

Leading Causes of Morbidity - The ten (10) leading causes of Morbidity in 1990 and for the past 5 years (1985-1989) are shown in Table 13 and Figure 10. Of these diseases, three (3) Respiratory Diseases, namely: Bronchitis, Pneumonias and Tuberculosis which occupied first, fourth and fifth positions with a total of 1,369,192 or 2206.7 per 100,000 population. One (1) is Gastro-intestinal namely: Diarrheal Diseases which ranked second with a total of 943,580 cases or 1520.7 per 100,000 population. Two (2) are Viral Diseases - Influenza and Measles which occupied third and ninth places respectively. The former had total of 544,763 cases or 878.0 per 100,000 population and the latter had a total of 42,938. One is parasitic - Malaria which is in eight position with a total of 73,625 cases or 118.7 per 100,000 population. The last three (3) diseases are non-communicable - Accidents with 215.5 per 100,000 population, Diseases of the Heart with 160.7 per 100,000 population and Malignant Neoplasms with 54.3 per 100,000 population.

Geographical Distribution - The notifiable diseases were almost evenly distributed throughout the country with a few exception. Schistosomiasis for instance was highly endemic in Health Regions 8, 9, 10, 11 and 12, while Filariasis was prevalent in Health Regions 8, 11, and 12. Malaria affected mostly the hinterlands and newly opened settlement areas. As shown in Table 15, practically the same disease problems were present in all thirteen (13) Health Regions in the country.

TABLE 13

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MORBIDITY: TEN (10) LEADING CAUSES  
 No. & Rate/100,000 Pop.  
 PHILIPPINES  
 5-YEAR AVERAGE (1985-1989) & 1990

| C A U S E   | 5-Year Average<br>(1985-1989) |        | 1 9 9 0 |        |
|---|-------------------------------|--------|---------|--------|
|   | NUMBER                        | RATE   | NUMBER  | RATE   |
| 1. BRONCHITIS.....(466)                                       | 697023                        | 1215.0 | 980557  | 1580.3 |
| 2. DIARRHEAL DISEASES.....<br>.....(002-009)                  | 619588                        | 1080.0 | 943580  | 1520.7 |
| 3. INFLUENZA.....(487)  | 538126                        | 938.0  | 544768  | 878.0  |
| 4. PNEUMONIAS.....(480-486)                                   | 202539                        | 353.0  | 235947  | 380.3  |
| 5. TUBERCULOSIS ALL FORMS.....<br>.....(010-018;137)          | 172732                        | 301.1  | 152688  | 246.1  |
| 6. ACCIDENTS .....<br>.....(800-998;E800-E949)                | 115615                        | 201.5  | 133737  | 215.5  |
| 7. DISEASES OF THE HEART.....<br>...(390-398;402-404;410-429) | 80600                         | 140.5  | 99688   | 160.7  |
| 8. MALARIA.....(084)  | 121403                        | 211.6  | 73625   | 118.7  |
| 9. MEASLES.....(055)  | 68705                         | 119.8  | 42938   | 69.2   |
| 10. MALIGNANT NEOPLASMS.....<br>.....(140-239)                | 28233                         | 49.2   | 33702   | 54.3   |

# MORBIDITY: TEN (10) LEADING CAUSES

Rate per 100,000 Population  
Phils., 5 Yr. Ave.(1985-1989) & 1990

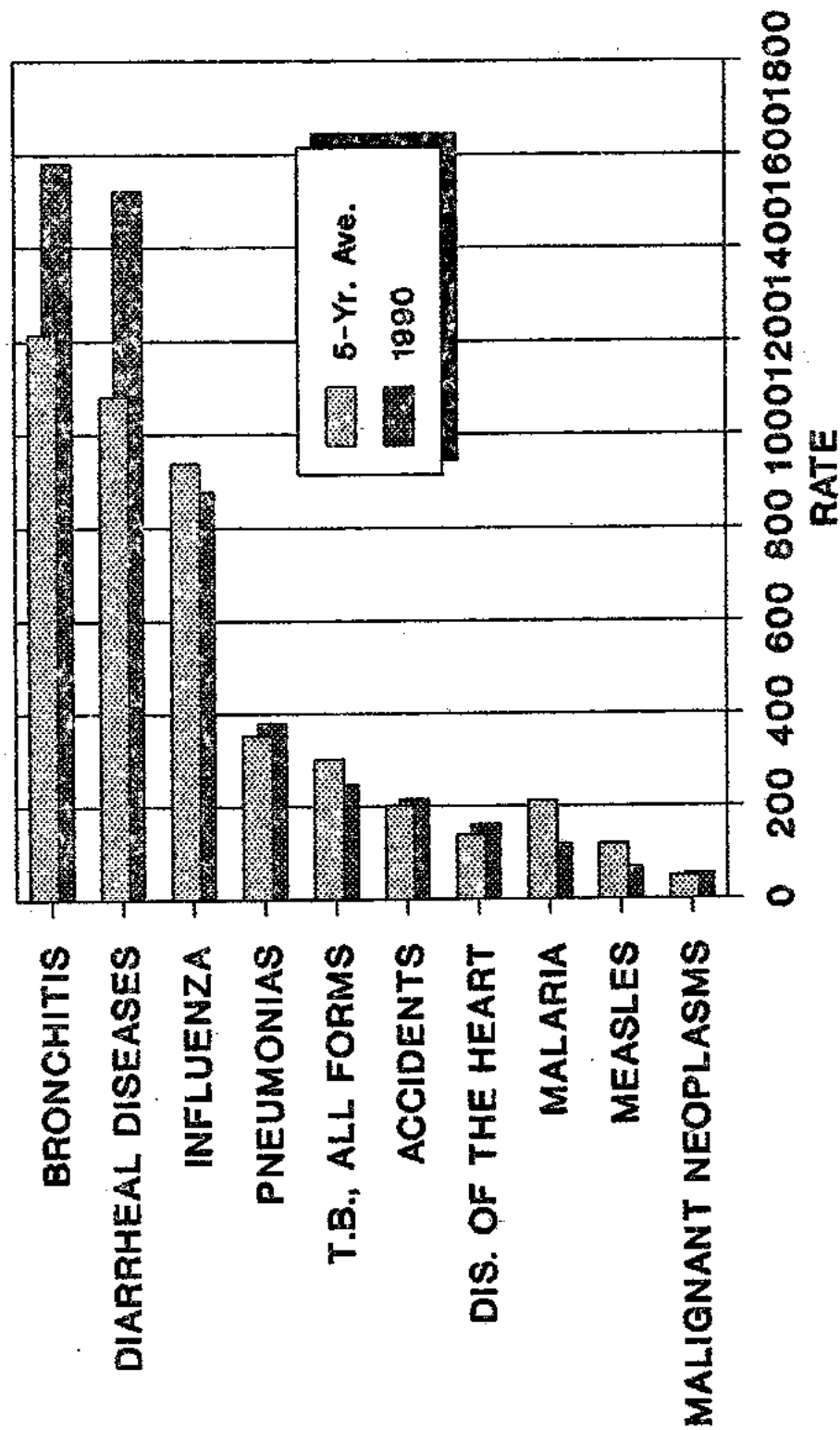


Fig. 10

TABLE 14

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MORBIDITY: TEN (10) LEADING CAUSES  
No. & Rate/100,000 Population  
PHILIPPINES  
1990

| C A U S E S                   | NATIONAL CAPITAL REGION |       |
|-------------------------------|-------------------------|-------|
|                               | NUMBER                  | RATE  |
| 1. BRONCHITIS.....            | 38144                   | 470.8 |
| 2. DIARRHEAS.....             | 31704                   | 391.3 |
| 3. PNEUMONIAS.....            | 18696                   | 230.8 |
| 4. DISEASES OF THE HEART..... | 14820                   | 182.9 |
| 5. T.B. ALL FORMS.....        | 13433                   | 165.8 |
| 6. INFLUENZA.....             | 10715                   | 132.3 |
| 7. MALIGNANT NEOPLASMS.....   | 7781                    | 96.0  |
| 8. MEASLES.....               | 5398                    | 66.6  |
| 9. ACCIDENTS.....             | 5093                    | 62.9  |
| 10. VARICELLA.....            | 2281                    | 28.2  |

MORBIDITY: TEN (10) LEADING CAUSES  
No. & Rate/100,000 Population  
PHILIPPINES  
1990

| C A U S E S                   | CORDILLERA AUTONOMOUS REGION |        |
|-------------------------------|------------------------------|--------|
|                               | NUMBER                       | RATE   |
| 1. DIARRHEAS.....             | 37401                        | 3198.8 |
| 2. BRONCHITIS.....            | 32148                        | 2749.5 |
| 3. INFLUENZA.....             | 13831                        | 1182.9 |
| 4. PNEUMONIAS.....            | 6420                         | 549.1  |
| 5. MALARIA.....               | 5309                         | 454.1  |
| 6. ACCIDENTS.....             | 3936                         | 336.6  |
| 7. VARICELLA.....             | 2281                         | 195.1  |
| 8. MEASLES.....               | 2215                         | 189.4  |
| 9. DISEASES OF THE HEART..... | 1579                         | 135.0  |
| 10. T.B. ALL FORMS.....       | 1071                         | 91.6   |

TABLE 14

MORBIDITY: TEN LEADING CAUSES BY HEALTH REGION  
No. & Rate/100,000 Population  
PHILIPPINES  
1990

| REGION 1   |        |        | REGION 2                      |        |        |
|--|--------|--------|-------------------------------|--------|--------|
| CAUSE  | NUMBER | RATE   | CAUSE                         | NUMBER | RATE   |
| 1. DIARRHEAS.....  | 38388  | 1056.2 | 1. BRONCHITIS.....            | 71431  | 2983.9 |
| 2. BRONCHITIS.....   | 32636  | 897.9  | 2. DIARRHEAS.....             | 58102  | 2427.1 |
| 3. INFLUENZA.....  | 17365  | 477.8  | 3. INFLUENZA.....             | 42449  | 1773.3 |
| 4. PNEUMONIAS.....   | 9284   | 255.4  | 4. ACCIDENTS.....             | 21982  | 918.3  |
| 5. T.B. ALL FORMS.....   | 7278   | 200.2  | 5. MALARIA.....               | 16734  | 699.0  |
| 6. DISEASES OF THE HEART.....  | 5919   | 162.9  | 6. PNEUMONIAS.....            | 16553  | 691.5  |
| 7. ACCIDENTS.....  | 3082   | 84.8   | 7. T.B. ALL FORMS.....        | 7166   | 299.4  |
| 8. MALIGNANT NEOPLASMS.....  | 2673   | 73.5   | 8. DISEASES OF THE HEART..... | 6207   | 259.3  |
| 9. MEASLES.....  | 1993   | 54.8   | 9. MEASLES.....               | 1637   | 68.4   |
| 10. TYPHOID & PARATYPHOID<br>FEVER & OTHER SALMONELLA<br>INFECTIONS..... | 1866   | 51.3   | 10. VARICELLA.....            | 1532   | 64.0   |

MORBIDITY: TEN LEADING CAUSES BY HEALTH REGION  
No. & Rate/100,000 Population  
PHILIPPINES  
1990

| REGION 3                       |        |        | REGION 4                      |        |        |
|--------------------------------|--------|--------|-------------------------------|--------|--------|
| CAUSE                          | NUMBER | RATE   | CAUSE                         | NUMBER | RATE   |
| 1. DIARRHEAS.....              | 113684 | 1792.8 | 1. DIARRHEAS.....             | 99166  | 1055.2 |
| 2. BRONCHITIS.....             | 81600  | 1286.9 | 2. INFLUENZA.....             | 55641  | 658.5  |
| 3. INFLUENZA.....              | 26663  | 420.5  | 3. BRONCHITIS.....            | 54513  | 645.1  |
| 4. ACCIDENTS.....              | 22775  | 359.2  | 4. T.B. ALL FORMS.....        | 20548  | 243.2  |
| 5. DISEASES OF THE HEART.....  | 15426  | 243.3  | 5. MALARIA.....               | 19667  | 232.7  |
| 6. PNEUMONIAS.....             | 12651  | 199.5  | 6. DISEASES OF THE HEART..... | 17088  | 202.2  |
| 7. T.B. ALL FORMS.....         | 10603  | 167.2  | 7. PNEUMONIAS.....            | 13760  | 162.8  |
| 8. MALIGNANT NEOPLASMS.....    | 3778   | 59.6   | 8. ACCIDENTS.....             | 13542  | 160.3  |
| 9. MEASLES.....                | 3338   | 52.6   | 9. MALIGNANT NEOPLASMS.....   | 4091   | 48.4   |
| 10. GONOCOCCAL INFECTIONS..... | 2051   | 32.3   | 10. MEASLES.....              | 3478   | 41.2   |

TABLE 14

MORBIDITY: TEN LEADING CAUSES BY HEALTH REGION  
No. & Rate/100,000 Population  
PHILIPPINES  
1990

| REGION 5                      |        |        | REGION 6   |        |        |
|-------------------------------|--------|--------|--|--------|--------|
| CAUSE                         | NUMBER | RATE   | CAUSE  | NUMBER | RATE   |
| 1. BRONCHITIS.....            | 88779  | 2218.9 | 1. BRONCHITIS.....   | 85859  | 1556.1 |
| 2. INFLUENZA.....             | 60997  | 1524.6 | 2. DIARRHEAS.....  | 59088  | 1070.9 |
| 3. DIARRHEAS.....             | 57290  | 1431.9 | 3. INFLUENZA.....  | 43503  | 788.4  |
| 4. PNEUMONIAS.....            | 26698  | 667.3  | 4. T.B. ALL FORMS.....   | 17095  | 309.8  |
| 5. T.B. ALL FORMS.....        | 17512  | 437.7  | 5. PNEUMONIAS.....   | 15619  | 283.1  |
| 6. DISEASES OF THE HEART..... | 6361   | 159.0  | 6. ACCIDENTS.....  | 12341  | 223.7  |
| 7. MEASLES.....               | 3736   | 93.4   | 7. DISEASES OF THE HEART.....  | 6017   | 109.0  |
| 8. VARICELLA.....             | 3248   | 81.2   | 8. MALIGNANT NEOPLASMS.....  | 3212   | 58.2   |
| 9. ACCIDENTS.....             | 3082   | 77.0   | 9. VARICELLA.....  | 2763   | 50.1   |
| 10. MALARIA.....              | 2096   | 52.4   | 10. TYPHOID & PARATYPHOID<br>FEVER & OTHER SALMONELLA<br>INFECTIONS..... | 2672   | 48.4   |

MORBIDITY: TEN LEADING CAUSES BY HEALTH REGION  
No. & Rate/100,000 Population  
PHILIPPINES  
1990

| REGION 7                      |        |        | REGION 8                      |        |        |
|-------------------------------|--------|--------|-------------------------------|--------|--------|
| CAUSE                         | NUMBER | RATE   | CAUSE                         | NUMBER | RATE   |
| 1. DIARRHEAS.....             | 92154  | 1962.8 | 1. BRONCHITIS.....            | 82103  | 2628.2 |
| 2. BRONCHITIS.....            | 43710  | 931.0  | 2. DIARRHEAS.....             | 62657  | 2005.7 |
| 3. INFLUENZA.....             | 28005  | 596.5  | 3. INFLUENZA.....             | 32512  | 1040.8 |
| 4. PNEUMONIAS.....            | 19715  | 419.9  | 4. PNEUMONIAS.....            | 24931  | 798.1  |
| 5. T.B. ALL FORMS.....        | 11513  | 245.2  | 5. ACCIDENTS.....             | 11012  | 352.5  |
| 6. ACCIDENTS.....             | 9424   | 200.7  | 6. T.B. ALL FORMS.....        | 10335  | 330.8  |
| 7. DISEASES OF THE HEART..... | 7773   | 165.6  | 7. DISEASES OF THE HEART..... | 5276   | 163.9  |
| 8. MALIGNANT NEOPLASMS.....   | 3463   | 73.8   | 8. SHISTOSOMIASIS.....        | 4122   | 132.0  |
| 9. MEASLES.....               | 2925   | 62.3   | 9. MEASLES.....               | 3884   | 124.3  |
| 10. VARICELLA.....            | 1415   | 30.1   | 10. VARICELLA.....            | 1286   | 41.2   |

TABLE 14

MORBIDITY: TEN LEADING CAUSES BY HEALTH REGION  
No. & Rate/100,000 Population  
PHILIPPINES  
1990

| REGION 9                |        |        | REGION 10                     |        |        |
|-------------------------|--------|--------|-------------------------------|--------|--------|
| CAUSE                   | NUMBER | RATE   | CAUSE                         | NUMBER | RATE   |
| 1. DIARRHEAS.....       | 92827  | 2875.3 | 1. BRONCHITIS.....            | 99335  | 2767.9 |
| 2. BRONCHITIS.....      | 90032  | 2788.8 | 2. INFLUENZA.....             | 51358  | 1431.0 |
| 3. INFLUENZA.....       | 72903  | 2258.2 | 3. DIARRHEAS.....             | 48396  | 1348.5 |
| 4. PNEUMONIAS.....      | 18595  | 576.0  | 4. PNEUMONIAS.....            | 16988  | 473.4  |
| 5. T.B. ALL FORMS.....  | 8665   | 268.4  | 5. MALARIA.....               | 12513  | 348.7  |
| 6. ACCIDENTS.....       | 7364   | 228.1  | 6. T.B. ALL FORMS.....        | 8995   | 250.6  |
| 7. MALARIA.....         | 3203   | 99.2   | 7. ACCIDENTS.....             | 6375   | 177.6  |
| 8. SCHISTOSOMIASIS..... | 3172   | 98.3   | 8. DISEASES OF THE HEART..... | 4759   | 132.6  |
| 9. VARICELLA.....       | 2577   | 79.8   | 9. MEASLES.....               | 3495   | 97.4   |
| 10. MEASLES.....        | 2022   | 62.6   | 10. VARICELLA.....            | 2159   | 60.4   |

MORBIDITY: TEN LEADING CAUSES BY HEALTH REGION  
No. & Rate/100,000 Population  
PHILIPPINES  
1990

| REGION 11                     |        |        | REGION 12                      |        |        |
|-------------------------------|--------|--------|--------------------------------|--------|--------|
| CAUSE                         | NUMBER | RATE   | CAUSE                          | NUMBER | RATE   |
| 1. BRONCHITIS.....            | 123960 | 2719.6 | 1. DIARRHEAS.....              | 83230  | 2564.5 |
| 2. DIARRHEAS.....             | 63773  | 1399.1 | 2. BRONCHITIS.....             | 56307  | 1734.9 |
| 3. INFLUENZA.....             | 44130  | 968.2  | 3. INFLUENZA.....              | 44696  | 1377.2 |
| 4. PNEUMONIAS.....            | 20123  | 441.5  | 4. PNEUMONIAS.....             | 15914  | 490.3  |
| 5. ACCIDENTS.....             | 9246   | 202.8  | 5. T.B. ALL FORMS.....         | 7890   | 242.8  |
| 6. MALARIA.....               | 8616   | 189.0  | 6. ACCIDENTS.....              | 4483   | 138.1  |
| 7. T.B. ALL FORMS.....        | 7344   | 172.1  | 7. VARICELLA.....              | 3558   | 109.6  |
| 8. SCHISTOSOMIASIS.....       | 3909   | 85.8   | 8. MEASLES.....                | 3138   | 96.7   |
| 9. DISEASES OF THE HEART..... | 3810   | 83.6   | 9. MALARIA.....                | 2974   | 91.6   |
| 10. VARICELLA.....            | 3640   | 79.9   | 10. DISEASES OF THE HEART..... | 2730   | 84.1   |

TABLE 15

**NOTIFIABLE DISEASES: REPORTED CASES & DEATHS**  
**BY HEALTH REGION, PROVINCE & CITY**  
**No. & Rate/100,000 Pop.**  
**PHILIPPINES**  
**1990**

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| A R E A            | TYPHOID & PARATYPHOID FEVER &<br>OTHER SALMONELLA INF. (002-003) |       |             |      | DIARRHEAS<br>(004-009) |        |             |      |
|--------------------|--|-------|-------------|------|------------------------|--------|-------------|------|
|                    | C A S E S  |       | D E A T H S |      | C A S E S              |        | D E A T H S |      |
|                    | NUMBER   | RATE  | NUMBER      | RATE | NUMBER                 | RATE   | NUMBER      | RATE |
| PHILIPPINES.....   | 15720  | 25.3  | 1045        | 1.7  | 927860                 | 1495.4 | 6396        | 10.3 |
| NAT. CAP. REGION.. | 806  | 9.9   | 113         | 1.4  | 51704                  | 391.3  | 761         | 9.4  |
| 1ST DIST. MANILA.. | 367  | 15.0  | 29          | 1.2  | 4981                   | 203.0  | 120         | 4.9  |
| 2ND DIST. MUN.     | 72   | 8.9   | 30          | 2.9  | 2110                   | 201.2  | 104         | 9.9  |
| QUEZON CITY.....   | 145  | 8.5   | 32          | 1.9  | 5418                   | 318.0  | 165         | 9.7  |
| 3RD DIST. MUN.     | 21   | 2.5   | 8           | 0.7  | 4482                   | 531.7  | 69          | 8.2  |
| CALOOCAN CITY...   | 63   | 8.1   | 3           | 0.4  | 3548                   | 454.5  | 128         | 16.4 |
| 4TH DIST. MUN.     | 68   | 7.6   | 8           | 0.9  | 9506                   | 949.1  | 149         | 16.6 |
| PASAY CITY.....    | 70   | 18.6  | 5           | 1.3  | 2659                   | 707.7  | 26          | 6.9  |
| C.A.R.             | 509  | 43.5  | 12          | 1.0  | 37401                  | 3198.8 | 68          | 5.8  |
| ABRA.....          | 28   | 14.8  | 1           | 0.5  | 3709                   | 1962.7 | 7           | 3.7  |
| BENGUET.....       | 130  | 42.0  | 3           | 1.0  | 9411                   | 3038.9 | 15          | 4.8  |
| IFUGAO.....        | 89   | 59.1  | 1           | 0.7  | 5790                   | 3843.4 | 4           | 2.7  |
| KALINGA-APAYAO.... | 44   | 20.3  | 2           | 0.9  | 4620                   | 2133.0 | 15          | 6.9  |
| MT. PROVINCE.....  | 31   | 26.0  | 3           | 2.5  | 11409                  | 9585.1 | 15          | 12.6 |
| BAGUIO CITY.....   | 187  | 101.5 | 2           | 1.1  | 2462                   | 1336.0 | 12          | 6.5  |
| REGION 1           | 1866   | 51.3  | 138         | 3.8  | 38388                  | 1056.2 | 324         | 8.9  |
| ILOCOS NORTE.....  | 219  | 56.7  | 10          | 2.6  | 7403                   | 1916.8 | 24          | 6.2  |
| ILOCOS SUR.....    | 563  | 105.8 | 16          | 3.0  | 6696                   | 1258.5 | 28          | 5.3  |
| LA UNION.....      | 473  | 84.2  | 44          | 7.8  | 7899                   | 1406.2 | 41          | 7.3  |
| PANGASINAN.....    | 313  | 17.2  | 46          | 2.5  | 13225                  | 728.3  | 156         | 8.6  |
| DAGUPAN CITY.....  | 287  | 229.1 | 18          | 14.4 | 1040                   | 830.3  | 53          | 42.3 |
| LAOAG CITY.....    | 10   | 11.7  | 4           | 4.7  | 812                    | 946.2  | 7           | 8.2  |
| SAN CARLOS CITY... | 1  | 0.8   | 0           | -    | 1313                   | 1029.1 | 15          | 11.8 |
| REGION 2           | 122  | 5.1   | 17          | 0.7  | 58102                  | 2427.1 | 378         | 15.8 |
| BATANES.....       | 0  | -     | 0           | -    | 818                    | 5331.8 | 0           | -    |
| CAGAYAN.....       | 21   | 2.5   | 8           | 0.9  | 17927                  | 2112.6 | 143         | 16.9 |
| ISABELA.....       | 10   | 0.9   | 8           | 0.7  | 22440                  | 2030.6 | 114         | 10.3 |
| NEUVA VIZCAYA..... | 9  | 2.9   | 1           | 0.3  | 14872                  | 4829.2 | 116         | 37.7 |
| QUIRINO.....       | 82   | 70.2  | 0           | -    | 2045                   | 1749.9 | 5           | 4.3  |
| REGION 3           | 511  | 8.1   | 52          | 0.8  | 113684                 | 1792.8 | 440         | 6.9  |
| BATAAN.....        | 119  | 27.3  | 4           | 0.9  | 11980                  | 2753.1 | 17          | 3.9  |
| BULACAN.....       | 91   | 5.9   | 17          | 1.1  | 21544                  | 1399.6 | 138         | 9.0  |
| NUEVA ECIJA.....   | 29   | 2.8   | 4           | 0.4  | 19546                  | 1883.7 | 43          | 4.1  |
| PAMPANGA.....      | 20   | 1.5   | 2           | 0.2  | 24105                  | 1818.1 | 60          | 4.5  |
| TARLAC.....        | 56   | 6.4   | 9           | 1.0  | 22484                  | 2553.9 | 39          | 4.4  |
| ZAMBALES.....      | 32   | 8.5   | 4           | 1.1  | 3844                   | 1018.8 | 51          | 13.5 |

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TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| A R E A             | TYPHOID & PARATYPHOID FEVER &<br>OTHER SALMONELLA INF. (002-003) |       |             |      | DIARRHEAS<br>(004-009) |        |             |       |
|---------------------|--|-------|-------------|------|------------------------|--------|-------------|-------|
|                     | C A S E S  |       | D E A T H S |      | C A S E S              |        | D E A T H S |       |
|                     | NUMBER   | RATE  | NUMBER      | RATE | NUMBER                 | RATE   | NUMBER      | RATE  |
| ANGELES CITY.....   | 12   | 5.0   | 0           | -    | 4858                   | 2008.5 | 18          | 7.4   |
| CABANATUAN CITY.... | 4  | 2.1   | 3           | 1.6  | 518                    | 270.1  | 12          | 6.3   |
| OLONGAPO CITY.....  | 148  | 74.7  | 9           | 4.5  | 2227                   | 1124.3 | 43          | 21.7  |
| PALAYAN CITY.....   | 0  | -     | 0           | -    | 920                    | 4236.1 | 0           | -     |
| SAN JOSE CITY.....  | 0  | -     | 0           | -    | 1658                   | 1802.9 | 19          | 20.7  |
| REGION 4            | 562  | 6.7   | 99          | 1.2  | 89166                  | 1055.2 | 1042        | 12.3  |
| AURORA.....         | 0  | -     | 0           | -    | 1320                   | 926.4  | 20          | 14.0  |
| BATANGAS.....       | 145  | 12.5  | 17          | 1.5  | 14857                  | 1283.0 | 72          | 6.2   |
| CAVITE.....         | 31   | 3.0   | 7           | 0.7  | 6372                   | 610.3  | 80          | 7.7   |
| LAGUNA.....         | 18   | 1.5   | 7           | 0.6  | 434                    | 35.1   | 150         | 12.1  |
| MARINDUQUE.....     | 13   | 6.8   | 2           | 1.1  | 2732                   | 1438.3 | 23          | 12.1  |
| MINDORO OCC.....    | 8  | 2.8   | 1           | 0.3  | 1600                   | 554.4  | 46          | 15.9  |
| MINDORO OR.....     | 35   | 6.2   | 2           | 0.4  | 6826                   | 1212.3 | 78          | 13.9  |
| PALAWAN.....        | 4  | 0.8   | 1           | 0.2  | 6315                   | 1417.9 | 61          | 13.7  |
| QUEZON.....         | 91   | 7.3   | 16          | 1.3  | 21316                  | 1705.4 | 211         | 16.9  |
| RIZAL.....          | 27   | 2.7   | 16          | 1.6  | 10800                  | 1080.1 | 130         | 13.0  |
| ROMBLON.....        | 107  | 45.9  | 7           | 3.0  | 5236                   | 2247.4 | 38          | 16.3  |
| BATANGAS CITY.....  | 4  | 2.1   | 1           | 0.5  | 1489                   | 785.7  | 12          | 6.3   |
| CAVITE CITY.....    | 27   | 28.8  | 2           | 2.1  | 780                    | 830.7  | 19          | 20.2  |
| LIPA CITY.....      | 16   | 9.8   | 3           | 1.8  | 1309                   | 797.9  | 14          | 8.5   |
| LUCENA CITY.....    | 10   | 6.5   | 6           | 3.9  | 3942                   | 2568.1 | 38          | 24.8  |
| PUERTO PRINCESA.... | 4  | 4.3   | 1           | 1.1  | 1225                   | 1331.3 | 12          | 13.0  |
| SAN PABLO CITY..... | 13   | 7.8   | 6           | 3.6  | 1754                   | 1059.1 | 15          | 9.1   |
| TAGAYTAY CITY.....  | 0  | -     | 0           | -    | 691                    | 2840.9 | 6           | 24.7  |
| TRECE MARTIRES..... | 9  | 56.0  | 4           | 24.9 | 168                    | 1045.3 | 17          | 105.8 |
| REGION 5            | 1257   | 31.4  | 68          | 1.7  | 57290                  | 1431.9 | 493         | 12.3  |
| ALBAY.....          | 269  | 33.6  | 9           | 1.1  | 13707                  | 1711.4 | 68          | 8.5   |
| CAMARINES NORTE.... | 6  | 1.5   | 2           | 0.5  | 4493                   | 1123.1 | 92          | 23.0  |
| CAMARINES SUR.....  | 206  | 18.5  | 11          | 1.0  | 19227                  | 1725.6 | 148         | 13.3  |
| CATANDUANES.....    | 62   | 32.4  | 8           | 4.2  | 1529                   | 798.8  | 27          | 14.1  |
| MASBATE.....        | 653  | 106.4 | 11          | 1.8  | 10135                  | 1651.6 | 78          | 12.7  |
| SORSOGON.....       | 14   | 2.6   | 6           | 1.1  | 5570                   | 1041.0 | 53          | 9.9   |
| IRIGA CITY.....     | 6  | 7.2   | 2           | 2.4  | 476                    | 570.2  | 5           | 6.0   |
| LEGASPI CITY.....   | 17   | 13.7  | 9           | 7.3  | 632                    | 510.3  | 6           | 4.8   |
| NAGA CITY.....      | 24   | 17.4  | 10          | 7.2  | 1521                   | 1100.0 | 16          | 11.6  |
| REGION 6            | 2672   | 48.4  | 141         | 2.6  | 59088                  | 1070.9 | 645         | 11.7  |
| AKLAN.....          | 152  | 39.0  | 3           | 0.8  | 7030                   | 1805.4 | 28          | 7.2   |
| ANTIQUE.....        | 241  | 57.9  | 17          | 4.1  | 6441                   | 1548.6 | 56          | 13.5  |
| CAPIZ.....          | 186  | 39.9  | 3           | 0.6  | 5951                   | 1276.3 | 41          | 8.8   |
| ILOILO.....         | 943  | 63.3  | 32          | 2.1  | 10892                  | 731.6  | 152         | 10.2  |
| NEGROS OCC.....     | 671  | 47.3  | 35          | 2.5  | 20990                  | 1481.1 | 182         | 12.8  |

TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| A R E A              | TYPHOID & PARATYPHOID FEVER &<br>OTHER SALMONELLA INF. (002-003) |       |             |      | DIARRHEAS<br>(004-009) |        |             |      |
|----------------------|--|-------|-------------|------|------------------------|--------|-------------|------|
|                      | C A S E S  |       | D E A T H S |      | C A S E S              |        | D E A T H S |      |
|                      | NUMBER   | RATE  | NUMBER      | RATE | NUMBER                 | RATE   | NUMBER      | RATE |
| RACOLD CITY.....     | 162  | 43.4  | 13          | 3.5  | 2007                   | 537.9  | 68          | 18.2 |
| RAGO CITY.....       | 14   | 11.1  | 0           | -    | 62                     | 49.3   | 17          | 13.5 |
| CADIZ CITY.....      | 21   | 17.1  | 1           | 0.8  | 984                    | 801.8  | 14          | 11.4 |
| ILOILO CITY.....     | 255  | 80.4  | 26          | 8.2  | 1331                   | 419.7  | 17          | 5.4  |
| LA CARLOTA CITY..... | 3  | 5.2   | 0           | -    | 1116                   | 1929.7 | 2           | 3.5  |
| ROXAS CITY.....      | 5  | 3.8   | 2           | 1.5  | 621                    | 472.0  | 14          | 10.6 |
| SAN CARLOS CITY..... | 8  | 7.4   | 3           | 2.8  | 1513                   | 1398.9 | 42          | 38.8 |
| SILAY CITY.....      | 11   | 10.6  | 6           | 5.8  | 150                    | 144.9  | 12          | 11.6 |
| REGION 7             | 870  | 18.5  | 95          | 2.0  | 92154                  | 1962.8 | 537         | 11.4 |
| BOHOL.....           | 29   | 3.2   | 19          | 2.1  | 23585                  | 3239.1 | 100         | 10.9 |
| CEBU.....            | 84   | 5.4   | 26          | 1.7  | 17532                  | 1129.5 | 136         | 8.8  |
| NEGROS OR.           | 247  | 32.3  | 11          | 1.4  | 22869                  | 2986.9 | 63          | 8.2  |
| SIQUJOR.....         | 16   | 21.1  | 1           | 1.3  | 720                    | 951.1  | 2           | 2.6  |
| BALIS CITY.....      | 10   | 16.4  | 0           | -    | 161                    | 263.8  | 3           | 4.9  |
| CANLAON CITY.....    | 0  | -     | 0           | -    | 1650                   | 4334.5 | 33          | 86.7 |
| CEBU CITY.....       | 186  | 30.0  | 13          | 2.8  | 13883                  | 2241.0 | 87          | 14.0 |
| DANAO CITY.....      | 2  | 2.7   | 1           | 1.3  | 1701                   | 2268.4 | 16          | 21.3 |
| DUMAGUETE CITY.....  | 61   | 75.1  | 10          | 12.3 | 182                    | 224.0  | 20          | 24.6 |
| LAPU-LAPU CITY.....  | 2  | 1.3   | 0           | -    | 1814                   | 1215.7 | 14          | 9.4  |
| MANDAWE CITY.....    | 2  | 1.1   | 1           | 0.5  | 88                     | 47.8   | 41          | 22.3 |
| TAGBILARAN CITY..... | 28   | 49.1  | 5           | 8.8  | 1230                   | 2157.0 | 12          | 21.0 |
| TOLEDO CITY.....     | 203  | 165.4 | 3           | 2.4  | 739                    | 602.2  | 10          | 8.1  |
| REGION 8             | 856  | 27.4  | 43          | 1.4  | 62657                  | 2005.7 | 298         | 9.5  |
| LEYTE DEL NORTE..... | 72   | 5.8   | 13          | 1.0  | 17336                  | 1390.4 | 117         | 9.4  |
| LEYTE DEL SUR.....   | 14   | 4.2   | 2           | 0.6  | 16563                  | 5028.0 | 52          | 15.8 |
| EASTERN SAMAR.....   | 2  | 0.6   | 1           | 0.3  | 8689                   | 2580.0 | 6           | 1.8  |
| NORTHERN SAMAR.....  | 218  | 55.5  | 8           | 2.0  | 11774                  | 2998.9 | 39          | 9.9  |
| WESTERN SAMAR.....   | 421  | 98.6  | 4           | 0.9  | 6207                   | 1453.0 | 25          | 5.9  |
| CALBAYOG CITY.....   | 93   | 78.9  | 7           | 5.8  | 365                    | 308.8  | 20          | 17.0 |
| ORMOC CITY.....      | 17   | 12.8  | 3           | 2.3  | 1545                   | 1164.8 | 10          | 7.5  |
| TACLOBAN CITY.....   | 19   | 13.5  | 5           | 3.6  | 178                    | 126.6  | 29          | 20.6 |
| REGION 9             | 640  | 18.8  | 72          | 2.2  | 92827                  | 2875.3 | 371         | 11.5 |
| BASILAN.....         | 24   | 9.8   | 4           | 1.6  | 2601                   | 1066.6 | 14          | 5.7  |
| SULU.....            | 12   | 2.5   | 5           | 1.0  | 3995                   | 331.6  | 27          | 5.6  |
| TAWI-TAWI.....       | 0  | -     | 0           | -    | 1250                   | 535.7  | 0           | -    |
| ZAMB. DEL NORTE..... | 72   | 13.1  | 10          | 1.8  | 32275                  | 5873.4 | 71          | 12.9 |
| ZAMB. DEL SUR.....   | 208  | 20.4  | 26          | 2.6  | 47678                  | 4683.0 | 121         | 11.9 |

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TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| A R E A             | TYPHOID & PARATYPHOID FEVER &<br>OTHER SALMONELLA INF. (002-003) |       |             |      | DIARRHEAS<br>(004-009) |        |             |      |
|---------------------|--|-------|-------------|------|------------------------|--------|-------------|------|
|                     | C A S E S  |       | D E A T H S |      | C A S E S              |        | D E A T H S |      |
|                     | NUMBER   | RATE  | NUMBER      | RATE | NUMBER                 | RATE   | NUMBER      | RATE |
| DAPITAN CITY.....   | 12   | 19.5  | 2           | 3.2  | 687                    | 1114.9 | 14          | 22.7 |
| DIPOLOG CITY.....   | 43   | 52.8  | 1           | 1.2  | 1091                   | 1338.6 | 13          | 16.0 |
| PAGADIAN CITY.....  | 20   | 18.5  | 10          | 9.2  | 1554                   | 1435.0 | 48          | 44.3 |
| ZAMBOANGA CITY..... | 249  | 55.1  | 14          | 3.1  | 1695                   | 375.2  | 63          | 13.9 |
| REGION 10           | 1017   | 28.3  | 52          | 1.4  | 48396                  | 1348.5 | 411         | 11.5 |
| AGUSAN DEL NORTE... | 24   | 9.9   | 1           | 0.4  | 6519                   | 2679.4 | 25          | 10.3 |
| AGUSAN DEL SUR....  | 5  | 1.2   | 2           | 0.5  | 1703                   | 395.8  | 34          | 7.9  |
| BUKIDNON.....       | 118  | 13.7  | 10          | 1.2  | 7194                   | 833.6  | 97          | 11.2 |
| CAMIGUIN.....       | 4  | 6.1   | 0           | -    | 1462                   | 2223.3 | 6           | 9.1  |
| MISAMIS OCC.....    | 37   | 15.2  | 4           | 1.6  | 3131                   | 1287.6 | 12          | 4.9  |
| MISAMIS OR.....     | 45   | 9.9   | 5           | 1.1  | 10841                  | 2393.2 | 72          | 15.9 |
| SURIGAO DEL NORTE.. | 196  | 58.8  | 2           | 0.6  | 4848                   | 1455.0 | 28          | 8.4  |
| BUTUAN CITY.....    | 54   | 23.2  | 5           | 2.1  | 4066                   | 1745.6 | 40          | 17.2 |
| CAGAYAN DE ORO....  | 435  | 125.6 | 8           | 2.3  | 2621                   | 756.9  | 43          | 12.4 |
| GINGOOG CITY.....   | 3  | 3.5   | 1           | 1.2  | 952                    | 1125.1 | 16          | 18.9 |
| OROQUIETA CITY..... | 9  | -     | 0           | -    | 855                    | 1594.6 | 2           | 3.7  |
| OZAMIS CITY.....    | 71   | 76.1  | 5           | 5.4  | 1899                   | 2035.8 | 15          | 16.1 |
| SURIGAO CITY.....   | 12   | 11.7  | 5           | 4.9  | 1305                   | 1272.7 | 13          | 12.7 |
| TANGUB CITY.....    | 13   | 29.6  | 4           | 9.1  | 1000                   | 2275.3 | 8           | 18.2 |
| REGION 11           | 1771   | 38.9  | 80          | 1.8  | 63773                  | 1399.1 | 466         | 10.2 |
| COTABATO SOUTH....  | 173  | 20.6  | 11          | 1.3  | 18078                  | 2147.9 | 75          | 8.9  |
| DAVAO DEL NORTE.... | 80   | 19.8  | 26          | 6.4  | 7462                   | 1847.0 | 87          | 21.5 |
| DAVAO ORIENTAL....  | 18   | 1.7   | 3           | 0.3  | 3387                   | 313.9  | 18          | 1.7  |
| DAVAO DEL SUR.....  | 123  | 19.0  | 9           | 1.4  | 17217                  | 2657.7 | 51          | 7.9  |
| SURIGAO DEL SUR.... | 751  | 162.4 | 6           | 1.3  | 12086                  | 2616.0 | 96          | 20.8 |
| DAVAO CITY.....     | 522  | 60.2  | 20          | 2.3  | 4272                   | 492.6  | 57          | 6.6  |
| GEN. SANTOS CITY..  | 104  | 40.7  | 5           | 2.0  | 1261                   | 492.9  | 82          | 32.1 |
| REGION 12           | 2261   | 69.7  | 63          | 1.9  | 83230                  | 2564.5 | 162         | 5.0  |
| COTABATO NORTH....  | 750  | 95.9  | 5           | 0.6  | 21887                  | 2799.1 | 19          | 2.4  |
| LANAO DEL NORTE.... | 695  | 175.1 | 18          | 4.5  | 8096                   | 2040.0 | 35          | 8.8  |
| LANAO DEL SUR.....  | 110  | 21.1  | 6           | 1.2  | 12782                  | 2457.6 | 3           | 0.6  |
| MAGUINDANAO.....    | 205  | 31.8  | 5           | 0.8  | 23995                  | 3718.5 | 10          | 1.5  |
| SULTAN KUDARAT....  | 62   | 13.9  | 5           | 1.1  | 11833                  | 2652.1 | 36          | 8.1  |
| COTABATO CITY.....  | 246  | 189.0 | 10          | 7.7  | 1862                   | 1430.2 | 14          | 10.8 |
| ILIGAN CITY.....    | 193  | 83.4  | 14          | 6.0  | 1811                   | 782.3  | 39          | 16.8 |
| MARAWI CITY.....    | 0  | -     | 0           | -    | 963                    | 1030.5 | 6           | 6.4  |

TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| A R E A            | TUBERCULOSIS, OTHER FORMS<br>(010-012;014-018;137) |       |             |      | T. B. MENINGITIS<br>(013) |      |             |      |
|--------------------|--|-------|-------------|------|---------------------------|------|-------------|------|
|                    | C A S E S  |       | D E A T H S |      | C A S E S                 |      | D E A T H S |      |
|                    | NUMBER   | RATE  | NUMBER      | RATE | NUMBER                    | RATE | NUMBER      | RATE |
| PHILIPPINES.....   | 149838   | 241.6 | 23908       | 38.5 | 2750                      | 4.4  | 399         | 0.6  |
| NAT. CAP. REGION.. | 13433  | 165.8 | 3774        | 46.6 | 506                       | 6.2  | 109         | 1.3  |
| 1ST DIST. MANILA.. | 3963   | 161.5 | 982         | 40.0 | 113                       | 4.6  | 58          | 2.4  |
| 2ND DIST. MUN..... | 1012   | 96.5  | 403         | 38.4 | 41                        | 3.9  | 9           | 0.9  |
| QUEZON CITY.....   | 2097   | 123.1 | 1251        | 73.4 | 51                        | 3.0  | 24          | 1.4  |
| 3RD DIST. MUN..... | 1211   | 143.7 | 235         | 27.9 | 14                        | 1.7  | 2           | 0.2  |
| CALOOCAN CITY....  | 1725   | 221.0 | 350         | 44.8 | 84                        | 10.8 | 4           | 0.5  |
| 4TH DIST. MUN..... | 2591   | 289.1 | 428         | 47.8 | 191                       | 21.3 | 11          | 1.2  |
| PASAY CITY.....    | 834  | 222.0 | 125         | 33.3 | 12                        | 3.2  | 1           | 0.3  |
| C.A.R.             | 1071   | 91.6  | 203         | 17.4 | 15                        | 1.3  | 5           | 0.4  |
| AERA.....          | 246  | 130.2 | 59          | 31.2 | 4                         | 2.1  | 0           | -    |
| BENGUET.....       | 113  | 36.5  | 36          | 11.6 | 3                         | 1.0  | 0           | -    |
| IFUGAO.....        | 220  | 146.0 | 28          | 18.6 | 5                         | 3.3  | 0           | -    |
| KALINGA-APAYAO...  | 294  | 135.7 | 31          | 14.3 | 3                         | 1.4  | 2           | 0.9  |
| MT. PROVINCE.....  | 96   | 80.7  | 14          | 11.3 | 0                         | -    | 0           | -    |
| BAGUIO CITY.....   | 102  | 55.3  | 35          | 19.0 | 0                         | -    | 3           | 1.6  |
| REGION 1           | 7278   | 200.2 | 1628        | 44.8 | 55                        | 1.5  | 16          | 0.4  |
| ILOCOS NORTE.....  | 417  | 108.0 | 147         | 38.1 | 2                         | 0.5  | 1           | 0.3  |
| ILOCOS SUR.....    | 658  | 123.7 | 192         | 36.1 | 7                         | 1.3  | 1           | 0.2  |
| LA UNION.....      | 699  | 124.4 | 266         | 47.4 | 18                        | 3.2  | 9           | 1.6  |
| PANGASINAN.....    | 4699   | 258.8 | 837         | 46.1 | 18                        | 1.0  | 4           | 0.2  |
| DAGUPAN CITY.....  | 292  | 233.1 | 93          | 74.2 | 3                         | 2.4  | 1           | 0.8  |
| LAOAG CITY.....    | 156  | 181.8 | 27          | 31.5 | 0                         | -    | 0           | -    |
| SAN CARLOS CITY... | 357  | 279.8 | 66          | 51.7 | 7                         | 5.5  | 0           | -    |
| REGION 2           | 7166   | 299.4 | 741         | 31.0 | 28                        | 1.2  | 7           | 0.3  |
| BATANES.....       | 95   | 619.2 | 4           | 26.1 | 0                         | -    | 0           | -    |
| CAGAYAN.....       | 3665   | 431.9 | 340         | 40.1 | 18                        | 2.1  | 5           | 0.6  |
| ISABELA.....       | 1293   | 117.0 | 310         | 28.1 | 5                         | 0.5  | 2           | 0.2  |
| NEIVA VIZCAYA..... | 1833   | 595.2 | 53          | 17.2 | 0                         | -    | 0           | -    |
| QUIRINO.....       | 250  | 239.6 | 34          | 29.1 | 5                         | 4.3  | 0           | -    |
| REGION 3           | 10603  | 167.2 | 2608        | 41.1 | 333                       | 5.3  | 40          | 0.6  |
| BATAAN.....        | 3231   | 742.5 | 201         | 46.2 | 63                        | 14.5 | 7           | 1.6  |
| BULACAN.....       | 2013   | 130.8 | 754         | 49.0 | 24                        | 1.6  | 8           | 0.5  |
| NUOVA ECIJA.....   | 802  | 77.3  | 341         | 32.9 | 33                        | 3.2  | 0           | -    |
| PAMPANGA.....      | 920  | 69.4  | 431         | 32.5 | 89                        | 6.7  | 10          | 0.8  |
| TARLAC.....        | 769  | 87.3  | 357         | 40.6 | 68                        | 7.7  | 5           | 0.6  |
| ZAMBALES.....      | 1203   | 318.9 | 194         | 51.4 | 6                         | 1.6  | 2           | 0.5  |

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| A R E A              | TUBERCULOSIS, OTHER FORMS<br>(010-012;014-018;137) |       |             |       | T. B. MENINGITIS<br>(013) |      |             |      |
|----------------------|--|-------|-------------|-------|---------------------------|------|-------------|------|
|                      | C A S E S  |       | D E A T H S |       | C A S E S                 |      | D E A T H S |      |
|                      | NUMBER   | RATE  | NUMBER      | RATE  | NUMBER                    | RATE | NUMBER      | RATE |
| ANGELES CITY.....    | 239  | 98.8  | 34          | 38.9  | 20                        | 8.3  | 7           | 2.9  |
| CABANATUAN CITY....  | 273  | 142.4 | 103         | 53.7  | 3                         | 1.6  | 1           | 0.5  |
| OLONGAPO CITY.....   | 953  | 481.1 | 101         | 51.0  | 27                        | 13.6 | 0           | -    |
| PALAYAN CITY.....    | 26   | 119.7 | 3           | 13.8  | 0                         | -    | 0           | -    |
| SAN JOSE CITY.....   | 169  | 183.8 | 29          | 31.5  | 0                         | -    | 0           | -    |
| REGION 4             | 20548  | 243.2 | 3402        | 40.3  | 216                       | 2.6  | 58          | 0.7  |
| AURORA.....          | 122  | 85.6  | 63          | 44.2  | 3                         | 2.1  | 1           | 0.7  |
| BATANGAS.....        | 3015   | 260.4 | 327         | 28.2  | 12                        | 1.0  | 6           | 0.5  |
| CAVITE.....          | 1987   | 190.3 | 326         | 31.2  | 21                        | 2.0  | 8           | 0.8  |
| LAGUNA.....          | 1403   | 113.4 | 706         | 57.1  | 33                        | 2.7  | 8           | 0.6  |
| MARINDUQUE.....      | 604  | 318.9 | 110         | 57.9  | 1                         | 0.5  | 0           | -    |
| MINDORO OCC.....     | 668  | 231.5 | 84          | 29.1  | 0                         | -    | 0           | -    |
| MINDORO OR.....      | 406  | 72.1  | 219         | 38.9  | 9                         | 1.6  | 3           | 0.5  |
| PALAWAN.....         | 1669   | 374.7 | 109         | 24.5  | 0                         | -    | 0           | -    |
| QUEZON.....          | 5725   | 458.0 | 591         | 47.3  | 60                        | 4.8  | 8           | 0.6  |
| RIZAL.....           | 1176   | 117.6 | 371         | 37.1  | 35                        | 3.5  | 6           | 0.6  |
| ROMBLON.....         | 900  | 386.3 | 123         | 52.8  | 4                         | 1.7  | 2           | 0.9  |
| BATANGAS CITY.....   | 441  | 232.7 | 65          | 34.3  | 8                         | 4.2  | 3           | 1.6  |
| CAVITE CITY.....     | 94   | 100.1 | 47          | 50.1  | 3                         | 3.2  | 1           | 1.1  |
| LIPA CITY.....       | 176  | 107.3 | 45          | 27.4  | 0                         | -    | 0           | -    |
| LAGUNA CITY.....     | 703  | 458.0 | 94          | 61.2  | 12                        | 7.8  | 6           | 3.9  |
| PUERTO PRINCESA..... | 812  | 882.4 | 28          | 30.4  | 3                         | 3.3  | 2           | 2.2  |
| SAN PABLO CITY.....  | 410  | 247.6 | 57          | 34.4  | 10                        | 6.0  | 3           | 1.8  |
| TAGAYTAY CITY.....   | 188  | 772.9 | 1           | 4.1   | 0                         | -    | 0           | -    |
| TRECE MARTIRES.....  | 49   | 304.9 | 36          | 224.0 | 2                         | 12.4 | 1           | 6.2  |
| REGION 5             | 17512  | 437.7 | 2200        | 55.0  | 370                       | 8.2  | 51          | 1.3  |
| ALBAY.....           | 3703   | 462.3 | 413         | 51.6  | 86                        | 10.7 | 17          | 2.1  |
| CAMARINES NORTE..... | 3758   | 939.4 | 250         | 62.5  | 62                        | 15.5 | 7           | 1.7  |
| CAMARINES SUR.....   | 2304   | 206.8 | 656         | 58.9  | 106                       | 9.5  | 14          | 1.3  |
| CATANDUANES.....     | 599  | 312.9 | 144         | 75.2  | 17                        | 8.9  | 0           | -    |
| MASARATE.....        | 4311   | 702.5 | 150         | 24.4  | 57                        | 9.3  | 0           | -    |
| SORSOGON.....        | 2097   | 391.9 | 333         | 62.2  | 23                        | 4.3  | 3           | 0.6  |
| IRIGA CITY.....      | 96   | 115.0 | 33          | 39.5  | 0                         | -    | 0           | -    |
| LEGASPI CITY.....    | 200  | 161.5 | 62          | 50.1  | 12                        | 9.7  | 5           | 4.0  |
| NAGA CITY.....       | 444  | 321.1 | 159         | 115.0 | 7                         | 5.1  | 5           | 3.6  |
| REGION 6             | 17095  | 309.8 | 3151        | 57.1  | 491                       | 8.9  | 35          | 0.6  |
| AKLAN.....           | 3287   | 844.2 | 201         | 51.6  | 14                        | 3.6  | 1           | 0.3  |
| ANTIQUE.....         | 3444   | 828.1 | 343         | 82.5  | 13                        | 3.1  | 3           | 0.7  |
| CAPIZ.....           | 184  | 39.5  | 124         | 26.6  | 12                        | 2.6  | 0           | -    |
| ILOILO.....          | 4150   | 278.7 | 738         | 49.6  | 30                        | 2.0  | 6           | 0.4  |
| NEGROS OCC.....      | 3103   | 219.0 | 808         | 57.0  | 36                        | 2.5  | 4           | 0.3  |

TABLE 15

**NOTIFIABLE DISEASES: REPORTED CASES & DEATHS**  
**BY HEALTH REGION, PROVINCE & CITY**  
**No. & Rate/100,000 Pop.**  
**PHILIPPINES**  
**1990**

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| A R E A             | TUBERCULOSIS, OTHER FORMS<br>(010-012;014-018;137) |        |             |       | T. B. MENINGITIS<br>(013) |      |             |      |
|---------------------|--|--------|-------------|-------|---------------------------|------|-------------|------|
|                     | C A S E S  |        | D E A T H S |       | C A S E S                 |      | D E A T H S |      |
|                     | NUMBER   | RATE   | NUMBER      | RATE  | NUMBER                    | RATE | NUMBER      | RATE |
| BACOLOD CITY.....   | 477  | 127.8  | 389         | 104.2 | 37                        | 9.9  | 10          | 2.7  |
| BAGO CITY.....      | 86   | 68.3   | 62          | 49.3  | 0                         | -    | 0           | -    |
| CADIZ CITY.....     | 443  | 361.0  | 57          | 46.4  | 0                         | -    | 1           | 0.8  |
| ILOILO CITY.....    | 468  | 147.6  | 155         | 48.9  | 15                        | 4.7  | 8           | 2.5  |
| LA CARLOTA CITY.... | 514  | 888.8  | 46          | 79.5  | 0                         | -    | 0           | -    |
| ROXAS CITY.....     | 367  | 278.9  | 57          | 43.3  | 7                         | 5.3  | 2           | 1.5  |
| SAN CARLOS CITY.... | 354  | 326.8  | 48          | 44.3  | 0                         | -    | 0           | -    |
| SILAY CITY.....     | 218  | 210.6  | 123         | 118.8 | 3                         | 2.9  | 0           | -    |
| REGION 7            | 11513  | 245.2  | 1524        | 32.5  | 97                        | 2.1  | 25          | 0.5  |
| BOHOL.....          | 1908   | 208.9  | 360         | 39.4  | 4                         | 0.4  | 0           | -    |
| CEBU.....           | 2713   | 174.3  | 336         | 21.6  | 29                        | 1.9  | 6           | 0.4  |
| NEGROS OR.....      | 1246   | 162.7  | 157         | 20.5  | 22                        | 2.9  | 1           | 0.1  |
| SIGUIJOR.....       | 279  | 368.5  | 52          | 68.7  | 0                         | -    | 0           | -    |
| BAIS CITY.....      | 244  | 399.8  | 31          | 50.8  | 0                         | -    | 0           | -    |
| CANLAON CITY.....   | 735  | 1930.8 | 24          | 63.0  | 0                         | -    | 0           | -    |
| CEBU CITY.....      | 1397   | 215.8  | 325         | 52.5  | 27                        | 4.4  | 16          | 2.6  |
| DANAO CITY.....     | 44   | 58.7   | 8           | 10.7  | 1                         | 1.3  | 0           | -    |
| DUMAGUETE CITY....  | 104  | 128.0  | 91          | 112.0 | 1                         | 1.2  | 1           | 1.2  |
| LAPU-LAPU CITY....  | 2591   | 1736.5 | 27          | 18.1  | 1                         | 0.7  | 0           | -    |
| MANDANE CITY.....   | 62   | 33.7   | 42          | 22.8  | 3                         | 1.6  | 0           | -    |
| TAGBILARAN CITY.... | 204  | 357.7  | 52          | 91.2  | 2                         | 3.5  | 1           | 1.8  |
| TOLEDO CITY.....    | 46   | 37.5   | 19          | 15.5  | 7                         | 5.7  | 0           | -    |
| REGION 8            | 10335  | 330.8  | 1241        | 39.7  | 113                       | 3.6  | 10          | 0.3  |
| LEYTE DEL NORTE...  | 2908   | 233.2  | 532         | 42.7  | 54                        | 4.3  | 0           | -    |
| LEYTE DEL SUR.....  | 2572   | 780.8  | 195         | 59.2  | 33                        | 10.0 | 5           | 1.5  |
| EASTERN SAMAR.....  | 2211   | 656.5  | 69          | 20.5  | 8                         | 2.4  | 0           | -    |
| NORTHERN SAMAR....  | 1325   | 337.5  | 141         | 35.9  | 0                         | -    | 0           | -    |
| WESTERN SAMAR.....  | 613  | 143.5  | 79          | 18.5  | 0                         | -    | 0           | -    |
| CALBAYOG CITY.....  | 89   | 75.5   | 54          | 45.8  | 5                         | 4.2  | 1           | 0.8  |
| ORMOC CITY.....     | 196  | 147.8  | 80          | 60.3  | 6                         | 4.5  | 0           | -    |
| TACLOBAN CITY.....  | 421  | 299.5  | 91          | 64.7  | 7                         | 5.0  | 4           | 2.8  |
| REGION 9            | 8665   | 268.4  | 630         | 19.5  | 77                        | 2.4  | 6           | 0.2  |
| BASILAN.....        | 71   | 29.1   | 39          | 15.6  | 4                         | 1.6  | 2           | 0.8  |
| SULU.....           | 862  | 179.4  | 37          | 7.7   | 26                        | 5.4  | 0           | 0.0  |
| TAWI-TAWI.....      | 187  | 80.1   | 3           | 1.3   | 0                         | -    | 0           | -    |
| ZAMB. DEL NORTE...  | 2184   | 397.4  | 101         | 18.4  | 0                         | -    | 0           | -    |
| ZAMB. DEL SUR.....  | 4381   | 430.3  | 171         | 16.8  | 35                        | 3.4  | 2           | 0.2  |

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TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| A R E A             | TUBERCULOSIS, OTHER FORMS<br>(010-012;014-018;137) |       |             |      | T. B. MENINGITIS<br>(013) |      |             |      |
|---------------------|--|-------|-------------|------|---------------------------|------|-------------|------|
|                     | C A S E S  |       | D E A T H S |      | C A S E S                 |      | D E A T H S |      |
|                     | NUMBER   | RATE  | NUMBER      | RATE | NUMBER                    | RATE | NUMBER      | RATE |
| DAPITAN CITY.....   | 38   | 61.7  | 24          | 38.9 | 4                         | 6.5  | 0           | -    |
| DIPOLOG CITY.....   | 90   | 110.4 | 44          | 54.0 | 2                         | 2.5  | 0           | -    |
| PAGADIAN CITY.....  | 153  | 141.3 | 53          | 48.9 | 2                         | 1.8  | 1           | 0.9  |
| ZAMBOANGA CITY..... | 699  | 154.7 | 158         | 35.2 | 4                         | 0.9  | 1           | 0.2  |
| REGION 10           | 8995   | 250.6 | 1045        | 29.1 | 285                       | 7.9  | 9           | 0.3  |
| AGUSAN DEL NORTE..  | 825  | 339.1 | 63          | 25.9 | 4                         | 1.6  | 0           | -    |
| AGUSAN DEL SUR....  | 97   | 22.5  | 51          | 11.9 | 1                         | 0.2  | 0           | -    |
| BUKIDNON.....       | 2571   | 297.9 | 143         | 16.6 | 29                        | 3.4  | 0           | -    |
| CAMIGUIN.....       | 504  | 766.5 | 16          | 24.3 | 6                         | 9.1  | 1           | 1.5  |
| MISAMIS OCC.....    | 292  | 120.1 | 89          | 56.6 | 4                         | 1.6  | 0           | -    |
| MISAMIS OR.....     | 563  | 146.4 | 127         | 28.0 | 4                         | 0.9  | 0           | -    |
| SURIGAO DEL NORTE.  | 725  | 217.6 | 132         | 39.6 | 70                        | 21.0 | 0           | -    |
| BUTUAN CITY.....    | 220  | 84.4  | 61          | 26.2 | 28                        | 12.0 | 1           | 0.4  |
| CAGAYAN DE ORO....  | 1722   | 497.3 | 126         | 36.4 | 127                       | 36.7 | 2           | 0.6  |
| GINGOOG CITY.....   | 425  | 502.3 | 45          | 53.2 | 2                         | 2.4  | 1           | 1.2  |
| OROQUIETA CITY....  | 151  | 281.6 | 50          | 93.3 | 3                         | 5.6  | 1           | 1.9  |
| OZAMIS CITY.....    | 594  | 636.3 | 59          | 63.3 | 1                         | 1.1  | 1           | 1.1  |
| SURIGAO CITY.....   | 132  | 128.7 | 66          | 64.4 | 4                         | 3.9  | 1           | 1.0  |
| TANGUB CITY.....    | 74   | 168.4 | 17          | 38.7 | 2                         | 4.6  | 1           | 2.3  |
| REGION 11           | 7844   | 172.1 | 1156        | 26.4 | 292                       | 6.4  | 21          | 0.5  |
| COTABATO SOUTH....  | 1390   | 165.1 | 185         | 22.0 | 46                        | 5.5  | 5           | 0.6  |
| DAVAO DEL NORTE.... | 691  | 171.0 | 253         | 63.9 | 17                        | 4.2  | 6           | 1.5  |
| DAVAO ORIENTAL....  | 160  | 14.8  | 51          | 4.7  | 4                         | 0.4  | 1           | 0.1  |
| DAVAO DEL SUR.....  | 769  | 118.7 | 132         | 20.4 | 11                        | 1.7  | 4           | 0.6  |
| SURIGAO DEL SUR.... | 1940   | 419.6 | 140         | 30.3 | 29                        | 6.3  | 1           | 0.2  |
| DAVAO CITY.....     | 2680   | 309.0 | 283         | 32.6 | 177                       | 20.4 | 4           | 0.5  |
| GEN. SANTOS CITY..  | 214  | 83.7  | 107         | 41.9 | 8                         | 3.1  | 0           | -    |
| REGION 12           | 7880   | 242.8 | 606         | 18.7 | 192                       | 5.9  | 7           | 0.2  |
| COTABATO NORTH....  | 2262   | 289.3 | 75          | 9.6  | 9                         | 1.2  | 0           | -    |
| LANAO DEL NORTE.... | 868  | 218.7 | 95          | 23.9 | 46                        | 11.6 | 1           | 0.3  |
| LANAO DEL SUR.....  | 1059   | 203.6 | 25          | 4.8  | 5                         | 1.0  | 1           | 0.2  |
| MAGUINDANAO.....    | 687  | 106.5 | 56          | 8.7  | 93                        | 14.4 | 0           | -    |
| SULTAN KUDARAT....  | 2392   | 536.1 | 123         | 27.6 | 6                         | 1.3  | 0           | -    |
| COTABATO CITY.....  | 332  | 255.0 | 98          | 75.3 | 28                        | 21.5 | 4           | 3.1  |
| ILIGAN CITY.....    | 193  | 93.4  | 128         | 55.3 | 5                         | 2.2  | 1           | 0.4  |
| MARAWI CITY.....    | 87   | 93.1  | 5           | 6.4  | 0                         | -    | 0           | -    |

TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| A R E A            | LEPROSY<br>(030) |       |             |      | DIPHTHERIA<br>(032) |      |             |      |
|--------------------|------------------|-------|-------------|------|---------------------|------|-------------|------|
|                    | C A S E S        |       | D E A T H S |      | C A S E S           |      | D E A T H S |      |
|                    | NUMBER           | RATE  | NUMBER      | RATE | NUMBER              | RATE | NUMBER      | RATE |
| PHILIPPINES.....   | 2827             | 4.6   | 65          | 0.1  | 921                 | 1.5  | 115         | 0.2  |
| NAT. CAP. REGION.. | 43               | 0.5   | 7           | 0.1  | 304                 | 3.8  | 24          | 0.3  |
| 1ST DIST. MANILA.. | 4                | 0.2   | 0           | -    | 210                 | 8.6  | 18          | 0.7  |
| 2ND DIST. MUN..... | 3                | 0.3   | 0           | -    | 18                  | 1.7  | 2           | 0.2  |
| QUEZON CITY.....   | 1                | 0.1   | 1           | 0.1  | 44                  | 2.6  | 3           | 0.2  |
| 3RD DIST. MUN..... | 0                | -     | 0           | -    | 12                  | 1.4  | 0           | -    |
| CALOOCAN CITY....  | 10               | 1.3   | 6           | 0.8  | 19                  | 2.4  | 1           | 0.1  |
| 4TH DIST. MUN..... | 0                | -     | 0           | -    | 0                   | -    | 0           | -    |
| PASAY CITY.....    | 25               | 6.7   | 0           | -    | 1                   | 0.3  | 0           | -    |
| C.A.R.             | 45               | 3.8   | 0           | -    | 0                   | -    | 0           | -    |
| ABRA.....          | 1                | 0.5   | 0           | -    | 0                   | -    | 0           | -    |
| BENGUET.....       | 0                | -     | 0           | -    | 0                   | -    | 0           | -    |
| IFUGAO.....        | 0                | -     | 0           | -    | 0                   | -    | 0           | -    |
| KALINGA-APAYAO.... | 0                | -     | 0           | -    | 0                   | -    | 0           | -    |
| MT. PROVINCE.....  | 32               | 26.9  | 0           | -    | 0                   | -    | 0           | -    |
| BAGUIO CITY.....   | 12               | 6.5   | 0           | -    | 0                   | -    | 0           | -    |
| REGION 1           | 199              | 5.5   | 8           | 0.2  | 27                  | 0.7  | 12          | 0.3  |
| ILOCOS NORTE.....  | 23               | 6.0   | 1           | 0.3  | 4                   | 1.0  | 2           | 0.5  |
| ILOCOS SUR.....    | 23               | 4.3   | 2           | 0.4  | 9                   | 1.7  | 1           | 0.2  |
| LA UNION.....      | 8                | 1.4   | 5           | 0.9  | 1                   | 0.2  | 2           | 0.4  |
| PANGASINAN.....    | 134              | 7.4   | 0           | -    | 4                   | 0.2  | 4           | 0.2  |
| DAGUPAN CITY.....  | 0                | -     | 0           | -    | 4                   | 3.2  | 1           | 0.8  |
| LAOAG CITY.....    | 0                | -     | 0           | -    | 0                   | -    | 1           | 1.2  |
| SAN CARLOS CITY... | 11               | 8.6   | 0           | -    | 5                   | 3.9  | 1           | 0.8  |
| REGION 2           | 407              | 17.0  | 6           | 0.3  | 21                  | 0.9  | 9           | 0.4  |
| BATANES.....       | 33               | 215.1 | 0           | -    | 0                   | -    | 0           | -    |
| CAGAYAN.....       | 258              | 30.4  | 1           | 0.1  | 10                  | 1.2  | 3           | 0.4  |
| ISABELA.....       | 20               | 1.8   | 4           | 0.4  | 10                  | 0.9  | 5           | 0.5  |
| NEUVA VIZCAYA..... | 96               | 31.2  | 1           | 0.3  | 0                   | -    | 0           | -    |
| QUIRINO.....       | 0                | -     | 0           | -    | 1                   | 0.9  | 1           | 0.9  |
| REGION 3           | 142              | 2.2   | 8           | 0.1  | 74                  | 1.2  | 7           | 0.1  |
| BATAAN.....        | 14               | 3.2   | 0           | -    | 16                  | 3.7  | 0           | -    |
| BULACAN.....       | 10               | 0.6   | 1           | 0.1  | 8                   | 0.5  | 1           | 0.1  |
| NUEVA ECIJA.....   | 57               | 5.5   | 3           | 0.3  | 33                  | 3.2  | 0           | -    |
| PAMPANGA.....      | 12               | 0.9   | 1           | 0.1  | 11                  | 0.8  | 2           | 0.2  |
| TARLAC.....        | 16               | 1.8   | 3           | 0.3  | 3                   | 0.3  | 1           | 0.1  |
| ZAMBALES.....      | 29               | 7.7   | 0           | -    | 0                   | -    | 0           | -    |

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TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| A R E A              | LEPROSY<br>(030) |      |             |      | DIPHTHERIA<br>(032) |      |             |      |
|----------------------|------------------|------|-------------|------|---------------------|------|-------------|------|
|                      | C A S E S        |      | D E A T H S |      | C A S E S           |      | D E A T H S |      |
|                      | NUMBER           | RATE | NUMBER      | RATE | NUMBER              | RATE | NUMBER      | RATE |
| ANGELES CITY.....    | 2                | 0.8  | 0           | -    | 0                   | -    | 0           | -    |
| CARANATUAN CITY....  | 0                | -    | 0           | -    | 0                   | -    | 0           | -    |
| OLONGAPO CITY.....   | 1                | 0.5  | 0           | -    | 3                   | 1.5  | 3           | 1.5  |
| PALAYAN CITY.....    | 1                | 4.6  | 0           | -    | 0                   | -    | 0           | -    |
| SAN JOSE CITY.....   | 0                | -    | 0           | -    | 0                   | -    | 0           | -    |
| REGION 4             | 291              | 3.4  | 5           | 0.1  | 77                  | 0.9  | 8           | 0.1  |
| AURORA.....          | 7                | -    | 0           | -    | 0                   | -    | 0           | -    |
| BATANGAS.....        | 33               | 2.8  | 0           | -    | 0                   | -    | 0           | -    |
| CAVITE.....          | 0                | -    | 0           | -    | 3                   | 0.3  | 0           | -    |
| LAGUNA.....          | 6                | 0.5  | 2           | 0.2  | 4                   | 0.3  | 0           | -    |
| MARINDUQUE.....      | 10               | 5.3  | 0           | -    | 0                   | -    | 0           | -    |
| MINDORO OCC.....     | 0                | -    | 0           | -    | 21                  | 7.3  | 0           | -    |
| MINDORO OR.....      | 82               | 14.6 | 0           | -    | 20                  | 3.6  | 2           | 0.4  |
| PALAWAN.....         | 28               | 6.3  | 2           | 0.4  | 0                   | -    | 0           | -    |
| QUEZON.....          | 62               | 5.0  | 0           | -    | 8                   | 0.6  | 3           | 0.2  |
| RIZAL.....           | 8                | 0.8  | 0           | -    | 5                   | 0.5  | 1           | 0.1  |
| ROMBLON.....         | 3                | 1.3  | 0           | -    | 0                   | -    | 0           | -    |
| BATANGAS CITY.....   | 0                | -    | 0           | -    | 4                   | 2.1  | 0           | -    |
| CAVITE CITY.....     | 0                | -    | 0           | -    | 0                   | -    | 0           | -    |
| LIPA CITY.....       | 0                | -    | 0           | -    | 0                   | -    | 0           | -    |
| LUCENA CITY.....     | 15               | 9.8  | 0           | -    | 10                  | 6.5  | 2           | 1.3  |
| PUERTO PRINCESA..... | 28               | 30.4 | 0           | -    | 0                   | -    | 0           | -    |
| SAN PABLO CITY.....  | 9                | 5.4  | 1           | 0.6  | 0                   | -    | 0           | -    |
| TAGAYTAY CITY.....   | 0                | -    | 0           | -    | 0                   | -    | 0           | -    |
| TRECE MARTIRES.....  | 0                | -    | 0           | -    | 2                   | 12.4 | 0           | -    |
| REGION 5             | 42               | 1.0  | 3           | 0.1  | 37                  | 0.9  | 11          | 0.3  |
| ALBAY.....           | 4                | 0.5  | 1           | 0.1  | 8                   | 1.0  | 2           | 0.2  |
| CAMARINES NORTE..... | 2                | 0.5  | 1           | 0.2  | 3                   | 0.7  | 2           | 0.5  |
| CAMARINES SUR.....   | 28               | 2.5  | 0           | -    | 9                   | 0.8  | 1           | 0.1  |
| CATANDUANES.....     | 0                | -    | 0           | -    | 0                   | -    | 0           | -    |
| MASBATE.....         | 5                | 0.8  | 0           | -    | 2                   | 0.3  | 1           | 0.2  |
| SORSOGON.....        | 0                | -    | 0           | -    | 4                   | 0.7  | 1           | 0.2  |
| IRIGA CITY.....      | 0                | -    | 0           | -    | 1                   | 1.2  | 1           | 1.2  |
| LEGASPI CITY.....    | 0                | -    | 0           | -    | 0                   | -    | 0           | -    |
| NAGA CITY.....       | 3                | 2.2  | 1           | 0.7  | 10                  | 7.2  | 3           | 2.2  |
| REGION 6             | 72               | 1.3  | 7           | 0.1  | 53                  | 1.0  | 12          | 0.2  |
| AKLAN.....           | 9                | 2.3  | 0           | -    | 8                   | 2.1  | 2           | 0.5  |
| ANTIQUE.....         | 9                | 2.2  | 2           | 0.5  | 0                   | -    | 0           | -    |
| CAPIZ.....           | 2                | 0.4  | 1           | 0.2  | 1                   | 0.2  | 0           | -    |
| ILOILO.....          | 21               | 1.4  | 3           | 0.2  | 15                  | 1.0  | 0           | -    |
| NEGROS OCC.....      | 4                | 0.3  | 0           | -    | 10                  | 0.7  | 1           | 0.1  |

TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
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| AREA                 | LEPROSY<br>(030) |       |        |      | DIPHTHERIA<br>(032) |      |        |      |
|----------------------|------------------|-------|--------|------|---------------------|------|--------|------|
|                      | CASES            |       | DEATHS |      | CASES               |      | DEATHS |      |
|                      | NUMBER           | RATE  | NUMBER | RATE | NUMBER              | RATE | NUMBER | RATE |
| BACOLOD CITY.....    | 10               | 2.7   | 1      | 0.3  | 12                  | 3.2  | 6      | 1.6  |
| BAGO CITY.....       | 0                | -     | 0      | -    | 0                   | -    | 0      | -    |
| CADIZ CITY.....      | 12               | 9.8   | 0      | -    | 0                   | -    | 0      | -    |
| ILOILO CITY.....     | 0                | -     | 0      | -    | 6                   | 1.9  | 3      | 0.9  |
| LA CARLOTA CITY..... | 0                | -     | 0      | -    | 0                   | -    | 0      | -    |
| ROXAS CITY.....      | 4                | 3.0   | 0      | -    | 1                   | 0.8  | 0      | -    |
| SAN CARLOS CITY..... | 4                | 3.7   | 0      | -    | 0                   | -    | 0      | -    |
| SILAY CITY.....      | 1                | 1.0   | 0      | -    | 0                   | -    | 0      | -    |
| REGION 7             | 579              | 12.3  | 6      | 0.1  | 19                  | 0.4  | 10     | 0.2  |
| BOHOL.....           | 12               | 1.3   | 1      | 0.1  | 0                   | -    | 0      | -    |
| CEBU.....            | 17               | 1.1   | 1      | 0.1  | 3                   | 0.2  | 1      | 0.1  |
| NEGROS OR.           | 40               | 5.2   | 1      | 0.1  | 1                   | 0.1  | 1      | 0.1  |
| SIGUIJOR.....        | 4                | 5.3   | 3      | 4.0  | 0                   | -    | 0      | -    |
| BAIS CITY.....       | 1                | 1.6   | 0      | -    | 0                   | -    | 0      | -    |
| CANLON CITY.....     | 233              | 612.1 | 0      | -    | 0                   | -    | 0      | -    |
| CEBU CITY.....       | 195              | 31.5  | 0      | -    | 4                   | 0.6  | 2      | 0.3  |
| DANAO CITY.....      | 1                | 1.3   | 0      | -    | 0                   | -    | 0      | -    |
| DUMAGUETE CITY.....  | 36               | 44.3  | 0      | -    | 2                   | 2.5  | 1      | 1.2  |
| LAPU-LAPU CITY.....  | 24               | 16.1  | 0      | -    | 5                   | 3.4  | 2      | 1.3  |
| MANDAWE CITY.....    | 3                | 1.6   | 0      | -    | 4                   | 2.2  | 3      | 1.6  |
| TAGBILARAN CITY..... | 1                | 1.8   | 0      | -    | 0                   | -    | 0      | -    |
| TOLEDO CITY.....     | 12               | 9.8   | 0      | -    | 0                   | -    | 0      | -    |
| REGION 8             | 289              | 9.3   | 3      | 0.1  | 51                  | 1.6  | 2      | 0.1  |
| LEYTE DEL NORTE...   | 29               | 2.3   | 1      | 0.1  | 0                   | -    | 0      | -    |
| LEYTE DEL SUR.....   | 4                | 1.2   | 0      | -    | 17                  | 5.2  | 0      | -    |
| EASTERN SAMAR.....   | 61               | 18.1  | 0      | -    | 2                   | 0.6  | 0      | -    |
| NORTHERN SAMAR.....  | 189              | 48.1  | 1      | 0.3  | 0                   | -    | 0      | -    |
| WESTERN SAMAR.....   | 4                | 0.9   | 0      | -    | 0                   | -    | 0      | -    |
| CALBAYOG CITY.....   | 0                | -     | 0      | -    | 2                   | 1.7  | 1      | 0.8  |
| ORMOC CITY.....      | 0                | -     | 0      | -    | 27                  | 20.4 | 0      | -    |
| TACLOBAN CITY.....   | 2                | 1.4   | 1      | 0.7  | 3                   | 2.1  | 1      | 0.7  |
| REGION 9             | 102              | 3.2   | 5      | 0.2  | 25                  | 0.8  | 2      | 0.1  |
| BASILAN.....         | 11               | 4.5   | 0      | -    | 20                  | 8.2  | 1      | 0.4  |
| SULU.....            | 19               | 4.0   | 0      | -    | 0                   | -    | 0      | -    |
| TAWI-TAWI.....       | 0                | -     | 0      | -    | 0                   | -    | 0      | -    |
| ZAMB. DEL NORTE..... | 3                | 0.5   | 0      | -    | 0                   | -    | 0      | -    |
| ZAMB. DEL SUR.....   | 21               | 2.1   | 0      | -    | 0                   | -    | 0      | -    |

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TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| A R E A           | LEPROSY<br>(030) |      |             |      | DIPHTHERIA<br>(032) |      |             |      |
|-------------------|------------------|------|-------------|------|---------------------|------|-------------|------|
|                   | C A S E S        |      | D E A T H S |      | C A S E S           |      | D E A T H S |      |
|                   | NUMBER           | RATE | NUMBER      | RATE | NUMBER              | RATE | NUMBER      | RATE |
| DAPITAN CITY      | 0                | -    | 0           | -    | 4                   | 6.5  | 1           | 1.6  |
| DIPOLOG CITY      | 0                | -    | 0           | -    | 1                   | 1.2  | 0           | -    |
| PAGADIAN CITY     | 43               | 39.7 | 0           | -    | 0                   | -    | 0           | -    |
| ZAMBOANGA CITY    | 10               | 2.2  | 5           | 1.1  | 0                   | -    | 0           | -    |
| REGION 10         | 89               | 2.5  | 5           | 0.1  | 33                  | 0.9  | 2           | 0.1  |
| AGUSAN DEL NORTE  | 15               | 6.2  | 1           | 0.4  | 0                   | -    | 0           | -    |
| AGUSAN DEL SUR    | 2                | 0.5  | 0           | -    | 0                   | -    | 0           | -    |
| BUKIDNON          | 10               | 1.2  | 0           | -    | 3                   | 0.3  | 0           | -    |
| CAMIGUIN          | 5                | 7.6  | 1           | -    | 0                   | -    | 0           | -    |
| MISAMIS OCC.      | 0                | -    | 0           | -    | 1                   | 0.4  | 0           | -    |
| MISAMIS OR.       | 5                | 1.1  | 1           | 0.2  | 0                   | -    | 0           | -    |
| SURIGAO DEL NORTE | 15               | 4.5  | 2           | 0.6  | 10                  | 3.0  | 0           | -    |
| BUTUAN CITY       | 3                | 1.3  | 0           | -    | 7                   | 3.0  | 1           | 0.4  |
| CAGAYAN DE ORO    | 0                | -    | 0           | -    | 12                  | 3.5  | 1           | 0.3  |
| GINGOOG CITY      | 28               | 33.1 | 0           | -    | 0                   | -    | 0           | -    |
| OROQUIETA CITY    | 0                | -    | 0           | -    | 0                   | -    | 0           | -    |
| OZAMIS CITY       | 1                | 1.1  | 0           | -    | 0                   | -    | 0           | -    |
| SURIGAO CITY      | 0                | -    | 0           | -    | 0                   | -    | 0           | -    |
| TANGUB CITY       | 5                | 11.4 | 0           | -    | 0                   | -    | 0           | -    |
| REGION 11         | 288              | 6.3  | 2           | 0.04 | 105                 | 2.3  | 10          | 0.2  |
| COTABATO SOUTH    | 68               | 8.1  | 0           | -    | 10                  | 1.2  | 2           | 0.2  |
| DAVAO DEL NORTE   | 136              | 33.7 | 1           | 0.2  | 3                   | 0.7  | 1           | 0.2  |
| DAVAO ORIENTAL    | 0                | -    | 0           | -    | 8                   | 0.7  | 0           | -    |
| DAVAO DEL SUR     | 11               | 1.7  | 0           | -    | 1                   | 0.2  | 1           | 0.2  |
| SURIGAO DEL SUR   | 17               | 3.7  | 0           | -    | 16                  | 3.5  | 0           | -    |
| DAVAO CITY        | 4                | 0.5  | 0           | -    | 58                  | 6.7  | 4           | 0.5  |
| GEN. SANTOS CITY  | 52               | 20.3 | 1           | 0.4  | 9                   | 3.5  | 2           | 0.8  |
| REGION 12         | 230              | 7.1  | 0           | -    | 95                  | 2.9  | 6           | 0.2  |
| COTABATO NORTH    | 119              | 15.2 | 0           | -    | 0                   | -    | 0           | -    |
| LANAO DEL NORTE   | 4                | 1.0  | 0           | -    | 7                   | 1.8  | 0           | -    |
| LANAO DEL SUR     | 0                | -    | 0           | -    | 0                   | -    | 0           | -    |
| MAGUINDANAO       | 0                | -    | 0           | -    | 0                   | -    | 0           | -    |
| SULTAN KUDARAT    | 106              | 23.8 | 0           | -    | 69                  | 10.7 | 0           | -    |
| COTABATO CITY     | 0                | -    | 0           | -    | 8                   | 1.8  | 2           | 0.4  |
| ILIGAN CITY       | 0                | -    | 0           | -    | 8                   | 6.1  | 4           | 3.1  |
| MARAWI CITY       | 1                | 1.1  | 0           | -    | 1                   | 0.4  | 0           | -    |
|                   |                  |      |             |      | 2                   | 2.1  | 0           | -    |

TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| A R E A             | WHOOPIING COUGH<br>(033) |      |             |      | TETANUS<br>(037) |      |             |      |
|---------------------|--------------------------|------|-------------|------|------------------|------|-------------|------|
|                     | C A S E S                |      | D E A T H S |      | C A S E S        |      | D E A T H S |      |
|                     | NUMBER                   | RATE | NUMBER      | RATE | NUMBER           | RATE | NUMBER      | RATE |
| PHILIPPINES.....    | 4135                     | 6.7  | 9           | 0.01 | 2286             | 3.7  | 989         | 1.6  |
| NAT. CAP. REGION..  | 268                      | 3.3  | 0           | -    | 355              | 4.4  | 119         | 1.5  |
| 1ST DIST. MANILA..  | 165                      | 6.7  | 0           | -    | 215              | 8.8  | 96          | 3.9  |
| 2ND DIST. MUN.....  | 29                       | 2.8  | 0           | -    | 21               | 2.0  | 3           | 0.3  |
| QUEZON CITY.....    | 18                       | 1.1  | 0           | -    | 64               | 3.8  | 4           | 0.2  |
| 3RD DIST. MUN.....  | 55                       | 6.5  | 0           | -    | 28               | 3.3  | 7           | 0.8  |
| CALOOCAN CITY....   | 0                        | -    | 0           | -    | 13               | 1.7  | 4           | 0.5  |
| 4TH DIST. MUN.....  | 1                        | 0.1  | 0           | -    | 10               | 1.1  | 4           | 0.4  |
| PASAY CITY.....     | 0                        | -    | 0           | -    | 4                | 1.1  | 1           | 0.3  |
| C.A.R.              | 34                       | 2.9  | 0           | -    | 28               | 2.4  | 5           | 0.4  |
| ABRA.....           | 0                        | -    | 0           | -    | 1                | 0.5  | 0           | -    |
| BENGUET.....        | 0                        | -    | 0           | -    | 1                | 0.3  | 0           | -    |
| IFUGAO.....         | 0                        | -    | 0           | -    | 9                | 6.0  | 0           | -    |
| KALINGA-APAYAO....  | 20                       | 9.2  | 0           | -    | 11               | 5.1  | 2           | 0.9  |
| MT. PROVINCE.....   | 14                       | 11.8 | 0           | -    | 0                | -    | 0           | -    |
| BAGUIO CITY.....    | 0                        | -    | 0           | -    | 6                | 3.3  | 3           | 1.6  |
| REGION 1            | 66                       | 1.8  | 0           | -    | 96               | 2.6  | 62          | 1.7  |
| ILOCOS NORTE.....   | 0                        | -    | 0           | -    | 9                | 2.3  | 9           | 2.3  |
| ILOCOS SUR.....     | 41                       | 7.7  | 0           | -    | 26               | 4.9  | 13          | 2.4  |
| LA UNION.....       | 3                        | 0.5  | 0           | -    | 14               | 2.5  | 4           | 0.7  |
| PANGASINAN.....     | 17                       | 0.9  | 0           | -    | 10               | 0.6  | 19          | 1.0  |
| DAGUPAN CITY.....   | 0                        | -    | 0           | -    | 25               | 20.0 | 15          | 12.0 |
| LAOAG CITY.....     | 0                        | -    | 0           | -    | 0                | -    | 0           | -    |
| SAN CARLOS CITY.... | 5                        | 3.9  | 0           | -    | 12               | 9.4  | 2           | 1.6  |
| REGION 2            | 63                       | 2.6  | 2           | 0.1  | 140              | 5.8  | 70          | 2.9  |
| BATANES.....        | 0                        | -    | 0           | -    | 0                | -    | 0           | -    |
| CAGAYAN.....        | 55                       | 6.5  | 2           | 0.2  | 80               | 9.4  | 31          | 3.7  |
| ISABELA.....        | 4                        | 0.4  | 0           | -    | 36               | 3.3  | 26          | 2.4  |
| NEIVA VIZCAYA.....  | 2                        | 0.6  | 0           | -    | 6                | 1.9  | 5           | 1.6  |
| QUIRINO.....        | 2                        | 1.7  | 0           | -    | 18               | 15.4 | 8           | 6.8  |
| REGION 3            | 81                       | 1.3  | 0           | -    | 121              | 1.9  | 47          | 0.7  |
| BATAAN.....         | 0                        | -    | 0           | -    | 6                | 1.4  | 1           | 0.2  |
| BULACAN.....        | 0                        | -    | 0           | -    | 12               | 0.8  | 8           | 0.5  |
| NUEVA ECIJA.....    | 0                        | -    | 0           | -    | 18               | 1.7  | 3           | 0.8  |
| PAMPANGA.....       | 10                       | 0.8  | 0           | -    | 23               | 1.7  | 8           | 0.6  |
| TARLAC.....         | 0                        | -    | 0           | -    | 24               | 2.7  | 9           | 1.0  |
| ZAMBALES.....       | 0                        | -    | 0           | -    | 9                | 2.4  | 1           | 0.3  |

TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| A R E A                | WHOOPING COUGH<br>(033) |       |             |      | TETANUS<br>(037) |      |             |      |
|------------------------|-------------------------|-------|-------------|------|------------------|------|-------------|------|
|                        | C A S E S               |       | D E A T H S |      | C A S E S        |      | D E A T H S |      |
|                        | NUMBER                  | RATE  | NUMBER      | RATE | NUMBER           | RATE | NUMBER      | RATE |
| ANGELES CITY.....      | 71                      | 29.4  | 0           | -    | 8                | 3.3  | 2           | 0.8  |
| CABANATUAN CITY.....   | 0                       | -     | 0           | -    | 16               | 8.3  | 7           | 3.7  |
| OLONGAPO CITY.....     | 0                       | -     | 0           | -    | 5                | 2.5  | 3           | 1.5  |
| PALAYAN CITY.....      | 0                       | -     | 0           | -    | 0                | -    | 0           | -    |
| SAN JOSE CITY.....     | 0                       | -     | 0           | -    | 0                | -    | 0           | -    |
| REGION 4               | 2018                    | 23.9  | 0           | -    | 185              | 2.2  | 88          | 1.0  |
| AURORA.....            | 51                      | -     | 0           | -    | 2                | 1.4  | 1           | 0.7  |
| BATANGAS.....          | 36                      | 3.1   | 0           | -    | 13               | 1.1  | 4           | 0.3  |
| CAVITE.....            | 15                      | 1.4   | 0           | -    | 11               | 1.1  | 5           | 0.5  |
| LAGUNA.....            | 0                       | -     | 0           | -    | 34               | 2.7  | 10          | 0.8  |
| MARINDUQUE.....        | 4                       | 2.1   | 0           | -    | 4                | 2.1  | 2           | 1.1  |
| MINDORO OCC.....       | 81                      | 28.1  | 0           | -    | 11               | 3.8  | 4           | 1.4  |
| MINDORO OR.....        | 17                      | 3.0   | 0           | -    | 10               | 1.8  | 1           | 0.2  |
| PALAWAN.....           | 226                     | 50.7  | 0           | -    | 15               | 3.4  | 8           | 1.8  |
| QUEZON.....            | 197                     | 15.8  | 0           | -    | 29               | 2.3  | 26          | 2.1  |
| RIZAL.....             | 178                     | 17.8  | 0           | -    | 11               | 1.1  | 6           | 0.8  |
| ROMELON.....           | 2                       | 0.9   | 0           | -    | 3                | 1.3  | 3           | 1.3  |
| BATANGAS CITY.....     | 978                     | 516.0 | 0           | -    | 8                | 4.2  | 4           | 2.1  |
| CAVITE CITY.....       | 0                       | -     | 0           | -    | 1                | 1.1  | 0           | -    |
| LIPA CITY.....         | 0                       | -     | 0           | -    | 2                | 1.2  | 1           | 0.6  |
| LUCENA CITY.....       | 6                       | 3.9   | 0           | -    | 19               | 12.4 | 7           | 4.6  |
| PUERTO PRINCESA.....   | 226                     | 245.6 | 0           | -    | 5                | 5.4  | 2           | 2.2  |
| SAN PABLO CITY.....    | 1                       | 0.6   | 0           | -    | 3                | 1.8  | 2           | 1.2  |
| TAGAYTAY CITY.....     | 0                       | -     | 0           | -    | 0                | -    | 0           | -    |
| TRINIDAD MARTIRES..... | 0                       | -     | 0           | -    | 4                | 24.9 | 2           | 12.4 |
| REGION 5               | 505                     | 12.6  | 3           | 0.1  | 178              | 4.4  | 90          | 2.2  |
| ALBAY.....             | 4                       | 0.5   | 1           | 0.1  | 29               | 3.6  | 15          | 1.9  |
| CAMARINES NORTE.....   | 1                       | 0.2   | 0           | -    | 40               | 10.0 | 15          | 3.7  |
| CAMARINES SUR.....     | 367                     | 32.9  | 2           | 0.2  | 33               | 3.0  | 22          | 2.0  |
| CATANDUANES.....       | 0                       | -     | 0           | -    | 8                | 4.2  | 2           | 1.0  |
| MASARATE.....          | 95                      | 15.5  | 0           | -    | 25               | 4.1  | 13          | 2.1  |
| SORSOGON.....          | 38                      | 7.1   | 0           | -    | 16               | 3.0  | 8           | 1.7  |
| IRIGA CITY.....        | 0                       | -     | 0           | -    | 3                | 3.6  | 1           | 1.2  |
| LEGASPI CITY.....      | 0                       | -     | 0           | -    | 10               | 8.1  | 5           | 4.0  |
| NAGA CITY.....         | 0                       | -     | 0           | -    | 14               | 10.1 | 8           | 5.8  |
| REGION 6               | 88                      | 1.6   | 3           | 0.1  | 213              | 3.9  | 114         | 2.1  |
| AKLAN.....             | 26                      | 6.7   | 0           | -    | 19               | 4.9  | 8           | 2.1  |
| ANTIPOLO.....          | 8                       | 1.9   | 1           | 0.2  | 16               | 3.8  | 6           | 1.4  |
| CAPIZ.....             | 0                       | -     | 0           | -    | 6                | 1.3  | 3           | 0.6  |
| ILOILO.....            | 2                       | 0.1   | 1           | 0.1  | 36               | 2.4  | 28          | 1.9  |
| NEGIROS OCC.....       | 0                       | -     | 0           | -    | 51               | 3.6  | 19          | 1.3  |

TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1980

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| A R E A              | WHOOPIING COUGH<br>(033) |      |             |      | TETANUS<br>(037) |      |             |      |
|----------------------|--------------------------|------|-------------|------|------------------|------|-------------|------|
|                      | C A S E S                |      | D E A T H S |      | C A S E S        |      | D E A T H S |      |
|                      | NUMBER                   | RATE | NUMBER      | RATE | NUMBER           | RATE | NUMBER      | RATE |
| BACOLOD CITY.....    | 13                       | 3.5  | 1           | 0.3  | 31               | 8.3  | 21          | 5.6  |
| BAGO CITY.....       | 0                        | -    | 0           | -    | 3                | 2.4  | 1           | 0.8  |
| CADIZ CITY.....      | 0                        | -    | 0           | -    | 2                | 1.6  | 1           | 0.8  |
| ILOILO CITY.....     | 11                       | 3.5  | 0           | -    | 26               | 8.2  | 16          | 5.0  |
| LA CARLOTA CITY..... | 24                       | 41.5 | 0           | -    | 0                | -    | 0           | -    |
| ROXAS CITY.....      | 4                        | 3.0  | 0           | -    | 14               | 10.6 | 7           | 5.3  |
| SAN CARLOS CITY..... | 0                        | -    | 0           | -    | 5                | 4.6  | 3           | 2.8  |
| SILAY CITY.....      | 0                        | -    | 0           | -    | 4                | 3.9  | 1           | 1.0  |
| REGION 7             | 141                      | 3.0  | 0           | -    | 142              | 3.0  | 68          | 1.4  |
| BOHOL.....           | 10                       | 1.1  | 0           | -    | 23               | 2.5  | 8           | 0.9  |
| CEBU.....            | 46                       | 3.0  | 0           | -    | 24               | 1.5  | 15          | 1.0  |
| NEGROS OR.           | 50                       | 6.5  | 0           | -    | 13               | 1.7  | 4           | 0.5  |
| SIGUIJOR.....        | 3                        | 4.0  | 0           | -    | 4                | 5.3  | 1           | 1.3  |
| BAIS CITY.....       | 8                        | 14.7 | 0           | -    | 4                | 6.6  | 2           | 3.3  |
| CANLON CITY.....     | 7                        | 18.4 | 0           | -    | 0                | -    | 0           | 0.0  |
| CEBU CITY.....       | 8                        | 1.3  | 0           | -    | 53               | 8.6  | 28          | 4.5  |
| DANAO CITY.....      | 3                        | 4.0  | 0           | -    | 0                | -    | 0           | 0.0  |
| DUMAGUETE CITY.....  | 2                        | 2.5  | 0           | -    | 10               | 12.3 | 5           | 6.2  |
| LAPU-LAPU CITY.....  | 0                        | -    | 0           | -    | 2                | 1.3  | 1           | 0.7  |
| MANDAWE CITY.....    | 0                        | -    | 0           | -    | 0                | -    | 0           | -    |
| TAGBILARAN CITY..... | 0                        | -    | 0           | -    | 4                | 7.0  | 3           | 5.3  |
| TOLEDO CITY.....     | 3                        | 2.4  | 0           | -    | 5                | 4.1  | 1           | 0.8  |
| REGION 8             | 393                      | 12.6 | 0           | -    | 91               | 2.9  | 44          | 1.4  |
| LEYTE DEL NORTE....  | 101                      | 8.1  | 0           | -    | 34               | 2.7  | 15          | 1.2  |
| LEYTE DEL SUR.....   | 0                        | -    | 0           | -    | 5                | 1.5  | 4           | 1.2  |
| EASTERN SAMAR.....   | 56                       | 16.6 | 0           | -    | 2                | 0.6  | 1           | 0.3  |
| NORTHERN SAMAR.....  | 138                      | 35.1 | 0           | -    | 5                | 1.3  | 4           | 1.0  |
| WESTERN SAMAR.....   | 77                       | 18.0 | 0           | -    | 10               | 2.3  | 5           | 1.2  |
| CALBAYOG CITY.....   | 18                       | 15.3 | 0           | -    | 7                | 5.9  | 3           | 2.5  |
| ORMOC CITY.....      | 3                        | 2.3  | 0           | -    | 20               | 15.1 | 8           | 6.0  |
| TACLOBAN CITY.....   | 0                        | -    | 0           | -    | 8                | 5.7  | 4           | 2.8  |
| REGION 9             | 122                      | 3.8  | 0           | -    | 136              | 4.2  | 80          | 2.5  |
| BASILAN.....         | 0                        | -    | 0           | -    | 5                | 2.1  | 5           | 2.1  |
| SULU.....            | 4                        | 0.8  | 0           | -    | 0                | -    | 9           | 1.9  |
| TAWI-TAWI.....       | 1                        | 0.4  | 0           | -    | 2                | 0.9  | 0           | -    |
| ZAMB. DEL NORTE....  | 42                       | 7.6  | 0           | -    | 10               | 1.8  | 3           | 0.5  |
| ZAMB. DEL SUR.....   | 45                       | 4.4  | 0           | -    | 50               | 4.9  | 21          | 2.1  |

TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| A R E A               | WHOOPIING COUGH<br>(033) |      |             |      | TETANUS<br>(037) |      |             |      |
|-----------------------|--------------------------|------|-------------|------|------------------|------|-------------|------|
|                       | C A S E S                |      | D E A T H S |      | C A S E S        |      | D E A T H S |      |
|                       | NUMBER                   | RATE | NUMBER      | RATE | NUMBER           | RATE | NUMBER      | RATE |
| DAPITAN CITY.....     | 28                       | 45.4 | 0           | -    | 2                | 3.2  | 1           | 1.6  |
| DIPOLOG CITY.....     | 2                        | 2.5  | 0           | -    | 16               | 19.6 | 7           | 8.6  |
| PAGADIAN CITY.....    | 0                        | -    | 0           | -    | 20               | 18.5 | 16          | 14.8 |
| ZAMBOANGA CITY.....   | 0                        | -    | 0           | -    | 30               | 6.6  | 18          | 4.0  |
| REGION 10             | 96                       | 2.7  | 0           | -    | 188              | 5.2  | 84          | 2.3  |
| AGUSAN DEL NORTE....  | 9                        | 3.7  | 0           | -    | 4                | 1.6  | 2           | 0.8  |
| AGUSAN DEL SUR.....   | 16                       | 4.2  | 0           | -    | 9                | 2.1  | 4           | 0.9  |
| BUKIDNON.....         | 31                       | 3.6  | 0           | -    | 35               | 4.1  | 16          | 1.9  |
| CAMIGUIN.....         | 1                        | 1.5  | 0           | -    | 0                | -    | 0           | -    |
| MISAMIS OCC.....      | 0                        | -    | 0           | -    | 2                | 0.8  | 1           | 0.4  |
| MISAMIS OR.....       | 15                       | 3.3  | 0           | -    | 13               | 2.9  | 10          | 2.2  |
| SURIGAO DEL NORTE.... | 3                        | 0.9  | 0           | -    | 6                | 1.8  | 4           | 1.2  |
| BUTUAN CITY.....      | 7                        | 3.0  | 0           | -    | 28               | 12.5 | 16          | 6.9  |
| CAGAYAN DE ORO.....   | 2                        | 0.6  | 0           | -    | 53               | 15.3 | 14          | 4.0  |
| GINGOOG CITY.....     | 6                        | 7.1  | 0           | -    | 18               | 21.3 | 2           | 2.4  |
| OROQUIETA CITY.....   | 2                        | 3.7  | 0           | -    | 0                | -    | 2           | 3.7  |
| OZAMIS CITY.....      | 0                        | -    | 0           | -    | 19               | 20.4 | 10          | 10.7 |
| SURIGAO CITY.....     | 2                        | 2.0  | 0           | -    | 0                | -    | 3           | 2.9  |
| TANGUB CITY.....      | 0                        | -    | 0           | -    | 0                | -    | 0           | -    |
| REGION 11             | 46                       | 1.0  | 1           | 0.02 | 215              | 4.7  | 76          | 1.7  |
| COTABATO SOUTH.....   | 2                        | 0.2  | 1           | 0.1  | 20               | 2.4  | 13          | 1.5  |
| DAVAO DEL NORTE....   | 1                        | 0.2  | 0           | -    | 38               | 9.4  | 29          | 7.2  |
| DAVAO ORIENTAL.....   | 2                        | 0.2  | 0           | -    | 6                | 0.6  | 4           | 0.4  |
| DAVAO DEL SUR.....    | 4                        | 0.6  | 0           | -    | 11               | 1.7  | 5           | 0.8  |
| SURIGAO DEL SUR....   | 31                       | 6.7  | 0           | -    | 41               | 8.9  | 7           | 1.5  |
| DAVAO CITY.....       | 3                        | 0.3  | 0           | -    | 88               | 10.1 | 11          | 1.3  |
| GEN. SANTOS CITY....  | 3                        | 1.2  | 0           | -    | 11               | 4.3  | 7           | 2.7  |
| REGION 12             | 214                      | 6.6  | 0           | -    | 199              | 6.1  | 42          | 1.3  |
| COTABATO NORTH....    | 111                      | 14.2 | 0           | -    | 57               | 7.3  | 5           | 0.6  |
| LANAO DEL NORTE....   | 5                        | 1.3  | 0           | -    | 11               | 2.8  | 8           | 2.0  |
| LANAO DEL SUR.....    | 0                        | -    | 0           | -    | 4                | 0.8  | 0           | 0.0  |
| MAGUINDANAO.....      | 0                        | -    | 0           | -    | 27               | 4.2  | 2           | 0.3  |
| SULTAN KUDARAT.....   | 55                       | 12.3 | 0           | -    | 13               | 2.9  | 7           | 1.6  |
| COTABATO CITY.....    | 0                        | -    | 0           | -    | 60               | 46.1 | 8           | 6.1  |
| ILIGAN CITY.....      | 4                        | 1.7  | 0           | -    | 18               | 7.8  | 12          | 5.2  |
| MARAWI CITY.....      | 39                       | 41.7 | 0           | -    | 9                | 9.6  | 0           | 0.0  |

TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| AREA               | ACUTE POLIOMYELITIS<br>(045-138) |      |        |      | VARICELLA<br>(052) |       |        |      |
|--------------------|----------------------------------|------|--------|------|--------------------|-------|--------|------|
|                    | CASES                            |      | DEATHS |      | CASES              |       | DEATHS |      |
|                    | NUMBER                           | RATE | NUMBER | RATE | NUMBER             | RATE  | NUMBER | RATE |
| PHILIPPINES.....   | 98                               | 0.2  | 23     | 0.04 | 33177              | 53.5  | 20     | 0.03 |
| NAT. CAP. REGION.. | 27                               | 0.3  | 4      | 0.05 | 2281               | 28.2  | 4      | 0.05 |
| 1ST DIST. MANILA.. | 18                               | 0.7  | 2      | 0.1  | 454                | 18.5  | 0      | -    |
| 2ND DIST. MUN..... | 2                                | 0.2  | 0      | -    | 241                | 23.0  | 2      | 0.2  |
| QUEZON CITY.....   | 2                                | 0.1  | 0      | -    | 493                | 28.9  | 1      | 0.1  |
| 3RD DIST. MUN..... | 4                                | 0.5  | 1      | 0.1  | 137                | 15.3  | 0      | -    |
| CALOOCAN CITY....  | 1                                | 0.1  | 1      | 0.1  | 123                | 15.8  | 0      | -    |
| 4TH DIST. MUN..... | 0                                | -    | 0      | -    | 562                | 62.7  | 1      | 0.1  |
| PASAY CITY.....    | 0                                | -    | 0      | -    | 271                | 72.1  | 0      | -    |
| C.A.R.             | 0                                | -    | 0      | -    | 1550               | 132.6 | 0      | -    |
| ABRA.....          | 0                                | -    | 0      | -    | 344                | 182.0 | 0      | -    |
| BENGUET.....       | 0                                | -    | 0      | -    | 423                | 136.6 | 0      | -    |
| IFUGAO.....        | 0                                | -    | 0      | -    | 219                | 145.4 | 0      | -    |
| KALINGA-APAYAO.... | 0                                | -    | 0      | -    | 269                | 124.2 | 0      | -    |
| MT. PROVINCE.....  | 0                                | -    | 0      | -    | 191                | 160.5 | 0      | -    |
| BAGUIO CITY.....   | 0                                | -    | 0      | -    | 104                | 56.4  | 0      | -    |
| REGION 1           | 4                                | 0.1  | 0      | -    | 899                | 24.7  | 0      | -    |
| ILOCOS NORTE.....  | 0                                | -    | 0      | -    | 35                 | 9.1   | 0      | -    |
| ILOCOS SUR.....    | 0                                | -    | 0      | -    | 214                | 40.2  | 0      | -    |
| LA UNION.....      | 0                                | -    | 0      | -    | 305                | 54.3  | 0      | -    |
| PANGASINAN.....    | 4                                | 0.2  | 0      | -    | 225                | 12.4  | 0      | -    |
| DAGUPAN CITY.....  | 0                                | -    | 0      | -    | 17                 | 13.6  | 0      | -    |
| LACAG CITY.....    | 0                                | -    | 0      | -    | 84                 | 97.9  | 0      | -    |
| SAN CARLOS CITY... | 0                                | -    | 0      | -    | 19                 | 14.9  | 0      | -    |
| REGION 2           | 3                                | 0.1  | 1      | 0.04 | 1532               | 64.0  | 0      | -    |
| BATANES.....       | 0                                | -    | 0      | -    | 18                 | 117.3 | 0      | -    |
| CAGAYAN.....       | 2                                | 0.2  | 1      | 0.1  | 323                | 38.1  | 0      | -    |
| ISABELA.....       | 1                                | 0.1  | 0      | -    | 1117               | 101.1 | 0      | -    |
| NEUVA VIZCAYA..... | 0                                | -    | 0      | -    | 52                 | 16.9  | 0      | -    |
| QUIRINO.....       | 0                                | -    | 0      | -    | 22                 | 18.8  | 0      | -    |
| REGION 3           | 3                                | 0.05 | 2      | 0.03 | 2764               | 43.0  | 0      | -    |
| BATAAN.....        | 0                                | -    | 0      | -    | 455                | 104.6 | 0      | -    |
| BULACAN.....       | 0                                | -    | 0      | -    | 369                | 24.0  | 0      | -    |
| NUEVA ECIJA.....   | 0                                | -    | 0      | -    | 373                | 35.9  | 0      | -    |
| PAMPANGA.....      | 1                                | 0.1  | 1      | 0.1  | 440                | 39.2  | 0      | -    |
| TARLAC.....        | 0                                | -    | 0      | -    | 677                | 76.9  | 0      | -    |
| ZAMBALES.....      | 1                                | 0.3  | 0      | -    | 331                | 87.7  | 0      | -    |

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TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1980

| A R E A              | ACUTE POLIOMYELITIS<br>(045-138) |      |             |      | VARICELLA<br>(052) |       |             |      |
|----------------------|----------------------------------|------|-------------|------|--------------------|-------|-------------|------|
|                      | C A S E S                        |      | D E A T H S |      | C A S E S          |       | D E A T H S |      |
|                      | NUMBER                           | RATE | NUMBER      | RATE | NUMBER             | RATE  | NUMBER      | RATE |
| ANGELES CITY.....    | 0                                | -    | -           | -    | 18                 | 7.4   | 0           | -    |
| CABANATUAN CITY..... | 0                                | -    | -           | -    | 30                 | 15.6  | 0           | -    |
| OLONGAPO CITY.....   | 0                                | -    | -           | -    | 37                 | 18.7  | 0           | -    |
| PALAYAN CITY.....    | 1                                | 4.6  | 1           | 0.00 | 7                  | 32.2  | 0           | -    |
| SAN JOSE CITY.....   | 0                                | -    | 0           | -    | 27                 | 29.4  | 0           | -    |
| REGION 4             | 10                               | 0.1  | 4           | 0.05 | 3495               | 41.4  | 3           | 0.04 |
| AURORA.....          | 0                                | -    | 0           | -    | 160                | 112.3 | 0           | -    |
| BATANGAS.....        | 0                                | -    | 0           | -    | 463                | 40.0  | 0           | -    |
| CAVITE.....          | 1                                | 0.1  | 0           | -    | 104                | 10.0  | 0           | -    |
| LAGUNA.....          | 0                                | -    | 0           | -    | 516                | 41.7  | 0           | -    |
| MARINDUQUE.....      | 0                                | -    | 0           | -    | 121                | 63.7  | 0           | -    |
| MINDORO OCC.....     | 0                                | -    | 0           | -    | 85                 | 29.5  | 0           | -    |
| MINDORO OR.....      | 0                                | -    | 0           | -    | 144                | 25.6  | 0           | -    |
| PALAWAN.....         | 0                                | -    | 0           | -    | 326                | 73.2  | 0           | -    |
| QUEZON.....          | 5                                | 0.4  | 3           | 0.2  | 220                | 17.6  | 1           | 0.1  |
| RIZAL.....           | 0                                | -    | 0           | -    | 796                | 79.6  | 0           | -    |
| ROMBLON.....         | 0                                | -    | 0           | -    | 102                | 43.8  | 2           | 0.9  |
| BATANGAS CITY.....   | 3                                | 1.6  | 1           | 0.5  | 231                | 121.9 | 0           | -    |
| CAVITE CITY.....     | 1                                | 1.1  | 0           | -    | 60                 | 63.9  | 0           | -    |
| LIPA CITY.....       | 0                                | -    | 0           | -    | 0                  | -     | 0           | -    |
| LUCENA CITY.....     | 0                                | -    | 0           | -    | 20                 | 13.0  | 0           | -    |
| PUERTO PRINCESA..... | 0                                | -    | 0           | -    | 64                 | 69.6  | 0           | -    |
| SAN PABLO CITY.....  | 0                                | -    | 0           | -    | 76                 | 45.9  | 0           | -    |
| TAGAYTAY CITY.....   | 0                                | -    | 0           | -    | 5                  | 20.6  | 0           | -    |
| TRECE MARTIRES.....  | 0                                | -    | 0           | -    | 2                  | 12.4  | 0           | -    |
| REGION 5             | 4                                | 0.1  | 2           | 0.05 | 3248               | 81.2  | 2           | 0.05 |
| ALBAY.....           | 2                                | 0.2  | 1           | 0.1  | 742                | 92.6  | 0           | -    |
| CAMARINES NORTE..... | 0                                | -    | 0           | -    | 128                | 32.0  | 1           | 0.2  |
| CAMARINES SUR.....   | 2                                | 0.2  | 1           | 0.1  | 534                | 74.8  | 0           | -    |
| CATANDUANES.....     | 0                                | -    | 0           | -    | 31                 | 16.2  | 0           | -    |
| MASBATE.....         | 0                                | -    | 0           | -    | 738                | 120.3 | 0           | -    |
| SORSOGON.....        | 0                                | -    | 0           | -    | 651                | 121.7 | 1           | 0.2  |
| IRIGA CITY.....      | 0                                | -    | 0           | -    | 17                 | 20.4  | 0           | -    |
| LEGASPI CITY.....    | 0                                | -    | 0           | -    | 88                 | 71.0  | 0           | -    |
| NAGA CITY.....       | 0                                | -    | 0           | -    | 19                 | 13.7  | 0           | -    |
| REGION 6             | 7                                | 0.1  | 3           | 0.1  | 2763               | 50.1  | 5           | 0.1  |
| AKLAN.....           | 2                                | 0.5  | 1           | 0.3  | 137                | 35.2  | 1           | 0.3  |
| ANTIQUE.....         | 1                                | 0.2  | 0           | -    | 192                | 46.2  | 0           | -    |
| CAPIZ.....           | 0                                | -    | 0           | -    | 243                | 52.1  | 0           | -    |
| ILOILO.....          | 2                                | 0.1  | 2           | 0.1  | 430                | 28.9  | 2           | 0.1  |
| NEGROS OCC.....      | 2                                | 0.1  | 0           | -    | 1270               | 89.6  | 1           | 0.1  |

TABLE 16

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| A R E A             | ACUTE POLIOMYELITIS<br>(045-138) |      |             |      | VARICELLA<br>(052) |       |             |      |
|---------------------|----------------------------------|------|-------------|------|--------------------|-------|-------------|------|
|                     | C A S E S                        |      | D E A T H S |      | C A S E S          |       | D E A T H S |      |
|                     | NUMBER                           | RATE | NUMBER      | RATE | NUMBER             | RATE  | NUMBER      | RATE |
| BACOLOD CITY.....   | 0                                | -    | 0           | -    | 108                | 28.9  | 0           | -    |
| BAGO CITY.....      | 0                                | -    | 0           | -    | 0                  | -     | 0           | -    |
| CADIZ CITY.....     | 0                                | -    | 0           | -    | 24                 | 19.6  | 0           | -    |
| ILOILO CITY.....    | 0                                | -    | 0           | -    | 92                 | 29.0  | 0           | -    |
| LA CARLOTA CITY.... | 0                                | -    | 0           | -    | 150                | 259.4 | 0           | -    |
| ROXAS CITY.....     | 0                                | -    | 0           | -    | 35                 | 26.6  | 0           | -    |
| SAN CARLOS CITY.... | 0                                | -    | 0           | -    | 59                 | 54.5  | 0           | -    |
| SILAY CITY.....     | 0                                | -    | 0           | -    | 23                 | 22.2  | 1           | 1.0  |
| REGION 7            | 7                                | 0.1  | 1           | 0.02 | 1415               | 30.1  | 1           | 0.02 |
| BOHOL.....          | 0                                | -    | 0           | -    | 155                | 17.9  | 0           | -    |
| CERU.....           | 2                                | 0.1  | 0           | -    | 39                 | 2.5   | 0           | -    |
| NEGROS OR.....      | 1                                | 0.1  | 1           | 0.1  | 655                | 85.5  | 0           | -    |
| SIQULJOR.....       | 0                                | -    | 0           | -    | 6                  | 7.9   | 0           | -    |
| BAIS CITY.....      | 3                                | 4.9  | 0           | -    | 10                 | 16.4  | 0           | -    |
| CANLACON CITY.....  | 0                                | -    | 0           | -    | 18                 | 47.3  | 0           | -    |
| CEBU CITY.....      | 1                                | 0.2  | 0           | -    | 457                | 73.8  | 1           | 0.2  |
| DANAO CITY.....     | 0                                | -    | 0           | -    | 2                  | 2.7   | 0           | -    |
| DUMAGUETE CITY....  | 0                                | -    | 0           | -    | 26                 | 32.0  | 0           | -    |
| LAPU-LAPU CITY....  | 0                                | -    | 0           | -    | 36                 | 24.1  | 0           | -    |
| MANDAWE CITY.....   | 0                                | -    | 0           | -    | 3                  | 1.6   | 0           | -    |
| TAGBILARAN CITY.... | 0                                | -    | 0           | -    | 2                  | 3.5   | 0           | -    |
| TOLEDO CITY.....    | 0                                | -    | 0           | -    | 6                  | 4.9   | 0           | -    |
| REGION 8            | 0                                | -    | 0           | -    | 1286               | 41.2  | 2           | 0.1  |
| LEYTE DEL NORTE...  | 0                                | -    | 0           | -    | 782                | 62.7  | 1           | 0.1  |
| LEYTE DEL SUR.....  | 0                                | -    | 0           | -    | 236                | 71.6  | 1           | 0.3  |
| EASTERN SAMAR.....  | 0                                | -    | 0           | -    | 98                 | 29.1  | 0           | -    |
| NORTHERN SAMAR..... | 0                                | -    | 0           | -    | 157                | 40.0  | 0           | -    |
| WESTERN SAMAR.....  | 0                                | -    | 0           | -    | 0                  | -     | 0           | -    |
| CALBAYOG CITY.....  | 0                                | -    | 0           | -    | 2                  | 1.7   | 0           | -    |
| ORMOC CITY.....     | 0                                | -    | 0           | -    | 5                  | 3.8   | 0           | -    |
| TACLOBAN CITY.....  | 0                                | -    | 0           | -    | 6                  | 4.3   | 0           | -    |
| REGION 9            | 3                                | 0.1  | 2           | 0.1  | 2577               | 79.8  | 0           | -    |
| BASILAN.....        | 0                                | -    | 0           | -    | 52                 | 21.3  | 0           | -    |
| SULU.....           | 0                                | -    | 0           | -    | 164                | 34.1  | 0           | -    |
| TAWI-TAWI.....      | 0                                | -    | 0           | -    | 3                  | 1.3   | 0           | -    |
| ZAMB. DEL NORTE...  | 0                                | -    | 0           | -    | 612                | 111.4 | 0           | -    |
| ZAMB. DEL SUR.....  | 2                                | 0.2  | 2           | 0.2  | 1449               | 142.3 | 0           | -    |

TABLE 16

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| A R E A             | ACUTE POLIOMYELITIS<br>(045-138) |      |             |      | VARICELLA<br>(052) |       |             |      |
|---------------------|----------------------------------|------|-------------|------|--------------------|-------|-------------|------|
|                     | C A S E S                        |      | D E A T H S |      | C A S E S          |       | D E A T H S |      |
|                     | NUMBER                           | RATE | NUMBER      | RATE | NUMBER             | RATE  | NUMBER      | RATE |
| DAPITAN CITY.....   | 0                                | -    | 0           | -    | 13                 | 21.1  | 0           | -    |
| DIPOLOG CITY.....   | 0                                | -    | 0           | -    | 4                  | 4.9   | 0           | -    |
| PAGADIAN CITY.....  | 0                                | -    | 0           | -    | 188                | 173.6 | 0           | -    |
| ZAMBOANGA CITY..... | 1                                | 0.2  | 0           | -    | 82                 | 20.4  | 0           | -    |
| REGION 10           | 11                               | 0.3  | 2           | 0.1  | 2169               | 60.4  | 0           | -    |
| AGUSAN DEL NORTE... | 0                                | -    | 0           | -    | 355                | 145.9 | 0           | -    |
| AGUSAN DEL SUR....  | 0                                | -    | 0           | -    | 14                 | 3.3   | 0           | -    |
| BUKIDNON.....       | 3                                | 0.3  | 0           | -    | 49                 | 5.7   | 0           | -    |
| CAMIGUIN.....       | 0                                | -    | 0           | -    | 15                 | 22.8  | 0           | -    |
| MISAMIS OCC.....    | 1                                | 0.4  | 1           | 0.4  | 120                | 49.3  | 0           | -    |
| MISAMIS OR.....     | 0                                | -    | 0           | -    | 905                | 199.8 | 0           | -    |
| SURIGAO DEL NORTE.. | 0                                | -    | 0           | -    | 345                | 103.5 | 0           | -    |
| BUTUAN CITY.....    | 7                                | 3.0  | 1           | 0.4  | 112                | 48.1  | 0           | -    |
| CAGAYAN DE ORO....  | 0                                | -    | 0           | -    | 55                 | 15.9  | 0           | -    |
| GINGOG CITY.....    | 0                                | -    | 0           | -    | 18                 | 21.3  | 0           | -    |
| OROQUIETA CITY....  | 0                                | -    | 0           | -    | 51                 | 95.1  | 0           | -    |
| OZAMIS CITY.....    | 0                                | -    | 0           | -    | 54                 | 57.9  | 0           | -    |
| SURIGAO CITY.....   | 0                                | -    | 0           | -    | 76                 | 74.1  | 0           | -    |
| TANGUB CITY.....    | 0                                | -    | 0           | -    | 0                  | -     | 0           | -    |
| REGION 11           | 13                               | 0.3  | 2           | 0.04 | 3640               | 79.9  | 2           | 0.04 |
| COTABATO SOUTH....  | 0                                | -    | 0           | -    | 884                | 105.0 | 1           | 0.1  |
| DAVAO DEL NORTE.... | 0                                | -    | 0           | -    | 525                | 129.9 | 0           | -    |
| DAVAO ORIENTAL....  | 7                                | 0.6  | 0           | -    | 262                | 24.3  | 0           | -    |
| DAVAO DEL SUR....   | 0                                | -    | 0           | -    | 752                | 116.1 | 0           | -    |
| SURIGAO DEL SUR.... | 5                                | 1.1  | 1           | 0.2  | 930                | 201.1 | 1           | 0.2  |
| DAVAO CITY.....     | 0                                | -    | 0           | -    | 241                | 27.8  | 0           | -    |
| GEN. SANTOS CITY..  | 1                                | 0.4  | 1           | 0.4  | 46                 | 18.0  | 0           | -    |
| REGION 12           | 6                                | 0.2  | 0           | -    | 3558               | 109.6 | 1           | 0.03 |
| COTABATO NORTH....  | 0                                | -    | 0           | -    | 1104               | 141.2 | 0           | -    |
| LANAO DEL NORTE.... | 0                                | -    | 0           | -    | 250                | 63.0  | 0           | -    |
| LANAO DEL SUR....   | 0                                | -    | 0           | -    | 604                | 116.1 | 0           | -    |
| MAGUINDANAO.....    | 4                                | 0.6  | 0           | -    | 804                | 124.6 | 0           | -    |
| SULTAN KUDARAT....  | 0                                | -    | 0           | -    | 742                | 166.3 | 0           | -    |
| COTABATO CITY.....  | 1                                | 0.8  | 0           | -    | 48                 | 36.9  | 0           | -    |
| ILIGAN CITY.....    | 0                                | -    | 0           | -    | 6                  | 2.6   | 1           | 0.4  |
| MARAWI CITY.....    | 1                                | 1.1  | 0           | -    | 0                  | -     | 0           | -    |

TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| AREA               | MEASLES<br>(055) |       |        |      | H - FEVER<br>(061-065) |       |        |      |
|--------------------|------------------|-------|--------|------|------------------------|-------|--------|------|
|                    | CASES            |       | DEATHS |      | CASES                  |       | DEATHS |      |
|                    | NUMBER           | RATE  | NUMBER | RATE | NUMBER                 | RATE  | NUMBER | RATE |
| PHILIPPINES.....   | 42938            | 69.2  | 3499   | 5.6  | 4836                   | 7.8   | 363    | 0.6  |
| NAT. CAP. REGION.. | 5398             | 66.6  | 674    | 8.3  | 780                    | 9.6   | 107    | 1.3  |
| 1ST DIST. MANILA.. | 2092             | 85.2  | 131    | 5.3  | 285                    | 11.6  | 29     | 1.2  |
| 2ND DIST. MUN.     | 299              | 28.5  | 84     | 8.0  | 26                     | 2.5   | 8      | 0.8  |
| QUEZON CITY.....   | 1916             | 112.4 | 140    | 8.2  | 130                    | 7.6   | 24     | 1.4  |
| 3RD DIST. MUN.     | 488              | 57.9  | 133    | 15.8 | 28                     | 3.3   | 3      | 0.4  |
| CALOOCAN CITY....  | 215              | 27.5  | 89     | 11.4 | 52                     | 6.7   | 13     | 1.7  |
| 4TH DIST. MUN.     | 255              | 28.5  | 85     | 9.5  | 53                     | 5.9   | 19     | 2.1  |
| PASAY CITY.....    | 133              | 35.4  | 12     | 3.2  | 206                    | 54.8  | 11     | 2.9  |
| C.A.R.             | 2215             | 189.4 | 34     | 2.9  | 13                     | 1.1   | 3      | 0.3  |
| AERA.....          | 235              | 119.6 | 6      | 3.2  | 0                      | -     | 0      | -    |
| BENGUET.....       | 891              | 287.7 | 4      | 1.3  | 0                      | -     | 0      | -    |
| IFUGAO.....        | 246              | 163.3 | 6      | 4.0  | 5                      | 3.3   | 1      | 0.7  |
| KALINGA-APAYAO..   | 239              | 110.3 | 3      | 1.4  | 4                      | 1.8   | 1      | 0.5  |
| MT. PROVINCE.....  | 564              | 473.8 | 12     | 10.1 | 4                      | 3.4   | 1      | 0.8  |
| BAGUIO CITY.....   | 49               | 26.6  | 3      | 1.6  | 0                      | -     | 0      | -    |
| REGION 1           | 1993             | 54.8  | 185    | 5.1  | 113                    | 3.1   | 4      | 0.1  |
| ILOCOS NORTE.....  | 382              | 98.9  | 3      | 0.8  | 4                      | 1.0   | 1      | 0.3  |
| ILOCOS SUR.....    | 449              | 84.4  | 4      | 0.8  | 22                     | 4.1   | 0      | -    |
| LA UNION.....      | 372              | 66.2  | 22     | 3.9  | 19                     | 3.4   | 0      | -    |
| PANGASINAN.....    | 529              | 29.1  | 123    | 6.8  | 7                      | 0.4   | 3      | 0.2  |
| DAGUPAN CITY.....  | 154              | 122.9 | 17     | 13.6 | 61                     | 48.7  | 0      | -    |
| LACAG CITY.....    | 54               | 62.9  | 4      | 4.7  | 0                      | -     | 0      | -    |
| SAN CARLOS CITY... | 53               | 41.5  | 12     | 9.4  | 0                      | -     | 0      | -    |
| REGION 2           | 1637             | 68.4  | 156    | 6.6  | 117                    | 4.9   | 7      | 0.3  |
| BATANES.....       | 4                | 26.1  | 0      | -    | 98                     | 638.8 | 1      | 6.5  |
| CAGAYAN.....       | 664              | 78.2  | 71     | 8.4  | 10                     | 1.2   | 2      | 0.2  |
| ISABELA.....       | 709              | 64.2  | 57     | 6.1  | 9                      | 0.8   | 4      | 0.4  |
| NEUVA VIZCAYA....  | 167              | 54.2  | 10     | 3.2  | 0                      | -     | 0      | -    |
| QUIRINO.....       | 93               | 79.6  | 8      | 6.8  | 0                      | -     | 0      | -    |
| REGION 3           | 3358             | 52.6  | 159    | 2.5  | 140                    | 2.2   | 13     | 0.2  |
| BATAAN.....        | 336              | 77.2  | 5      | 1.1  | 5                      | 1.1   | 3      | 0.7  |
| BULACAN.....       | 741              | 48.1  | 48     | 3.1  | 10                     | 0.6   | 3      | 0.2  |
| NUEVA ECIJA.....   | 363              | 35.0  | 12     | 1.2  | 5                      | 0.5   | 0      | -    |
| PAMPANGA.....      | 291              | 21.9  | 36     | 2.7  | 30                     | 2.3   | 2      | 0.2  |
| TARLAC.....        | 690              | 78.4  | 19     | 2.2  | 31                     | 3.5   | 3      | 0.3  |
| ZAMBALES.....      | 283              | 75.0  | 10     | 2.7  | 4                      | 1.1   | 0      | -    |

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TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| AREA                 | MEASLES<br>(055) |       |        |      | H - FEVER<br>(061-065) |      |        |      |
|----------------------|------------------|-------|--------|------|------------------------|------|--------|------|
|                      | CASES            |       | DEATHS |      | CASES                  |      | DEATHS |      |
|                      | NUMBER           | RATE  | NUMBER | RATE | NUMBER                 | RATE | NUMBER | RATE |
| ANGELES CITY.....    | 468              | 193.5 | 5      | 2.1  | 40                     | 16.5 | 1      | 0.4  |
| CABANATUAN CITY..... | 14               | 7.3   | 6      | 3.1  | 2                      | 1.0  | 1      | 0.5  |
| OLONGAPO CITY.....   | 97               | 49.0  | 13     | 6.6  | 11                     | 5.6  | 0      | -    |
| PALAYAN CITY.....    | 5                | 23.0  | 0      | -    | 2                      | 9.2  | 0      | -    |
| SAN JOSE CITY.....   | 50               | 54.4  | 5      | 5.4  | 0                      | -    | 0      | -    |
| REGION 4             | 3478             | 41.2  | 491    | 5.8  | 160                    | 1.9  | 37     | 0.4  |
| AURORA.....          | 89               | 62.5  | 19     | 13.3 | 0                      | -    | 0      | -    |
| BATANGAS.....        | 402              | 35.2  | 20     | 1.7  | 18                     | 1.6  | 7      | 0.6  |
| CAVITE.....          | 284              | 27.2  | 37     | 3.5  | 23                     | 2.2  | 2      | 0.2  |
| LAGUNA.....          | 143              | 11.6  | 64     | 5.2  | 40                     | 3.2  | 7      | 0.6  |
| MARINDUQUE.....      | 285              | 155.3 | 17     | 9.0  | 0                      | -    | 0      | -    |
| MINDORO OCC.....     | 51               | 17.7  | 26     | 9.0  | 12                     | 4.2  | 0      | -    |
| MINDORO OR.....      | 229              | 40.7  | 49     | 8.7  | 2                      | 0.4  | 1      | 0.2  |
| PALAWAN.....         | 306              | 203.4 | 19     | 4.3  | 10                     | 2.2  | 0      | -    |
| QUEZON.....          | 239              | 19.1  | 83     | 6.6  | 11                     | 0.9  | 6      | 0.5  |
| RIZAL.....           | 178              | 17.8  | 81     | 8.1  | 8                      | 0.8  | 4      | 0.4  |
| ROMELON.....         | 265              | 113.7 | 37     | 15.9 | 7                      | 3.0  | 0      | -    |
| BATANGAS CITY.....   | 192              | 101.3 | 1      | 0.5  | 0                      | -    | 0      | -    |
| CAVITE CITY.....     | 52               | 55.4  | 7      | 7.5  | 6                      | 6.4  | 1      | 1.1  |
| LIPA CITY.....       | 30               | 18.3  | 4      | 2.4  | 5                      | 3.0  | 2      | 1.2  |
| LUCENA CITY.....     | 54               | 35.2  | 18     | 11.7 | 10                     | 6.5  | 4      | 2.6  |
| PUERTO PRINCESA..... | 11               | 12.0  | 4      | 4.3  | 6                      | 6.5  | 2      | 2.2  |
| SAN PABLO CITY.....  | 41               | 24.8  | 5      | 3.0  | 1                      | 0.6  | 1      | 0.6  |
| TAGAYTAY CITY.....   | 6                | 24.7  | 0      | -    | 0                      | -    | 0      | -    |
| TRECE MARTIRES.....  | 5                | 31.1  | 0      | -    | 1                      | 6.2  | 0      | -    |
| REGION 5             | 3736             | 93.4  | 262    | 6.5  | 79                     | 2.0  | 11     | 0.3  |
| ALBAY.....           | 544              | 67.9  | 43     | 5.4  | 25                     | 3.1  | 4      | 0.5  |
| CAMARINES NORTE..... | 109              | 27.2  | 16     | 4.0  | 23                     | 5.7  | 3      | 0.7  |
| CAMARINES SUR.....   | 1047             | 94.0  | 76     | 6.3  | 4                      | 0.4  | 0      | -    |
| CATANDUANES.....     | 285              | 148.9 | 22     | 11.5 | 4                      | 2.1  | 1      | 0.5  |
| MASBATE.....         | 1207             | 196.7 | 32     | 5.2  | 9                      | 1.5  | 0      | -    |
| SORSOGON.....        | 414              | 77.4  | 44     | 8.2  | 9                      | 1.7  | 2      | 0.4  |
| IRIGA CITY.....      | 10               | 12.0  | 7      | 8.4  | 0                      | -    | 0      | -    |
| LEGASPI CITY.....    | 47               | 37.9  | 6      | 4.8  | 5                      | 4.0  | 1      | 0.8  |
| NAGA CITY.....       | 73               | 52.8  | 16     | 11.6 | 0                      | -    | 0      | -    |
| REGION 6             | 2645             | 47.9  | 204    | 3.7  | 666                    | 12.1 | 43     | 0.8  |
| AKLAN.....           | 313              | 80.4  | 11     | 2.8  | 14                     | 3.6  | 4      | 1.0  |
| ANTIQUE.....         | 173              | 41.6  | 14     | 3.4  | 139                    | 33.4 | 3      | 0.7  |
| CAPIZ.....           | 333              | 71.4  | 26     | 5.6  | 30                     | 6.4  | 0      | -    |
| ILOILO.....          | 533              | 36.1  | 23     | 1.9  | 41                     | 2.8  | 4      | 0.3  |
| NEGROS OCC.....      | 840              | 59.3  | 41     | 2.9  | 10                     | 0.7  | 3      | 0.2  |

TABLE 15

**NOTIFIABLE DISEASES: REPORTED CASES & DEATHS**  
**BY HEALTH REGION, PROVINCE & CITY**  
**No. & Rate/100,000 Pop.**  
**PHILIPPINES**  
**1990**

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| A R E A              | MEASLES<br>(055) |       |             |      | H - FEVER<br>(061-065) |       |             |      |
|----------------------|------------------|-------|-------------|------|------------------------|-------|-------------|------|
|                      | C A S E S        |       | D E A T H S |      | C A S E S              |       | D E A T H S |      |
|                      | NUMBER           | RATE  | NUMBER      | RATE | NUMBER                 | RATE  | NUMBER      | RATE |
| BACOLOD CITY.....    | 144              | 38.6  | 41          | 11.0 | 290                    | 77.7  | 5           | 1.3  |
| BAGO CITY.....       | 18               | 14.3  | 7           | 5.6  | 0                      | -     | 0           | -    |
| CADIZ CITY.....      | 16               | 13.0  | 3           | 2.4  | 0                      | -     | 0           | -    |
| ILOILO CITY.....     | 178              | 56.1  | 7           | 2.2  | 109                    | 34.4  | 21          | 6.6  |
| LA CARLOTA CITY..... | 11               | 19.0  | 0           | -    | 3                      | 5.2   | 0           | -    |
| ROXAS CITY.....      | 24               | 18.2  | 8           | 6.1  | 29                     | 22.0  | 2           | 1.5  |
| SAN CARLOS CITY..... | 47               | 43.4  | 15          | 13.8 | 0                      | -     | 0           | -    |
| SILAY CITY.....      | 10               | 9.7   | 3           | 2.9  | 1                      | 1.0   | 1           | 1.0  |
| REGION 7             | 2925             | 62.3  | 345         | 7.3  | 1359                   | 28.9  | 63          | 1.3  |
| BOHOL.....           | 358              | 39.2  | 45          | 4.9  | 15                     | 1.6   | 2           | 0.2  |
| Cebu.....            | 815              | 52.5  | 58          | 3.7  | 49                     | 3.2   | 11          | 0.7  |
| NEGROS OR.....       | 563              | 73.5  | 43          | 5.6  | 26                     | 3.4   | 3           | 0.4  |
| SIGUIJOR.....        | 10               | 13.2  | 0           | -    | 4                      | 5.3   | 1           | 1.3  |
| BAIS CITY.....       | 30               | 49.2  | 3           | 4.9  | 0                      | -     | 0           | -    |
| CANLON CITY.....     | 20               | 52.5  | 4           | 10.5 | 0                      | -     | 0           | -    |
| CERU CITY.....       | 757              | 122.2 | 96          | 15.5 | 959                    | 154.8 | 27          | 4.4  |
| DANAO CITY.....      | 45               | 60.0  | 2           | 2.7  | 6                      | 8.0   | 2           | 2.7  |
| DUMAGUETE CITY.....  | 39               | 48.0  | 22          | 27.1 | 32                     | 39.4  | 6           | 7.4  |
| LAPU-LAPU CITY.....  | 25               | 16.8  | 5           | 3.4  | 2                      | 1.3   | 1           | 0.7  |
| MANDAWA CITY.....    | 48               | 26.1  | 39          | 21.2 | 12                     | 6.5   | 5           | 2.7  |
| TAGBILARAN CITY..... | 54               | 94.7  | 4           | 7.0  | 13                     | 22.8  | 3           | 5.3  |
| TOLEDO CITY.....     | 161              | 131.2 | 24          | 19.6 | 241                    | 196.4 | 2           | 1.6  |
| REGION 8             | 3884             | 124.3 | 279         | 8.9  | 52                     | 1.7   | 12          | 0.4  |
| LEYTE DEL NORTE..... | 1490             | 119.5 | 94          | 7.5  | 10                     | 0.8   | 3           | 0.2  |
| LEYTE DEL SUR.....   | 782              | 237.4 | 24          | 7.3  | 7                      | 2.1   | 4           | 1.2  |
| EASTERN SAMAR.....   | 209              | 62.1  | 6           | 1.8  | 0                      | -     | 0           | -    |
| NORTHERN SAMAR.....  | 495              | 126.1 | 47          | 12.0 | 6                      | 1.5   | 2           | 0.5  |
| WESTERN SAMAR.....   | 677              | 158.5 | 24          | 5.6  | 5                      | 1.2   | 1           | 0.2  |
| CALBAYOG CITY.....   | 81               | 68.8  | 39          | 33.1 | 3                      | 2.5   | 2           | 1.7  |
| ORMOC CITY.....      | 92               | 69.4  | 20          | 15.1 | 10                     | 7.5   | 0           | -    |
| TACLORAN CITY.....   | 58               | 41.3  | 25          | 17.8 | 11                     | 7.8   | 0           | -    |
| REGION 9             | 2022             | 62.6  | 180         | 5.6  | 63                     | 2.0   | 10          | 0.3  |
| BASILAN.....         | 79               | 32.4  | 14          | 5.7  | 0                      | -     | 0           | -    |
| SULU.....            | 283              | 58.9  | 25          | 5.2  | 0                      | -     | 0           | -    |
| TAWI-TAWI.....       | 10               | 4.3   | 0           | -    | 2                      | 0.9   | 0           | -    |
| ZAMB. DEL NORTE..... | 123              | 22.4  | 23          | 4.2  | 0                      | -     | 0           | -    |
| ZAMB. DEL SUR.....   | 1136             | 111.6 | 29          | 2.8  | 8                      | 0.9   | 5           | 0.5  |

TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| A R E A             | MEASLES<br>(055) |       |             |      | H - FEVER<br>(061-065) |       |             |      |
|---------------------|------------------|-------|-------------|------|------------------------|-------|-------------|------|
|                     | C A S E S        |       | D E A T H S |      | C A S E S              |       | D E A T H S |      |
|                     | NUMBER           | RATE  | NUMBER      | RATE | NUMBER                 | RATE  | NUMBER      | RATE |
| DAPITAN CITY.....   | 25               | 40.6  | 8           | 13.0 | 0                      | -     | 1           | 1.6  |
| DIPOLOG CITY.....   | 22               | 27.0  | 4           | 4.9  | 2                      | 2.5   | 0           | -    |
| PAGADIAN CITY.....  | 86               | 79.4  | 32          | 29.5 | 1                      | 0.9   | 0           | -    |
| ZAMBOANGA CITY..... | 258              | 57.1  | 45          | 10.0 | 49                     | 10.8  | 4           | 0.9  |
| REGION 10           | 3495             | 87.4  | 145         | 4.0  | 129                    | 3.6   | 12          | 0.3  |
| AGUSAN DEL NORTE... | 303              | 124.5 | 14          | 5.8  | 9                      | 3.7   | 0           | -    |
| AGUSAN DEL SUR....  | 329              | 76.5  | 16          | 3.7  | 3                      | 0.7   | 0           | -    |
| BUKIDNON.....       | 788              | 91.3  | 20          | 2.3  | 7                      | 0.8   | 2           | 0.2  |
| CAMIGUIN.....       | 59               | 88.2  | 0           | -    | 0                      | -     | 0           | -    |
| MISAMIS OCC.....    | 135              | 55.5  | 5           | 2.1  | 4                      | 1.6   | 1           | 0.4  |
| MISAMIS OR.....     | 427              | 84.3  | 12          | 2.6  | 3                      | 0.7   | 2           | 0.4  |
| SURIGAO DEL NORTE.. | 251              | 75.3  | 13          | 3.9  | 13                     | 3.9   | 0           | -    |
| BUTUAN CITY.....    | 430              | 184.6 | 24          | 10.3 | 24                     | 10.3  | 2           | 0.9  |
| CAGAYAN DE ORO....  | 295              | 85.2  | 14          | 4.0  | 60                     | 17.3  | 4           | 1.2  |
| GINGOGG CITY.....   | 20               | 23.6  | 10          | 11.8 | 3                      | 3.5   | 0           | -    |
| OROQUIETA CITY....  | 61               | 113.8 | 6           | 11.2 | 1                      | 1.9   | 0           | -    |
| OZAMIS CITY.....    | 332              | 355.9 | 6           | 6.4  | 2                      | 2.1   | 1           | 1.1  |
| SURIGAO CITY.....   | 56               | 54.6  | 5           | 4.9  | 0                      | -     | 0           | -    |
| TANGUB CITY.....    | 10               | 22.8  | 0           | -    | 0                      | -     | 0           | -    |
| REGION 11           | 3034             | 66.6  | 286         | 6.3  | 610                    | 13.4  | 28          | 0.6  |
| COTABATO SOUTH....  | 755              | 89.7  | 46          | 5.5  | 13                     | 1.5   | 6           | 0.7  |
| DAVAO DEL NORTE.... | 365              | 90.3  | 73          | 19.3 | 10                     | 2.5   | 7           | 1.7  |
| DAVAO ORIENTAL....  | 109              | 10.1  | 7           | 0.6  | 5                      | 0.5   | 0           | -    |
| DAVAO DEL SUR.....  | 279              | 43.1  | 7           | 1.1  | 123                    | 19.0  | 2           | 0.3  |
| SURIGAO DEL SUR.... | 839              | 194.4 | 43          | 9.3  | 14                     | 3.0   | 0           | -    |
| DAVAO CITY.....     | 515              | 59.4  | 33          | 4.4  | 402                    | 46.4  | 7           | 0.8  |
| GEN. SANTOS CITY..  | 112              | 43.8  | 67          | 26.2 | 43                     | 16.8  | 6           | 2.3  |
| REGION 12           | 3138             | 96.7  | 99          | 3.1  | 555                    | 17.1  | 13          | 0.4  |
| COTABATO NORTH....  | 818              | 104.6 | 22          | 2.8  | 22                     | 2.8   | 2           | 0.3  |
| LANAO DEL NORTE.... | 260              | 65.5  | 11          | 2.8  | 20                     | 5.0   | 4           | 1.0  |
| LANAO DEL SUR.....  | 407              | 78.2  | 3           | 0.6  | 0                      | -     | 0           | -    |
| MAGUINDANAO.....    | 539              | 81.3  | 0           | -    | 81                     | 12.6  | 0           | -    |
| SULTAN KUDARAT....  | 533              | 119.5 | 10          | 2.2  | 4                      | 0.9   | 2           | 0.4  |
| COTABATO CITY.....  | 227              | 174.4 | 14          | 10.8 | 328                    | 251.9 | 0           | -    |
| ILIGAN CITY.....    | 236              | 101.9 | 33          | 16.4 | 97                     | 41.9  | 4           | 1.7  |
| MARAWI CITY.....    | 68               | 72.8  | 1           | 1.1  | 3                      | 3.2   | 1           | 1.1  |

TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| A R E A            | INFECTIOUS HEPATITIS<br>(070) |      |             |      | MALARIA<br>(084) |        |             |      |
|--------------------|-------------------------------|------|-------------|------|------------------|--------|-------------|------|
|                    | C A S E S                     |      | D E A T H S |      | C A S E S        |        | D E A T H S |      |
|                    | NUMBER                        | RATE | NUMBER      | RATE | NUMBER           | RATE   | NUMBER      | RATE |
| PHILIPPINES.....   | 14709                         | 23.7 | 936         | 1.5  | 73625            | 118.7  | 913         | 1.5  |
| NAT. CAP. REGION.. | 1744                          | 21.5 | 154         | 1.9  | 182              | 2.2    | 35          | 0.4  |
| 1ST DIST. MANILA.. | 550                           | 22.4 | 57          | 2.3  | 98               | 4.0    | 18          | 0.7  |
| 2ND DIST. MUN.     | 128                           | 12.2 | 15          | 1.4  | 10               | 1.0    | 5           | 0.5  |
| QUEZON CITY.....   | 389                           | 22.8 | 41          | 2.4  | 59               | 3.5    | 9           | 0.5  |
| 3RD DIST. MUN.     | 67                            | 7.9  | 10          | 1.2  | 8                | 0.9    | 0           | -    |
| CALOCAN CITY....   | 166                           | 21.3 | 14          | 1.8  | 3                | 0.4    | 0           | -    |
| 4TH DIST. MUN.     | 279                           | 31.1 | 15          | 1.7  | 0                | -      | 0           | -    |
| PASAY CITY.....    | 165                           | 43.9 | 2           | 0.5  | 4                | 1.1    | 3           | 0.8  |
| C.A.R.             | 196                           | 16.8 | 6           | 0.5  | 5309             | 454.1  | 31          | 2.7  |
| ABRA.....          | 30                            | 15.9 | 0           | -    | 9                | 4.8    | 1           | 0.5  |
| BENGUET.....       | 25                            | 8.1  | 3           | 1.0  | 19               | 6.1    | 2           | 0.6  |
| IFUGAO.....        | 36                            | 23.9 | 0           | -    | 2029             | 1346.8 | 7           | 4.6  |
| KALINGA-APAYAO...  | 23                            | 10.6 | 0           | -    | 3022             | 1395.2 | 18          | 8.3  |
| MT. PROVINCE.....  | 8                             | 6.7  | 0           | -    | 210              | 176.4  | 1           | 0.8  |
| BAGUIO CITY.....   | 74                            | 40.2 | 3           | 1.6  | 20               | 10.9   | 2           | 1.1  |
| REGION 1           | 708                           | 19.5 | 58          | 1.6  | 248              | 6.8    | 6           | 0.2  |
| ILOCOS NORTE.....  | 179                           | 46.3 | 4           | 1.0  | 58               | 15.0   | 3           | 0.8  |
| ILOCOS SUR.....    | 136                           | 25.6 | 7           | 1.3  | 40               | 7.5    | 1           | 0.2  |
| LA UNION.....      | 111                           | 19.8 | 10          | 1.8  | 8                | 1.4    | 1           | 0.2  |
| PANGASINAN.....    | 245                           | 13.5 | 33          | 1.8  | 131              | 7.2    | 0           | -    |
| DAGUPAN CITY.....  | 32                            | 25.5 | 3           | 2.4  | 10               | 8.0    | 1           | 0.8  |
| LAOAG CITY.....    | 0                             | -    | 0           | -    | 0                | -      | 0           | -    |
| SAN CARLOS CITY... | 5                             | 3.9  | 1           | 0.8  | 1                | 0.8    | 0           | -    |
| REGION 2           | 407                           | 17.0 | 38          | 1.6  | 16734            | 699.0  | 180         | 7.5  |
| BATANES.....       | 0                             | -    | 0           | -    | 25               | 163.0  | 0           | -    |
| CAGAYAN.....       | 266                           | 31.3 | 12          | 1.4  | 5985             | 705.3  | 51          | 6.0  |
| ISABELA.....       | 80                            | 7.2  | 18          | 1.6  | 7992             | 723.2  | 103         | 9.3  |
| NEIVA VIZCAYA..... | 4                             | 1.3  | 4           | 1.3  | 1206             | 391.6  | 13          | 4.2  |
| QUIRINO.....       | 57                            | 48.8 | 4           | 3.4  | 1526             | 1305.8 | 13          | 11.1 |
| REGION 3           | 1097                          | 17.3 | 79          | 1.2  | 1701             | 26.8   | 34          | 0.5  |
| BATAAN.....        | 167                           | 36.4 | 7           | 1.6  | 814              | 187.1  | 3           | 0.7  |
| BULACAN.....       | 183                           | 11.9 | 20          | 1.3  | 50               | 3.2    | 2           | 0.1  |
| NUEVA ECIJA.....   | 66                            | 6.4  | 6           | 0.6  | 144              | 13.9   | 4           | 0.4  |
| PAMPANGA.....      | 192                           | 14.5 | 16          | 1.2  | 38               | 2.9    | 0           | 0.0  |
| TARLAC.....        | 167                           | 19.0 | 10          | 1.1  | 199              | 21.5   | 2           | 0.2  |
| ZAMBALES.....      | 62                            | 16.4 | 6           | 1.6  | 33               | 8.7    | 14          | 3.7  |

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TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| A R E A             | INFECTIOUS HEPATITIS<br>(070) |        |             |      | MALARIA<br>(084) |        |             |      |
|---------------------|-------------------------------|--------|-------------|------|------------------|--------|-------------|------|
|                     | C A S E S                     |        | D E A T H S |      | C A S E S        |        | D E A T H S |      |
|                     | NUMBER                        | RATE   | NUMBER      | RATE | NUMBER           | RATE   | NUMBER      | RATE |
| ANGELES CITY.....   | 186                           | 76.9   | 1           | 0.4  | 12               | 5.0    | 0           | -    |
| CABANATUAN CITY.... | 14                            | 7.3    | 6           | 3.1  | 2                | 1.0    | 2           | 1.0  |
| OLONGAPO CITY.....  | 54                            | 27.3   | 6           | 3.0  | 372              | 187.8  | 7           | 3.5  |
| PALAYAN CITY.....   | 3                             | 13.8   | 0           | -    | 46               | 211.8  | 0           | -    |
| SAN JOSE CITY.....  | 3                             | 3.3    | 1           | 1.1  | 1                | 1.1    | 0           | -    |
| REGION 4            | 2905                          | 34.4   | 113         | 1.4  | 19667            | 232.7  | 254         | 3.0  |
| AURORA.....         | 14                            | 9.8    | 1           | 0.7  | 252              | 176.8  | 19          | 13.3 |
| EATANGAS.....       | 1022                          | 88.3   | 6           | 0.5  | 88               | 7.6    | 1           | 0.1  |
| CAVITE.....         | 147                           | 14.1   | 5           | 0.5  | 41               | 3.9    | 2           | 0.2  |
| LAGUNA.....         | 84                            | 6.8    | 13          | 1.1  | 180              | 14.6   | 11          | 0.9  |
| MARINDUQUE.....     | 24                            | 12.6   | 7           | 3.7  | 439              | 231.1  | 3           | 1.6  |
| MINDORO OCC.....    | 30                            | 10.4   | 4           | 1.4  | 6712             | 2325.8 | 18          | 6.2  |
| MINDORO OR.....     | 42                            | 7.5    | 17          | 3.0  | 540              | 95.9   | 5           | 0.9  |
| PALAWAN.....        | 44                            | 9.9    | 4           | 0.9  | 5369             | 1205.5 | 105         | 23.6 |
| QUEZON.....         | 148                           | 11.8   | 31          | 2.5  | 3813             | 313.1  | 53          | 4.2  |
| RIZAL.....          | 46                            | 4.6    | 8           | 0.8  | 62               | 6.2    | 6           | 0.6  |
| ROMELON.....        | 150                           | 64.4   | 6           | 2.6  | 16               | 6.9    | 0           | -    |
| BATANGAS CITY.....  | 32                            | 16.9   | 5           | 2.6  | 0                | -      | 0           | -    |
| CAVITE CITY.....    | 12                            | 12.8   | 0           | -    | 0                | -      | 0           | -    |
| LIPA CITY.....      | 0                             | 0.0    | 0           | -    | 0                | -      | 0           | -    |
| LOCENA CITY.....    | 18                            | 11.7   | 6           | 3.9  | 23               | 15.0   | 12          | 7.8  |
| PUERTO PRINCESA.... | 1066                          | 1158.5 | 3           | 3.3  | 2029             | 2205.0 | 18          | 19.6 |
| SAN PABLO CITY..... | 20                            | 12.1   | 2           | 1.2  | 0                | -      | 0           | -    |
| TAGAYTAY CITY.....  | 3                             | -      | 0           | -    | 0                | -      | 0           | -    |
| TRECE MARTIRES..... | 3                             | 18.7   | 0           | -    | 3                | 18.7   | 1           | 6.2  |
| REGION 5            | 791                           | 19.8   | 46          | 1.1  | 2096             | 52.4   | 16          | 0.4  |
| ALBAY.....          | 205                           | 25.6   | 5           | 0.6  | 11               | 1.4    | 1           | 0.1  |
| CAMARINES NORTE.... | 69                            | 17.2   | 11          | 2.7  | 951              | 237.7  | 9           | 2.2  |
| CAMARINES SUR.....  | 132                           | 11.8   | 9           | 0.8  | 1091             | 97.9   | 3           | 0.3  |
| CATANDUANES.....    | 19                            | 9.9    | 2           | 1.0  | 0                | -      | 0           | -    |
| MASBATE.....        | 357                           | 54.9   | 4           | 0.7  | 6                | 1.0    | 1           | 0.2  |
| SORSOGON.....       | 10                            | 1.9    | 8           | 1.5  | 10               | 1.9    | 1           | 0.2  |
| IRIGA CITY.....     | 0                             | -      | 0           | -    | 0                | -      | 0           | -    |
| LEGASPI CITY.....   | 13                            | 10.5   | 5           | 4.0  | 25               | 20.2   | 0           | -    |
| NAGA CITY.....      | 6                             | 4.3    | 2           | 1.4  | 2                | 1.4    | 1           | 0.7  |
| REGION 6            | 76                            | 1.4    | 7           | 0.1  | 63               | 1.1    | 12          | 0.2  |
| AKLAN.....          | 9                             | 2.3    | 0           | -    | 8                | 2.1    | 2           | 0.5  |
| ANTIQUE.....        | 9                             | 2.2    | 2           | 0.5  | 0                | -      | 0           | -    |
| CAPIZ.....          | 2                             | 0.4    | 1           | 0.2  | 1                | 0.2    | 0           | -    |
| ILOILO.....         | 21                            | 1.4    | 3           | 0.2  | 15               | 1.0    | 0           | -    |
| NEGROS OCC.....     | 4                             | 0.3    | 0           | -    | 10               | 0.7    | 1           | 0.1  |

TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| A R E A             | INFECTIOUS HEPATITIS<br>(070) |      |             |      | MALARIA<br>(084) |       |             |      |
|---------------------|-------------------------------|------|-------------|------|------------------|-------|-------------|------|
|                     | C A S E S                     |      | D E A T H S |      | C A S E S        |       | D E A T H S |      |
|                     | NUMBER                        | RATE | NUMBER      | RATE | NUMBER           | RATE  | NUMBER      | RATE |
| RACOLOD CITY.....   | 184                           | 49.3 | 14          | 3.8  | 0                | -     | 0           | -    |
| BAGO CITY.....      | 4                             | 3.2  | 1           | 0.8  | 0                | -     | 0           | -    |
| CADIZ CITY.....     | 17                            | 13.9 | 2           | 1.6  | 0                | -     | 0           | -    |
| ILOILO CITY.....    | 231                           | 72.8 | 11          | 3.5  | 0                | -     | 0           | -    |
| LA CARLOTA CITY.... | 26                            | 45.0 | 0           | -    | 0                | -     | 0           | -    |
| ROXAS CITY.....     | 51                            | 38.8 | 3           | 2.3  | 0                | -     | 0           | -    |
| SAN CARLOS CITY.... | 8                             | 7.4  | 4           | 3.7  | 0                | -     | 0           | -    |
| SILAY CITY.....     | 23                            | 22.2 | 3           | 2.9  | 0                | -     | 0           | -    |
| REGION 7            | 904                           | 18.3 | 50          | 1.1  | 105              | 2.2   | 7           | 0.1  |
| BOHOL.....          | 32                            | 3.5  | 9           | 1.0  | 0                | -     | 5           | 0.5  |
| CEBU.....           | 289                           | 18.6 | 6           | 0.4  | 7                | 0.5   | 1           | 0.1  |
| NEGROS OR.....      | 25                            | 3.3  | 5           | 0.7  | 96               | 12.5  | 0           | -    |
| SIQUIJOR.....       | 38                            | 50.2 | 0           | -    | 0                | -     | 0           | -    |
| BAIS CITY.....      | 16                            | 26.2 | 0           | -    | 0                | -     | 0           | -    |
| CANLAON CITY.....   | 0                             | -    | 0           | -    | 0                | -     | 0           | -    |
| CEBU CITY.....      | 422                           | 68.1 | 16          | 2.6  | 0                | -     | 0           | -    |
| DANAO CITY.....     | 6                             | 8.0  | 1           | 1.3  | 0                | -     | 0           | -    |
| DUMAGUETE CITY....  | 23                            | 28.3 | 9           | 11.1 | 0                | -     | 0           | -    |
| LAPU-LAPU CITY....  | 6                             | 4.0  | 1           | 0.7  | 0                | -     | 0           | -    |
| MANDAWE CITY.....   | 4                             | 2.2  | 1           | 0.5  | 0                | -     | 0           | -    |
| TAGBILARAN CITY.... | 22                            | 38.6 | 2           | 3.5  | 2                | 3.5   | 1           | 1.8  |
| TOLEDO CITY.....    | 21                            | 17.1 | 0           | -    | 0                | -     | 0           | -    |
| REGION 8            | 705                           | 22.6 | 49          | 1.6  | 229              | 7.3   | 2           | 0.1  |
| LEYTE DEL NORTE...  | 417                           | 33.4 | 22          | 1.8  | 3                | 0.2   | 1           | 0.1  |
| LEYTE DEL SUR.....  | 189                           | 57.4 | 12          | 3.6  | 29               | 8.8   | 0           | -    |
| EASTERN SAMAR.....  | 49                            | 14.5 | 2           | 0.6  | 159              | 50.2  | 1           | 0.3  |
| NORTHERN SAMAR....  | 12                            | 3.1  | 2           | 0.5  | 1                | 0.3   | 0           | -    |
| WESTERN SAMAR.....  | 0                             | -    | 2           | 0.5  | 27               | 6.3   | 0           | -    |
| CALBAYOG CITY.....  | 9                             | 7.6  | 2           | 1.7  | 0                | -     | 0           | -    |
| ORMOC CITY.....     | 21                            | 15.8 | 1           | 0.8  | 0                | -     | 0           | -    |
| TACLOBAN CITY.....  | 8                             | 5.7  | 6           | 4.3  | 0                | -     | 0           | -    |
| REGION 9            | 744                           | 23.0 | 56          | 1.7  | 3203             | 99.2  | 96          | 3.0  |
| BASILAN.....        | 12                            | 4.9  | 4           | 1.6  | 110              | 45.1  | 13          | 5.3  |
| SULU.....           | 27                            | 5.6  | 5           | 1.0  | 730              | 152.0 | 37          | 7.7  |
| TAWI-TAWI.....      | 6                             | 2.6  | 0           | -    | 381              | 163.3 | 4           | 1.7  |
| ZAMB. DEL NORTE...  | 64                            | 11.6 | 5           | 0.9  | 27               | 4.9   | 16          | 2.9  |
| ZAMB. DEL SUR.....  | 359                           | 35.3 | 19          | 1.9  | 1153             | 113.2 | 11          | 1.1  |

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TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| A R E A             | INFECTIOUS HEPATITIS<br>(070) |       |             |      | MALARIA<br>(084) |         |             |      |
|---------------------|-------------------------------|-------|-------------|------|------------------|---------|-------------|------|
|                     | C A S E S                     |       | D E A T H S |      | C A S E S        |         | D E A T H S |      |
|                     | NUMBER                        | RATE  | NUMBER      | RATE | NUMBER           | RATE    | NUMBER      | RATE |
| DAPITAN CITY.....   | 27                            | 43.8  | 2           | 3.2  | 8                | 13.0    | 0           | -    |
| DIPOLOG CITY.....   | 10                            | 12.3  | 1           | 1.2  | 42               | 51.5    | 1           | 1.2  |
| PAGADIAN CITY.....  | 109                           | 100.7 | 3           | 2.8  | 1                | 0.9     | 1           | 0.9  |
| ZAMBOANGA CITY..... | 130                           | 28.8  | 17          | 3.8  | 751              | 166.3   | 13          | 2.9  |
| REGION 10           | 1142                          | 31.8  | 73          | 2.0  | 12513            | 348.7   | 122         | 3.4  |
| AGUSAN DEL NORTE..  | 188                           | 77.3  | 1           | 0.4  | 675              | 277.4   | 14          | 5.8  |
| AGUSAN DEL SUR....  | 51                            | 11.9  | 1           | 0.2  | 1238             | 237.7   | 22          | 5.1  |
| BUKIDNON.....       | 237                           | 27.5  | 15          | 1.7  | 1125             | 130.4   | 14          | 1.6  |
| CAMIGUIN.....       | 60                            | 51.2  | 3           | 4.6  | 27               | 41.1    | 0           | -    |
| MISAMIS OCC.....    | 43                            | 17.7  | 7           | 2.9  | 6                | 2.5     | 1           | 0.4  |
| MISAMIS OR.....     | 176                           | 38.9  | 10          | 2.2  | 380              | 83.9    | 7           | 1.5  |
| SURIGAO DEL NORTE.. | 75                            | 22.5  | 8           | 2.4  | 63               | 18.9    | 4           | 1.2  |
| BUTUAN CITY.....    | 13                            | 5.6   | 10          | 4.3  | 215              | 92.3    | 21          | 9.0  |
| CAGAYAN DE ORO....  | 216                           | 62.4  | 5           | 1.4  | 191              | 55.2    | 12          | 3.5  |
| GINGOG CITY.....    | 3                             | 3.5   | 2           | 2.4  | 8567             | 10124.7 | 23          | 27.2 |
| OROGUETA CITY.....  | 22                            | 41.0  | 2           | 3.7  | 0                | 0.0     | 0           | 0.0  |
| OZAMIS CITY.....    | 28                            | 30.0  | 4           | 4.3  | 6                | 6.4     | 1           | 1.1  |
| SURIGAO CITY.....   | 30                            | 29.3  | 5           | 4.9  | 20               | 19.5    | 3           | 2.9  |
| TANGUB CITY.....    | 0                             | -     | 0           | -    | 0                | -       | 0           | -    |
| REGION 11           | 1365                          | 30.4  | 81          | 1.8  | 8616             | 189.0   | 97          | 2.1  |
| COTABATO SOUTH....  | 290                           | 34.5  | 11          | 1.3  | 247              | 29.3    | 2           | 0.2  |
| DAVAO DEL NORTE.... | 38                            | 9.4   | 19          | 4.7  | 6610             | 1636.1  | 28          | 6.9  |
| DAVAO ORIENTAL....  | 27                            | 2.5   | 2           | 0.2  | 152              | 14.1    | 7           | 0.6  |
| DAVAO DEL SUR....   | 148                           | 22.8  | 6           | 0.8  | 144              | 22.2    | 1           | 0.2  |
| SURIGAO DEL SUR.... | 573                           | 123.9 | 12          | 2.6  | 1191             | 257.6   | 35          | 7.6  |
| DAVAO CITY.....     | 259                           | 29.9  | 26          | 3.0  | 267              | 30.8    | 21          | 2.4  |
| GEN. SANTOS CITY..  | 50                            | 19.5  | 5           | 2.0  | 5                | 2.0     | 3           | 1.2  |
| REGION 12           | 602                           | 18.5  | 28          | 0.9  | 2974             | 91.6    | 29          | 0.9  |
| COTABATO NORTH....  | 169                           | 21.6  | 1           | 0.1  | 1593             | 203.7   | 1           | 0.1  |
| LANAO DEL NORTE.... | 185                           | 46.6  | 5           | 1.3  | 218              | 54.9    | 2           | 0.5  |
| LANAO DEL SUR....   | 26                            | 5.0   | 0           | -    | 160              | 30.8    | 3           | 0.6  |
| MAGUINDANAO.....    | 57                            | 8.9   | 1           | 0.2  | 496              | 76.9    | 4           | 0.6  |
| SULTAN KUDARAT....  | 68                            | 15.2  | 7           | 1.6  | 415              | 93.0    | 6           | 1.3  |
| COTABATO CITY.....  | 45                            | 34.6  | 2           | 1.5  | 14               | 10.8    | 5           | 3.8  |
| ILIGAN CITY.....    | 48                            | 20.7  | 10          | 4.3  | 75               | 32.8    | 8           | 3.5  |
| MARAWI CITY.....    | 4                             | 4.3   | 2           | 2.1  | 2                | 2.1     | 0           | -    |

TABLE 15

**NOTIFIABLE DISEASES: REPORTED CASES & DEATHS**  
**BY HEALTH REGION, PROVINCE & CITY**  
**No. & Rate/100,000 Pop.**  
**PHILIPPINES**  
**1990**

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| A R E A            | SYPHILIS<br>(090-097) |      |             |      | GONOCOCCAL INFECTION<br>(098) |      |             |      |
|--------------------|-----------------------|------|-------------|------|-------------------------------|------|-------------|------|
|                    | C A S E S             |      | D E A T H S |      | C A S E S                     |      | D E A T H S |      |
|                    | NUMBER                | RATE | NUMBER      | RATE | NUMBER                        | RATE | NUMBER      | RATE |
| PHILIPPINES.....   | 151                   | 0.2  | 3           | 0.00 | 6374                          | 10.3 | 0           | -    |
| NAT. CAP. REGION.. | 16                    | 0.2  | 1           | 0.01 | 708                           | 8.8  | 0           | -    |
| 1ST DIST. MANILA.. | 9                     | 0.4  | 0           | -    | 536                           | 21.8 | 0           | -    |
| 2ND DIST. MUN.     | 2                     | 0.2  | 0           | -    | 18                            | 1.7  | 0           | -    |
| QUEZON CITY.....   | 5                     | 0.3  | 1           | 0.1  | 111                           | 6.5  | 0           | -    |
| 3RD DIST. MUN.     | 0                     | -    | 0           | -    | 14                            | 1.7  | 0           | -    |
| CALOOCAN CITY...   | 0                     | -    | 0           | -    | 4                             | 0.5  | 0           | -    |
| 4TH DIST. MUN.     | 0                     | -    | 0           | -    | 26                            | 2.9  | 0           | -    |
| PASAY CITY.....    | 0                     | -    | 0           | -    | 0                             | -    | 0           | -    |
| C.A.R.             | 9                     | 0.8  | 0           | -    | 1                             | 0.1  | 0           | -    |
| ABRA.....          | 0                     | -    | 0           | -    | 0                             | -    | 0           | -    |
| BENGUET.....       | 0                     | -    | 0           | -    | 0                             | -    | 0           | -    |
| IFUGAO.....        | 0                     | -    | 0           | -    | 1                             | 0.7  | 0           | -    |
| KALINGA-APAYAO...  | 0                     | -    | 0           | -    | 0                             | -    | 0           | -    |
| MT. PROVINCE.....  | 0                     | -    | 0           | -    | 0                             | -    | 0           | -    |
| BAGUIO CITY.....   | 9                     | 4.9  | 0           | -    | 0                             | -    | 0           | -    |
| REGION 1           | 4                     | 0.1  | 0           | -    | 11                            | 0.3  | 0           | -    |
| ILOCOS NORTE.....  | 0                     | -    | 0           | -    | 0                             | -    | 0           | -    |
| ILOCOS SUR.....    | 0                     | -    | 0           | -    | 0                             | -    | 0           | -    |
| LA UNION.....      | 1                     | 0.2  | 0           | -    | 2                             | 0.4  | 0           | -    |
| PANGASINAN.....    | 3                     | 0.2  | 0           | -    | 9                             | 0.5  | 0           | -    |
| DAVUPAN CITY.....  | 0                     | -    | 0           | -    | 0                             | -    | 0           | -    |
| LAOAG CITY.....    | 0                     | -    | 0           | -    | 0                             | -    | 0           | -    |
| SAN CARLOS CITY... | 0                     | -    | 0           | -    | 0                             | -    | 0           | -    |
| REGION 2           | 0                     | -    | 0           | -    | 0                             | -    | 0           | -    |
| BATANES.....       | 0                     | -    | 0           | -    | 0                             | -    | 0           | -    |
| CAGAYAN.....       | 0                     | -    | 0           | -    | 0                             | -    | 0           | -    |
| ISABELA.....       | 0                     | -    | 0           | -    | 0                             | -    | 0           | -    |
| NEUVA VIZCAYA..... | 0                     | -    | 0           | -    | 0                             | -    | 0           | -    |
| QUIRINO.....       | 0                     | -    | 0           | -    | 0                             | -    | 0           | -    |
| REGION 3           | 3                     | 0.05 | 0           | -    | 2051                          | 32.3 | 0           | -    |
| BATAAN.....        | 0                     | -    | 0           | -    | 12                            | 2.8  | 0           | -    |
| BULACAN.....       | 0                     | -    | 0           | -    | 2                             | 0.1  | 0           | -    |
| NUEVA ECIJA.....   | 0                     | -    | 0           | -    | 0                             | -    | 0           | -    |
| PAMPANGA.....      | 1                     | 0.1  | 0           | -    | 30                            | 2.3  | 0           | -    |
| TARLAC.....        | 2                     | 0.2  | 0           | -    | 71                            | 8.1  | 0           | -    |
| ZAMBALES.....      | 0                     | -    | 0           | -    | 1                             | 0.3  | 0           | -    |

TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| A R E A             | SYPHILIS<br>(090-097) |      |             |      | GONOCOCCAL INFECTION<br>(098) |       |             |      |
|---------------------|-----------------------|------|-------------|------|-------------------------------|-------|-------------|------|
|                     | C A S E S             |      | D E A T H S |      | C A S E S                     |       | D E A T H S |      |
|                     | NUMBER                | RATE | NUMBER      | RATE | NUMBER                        | RATE  | NUMBER      | RATE |
| ANGELES CITY.....   | 0                     | -    | 0           | -    | 426                           | 176.1 | 0           | -    |
| CABANATUAN CITY.... | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| OLONGAPO CITY.....  | 0                     | -    | 0           | -    | 1509                          | 761.9 | 0           | -    |
| PALAYAN CITY.....   | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| SAN JOSE CITY.....  | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| REGION 4            | 61                    | 0.7  | 0           | -    | 168                           | 2.0   | 0           | -    |
| AURORA.....         | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| BATANGAS.....       | 0                     | -    | 0           | -    | 13                            | 1.1   | 0           | -    |
| CAVITE.....         | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| LAGUNA.....         | 49                    | 4.0  | 0           | -    | 5                             | 0.4   | 0           | -    |
| MARINDUQUE.....     | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| MINDORO OCC.....    | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| MINDORO OR.....     | 6                     | 1.1  | 0           | -    | 10                            | 1.8   | 0           | -    |
| PALAWAN.....        | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| QUEZON.....         | 3                     | 0.2  | 0           | -    | 6                             | 0.5   | 0           | -    |
| RIZAL.....          | 0                     | -    | 0           | -    | 16                            | 1.6   | 0           | -    |
| ROMBLON.....        | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| BATANGAS CITY.....  | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| CAVITE CITY.....    | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| LIPA CITY.....      | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| LUCENA CITY.....    | 3                     | 2.0  | 0           | -    | 3                             | 2.0   | 0           | -    |
| PUERTO PRINCESA.... | 0                     | -    | 0           | -    | 115                           | 125.0 | 0           | -    |
| SAN PABLO CITY..... | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| TAGAYTAY CITY.....  | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| TRECE MARTIRES..... | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| REGION 5            | 0                     | -    | 0           | -    | 27                            | 0.7   | 0           | -    |
| ALBAY.....          | 0                     | -    | 0           | -    | 4                             | 0.5   | 0           | -    |
| CAMARINES NORTE.... | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| CAMARINES SUR.....  | 0                     | -    | 0           | -    | 14                            | 1.3   | 0           | -    |
| CATANDUANES.....    | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| MASBATE.....        | 0                     | -    | 0           | -    | 3                             | 0.5   | 0           | -    |
| SORSOGON.....       | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| IRIGA CITY.....     | 0                     | -    | 0           | -    | 3                             | 3.6   | 0           | -    |
| LEGASPI CITY.....   | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| NAGA CITY.....      | 0                     | -    | 0           | -    | 3                             | 2.2   | 0           | -    |
| REGION 6            | 16                    | 0.3  | 0           | -    | 1025                          | 18.6  | 0           | -    |
| AKLAN.....          | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| ANTIQUE.....        | 0                     | -    | 0           | -    | 73                            | 17.6  | 0           | -    |
| CAPIZ.....          | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| ILOILO.....         | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| NEGROS OCC.....     | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |

TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| A R E A             | SYPHILIS<br>(080-087) |      |             |      | GONOCOCCAL INFECTION<br>(098) |       |             |      |
|---------------------|-----------------------|------|-------------|------|-------------------------------|-------|-------------|------|
|                     | C A S E S             |      | D E A T H S |      | C A S E S                     |       | D E A T H S |      |
|                     | NUMBER                | RATE | NUMBER      | RATE | NUMBER                        | RATE  | NUMBER      | RATE |
| BACOLOD CITY.....   | 14                    | 3.8  | 0           | -    | 270                           | 72.4  | 0           | -    |
| BAGO CITY.....      | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| CADIZ CITY.....     | 0                     | -    | 0           | -    | 69                            | 56.2  | 0           | -    |
| ILOILO CITY.....    | 1                     | 0.3  | 0           | -    | 41                            | 12.9  | 0           | -    |
| LA CARLOTA CITY.... | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| ROXAS CITY.....     | 1                     | 0.8  | 0           | -    | 572                           | 434.7 | 0           | -    |
| SAN CARLOS CITY.... | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| SILAY CITY.....     | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| REGION 7            | 36                    | 0.8  | 1           | 0.02 | 339                           | 7.2   | 0           | -    |
| BOHOL.....          | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| CEBU.....           | 0                     | -    | 0           | -    | 10                            | 0.6   | 0           | -    |
| NEGROS OR.....      | 0                     | -    | 0           | -    | 2                             | 0.3   | 0           | -    |
| SIQUIJOR.....       | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| BAIS CITY.....      | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| CANLAON CITY.....   | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| CEBU CITY.....      | 36                    | 5.8  | 1           | 0.2  | 318                           | 51.3  | 0           | -    |
| DANAO CITY.....     | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| DUMAGUETE CITY....  | 0                     | -    | 0           | -    | 9                             | 11.1  | 0           | -    |
| LAPU-LAPU CITY....  | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| MANDAWE CITY.....   | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| TAGBILARAN CITY.... | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| TOLEDO CITY.....    | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| REGION 8            | 0                     | -    | 0           | -    | 83                            | 2.7   | 0           | -    |
| LEYTE DEL NORTE...  | 0                     | -    | 0           | -    | 16                            | 1.3   | 0           | -    |
| LEYTE DEL SUR.....  | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| EASTERN SAMAR.....  | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| NORTHERN SAMAR....  | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| WESTERN SAMAR.....  | 0                     | -    | 0           | -    | 67                            | 15.7  | 0           | -    |
| CALBAYOG CITY.....  | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| ORMOC CITY.....     | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| TACLOBAN CITY.....  | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| REGION 9            | 0                     | -    | 0           | -    | 395                           | 12.2  | 0           | -    |
| BASILAN.....        | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| SULU.....           | 0                     | -    | 0           | -    | 9                             | -     | 0           | -    |
| TAWI-TAWI.....      | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| ZAMB. DEL NORTE...  | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| ZAMB. DEL SUR.....  | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |

TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| A R E A              | SYPHILIS<br>(090-097) |      |             |      | GONOCOCCAL INFECTION<br>(098) |       |             |      |
|----------------------|-----------------------|------|-------------|------|-------------------------------|-------|-------------|------|
|                      | C A S E S             |      | D E A T H S |      | C A S E S                     |       | D E A T H S |      |
|                      | NUMBER                | RATE | NUMBER      | RATE | NUMBER                        | RATE  | NUMBER      | RATE |
| DAPITAN CITY.....    | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| DIPOLOG CITY.....    | 0                     | -    | 0           | -    | 41                            | 50.3  | 0           | -    |
| PAGADIAN CITY.....   | 0                     | -    | 0           | -    | 93                            | 90.5  | 0           | -    |
| ZAMBOANGA CITY.....  | 0                     | -    | 0           | -    | 256                           | 56.7  | 0           | -    |
| REGION 10            | 4                     | 0.1  | 1           | 0.03 | 280                           | 7.8   | 0           | -    |
| AGUSAN DEL NORTE..   | 0                     | -    | 0           | -    | 1                             | 0.4   | 0           | -    |
| AGUSAN DEL SUR.....  | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| BUKIDNON.....        | 0                     | -    | 0           | -    | 4                             | 0.5   | 0           | -    |
| CAMIGUIN.....        | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| MISAMIS OCC.....     | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| MISAMIS OR.....      | 0                     | -    | 1           | 0.2  | 1                             | 0.2   | 0           | -    |
| SURIGAO DEL NORTE..  | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| BUTUAN CITY.....     | 0                     | -    | 0           | -    | 88                            | 37.8  | 0           | -    |
| CAGAYAN DE ORO.....  | 2                     | 0.9  | 0           | -    | 165                           | 47.6  | 0           | -    |
| GINGOOG CITY.....    | 1                     | 1.2  | 0           | -    | 3                             | 3.5   | 0           | -    |
| OGSQUISTA CITY.....  | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| OZAMIS CITY.....     | 0                     | -    | 0           | -    | 18                            | 19.3  | 0           | -    |
| SURIGAO CITY.....    | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| TAGUB CITY.....      | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| REGION 11            | 2                     | 0.04 | 0           | -    | 1284                          | 28.2  | 0           | -    |
| COTABATO SOUTH.....  | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| DAVAO DEL NORTE..... | 1                     | 0.2  | 0           | -    | 714                           | 176.7 | 0           | -    |
| DAVAO ORIENTAL.....  | 0                     | -    | 0           | -    | 1                             | 0.1   | 0           | -    |
| DAVAO DEL SUR.....   | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| SURIGAO DEL SUR..... | 0                     | -    | 0           | -    | 91                            | 19.7  | 0           | -    |
| DAVAO CITY.....      | 1                     | 0.1  | 0           | -    | 478                           | 55.1  | 0           | -    |
| REGION 12            | 0                     | -    | 0           | -    | 1                             | 0.03  | 0           | -    |
| COTABATO NORTH.....  | 0                     | -    | 0           | -    | 1                             | 0.1   | 0           | -    |
| LANAO DEL NORTE..... | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| LANAO DEL SUR.....   | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| MAGUINDANAO.....     | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| SULTAN KUDARAT.....  | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| COTABATO CITY.....   | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| ILIGAN CITY.....     | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |
| MARAWI CITY.....     | 0                     | -    | 0           | -    | 0                             | -     | 0           | -    |

TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| AREA               | SCHISTOSOMIASIS<br>(120) |      |        |      | FILARIASIS<br>(125) |      |        |      |
|--------------------|--------------------------|------|--------|------|---------------------|------|--------|------|
|                    | CASES                    |      | DEATHS |      | CASES               |      | DEATHS |      |
|                    | NUMBER                   | RATE | NUMBER | RATE | NUMBER              | RATE | NUMBER | RATE |
| PHILIPPINES.....   | 14781                    | 23.8 | 272    | 0.4  | 286                 | 0.5  | 1      | 0.00 |
| NAT. CAP. REGION.. | 57                       | 0.7  | 13     | 0.2  | 0                   | -    | 0      | -    |
| 1ST DIST. MANILA.. | 14                       | 0.6  | 6      | 0.2  | 0                   | -    | 0      | -    |
| 2ND DIST. MUN..... | 10                       | 1.0  | 2      | 0.2  | 0                   | -    | 0      | -    |
| QUEZON CITY.....   | 15                       | 0.9  | 3      | 0.2  | 0                   | -    | 0      | -    |
| 3RD DIST. MUN..... | 9                        | 1.1  | 0      | -    | 0                   | -    | 0      | -    |
| CALOOCAN CITY..... | 0                        | -    | 0      | -    | 0                   | -    | 0      | -    |
| 4TH DIST. MUN..... | 6                        | 0.7  | 1      | 0.1  | 0                   | -    | 0      | -    |
| PASAY CITY.....    | 3                        | 0.8  | 1      | 0.3  | 0                   | -    | 0      | -    |
| C.A.R.             | 1                        | 0.1  | 1      | 0.1  | 0                   | -    | 0      | -    |
| ABRA.....          | 0                        | -    | 0      | -    | 0                   | -    | 0      | -    |
| BENGUET.....       | 0                        | -    | 0      | -    | 0                   | -    | 0      | -    |
| IFUGAO.....        | 0                        | -    | 0      | -    | 0                   | -    | 0      | -    |
| KALINGA-APAYAO.... | 0                        | -    | 0      | -    | 0                   | -    | 0      | -    |
| MT. PROVINCE.....  | 0                        | -    | 0      | -    | 0                   | -    | 0      | -    |
| BAGUIO CITY.....   | 1                        | 0.5  | 1      | 0.5  | 0                   | -    | 0      | -    |
| REGION 1           | 1                        | 0.03 | 1      | 0.03 | 11                  | 0.3  | 0      | -    |
| ILOCOS NORTE.....  | 1                        | 0.3  | 1      | 0.3  | 1                   | 0.3  | 0      | -    |
| ILOCOS SUR.....    | 0                        | -    | 0      | -    | 9                   | 1.7  | 0      | -    |
| LA UNION.....      | 0                        | -    | 0      | -    | 0                   | -    | 0      | -    |
| PANGASINAN.....    | 0                        | -    | 0      | -    | 1                   | 0.1  | 0      | -    |
| DAGUPAN CITY.....  | 0                        | -    | 0      | -    | 0                   | -    | 0      | -    |
| LAOAG CITY.....    | 0                        | -    | 0      | -    | 0                   | -    | 0      | -    |
| SAN CARLOS CITY... | 0                        | -    | 0      | -    | 0                   | -    | 0      | -    |
| REGION 2           | 0                        | -    | 0      | -    | 2                   | 0.1  | 1      | 0.04 |
| BATANES.....       | 0                        | -    | 0      | -    | 0                   | -    | 0      | -    |
| CAGAYAN.....       | 0                        | -    | 0      | -    | 0                   | -    | 0      | -    |
| ISABELA.....       | 0                        | -    | 0      | -    | 2                   | 0.2  | 1      | 0.1  |
| NEUVA VIZCAYA..... | 0                        | -    | 0      | -    | 0                   | -    | 0      | -    |
| QUIRINO.....       | 0                        | -    | 0      | -    | 0                   | -    | 0      | -    |
| REGION 3           | 11                       | 0.2  | 6      | 0.1  | 8                   | 0.1  | 0      | -    |
| BATAAN.....        | 0                        | -    | 0      | -    | 0                   | -    | 0      | -    |
| BULACAN.....       | 3                        | 0.2  | 2      | 0.1  | 0                   | -    | 0      | -    |
| NUEVA ECIJA.....   | 4                        | 0.4  | 2      | 0.2  | 0                   | -    | 0      | -    |
| PAMPANGA.....      | 0                        | -    | 0      | -    | 0                   | -    | 0      | -    |
| TARLAC.....        | 0                        | -    | 0      | -    | 0                   | -    | 0      | -    |
| ZAMBALES.....      | 2                        | 0.5  | 1      | 0.3  | 0                   | -    | 0      | -    |

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TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| A R E A              | SCHISTOSOMIASIS<br>(120) |       |             |      | FILARIASIS<br>(125) |      |             |      |
|----------------------|--------------------------|-------|-------------|------|---------------------|------|-------------|------|
|                      | C A S E S                |       | D E A T H S |      | C A S E S           |      | D E A T H S |      |
|                      | NUMBER                   | RATE  | NUMBER      | RATE | NUMBER              | RATE | NUMBER      | RATE |
| ANGELES CITY.....    | 0                        | -     | 0           | -    | 8                   | 3.3  | 0           | -    |
| CABANATUAN CITY....  | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| OLONGAPO CITY.....   | 2                        | 1.0   | 1           | 0.5  | 0                   | -    | 0           | -    |
| PALAYAN CITY.....    | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| SAN JOSE CITY.....   | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| REGION 4             | 956                      | 11.3  | 11          | 0.1  | 1                   | 0.01 | 0           | -    |
| AURORA.....          | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| BATANGAS.....        | 2                        | 0.2   | 1           | 0.1  | 0                   | -    | 0           | -    |
| CAVITE.....          | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| LAGUNA.....          | 2                        | 0.2   | 1           | 0.1  | 0                   | -    | 0           | -    |
| MARINDUQUE.....      | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| MINDORO OCC.....     | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| MINDORO OR.....      | 945                      | 167.8 | 5           | 0.9  | 0                   | -    | 0           | -    |
| PALAWAN.....         | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| QUEZON.....          | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| RIZAL.....           | 3                        | 0.3   | 1           | 0.1  | 1                   | 0.1  | 0           | -    |
| ROMELON.....         | 4                        | 1.7   | 3           | 1.3  | 0                   | -    | 0           | -    |
| BATANGAS CITY.....   | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| CAVITE CITY.....     | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| LIPA CITY.....       | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| LUCENA CITY.....     | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| PUERTO PRINCESA..... | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| SAN PABLO CITY.....  | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| TAGAYTAY CITY.....   | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| TRECE MARTIRES.....  | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| REGION 5             | 10                       | 0.2   | 7           | 0.2  | 23                  | 0.6  | 0           | -    |
| ALBAY.....           | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| CAMARINES NORTE....  | 0                        | -     | 0           | -    | 3                   | 0.7  | 0           | -    |
| CAMARINES SUR.....   | 1                        | 0.1   | 1           | 0.1  | 0                   | -    | 0           | -    |
| CATANDUANES.....     | 1                        | 0.5   | 1           | 0.5  | 0                   | -    | 0           | -    |
| MASBATE.....         | 2                        | 0.3   | 1           | 0.2  | 0                   | -    | 0           | -    |
| SORSOGON.....        | 5                        | 0.9   | 3           | 0.6  | 20                  | 3.7  | 0           | -    |
| IRIGA CITY.....      | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| LEGASPI CITY.....    | 1                        | 0.8   | 1           | 0.8  | 0                   | -    | 0           | -    |
| NAGA CITY.....       | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| REGION 6             | 21                       | 0.4   | 8           | 0.1  | 2                   | 0.04 | 0           | -    |
| AKLAN.....           | 6                        | 1.5   | 4           | 1.0  | 0                   | -    | 0           | -    |
| ANTIQUE.....         | 1                        | 0.2   | 1           | 0.2  | 0                   | -    | 0           | -    |
| CAPIZ.....           | 3                        | 0.6   | 2           | 0.4  | 0                   | -    | 0           | -    |
| ILOILO.....          | 0                        | -     | 0           | -    | 2                   | 0.1  | 0           | -    |
| NEGIROS OCC.....     | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |

TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| A R E A              | SCHISTOSOMIASIS<br>(120) |       |             |      | FILARIASIS<br>(125) |      |             |      |
|----------------------|--------------------------|-------|-------------|------|---------------------|------|-------------|------|
|                      | C A S E S                |       | D E A T H S |      | C A S E S           |      | D E A T H S |      |
|                      | NUMBER                   | RATE  | NUMBER      | RATE | NUMBER              | RATE | NUMBER      | RATE |
| BACOLOD CITY.....    | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| BAGO CITY.....       | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| CADIZ CITY.....      | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| ILOILO CITY.....     | 2                        | 0.6   | 1           | 0.3  | 0                   | -    | 0           | -    |
| LA CARLOTA CITY..... | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| ROXAS CITY.....      | 9                        | 6.8   | 0           | -    | 0                   | -    | 0           | -    |
| SAN CARLOS CITY..... | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| SILAY CITY.....      | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| REGION 7             | 18                       | 0.4   | 6           | 0.1  | 0                   | -    | 0           | -    |
| BOHOL.....           | 8                        | 0.9   | 3           | 0.3  | 0                   | -    | 0           | -    |
| CEBU.....            | 4                        | 0.3   | 1           | 0.1  | 0                   | -    | 0           | -    |
| NEGROS OR.....       | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| SIGUIJOR.....        | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| BAIS CITY.....       | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| CANLAON CITY.....    | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| CEBU CITY.....       | 6                        | 1.0   | 2           | 0.3  | 0                   | -    | 0           | -    |
| DANAO CITY.....      | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| DUMAGUETE CITY.....  | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| LAPU-LAPU CITY.....  | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| MANDAWE CITY.....    | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| TAGBILARAN CITY..... | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| TOLEDO CITY.....     | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| REGION 8             | 4122                     | 132.0 | 95          | 3.0  | 38                  | 1.2  | 0           | -    |
| LEYTE DEL NORTE..... | 1621                     | 130.0 | 61          | 4.9  | 2                   | 0.2  | 0           | -    |
| LEYTE DEL SUR.....   | 5                        | 1.5   | 3           | 0.9  | 36                  | 10.9 | 0           | -    |
| EASTERN SAMAR.....   | 979                      | 290.7 | 4           | 1.2  | 0                   | -    | 0           | -    |
| NORTHERN SAMAR.....  | 1325                     | 337.5 | 12          | 3.1  | 0                   | -    | 0           | -    |
| WESTERN SAMAR.....   | 177                      | 41.4  | 6           | 1.4  | 0                   | -    | 0           | -    |
| CALBAYOG CITY.....   | 5                        | 4.2   | 3           | 2.5  | 0                   | -    | 0           | -    |
| ORMOC CITY.....      | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| TACLOBAN CITY.....   | 10                       | 7.1   | 6           | 4.3  | 0                   | -    | 0           | -    |
| REGION 9             | 3172                     | 98.3  | 14          | 0.4  | 0                   | -    | 0           | -    |
| BASILAN.....         | 1                        | 0.4   | 1           | 0.4  | 0                   | -    | 0           | -    |
| SULU.....            | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| TAWI-TAWI.....       | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| ZAMB. DEL NORTE..... | 6                        | 1.1   | 0           | -    | 0                   | -    | 0           | -    |
| ZAMB. DEL SUR.....   | 3164                     | 310.8 | 13          | 1.3  | 0                   | -    | 0           | -    |

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| A R E A              | SCHISTOSOMIASIS<br>(120) |       |             |      | FILARIASIS<br>(125) |      |             |      |
|----------------------|--------------------------|-------|-------------|------|---------------------|------|-------------|------|
|                      | C A S E S                |       | D E A T H S |      | C A S E S           |      | D E A T H S |      |
|                      | NUMBER                   | RATE  | NUMBER      | RATE | NUMBER              | RATE | NUMBER      | RATE |
| DAPITAN CITY.....    | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| DIPOLOG CITY.....    | 1                        | 1.2   | 0           | -    | 0                   | -    | 0           | -    |
| PAGADIAN CITY.....   | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| ZAMBOANGA CITY.....  | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| REGION 10            | 1308                     | 36.4  | 46          | 1.3  | 0                   | -    | 0           | -    |
| AGUSAN DEL NORTE...  | 573                      | 235.5 | 9           | 3.7  | 0                   | -    | 0           | -    |
| AGUSAN DEL SUR.....  | 174                      | 40.4  | 8           | 1.9  | 0                   | -    | 0           | -    |
| BUKIDNON.....        | 118                      | 13.7  | 8           | 0.9  | 0                   | -    | 0           | -    |
| CAMIGUIN.....        | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| MISAMIS OCC.....     | 37                       | 15.2  | 1           | 0.4  | 0                   | -    | 0           | -    |
| MISAMIS OR.....      | 3                        | 0.7   | 1           | 0.2  | 0                   | -    | 0           | -    |
| SURIGAO DEL NORTE... | 380                      | 114.0 | 7           | 2.1  | 0                   | -    | 0           | -    |
| BUTUAN CITY.....     | 8                        | 3.4   | 6           | 2.6  | 0                   | -    | 0           | -    |
| CAGAYAN DE ORO.....  | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| GINGOG CITY.....     | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| OROSUETA CITY.....   | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| OZAMIS CITY.....     | 3                        | 3.2   | 2           | 2.1  | 0                   | -    | 0           | -    |
| SURIGAO CITY.....    | 5                        | 4.9   | 1           | 1.0  | 0                   | -    | 0           | -    |
| TAGUB CITY.....      | 7                        | 15.9  | 3           | 6.8  | 0                   | -    | 0           | -    |
| REGION 11            | 3909                     | 85.8  | 48          | 1.1  | 178                 | 3.9  | 0           | -    |
| COTABATO SOUTH.....  | 617                      | 73.3  | 0           | -    | 0                   | -    | 0           | -    |
| DAVAO DEL NORTE..... | 3044                     | 753.5 | 36          | 8.9  | 0                   | -    | 0           | -    |
| DAVAO ORIENTAL.....  | 10                       | 0.9   | 1           | 0.1  | 0                   | -    | 0           | -    |
| DAVAO DEL SUR.....   | 176                      | 27.2  | 2           | 0.3  | 0                   | -    | 0           | -    |
| SURIGAO DEL SUR..... | 13                       | 2.8   | 3           | 0.6  | 1                   | 0.2  | 0           | -    |
| DAVAO CITY.....      | 47                       | 5.4   | 5           | 0.6  | 177                 | 20.4 | 0           | -    |
| GEN. SANTOS CITY..   | 2                        | 0.8   | 1           | 0.4  | 0                   | -    | 0           | -    |
| REGION 12            | 1195                     | 36.8  | 16          | 0.5  | 23                  | 0.7  | 0           | -    |
| COTABATO NORTH.....  | 983                      | 125.7 | 6           | 0.8  | 0                   | -    | 0           | -    |
| LANAO DEL NORTE..... | 21                       | 5.3   | 9           | 2.3  | 1                   | 0.3  | 0           | -    |
| LANAO DEL SUR.....   | 0                        | -     | 0           | -    | 5                   | 1.0  | 0           | -    |
| MAGUINDANAO.....     | 0                        | -     | 0           | -    | 3                   | 0.5  | 0           | -    |
| SULTAN KUDARAT....   | 191                      | 42.8  | 1           | 0.2  | 0                   | -    | 0           | -    |
| COTABATO CITY.....   | 0                        | -     | 0           | -    | 14                  | 10.8 | 0           | -    |
| ILIGAN CITY.....     | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |
| MARAWI CITY.....     | 0                        | -     | 0           | -    | 0                   | -    | 0           | -    |

TABLE 15

**NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990**

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| A R E A            | MALIGNANT NEOPLASMS<br>(140-239) |       |             |      | DISEASES OF THE HEART<br>(393-398;402;404;429) |       |             |       |
|--------------------|----------------------------------|-------|-------------|------|--|-------|-------------|-------|
|                    | C A S E S                        |       | D E A T H S |      | C A S E S                                      |       | D E A T H S |       |
|                    | NUMBER                           | RATE  | NUMBER      | RATE | NUMBER   | RATE  | NUMBER      | RATE  |
| PHILIPPINES.....   | 33702                            | 54.3  | 21979       | 35.4 | 99688  | 160.7 | 46332       | 74.7  |
| NAT. CAP. REGION.. | 7781                             | 96.0  | 4399        | 54.3 | 14820  | 182.9 | 8671        | 107.0 |
| 1ST DIST. MANILA.. | 2492                             | 101.5 | 1376        | 56.1 | 4560   | 185.8 | 2480        | 101.1 |
| 2ND DIST. MUN..... | 883                              | 84.2  | 494         | 47.1 | 2617   | 249.6 | 1049        | 100.0 |
| QUEZON CITY.....   | 2102                             | 123.4 | 1224        | 71.8 | 3145   | 184.6 | 2305        | 135.3 |
| 3RD DIST. MUN..... | 630                              | 74.7  | 271         | 32.1 | 983  | 116.6 | 656         | 77.8  |
| CALOOCAN CITY....  | 378                              | 48.4  | 250         | 32.0 | 995  | 127.5 | 672         | 86.1  |
| 4TH DIST. MUN..... | 819                              | 102.5 | 622         | 69.4 | 1881   | 208.9 | 1235        | 137.8 |
| PASAY CITY.....    | 377                              | 100.3 | 162         | 43.1 | 639  | 170.1 | 274         | 72.9  |
| C.A.R.             | 441                              | 37.7  | 258         | 22.1 | 1579   | 135.0 | 460         | 39.3  |
| ABRA.....          | 41                               | 21.7  | 34          | 18.0 | 285  | 150.8 | 72          | 38.1  |
| BENGUET.....       | 90                               | 29.1  | 54          | 17.4 | 370  | 119.5 | 97          | 31.3  |
| IFUGAO.....        | 36                               | 23.9  | 16          | 10.6 | 224  | 148.7 | 36          | 23.9  |
| KALINGA-APAYAO.... | 50                               | 23.1  | 29          | 13.4 | 111  | 51.2  | 43          | 19.9  |
| MT. PROVINCE.....  | 33                               | 27.7  | 22          | 18.5 | 195  | 163.8 | 23          | 19.3  |
| BAGUIO CITY.....   | 191                              | 103.6 | 103         | 55.9 | 394  | 213.8 | 189         | 102.6 |
| REGION 1           | 2673                             | 73.5  | 1560        | 42.9 | 5919   | 162.9 | 3663        | 100.8 |
| ILOCOS NORTE.....  | 223                              | 57.7  | 167         | 43.2 | 1151   | 298.0 | 500         | 129.5 |
| ILOCOS SUR.....    | 410                              | 77.1  | 256         | 48.1 | 795  | 149.4 | 531         | 99.8  |
| LA UNION.....      | 475                              | 84.6  | 263         | 46.8 | 965  | 171.8 | 766         | 136.4 |
| PANGASINAN.....    | 1183                             | 65.1  | 681         | 37.5 | 2411   | 132.8 | 1371        | 75.5  |
| DAGUPAN CITY.....  | 221                              | 176.4 | 110         | 87.8 | 266  | 212.4 | 217         | 173.2 |
| LAOAG CITY.....    | 84                               | 97.9  | 45          | 52.4 | 186  | 216.7 | 151         | 176.0 |
| SAN CARLOS CITY... | 77                               | 60.3  | 38          | 29.8 | 145  | 113.6 | 127         | 99.5  |
| REGION 2           | 1087                             | 45.4  | 572         | 23.9 | 6207   | 259.3 | 1607        | 67.1  |
| BATANES.....       | 23                               | 149.9 | 7           | 45.6 | 39   | 254.2 | 19          | 123.8 |
| CAGAYAN.....       | 466                              | 54.9  | 216         | 25.5 | 1231   | 145.1 | 631         | 74.4  |
| ISABELA.....       | 415                              | 37.6  | 246         | 22.3 | 1786   | 161.6 | 725         | 65.6  |
| NEUVA VIZCAYA..... | 141                              | 45.8  | 80          | 26.0 | 2696   | 875.4 | 165         | 53.6  |
| QUIRINO.....       | 42                               | 35.9  | 23          | 19.7 | 455  | 389.4 | 67          | 57.3  |
| REGION 3           | 3778                             | 59.6  | 2663        | 42.0 | 15426  | 243.3 | 6076        | 95.8  |
| BATAAN.....        | 21                               | 4.8   | 2           | 0.5  | 1175   | 270.0 | 418         | 96.1  |
| BULACAN.....       | 894                              | 58.1  | 679         | 44.1 | 2768   | 179.8 | 1707        | 110.9 |
| NUEVA ECIJA.....   | 619                              | 59.7  | 428         | 41.2 | 1673   | 161.2 | 967         | 93.2  |
| PAMPANGA.....      | 906                              | 68.3  | 628         | 47.4 | 3817   | 287.9 | 1114        | 84.0  |
| TARLAC.....        | 505                              | 57.4  | 382         | 44.5 | 2717   | 308.6 | 856         | 97.2  |
| ZAMBALES.....      | 297                              | 78.7  | 164         | 43.5 | 347  | 92.0  | 301         | 79.8  |

TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| A R E A             | MALIGNANT NEOPLASMS<br>(140-239) |       |             |      | DISEASES OF THE HEART<br>(393-398;4002;404;429) |        |             |       |
|---------------------|----------------------------------|-------|-------------|------|---|--------|-------------|-------|
|                     | C A S E S                        |       | D E A T H S |      | C A S E S                                       |        | D E A T H S |       |
|                     | NUMBER                           | RATE  | NUMBER      | RATE | NUMBER  | RATE   | NUMBER      | RATE  |
| ANGELES CITY.....   | 197                              | 81.4  | 133         | 55.0 | 1706  | 705.3  | 190         | 78.6  |
| CABANATUAN CITY.... | 188                              | 98.0  | 117         | 61.0 | 419   | 218.5  | 234         | 122.0 |
| OLONGAPO CITY.....  | 98                               | 49.5  | 85          | 42.9 | 316   | 159.5  | 201         | 101.5 |
| PALAYAN CITY.....   | 9                                | 41.4  | 3           | 13.8 | 277   | 1275.4 | 12          | 55.3  |
| SAN JOSE CITY.....  | 44                               | 47.8  | 31          | 33.7 | 211   | 229.4  | 76          | 82.6  |
| REGION 4            | 4091                             | 48.4  | 3111        | 36.8 | 17088   | 202.2  | 7245        | 85.7  |
| AURORA.....         | 40                               | 28.1  | 27          | 18.9 | 211   | 148.1  | 89          | 62.5  |
| BATANGAS.....       | 762                              | 65.8  | 571         | 49.3 | 1849  | 159.7  | 1321        | 114.1 |
| CAVITE.....         | 537                              | 51.4  | 443         | 42.4 | 1692  | 162.1  | 838         | 80.3  |
| LAGUNA.....         | 610                              | 49.3  | 454         | 36.7 | 2386  | 192.9  | 1094        | 88.5  |
| MARINDUQUE.....     | 138                              | 72.7  | 91          | 47.9 | 370   | 194.8  | 168         | 88.4  |
| MINDORO OCC.....    | 80                               | 27.7  | 51          | 17.7 | 615   | 213.1  | 104         | 36.0  |
| MINDORO OR.....     | 191                              | 33.9  | 164         | 29.1 | 3655  | 649.1  | 317         | 56.3  |
| PALAWAN.....        | 74                               | 16.6  | 24          | 5.4  | 138   | 31.0   | 127         | 28.5  |
| QUEZON.....         | 549                              | 43.9  | 429         | 34.3 | 2929  | 234.3  | 1247        | 99.8  |
| RIZAL.....          | 382                              | 38.2  | 309         | 30.9 | 804   | 80.4   | 770         | 77.0  |
| ROMBLON.....        | 131                              | 56.2  | 105         | 45.1 | 374   | 160.5  | 174         | 74.7  |
| BATANGAS CITY.....  | 146                              | 77.0  | 89          | 47.0 | 283   | 149.3  | 155         | 81.8  |
| CAVITE CITY.....    | 70                               | 74.6  | 49          | 52.2 | 174   | 185.3  | 140         | 149.1 |
| LIPA CITY.....      | 105                              | 64.0  | 98          | 59.7 | 572   | 348.7  | 174         | 106.1 |
| LUCENA CITY.....    | 93                               | 60.6  | 76          | 49.5 | 469   | 305.5  | 217         | 141.4 |
| PUERTO PRINCESA.... | 42                               | 45.6  | 22          | 23.9 | 138   | 150.0  | 73          | 79.3  |
| SAN PABLO CITY..... | 103                              | 62.2  | 89          | 53.7 | 241   | 145.5  | 171         | 103.3 |
| TAGAYTAY CITY.....  | 21                               | 86.3  | 10          | 41.1 | 124   | 509.8  | 18          | 74.0  |
| TRECE MARTIRES..... | 17                               | 105.8 | 10          | 62.2 | 64  | 398.2  | 48          | 298.7 |
| REGION 5            | 1488                             | 37.2  | 990         | 24.7 | 6361  | 159.0  | 3127        | 78.2  |
| ALBAY.....          | 312                              | 39.0  | 202         | 25.2 | 1610  | 201.0  | 688         | 83.4  |
| CAMARINES NORTE.... | 122                              | 30.5  | 93          | 23.2 | 1459  | 364.7  | 426         | 106.5 |
| CAMARINES SUR.....  | 403                              | 36.2  | 246         | 22.1 | 1209  | 108.5  | 747         | 67.0  |
| CATANDUANES.....    | 75                               | 39.2  | 47          | 24.6 | 215   | 112.3  | 119         | 62.2  |
| MASBATE.....        | 158                              | 25.7  | 124         | 20.2 | 291   | 47.4   | 217         | 35.4  |
| SORSOGON.....       | 214                              | 40.0  | 127         | 23.7 | 623   | 116.4  | 483         | 90.3  |
| IRIGA CITY.....     | 32                               | 38.3  | 22          | 26.4 | 122   | 146.1  | 74          | 88.6  |
| LEGASPI CITY.....   | 73                               | 58.9  | 51          | 41.2 | 436   | 352.0  | 166         | 134.0 |
| NAGA CITY.....      | 99                               | 71.6  | 78          | 56.4 | 396   | 286.4  | 227         | 164.2 |
| REGION 6            | 3212                             | 58.2  | 2143        | 38.8 | 6017  | 109.0  | 3685        | 66.8  |
| AKLAN.....          | 315                              | 80.9  | 176         | 45.2 | 916   | 235.2  | 295         | 75.8  |
| ANTIQUE.....        | 217                              | 52.2  | 155         | 37.3 | 543   | 130.6  | 238         | 57.2  |
| CAPIZ.....          | 291                              | 62.4  | 166         | 35.6 | 530   | 113.7  | 337         | 72.3  |
| ILOILO.....         | 880                              | 59.1  | 527         | 35.4 | 1012  | 68.0   | 938         | 63.0  |
| NEGROS OCC.....     | 484                              | 34.2  | 358         | 25.3 | 739   | 52.1   | 637         | 44.9  |

TABLE 15

**NOTIFIABLE DISEASES: REPORTED CASES & DEATHS**  
**BY HEALTH REGION, PROVINCE & CITY**  
**No. & Rate/100,000 Pop.**  
**PHILIPPINES**  
**1980**

88

| A R E A              | MALIGNANT NEOPLASMS<br>(140-239) |       |             |       | DISEASES OF THE HEART<br>(393-398; 402; 404; 429) |       |             |       |
|----------------------|----------------------------------|-------|-------------|-------|---|-------|-------------|-------|
|                      | C A S E S                        |       | D E A T H S |       | C A S E S   |       | D E A T H S |       |
|                      | NUMBER                           | RATE  | NUMBER      | RATE  | NUMBER  | RATE  | NUMBER      | RATE  |
| BACOLOD CITY.....    | 354                              | 94.9  | 298         | 79.9  | 694   | 186.0 | 442         | 118.5 |
| BAGO CITY.....       | 51                               | 40.5  | 31          | 24.6  | 82  | 65.1  | 53          | 42.1  |
| CADIZ CITY.....      | 50                               | 40.7  | 34          | 27.7  | 121   | 98.6  | 82          | 66.8  |
| ILOILO CITY.....     | 298                              | 94.0  | 206         | 65.0  | 545   | 171.9 | 340         | 107.2 |
| LA CARLOTA CITY..... | 26                               | 45.0  | 19          | 32.9  | 27  | 46.7  | 24          | 41.5  |
| ROXAS CITY.....      | 90                               | 68.4  | 68          | 51.7  | 243   | 184.7 | 169         | 128.4 |
| SAN CARLOS CITY..... | 89                               | 82.2  | 63          | 58.2  | 446   | 411.8 | 75          | 69.2  |
| SILAY CITY.....      | 67                               | 64.7  | 42          | 40.6  | 119   | 115.0 | 55          | 53.1  |
| REGION 7             | 3463                             | 73.8  | 2459        | 52.4  | 7773  | 165.6 | 3931        | 83.7  |
| BOHOL.....           | 425                              | 46.5  | 375         | 41.1  | 1215  | 133.0 | 830         | 90.9  |
| CEBU.....            | 1121                             | 72.2  | 729         | 46.9  | 2672  | 172.1 | 1403        | 90.4  |
| NEGROS OR.....       | 280                              | 36.6  | 189         | 24.7  | 1511  | 197.3 | 277         | 36.2  |
| SIQUIJOR.....        | 109                              | 144.0 | 71          | 93.8  | 173   | 228.5 | 113         | 149.3 |
| BAIS CITY.....       | 30                               | 49.2  | 19          | 31.1  | 70  | 114.7 | 41          | 67.2  |
| CANLAON CITY.....    | 20                               | 52.5  | 11          | 28.9  | 23  | 60.4  | 11          | 28.9  |
| CEBU CITY.....       | 846                              | 136.6 | 664         | 107.2 | 986   | 159.2 | 739         | 119.3 |
| DANAO CITY.....      | 59                               | 78.7  | 37          | 49.3  | 153   | 204.0 | 61          | 81.3  |
| DUMAGUETE CITY.....  | 152                              | 187.1 | 98          | 120.6 | 198   | 243.7 | 163         | 200.7 |
| LAPU-LAPU CITY.....  | 123                              | 82.4  | 65          | 43.6  | 387   | 259.4 | 47          | 31.5  |
| MANDANE CITY.....    | 104                              | 56.5  | 86          | 46.7  | 72  | 39.1  | 50          | 27.1  |
| TAGBILARAN CITY..... | 125                              | 219.2 | 73          | 128.0 | 109   | 191.1 | 84          | 147.3 |
| TOLEDO CITY.....     | 69                               | 56.2  | 43          | 35.0  | 204   | 166.2 | 112         | 91.3  |
| REGION 8             | 1285                             | 41.1  | 835         | 26.7  | 5276  | 168.9 | 1872        | 59.9  |
| LEYTE DEL NORTE....  | 599                              | 48.0  | 386         | 31.0  | 1659  | 133.1 | 671         | 53.8  |
| LEYTE DEL SUR.....   | 221                              | 67.1  | 165         | 50.1  | 785   | 238.3 | 293         | 88.9  |
| EASTERN SAMAR.....   | 78                               | 23.2  | 58          | 17.2  | 176   | 52.3  | 95          | 28.2  |
| NORTHERN SAMAR.....  | 95                               | 24.2  | 56          | 14.3  | 1733  | 441.4 | 212         | 54.0  |
| WESTERN SAMAR.....   | 73                               | 17.1  | 39          | 9.1   | 159   | 37.2  | 93          | 21.8  |
| CALBAYOG CITY.....   | 27                               | 22.9  | 16          | 13.6  | 99  | 84.0  | 75          | 63.7  |
| ORMOC CITY.....      | 60                               | 45.2  | 52          | 39.2  | 249   | 187.7 | 105         | 79.2  |
| TACLOBAN CITY.....   | 132                              | 93.9  | 63          | 44.8  | 416   | 295.9 | 328         | 233.3 |
| REGION 9             | 753                              | 23.3  | 570         | 17.7  | 1923  | 59.6  | 1113        | 34.5  |
| BASILAN.....         | 48                               | 19.7  | 32          | 13.1  | 140   | 57.4  | 98          | 40.2  |
| SULU.....            | 35                               | 7.3   | 23          | 4.8   | 79  | 16.4  | 64          | 13.3  |
| TAWI-TAWI.....       | 14                               | 6.0   | 1           | 0.4   | 22  | 9.4   | 4           | 1.7   |
| ZAMB. DEL NORTE..... | 122                              | 22.2  | 108         | 19.7  | 386   | 70.2  | 151         | 27.5  |
| ZAMB. DEL SUR.....   | 173                              | 17.0  | 105         | 10.3  | 388   | 38.1  | 240         | 23.6  |

TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| A R E A             | MALIGNANT NEOPLASMS<br>(140-239) |       |             |      | DISEASES OF THE HEART<br>(393-398;4002;404;429) |        |             |       |
|---------------------|----------------------------------|-------|-------------|------|---|--------|-------------|-------|
|                     | C A S E S                        |       | D E A T H S |      | C A S E S                                       |        | D E A T H S |       |
|                     | NUMBER                           | RATE  | NUMBER      | RATE | NUMBER  | RATE   | NUMBER      | RATE  |
| DAPITAN CITY.....   | 57                               | 92.5  | 37          | 60.0 | 46  | 74.6   | 23          | 37.3  |
| DIFOLOG CITY.....   | 63                               | 77.3  | 47          | 57.7 | 98  | 120.2  | 72          | 88.3  |
| PAGADIAN CITY.....  | 45                               | 41.6  | 29          | 26.8 | 367   | 338.9  | 85          | 78.5  |
| ZAMBOANGA CITY..... | 196                              | 43.4  | 188         | 41.6 | 397   | 87.9   | 376         | 83.2  |
| REGION 10           | 1343                             | 37.4  | 956         | 26.6 | 4759  | 132.6  | 2046        | 57.0  |
| AGUSAN DEL NORTE..  | 76                               | 31.2  | 55          | 22.6 | 545   | 224.0  | 143         | 58.8  |
| AGUSAN DEL SUR....  | 64                               | 14.9  | 50          | 11.6 | 159   | 37.0   | 75          | 17.4  |
| BUKIDNON.....       | 115                              | 13.3  | 85          | 9.8  | 534   | 61.9   | 225         | 26.1  |
| CAMIGUIN.....       | 36                               | 54.7  | 22          | 33.5 | 128   | 184.7  | 109         | 165.8 |
| MISAMIS OCC.....    | 180                              | 74.0  | 34          | 34.5 | 346   | 142.3  | 204         | 83.9  |
| MISAMIS OR.....     | 215                              | 47.5  | 157         | 34.7 | 312   | 68.9   | 234         | 51.7  |
| SURIGAO DEL NORTE.  | 99                               | 29.7  | 78          | 23.4 | 331   | 99.3   | 202         | 60.6  |
| BUTUAN CITY.....    | 91                               | 39.1  | 85          | 36.5 | 413   | 177.3  | 174         | 74.7  |
| CAGAYAN DE ORO....  | 173                              | 50.0  | 152         | 43.9 | 555   | 160.3  | 310         | 89.5  |
| GINGOOG CITY.....   | 35                               | 41.4  | 21          | 24.8 | 958   | 1132.2 | 41          | 48.5  |
| OROQUIETA CITY....  | 72                               | 134.3 | 51          | 95.1 | 119   | 221.9  | 84          | 156.7 |
| OZAMIS CITY.....    | 61                               | 65.4  | 40          | 42.9 | 140   | 150.1  | 121         | 129.7 |
| SURIGAO CITY.....   | 80                               | 78.0  | 51          | 49.7 | 187   | 182.4  | 106         | 103.4 |
| TANGUB CITY.....    | 46                               | 104.7 | 25          | 56.9 | 32  | 72.8   | 18          | 41.0  |
| REGION 11           | 1770                             | 38.8  | 1139        | 25.0 | 3810  | 83.6   | 2199        | 48.2  |
| COTABATO SOUTH....  | 227                              | 27.0  | 177         | 21.0 | 455   | 54.1   | 292         | 34.7  |
| DAVAO DEL NORTE...  | 292                              | 72.3  | 231         | 57.2 | 868   | 214.8  | 413         | 102.2 |
| DAVAO ORIENTAL....  | 80                               | 7.4   | 58          | 5.4  | 195   | 18.1   | 143         | 13.3  |
| DAVAO DEL SUR....   | 211                              | 32.6  | 123         | 19.0 | 394   | 60.8   | 308         | 47.5  |
| SURIGAO DEL SUR...  | 162                              | 35.0  | 93          | 20.1 | 500   | 108.1  | 180         | 38.9  |
| DAVAO CITY.....     | 662                              | 76.3  | 359         | 41.4 | 1208  | 139.3  | 726         | 83.7  |
| GEN. SANTOS CITY..  | 136                              | 53.2  | 98          | 38.3 | 190   | 74.3   | 137         | 53.6  |
| REGION 12           | 537                              | 16.5  | 324         | 10.0 | 2730  | 84.1   | 637         | 19.6  |
| COTABATO NORTH....  | 93                               | 11.9  | 66          | 8.4  | 548   | 70.1   | 67          | 8.6   |
| LANAO DEL NORTE...  | 132                              | 33.3  | 60          | 15.1 | 665   | 167.6  | 113         | 28.5  |
| LANAO DEL SUR....   | 14                               | 2.7   | 2           | 0.4  | 542   | 104.2  | 13          | 2.5   |
| MAGUINDANAO.....    | 28                               | 4.3   | 10          | 1.5  | 259   | 40.1   | 21          | 3.3   |
| SULTAN KUDARAT....  | 87                               | 19.5  | 58          | 13.0 | 287   | 64.3   | 165         | 37.0  |
| COTABATO CITY.....  | 61                               | 46.9  | 44          | 33.8 | 160   | 122.8  | 82          | 63.0  |
| ILIGAN CITY.....    | 104                              | 44.9  | 81          | 35.0 | 198   | 85.5   | 167         | 72.1  |
| MARAWI CITY.....    | 18                               | 19.3  | 3           | 3.2  | 71  | 76.0   | 9           | 9.6   |

TABLE 15

**NOTIFIABLE DISEASES: REPORTED CASES & DEATHS**  
**BY HEALTH REGION, PROVINCE & CITY**  
**No. & Rate/100,000 Pop.**  
**PHILIPPINES**  
**1990**

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| A R E A            | BRONCHITIS<br>(460-4666) |        |             |      | PNEUMONIAS<br>(480-4886) |        |             |       |
|--------------------|--------------------------|--------|-------------|------|--------------------------|--------|-------------|-------|
|                    | C A S E S                |        | D E A T H S |      | C A S E S                |        | D E A T H S |       |
|                    | NUMBER                   | RATE   | NUMBER      | RATE | NUMBER                   | RATE   | NUMBER      | RATE  |
| PHILIPPINES.....   | 980557                   | 1580.3 | 1008        | 1.6  | 235947                   | 380.3  | 41181       | 66.4  |
| NAT. CAP. REGION.. | 38144                    | 470.8  | 45          | 0.6  | 18396                    | 230.8  | 6675        | 82.4  |
| 1ST DIST. MANILA.. | 5011                     | 204.2  | 3           | 0.1  | 6728                     | 274.2  | 2034        | 82.9  |
| 2ND DIST. MUN..... | 4123                     | 383.2  | 7           | 0.7  | 1821                     | 173.7  | 745         | 71.0  |
| QUEZON CITY.....   | 9147                     | 536.8  | 17          | 1.0  | 3891                     | 228.4  | 1558        | 91.4  |
| 3RD DIST. MUN..... | 4786                     | 567.8  | 5           | 0.6  | 832                      | 98.7   | 532         | 63.1  |
| CALOOCAN CITY....  | 4854                     | 621.8  | 6           | 0.8  | 1581                     | 202.5  | 895         | 114.7 |
| 4TH DIST. MUN..... | 7802                     | 870.5  | 7           | 0.8  | 916                      | 102.2  | 700         | 78.1  |
| PASAY CITY.....    | 2421                     | 644.3  | 0           | -    | 2927                     | 779.0  | 211         | 56.2  |
| C.A.R.             | 32148                    | 2749.5 | 7           | 0.6  | 6420                     | 549.1  | 454         | 38.8  |
| ABRA.....          | 5746                     | 3040.5 | 0           | -    | 1156                     | 611.7  | 123         | 65.1  |
| BENGUET.....       | 7815                     | 2523.5 | 1           | 0.3  | 1630                     | 526.3  | 124         | 40.0  |
| IFUGAO.....        | 7046                     | 4677.1 | 1           | 0.7  | 1308                     | 868.2  | 26          | 17.3  |
| KALINGA-APAYAO.... | 5063                     | 2337.5 | 2           | 0.9  | 867                      | 400.3  | 34          | 15.7  |
| MT. PROVINCE.....  | 4412                     | 3706.7 | 3           | 2.5  | 501                      | 420.9  | 69          | 58.0  |
| BAGUIO CITY.....   | 2066                     | 1121.1 | 0           | -    | 958                      | 519.8  | 78          | 42.3  |
| REGION 1           | 32636                    | 897.9  | 107         | 2.9  | 9284                     | 255.4  | 3524        | 97.0  |
| ILOCOS NORTE.....  | 4698                     | 1216.4 | 4           | 1.0  | 1387                     | 359.1  | 162         | 41.9  |
| ILOCOS SUR.....    | 3998                     | 751.4  | 22          | 4.1  | 1055                     | 198.3  | 342         | 64.3  |
| LA UNION.....      | 6789                     | 1208.6 | 14          | 2.5  | 2202                     | 382.0  | 522         | 92.9  |
| PANGASINAN.....    | 16045                    | 883.6  | 63          | 3.5  | 3307                     | 182.1  | 2049        | 112.8 |
| DAGUPAN CITY.....  | 392                      | 313.0  | 2           | 1.6  | 502                      | 400.8  | 295         | 235.5 |
| LAOAG CITY.....    | 78                       | 90.9   | 0           | -    | 144                      | 167.8  | 51          | 59.4  |
| SAN CARLOS CITY... | 636                      | 498.5  | 2           | -    | 687                      | 538.4  | 104         | 81.5  |
| REGION 2           | 71431                    | 2983.9 | 78          | 3.3  | 16553                    | 691.5  | 1816        | 75.9  |
| BATANES.....       | 540                      | 3519.7 | 0           | -    | 393                      | 2561.6 | 12          | 78.2  |
| CAGAYAN.....       | 12805                    | 1509.0 | 36          | 4.2  | 2762                     | 325.5  | 717         | 84.5  |
| ISABELA.....       | 33299                    | 3013.2 | 31          | 2.8  | 6633                     | 600.2  | 872         | 78.9  |
| NEUVA VIZCAYA..... | 23021                    | 7475.3 | 3           | 1.0  | 6076                     | 1973.0 | 164         | 53.3  |
| QUIRINO.....       | 1766                     | 1511.2 | 8           | 6.8  | 689                      | 589.6  | 51          | 43.6  |
| REGION 3           | 81600                    | 1286.9 | 46          | 0.7  | 12651                    | 199.5  | 2978        | 47.0  |
| BATAAN.....        | 8566                     | 1968.5 | 2           | 0.5  | 1945                     | 447.0  | 225         | 51.7  |
| BULACAN.....       | 12910                    | 838.7  | 12          | 0.8  | 1234                     | 80.2   | 736         | 47.8  |
| NUEVA ECIJA.....   | 13868                    | 1336.5 | 8           | 0.8  | 1653                     | 159.3  | 498         | 48.0  |
| PAMPANGA.....      | 10274                    | 774.9  | 11          | 0.8  | 2496                     | 188.3  | 359         | 27.1  |
| TARLAC.....        | 21405                    | 2431.4 | 4           | 0.5  | 3330                     | 378.3  | 536         | 60.9  |
| ZAMBALES.....      | 7568                     | 2005.9 | 2           | 0.5  | 312                      | 82.7   | 183         | 48.5  |

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| A R E A             | BRONCHITIS<br>(460-4666) |        |             |      | PNEUMONIAS<br>(480-4886) |        |             |       |
|---------------------|--------------------------|--------|-------------|------|--------------------------|--------|-------------|-------|
|                     | C A S E S                |        | D E A T H S |      | C A S E S                |        | D E A T H S |       |
|                     | NUMBER                   | RATE   | NUMBER      | RATE | NUMBER                   | RATE   | NUMBER      | RATE  |
| ANGELES CITY.....   | 2232                     | 922.8  | 0           | -    | 1034                     | 427.5  | 120         | 49.6  |
| CABANATUAN CITY.... | 1886                     | 983.5  | 0           | -    | 121                      | 63.1   | 141         | 73.5  |
| OLONGAPO CITY.....  | 1256                     | 634.1  | 4           | 2.0  | 383                      | 193.4  | 90          | 45.4  |
| PALAYAN CITY.....   | 44                       | 202.6  | 0           | -    | 41                       | 188.8  | 13          | 59.9  |
| SAN JOSE CITY.....  | 1591                     | 1730.0 | 3           | 3.3  | 102                      | 110.9  | 77          | 83.7  |
| REGION 4            | 54513                    | 645.1  | 182         | 2.2  | 13760                    | 162.8  | 4775        | 56.5  |
| AURORA.....         | 824                      | 578.3  | 1           | 0.7  | 136                      | 95.4   | 107         | 75.1  |
| BATANGAS.....       | 8789                     | 759.0  | 11          | 0.9  | 2529                     | 218.4  | 537         | 46.4  |
| CAVITE.....         | 3943                     | 377.6  | 11          | 1.1  | 1595                     | 152.8  | 516         | 49.4  |
| LAGUNA.....         | 7841                     | 634.0  | 12          | 1.0  | 1328                     | 107.4  | 579         | 46.8  |
| MARINDUQUE.....     | 1160                     | 610.7  | 5           | 2.6  | 228                      | 120.0  | 108         | 56.9  |
| MINDORO OCC.....    | 830                      | 287.6  | 5           | 1.7  | 206                      | 71.4   | 110         | 38.1  |
| MINDORO OR.....     | 8129                     | 1443.7 | 45          | 8.0  | 1453                     | 258.1  | 345         | 61.3  |
| PALAWAN.....        | 3162                     | 710.0  | 4           | 0.9  | 1455                     | 326.7  | 98          | 22.0  |
| QUEZON.....         | 3525                     | 282.0  | 59          | 4.7  | 1691                     | 135.3  | 1207        | 96.6  |
| RIZAL.....          | 6558                     | 655.8  | 2           | 0.2  | 1158                     | 115.8  | 535         | 53.5  |
| ROMELON.....        | 4872                     | 2091.2 | 14          | 6.0  | 1182                     | 507.3  | 153         | 65.7  |
| BATANGAS CITY.....  | 85                       | 44.8   | 1           | 0.5  | 102                      | 53.8   | 50          | 26.4  |
| CAVITE CITY.....    | 2582                     | 2749.9 | 0           | -    | 149                      | 158.7  | 63          | 67.1  |
| LIPA CITY.....      | 10                       | 6.1    | 0           | -    | 147                      | 89.6   | 112         | 68.3  |
| LUCENA CITY.....    | 181                      | 117.9  | 4           | 2.6  | 146                      | 95.1   | 104         | 67.8  |
| PUERTO PRINCESA.... | 843                      | 916.1  | 1           | 1.1  | 90                       | 97.8   | 38          | 41.3  |
| SAN PABLO CITY..... | 890                      | 537.4  | 6           | 3.6  | 88                       | 53.1   | 74          | 44.7  |
| TAGAYTAY CITY.....  | 191                      | 785.3  | 1           | -    | 13                       | 53.4   | 5           | 20.6  |
| TRECE MARTIRES..... | 98                       | 609.8  | 0           | -    | 64                       | 398.2  | 34          | 211.5 |
| REGION 5            | 88779                    | 2218.9 | 125         | 3.1  | 26698                    | 667.3  | 3185        | 79.6  |
| ALBAY.....          | 14226                    | 1776.2 | 22          | 2.7  | 6787                     | 847.4  | 723         | 90.3  |
| CAMARINES NORTE.... | 9084                     | 2270.7 | 15          | 3.7  | 1492                     | 372.9  | 527         | 131.7 |
| CAMARINES SUR.....  | 22199                    | 1992.3 | 23          | 2.1  | 5929                     | 532.1  | 944         | 84.7  |
| CATANDUANES.....    | 1970                     | 1029.2 | 9           | 4.7  | 284                      | 148.4  | 207         | 108.1 |
| MASEATE.....        | 24978                    | 4070.4 | 37          | 6.0  | 4995                     | 814.0  | 248         | 40.4  |
| SORSOGON.....       | 11574                    | 2163.1 | 8           | 1.5  | 4058                     | 758.4  | 328         | 61.3  |
| IRIGA CITY.....     | 26                       | 31.1   | 10          | 12.0 | 83                       | 99.4   | 51          | 61.1  |
| LEGASPI CITY.....   | 4683                     | 3781.0 | 0           | -    | 2696                     | 2176.7 | 76          | 61.4  |
| NAGA CITY.....      | 39                       | 28.2   | 1           | 0.7  | 374                      | 270.5  | 81          | 58.6  |
| REGION 6            | 85859                    | 1556.1 | 108         | 2.0  | 15619                    | 283.1  | 4250        | 77.0  |
| AKLAN.....          | 7105                     | 1824.7 | 18          | 4.6  | 745                      | 191.3  | 266         | 68.3  |
| ANTIQUE.....        | 10430                    | 2507.7 | 5           | 1.2  | 1300                     | 312.6  | 574         | 138.0 |
| CAPIZ.....          | 14237                    | 3053.3 | 0           | -    | 891                      | 191.1  | 467         | 100.2 |
| ILOILO.....         | 18645                    | 1252.3 | 21          | 1.4  | 6073                     | 407.9  | 1256        | 84.4  |
| NEGROS OCC.....     | 25519                    | 1800.7 | 20          | 1.4  | 3376                     | 238.2  | 800         | 56.4  |

TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| A R E A             | BRONCHITIS<br>(460-4666) |        |             |      | PNEUMONIAS<br>(480-4886) |        |             |       |
|---------------------|--------------------------|--------|-------------|------|--------------------------|--------|-------------|-------|
|                     | C A S E S                |        | D E A T H S |      | C A S E S                |        | D E A T H S |       |
|                     | NUMBER                   | RATE   | NUMBER      | RATE | NUMBER                   | RATE   | NUMBER      | RATE  |
| BACOLOD CITY.....   | 1899                     | 508.9  | 1           | 0.3  | 841                      | 225.4  | 249         | 65.7  |
| BAGO CITY.....      | 4                        | 3.2    | 1           | 0.8  | 108                      | 85.8   | 76          | 60.4  |
| CADIZ CITY.....     | 1270                     | 1034.9 | 0           | -    | 529                      | 431.1  | 64          | 52.2  |
| ILOILO CITY.....    | 3031                     | 955.8  | 0           | -    | 759                      | 239.3  | 220         | 69.4  |
| LA CARLOTA CITY.... | 946                      | 1635.8 | 0           | -    | 435                      | 752.2  | 41          | 70.9  |
| ROXAS CITY.....     | 1315                     | 999.4  | 2           | 1.5  | 232                      | 176.3  | 94          | 71.4  |
| SAN CARLOS CITY.... | 1272                     | 1174.4 | 38          | 35.1 | 157                      | 144.9  | 53          | 48.9  |
| SILAY CITY.....     | 186                      | 179.7  | 2           | 1.9  | 173                      | 167.1  | 90          | 86.9  |
| REGION 7            | 43710                    | 931.0  | 80          | 1.7  | 19715                    | 419.9  | 4092        | 87.2  |
| BOHOL.....          | 14526                    | 1590.4 | 21          | 2.3  | 8650                     | 947.0  | 791         | 86.6  |
| CEBU.....           | 5123                     | 330.0  | 35          | 2.3  | 4906                     | 316.1  | 1536        | 99.0  |
| NEGROS OR.....      | 12305                    | 1607.1 | 2           | 0.3  | 745                      | 97.3   | 479         | 62.6  |
| SIQULJOR.....       | 161                      | 212.7  | 1           | 1.3  | 108                      | 142.7  | 82          | 108.3 |
| BAIS CITY.....      | 378                      | 619.4  | 0           | -    | 163                      | 267.1  | 43          | 70.5  |
| CANLAON CITY.....   | 1391                     | 3654.1 | 0           | -    | 97                       | 254.8  | 64          | 168.1 |
| CEBU CITY.....      | 8064                     | 1301.7 | 18          | 2.9  | 2364                     | 381.6  | 556         | 89.7  |
| DANAO CITY.....     | 6                        | 8.0    | 0           | -    | 151                      | 201.4  | 79          | 105.4 |
| DUMAGUETE CITY....  | 420                      | 517.0  | 1           | 1.2  | 311                      | 382.8  | 119         | 146.5 |
| LAPU-LAPU CITY....  | 1096                     | 734.5  | 0           | -    | 1667                     | 1117.2 | 160         | 107.2 |
| MANDAWÉ CITY.....   | 43                       | 23.3   | 1           | 0.5  | 89                       | 48.3   | 60          | 32.6  |
| TAGBILARAN CITY.... | 80                       | 140.3  | 1           | 1.8  | 111                      | 194.7  | 37          | 64.9  |
| TOLEDO CITY.....    | 117                      | 95.3   | 0           | -    | 353                      | 287.6  | 86          | 70.1  |
| REGION 8            | 82103                    | 2628.2 | 94          | 3.0  | 24931                    | 788.1  | 3097        | 99.1  |
| LEYTE DEL NORTE...  | 39866                    | 3197.3 | 50          | 4.0  | 14146                    | 1134.5 | 1601        | 128.4 |
| LEYTE DEL SUR.....  | 14016                    | 4254.8 | 19          | 5.8  | 3398                     | 1031.5 | 342         | 103.8 |
| EASTERN SAMAR.....  | 6848                     | 2033.4 | 1           | 0.3  | 2119                     | 629.2  | 119         | 35.3  |
| NORTHERN SAMAR....  | 15255                    | 3985.5 | 6           | 1.5  | 2634                     | 670.9  | 349         | 88.9  |
| WESTERN SAMAR.....  | 3711                     | 868.7  | 5           | 1.2  | 1440                     | 337.1  | 135         | 31.6  |
| CALBAYOG CITY.....  | 97                       | 82.3   | 10          | 8.5  | 165                      | 140.1  | 106         | 90.0  |
| ORMOC CITY.....     | 2251                     | 1697.0 | 3           | 2.3  | 596                      | 449.3  | 185         | 139.5 |
| TACLOAN CITY.....   | 59                       | 42.0   | 0           | -    | 433                      | 308.0  | 260         | 185.0 |
| REGION 9            | 90032                    | 2788.8 | 67          | 2.1  | 18595                    | 576.0  | 1386        | 42.8  |
| BASILAN.....        | 2005                     | 822.2  | 0           | -    | 218                      | 89.4   | 34          | 13.9  |
| SULU.....           | 1196                     | 249.0  | 3           | 0.6  | 435                      | 90.6   | 151         | 31.4  |
| TAWI-TAWI.....      | 918                      | 393.4  | 0           | -    | 73                       | 31.3   | 1           | 0.4   |
| ZAMB. DEL NORTE...  | 19277                    | 3508.0 | 48          | 8.7  | 1674                     | 304.6  | 275         | 50.0  |
| ZAMB. DEL SUR.....  | 50130                    | 4923.7 | 7           | 0.7  | 13832                    | 1358.6 | 368         | 36.1  |

TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| A R E A            | BRONCHITIS<br>(460-46666) |         |             |      | PNEUMONIAS<br>(480-4886) |        |             |       |
|--------------------|---------------------------|---------|-------------|------|--------------------------|--------|-------------|-------|
|                    | C A S E S                 |         | D E A T H S |      | C A S E S                |        | D E A T H S |       |
|                    | NUMBER                    | RATE    | NUMBER      | RATE | NUMBER                   | RATE   | NUMBER      | RATE  |
| DAPITAN CITY.....  | 2761                      | 4480.6  | 2           | 3.2  | 57                       | 92.5   | 35          | 56.8  |
| DIPOLOG CITY.....  | 185                       | 227.0   | 2           | 2.5  | 261                      | 320.2  | 75          | 92.0  |
| PAGADIAN CITY..... | 12514                     | 11555.4 | 1           | 0.9  | 967                      | 892.9  | 122         | 112.7 |
| ZAMBOANGA CITY.... | 1046                      | 231.6   | 4           | 0.9  | 1078                     | 238.6  | 325         | 71.9  |
| REGION 10          | 99335                     | 2767.9  | 31          | 0.9  | 16888                    | 473.4  | 2251        | 62.7  |
| AGUSAN DEL NORTE.. | 12551                     | 5158.7  | 1           | 0.4  | 1997                     | 820.8  | 167         | 68.6  |
| AGUSAN DEL SUR.... | 2023                      | 470.2   | 2           | 0.5  | 393                      | 91.3   | 133         | 30.9  |
| BUKIDNON.....      | 20116                     | 2331.0  | 4           | 0.5  | 4990                     | 578.2  | 353         | 40.9  |
| CAMIGUIN.....      | 5904                      | 8978.5  | 0           | -    | 432                      | 657.0  | 61          | 92.8  |
| MISAMIS OCC.....   | 7080                      | 2911.6  | 4           | 1.6  | 921                      | 378.7  | 236         | 97.1  |
| MISAMIS OR.....    | 18734                     | 4135.5  | 3           | 0.7  | 1657                     | 365.8  | 287         | 63.4  |
| SURIGAO DEL NORTE. | 9019                      | 2706.8  | 1           | 0.3  | 964                      | 289.3  | 167         | 50.1  |
| BUTUAN CITY.....   | 2707                      | 1162.2  | 4           | 1.7  | 1045                     | 448.6  | 274         | 117.6 |
| CAGAYAN DE ORO.... | 2218                      | 640.5   | 1           | 0.3  | 2367                     | 683.6  | 283         | 81.7  |
| GINGOOG CITY.....  | 740                       | 874.5   | 0           | -    | 278                      | 328.5  | 73          | 86.3  |
| OROQUIETA CITY.... | 7391                      | 13784.8 | 3           | 5.6  | 521                      | 971.7  | 56          | 104.4 |
| OZAMIS CITY.....   | 1922                      | 2060.5  | 6           | 6.4  | 846                      | 906.9  | 62          | 66.5  |
| SURIGAO CITY.....  | 76                        | 74.1    | 1           | 1.0  | 510                      | 497.4  | 55          | 53.6  |
| TANGUB CITY.....   | 8854                      | 20145.6 | 1           | 2.3  | 67                       | 152.4  | 44          | 100.1 |
| REGION 11          | 123960                    | 2719.6  | 23          | 0.5  | 20123                    | 441.5  | 2136        | 46.9  |
| COTABATO SOUTH.... | 21533                     | 2558.4  | 6           | 0.7  | 2645                     | 314.3  | 339         | 40.3  |
| DAVAO DEL NORTE... | 11265                     | 2788.3  | 2           | 0.5  | 3698                     | 915.3  | 573         | 141.8 |
| DAVAO ORIENTAL.... | 7649                      | 708.8   | 6           | 0.6  | 664                      | 61.5   | 158         | 14.6  |
| DAVAO DEL SUR....  | 53825                     | 8308.8  | 3           | 0.5  | 5508                     | 850.3  | 271         | 41.8  |
| SURIGAO DEL SUR... | 23958                     | 5181.3  | 5           | 1.1  | 3781                     | 817.7  | 219         | 47.4  |
| DAVAO CITY.....    | 5218                      | 601.6   | 1           | 0.1  | 3509                     | 404.6  | 386         | 44.5  |
| GEN. SANTOS CITY.. | 512                       | 200.1   | 0           | -    | 318                      | 124.3  | 190         | 74.3  |
| REGION 12          | 56307                     | 1734.9  | 15          | 0.5  | 15914                    | 490.3  | 562         | 17.3  |
| COTABATO NORTH.... | 16863                     | 2156.6  | 1           | 0.1  | 4756                     | 608.2  | 64          | 8.2   |
| LANAO DEL NORTE... | 9454                      | 2382.2  | 3           | 0.8  | 720                      | 181.4  | 120         | 30.2  |
| LANAO DEL SUR....  | 6882                      | 1323.2  | 0           | -    | 1973                     | 379.4  | 8           | 1.5   |
| MAGUINDANAO.....   | 4911                      | 761.0   | 0           | -    | 2426                     | 375.9  | 9           | 1.4   |
| SULTAN KUDARAT.... | 15929                     | 3570.2  | 0           | -    | 4670                     | 1046.7 | 95          | 21.3  |
| COTABATO CITY..... | 976                       | 749.7   | 0           | -    | 930                      | 714.3  | 34          | 26.1  |
| ILIGAN CITY.....   | 1211                      | 523.1   | 10          | 4.3  | 389                      | 168.0  | 223         | 96.3  |
| MARAWI CITY.....   | 81                        | 86.7    | 1           | 1.1  | 50                       | 53.5   | 9           | 9.6   |

TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| A R E A            | INFLUENZA<br>(487) |        |             |      | ACCIDENTS<br>(800-999, E800-E949) |        |             |       |
|--------------------|--------------------|--------|-------------|------|-----------------------------------|--------|-------------|-------|
|                    | C A S E S          |        | D E A T H S |      | C A S E S                         |        | D E A T H S |       |
|                    | NUMBER             | RATE   | NUMBER      | RATE | NUMBER                            | RATE   | NUMBER      | RATE  |
| PHILIPPINES.....   | 544768             | 878.0  | 605         | 1.0  | 133737                            | 215.5  | 12002       | 19.3  |
| NAT. CAP. REGION.. | 10715              | 132.3  | 20          | 0.2  | 5093                              | 62.9   | 965         | 11.9  |
| 1ST DIST. MANILA.. | 1391               | 56.7   | 3           | 0.1  | 1928                              | 78.6   | 367         | 15.0  |
| 2ND DIST. MUN..... | 990                | 84.4   | 7           | 0.7  | 371                               | 35.4   | 148         | 14.1  |
| QUEZON CITY.....   | 1526               | 89.6   | 0           | -    | 485                               | 28.5   | 249         | 14.6  |
| 3RD DIST. MUN..... | 2609               | 309.5  | 0           | -    | 1307                              | 155.1  | 39          | 4.6   |
| CALOCAN CITY.....  | 1362               | 174.5  | 1           | 0.1  | 171                               | 21.9   | 47          | 6.0   |
| 4TH DIST. MUN..... | 1829               | 204.1  | 8           | 0.9  | 349                               | 38.9   | 98          | 10.9  |
| PASAY CITY.....    | 1008               | 268.3  | 1           | 0.3  | 482                               | 128.3  | 17          | 4.5   |
| C.A.R.             | 13831              | 1182.9 | 8           | 0.7  | 3936                              | 336.6  | 774         | 66.2  |
| ABRA.....          | 4737               | 2506.6 | 2           | 1.1  | 190                               | 100.5  | 15          | 7.9   |
| BENGUET.....       | 1307               | 422.0  | 3           | 1.0  | 2366                              | 764.0  | 338         | 109.1 |
| IFUGAO.....        | 3201               | 2124.8 | 2           | 1.3  | 298                               | 197.8  | 28          | 18.6  |
| KALINGA-APAYAO.... | 2374               | 1096.1 | 0           | -    | 73                                | 33.7   | 40          | 18.5  |
| MT. PROVINCE.....  | 1936               | 1626.5 | 1           | 0.8  | 40                                | 33.6   | 21          | 17.6  |
| BAGUIO CITY.....   | 276                | 149.8  | 0           | -    | 969                               | 525.8  | 332         | 180.2 |
| REGION 1           | 17365              | 477.8  | 129         | 3.5  | 3082                              | 84.8   | 995         | 27.4  |
| ILOCOS NORTE.....  | 3371               | 872.8  | 12          | 3.1  | 1737                              | 449.8  | 97          | 25.1  |
| ILOCOS SUR.....    | 3175               | 596.7  | 7           | 1.3  | 196                               | 36.8   | 138         | 25.9  |
| LA UNION.....      | 2879               | 512.5  | 10          | 1.8  | 378                               | 67.3   | 263         | 46.8  |
| PANGASINAN.....    | 7304               | 402.2  | 80          | 4.4  | 560                               | 30.8   | 381         | 21.0  |
| DAGUPAN CITY.....  | 181                | 144.5  | 1           | 0.8  | 78                                | 62.3   | 69          | 55.1  |
| LAOAG CITY.....    | 130                | 151.5  | 4           | 4.7  | 80                                | 93.2   | 20          | 23.3  |
| SAN CARLOS CITY... | 325                | 254.7  | 15          | 11.8 | 53                                | 41.5   | 27          | 21.2  |
| REGION 2           | 42449              | 1773.3 | 31          | 1.3  | 21982                             | 918.3  | 704         | 29.4  |
| BATANES.....       | 305                | -      | 1           | 6.5  | 29                                | 189.0  | 6           | 39.1  |
| CAGAYAN.....       | 11070              | 1304.5 | 21          | 2.5  | 1662                              | 195.9  | 220         | 25.9  |
| ISABELA.....       | 15153              | 1371.2 | 8           | 0.7  | 14840                             | 1342.9 | 234         | 21.2  |
| NEUVA VIZCAYA..... | 15230              | 4945.4 | 1           | 0.3  | 5321                              | 1727.8 | 224         | 72.7  |
| QUIRINO.....       | 691                | 591.3  | 0           | -    | 130                               | 111.2  | 20          | 17.1  |
| REGION 3           | 26663              | 420.5  | 19          | 0.3  | 22775                             | 359.2  | 1424        | 22.5  |
| BATAAN.....        | 829                | 190.5  | 2           | 0.5  | 3114                              | 715.6  | 89          | 20.5  |
| BULACAN.....       | 1107               | 71.9   | 3           | 0.2  | 2048                              | 133.0  | 305         | 19.8  |
| NUEVA ECIJA.....   | 3493               | 336.6  | 6           | 0.6  | 6748                              | 650.3  | 206         | 19.9  |
| PAMPANGA.....      | 12039              | 908.0  | 2           | 0.2  | 1588                              | 119.8  | 195         | 14.7  |
| TARLAC.....        | 3543               | 402.4  | 2           | 0.2  | 7832                              | 889.6  | 213         | 24.2  |
| ZAMBALES.....      | 381                | 101.0  | 4           | 1.1  | 681                               | 180.5  | 97          | 25.7  |

TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| A R E A             | INFLUENZA<br>(487) |        |             |      | ACCIDENTS<br>(800-999;E800-E949) |       |             |      |
|---------------------|--------------------|--------|-------------|------|----------------------------------|-------|-------------|------|
|                     | C A S E S          |        | D E A T H S |      | C A S E S                        |       | D E A T H S |      |
|                     | NUMBER             | RATE   | NUMBER      | RATE | NUMBER                           | RATE  | NUMBER      | RATE |
| ANGELES CITY.....   | 3804               | 1572.7 | 0           | -    | 211                              | 87.2  | 47          | 19.4 |
| CABANATUAN CITY.... | 338                | 176.3  | 0           | -    | 237                              | 123.6 | 176         | 91.8 |
| OLONGAPO CITY.....  | 817                | 412.4  | 0           | -    | 251                              | 126.7 | 53          | 26.8 |
| PALAYAN CITY.....   | 156                | 718.3  | 0           | -    | 15                               | 69.1  | 6           | 27.6 |
| SAN JOSE CITY.....  | 156                | 169.6  | 0           | -    | 50                               | 54.4  | 37          | 40.2 |
| REGION 4            | 55641              | 658.5  | 53          | 0.6  | 13542                            | 160.3 | 1551        | 18.4 |
| AURORA.....         | 1609               | 1129.2 | 2           | 1.4  | 190                              | 133.3 | 33          | 23.2 |
| BATANGAS.....       | 3398               | 293.5  | 7           | 0.6  | 1875                             | 161.9 | 189         | 16.3 |
| CAVITE.....         | 3126               | 299.4  | 4           | 0.4  | 791                              | 75.8  | 151         | 14.5 |
| LAGUNA.....         | 7255               | 586.6  | 6           | 0.5  | 3571                             | 288.7 | 215         | 17.4 |
| MARINDUQUE.....     | 1153               | 607.0  | 7           | 3.7  | 79                               | 41.6  | 42          | 22.1 |
| MINDORO OCC.....    | 223                | 77.3   | 8           | 2.8  | 113                              | 39.2  | 42          | 14.6 |
| MINDORO OR.....     | 13653              | 2424.8 | 1           | 0.2  | 160                              | 28.4  | 88          | 15.6 |
| PALAWAN.....        | 7075               | 1588.5 | 5           | 1.1  | 457                              | 102.6 | 57          | 12.8 |
| QUEZON.....         | 3637               | 291.0  | 7           | 0.6  | 2638                             | 211.1 | 301         | 24.1 |
| RIZAL.....          | 5127               | 512.8  | 3           | 0.3  | 1868                             | 186.8 | 152         | 15.2 |
| ROMBLON.....        | 3869               | 1660.7 | 2           | 0.9  | 505                              | 216.8 | 39          | 16.7 |
| BATANGAS CITY.....  | 1321               | 687.0  | 1           | 0.5  | 45                               | 23.7  | 37          | 19.5 |
| CAVITE CITY.....    | 147                | 156.6  | 0           | -    | 24                               | 25.6  | 19          | 20.2 |
| LIPA CITY.....      | 2562               | 1561.7 | 0           | -    | 693                              | 422.4 | 27          | 16.5 |
| LUCENA CITY.....    | 146                | 95.1   | 0           | -    | 74                               | 43.2  | 58          | 37.8 |
| FUERTO PRINCESA.... | 401                | 435.8  | 0           | -    | 70                               | 76.1  | 51          | 55.4 |
| SAN PABLO CITY..... | 792                | 478.2  | 0           | -    | 371                              | 224.0 | 47          | 28.4 |
| TAGAYTAY CITY.....  | 104                | 427.6  | 0           | -    | 12                               | 49.3  | 2           | 8.2  |
| TRECE MARTIRES..... | 43                 | 267.5  | 0           | -    | 6                                | 37.3  | 1           | 6.2  |
| REGION 5            | 60997              | 1524.6 | 58          | 1.4  | 3082                             | 77.0  | 798         | 19.9 |
| ALBAY.....          | 12642              | 1578.4 | 10          | 1.2  | 334                              | 41.7  | 140         | 17.5 |
| CAMARINES NORTE.... | 1408               | 351.9  | 0           | -    | 797                              | 199.2 | 127         | 31.7 |
| CAMARINES SUR.....  | 27674              | 2483.7 | 12          | 1.1  | 456                              | 40.9  | 183         | 16.4 |
| CATANDUANES.....    | 2336               | 1220.4 | 11          | 5.7  | 99                               | 51.7  | 41          | 21.4 |
| MASBATE.....        | 12364              | 2014.8 | 2           | 0.3  | 499                              | 81.3  | 75          | 12.2 |
| SORSOGON.....       | 4479               | 837.1  | 21          | 3.9  | 728                              | 136.1 | 123         | 23.0 |
| IRIGA CITY.....     | 80                 | 95.8   | 1           | 1.2  | 21                               | 25.2  | 18          | 21.6 |
| LEGASPI CITY.....   | 5                  | 4.0    | 0           | -    | 57                               | 46.0  | 42          | 33.9 |
| NAGA CITY.....      | 9                  | 6.5    | 1           | 0.7  | 91                               | 65.8  | 49          | 35.4 |
| REGION 6            | 43503              | 788.4  | 135         | 2.4  | 12341                            | 223.7 | 1077        | 19.5 |
| AKLAN.....          | 2277               | 584.8  | 16          | 4.1  | 482                              | 123.8 | 99          | 25.4 |
| ANTIQUE.....        | 3746               | 900.7  | 4           | 1.0  | 2584                             | 621.3 | 86          | 20.7 |
| CAPIZ.....          | 11704              | 2510.1 | 2           | 0.4  | 950                              | 203.7 | 86          | 18.4 |
| ILOILO.....         | 10277              | 690.3  | 15          | 1.0  | 3541                             | 237.8 | 206         | 13.8 |
| NEGROS OCC.....     | 13055              | 921.2  | 54          | 3.8  | 3912                             | 276.0 | 238         | 16.8 |

TABLE 15

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES

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1990

| A R E A             | INFLUENZA<br>(487) |        |             |      | ACCIDENTS<br>(800-999; E800-E949) |       |             |      |
|---------------------|--------------------|--------|-------------|------|-----------------------------------|-------|-------------|------|
|                     | C A S E S          |        | D E A T H S |      | C A S E S                         |       | D E A T H S |      |
|                     | NUMBER             | RATE   | NUMBER      | RATE | NUMBER                            | RATE  | NUMBER      | RATE |
| BACOLOD CITY.....   | 766                | 205.3  | 15          | 4.0  | 497                               | 133.2 | 135         | 36.2 |
| BAGO CITY.....      | 10                 | 7.9    | 0           | -    | 39                                | 31.0  | 24          | 19.1 |
| CADIZ CITY.....     | 52                 | 42.4   | 0           | -    | 30                                | 24.4  | 13          | 10.6 |
| ILOILO CITY.....    | 619                | 195.2  | 16          | 5.0  | 180                               | 56.8  | 115         | 36.3 |
| LA CARLOTA CITY.... | 657                | 1136.0 | 0           | -    | 16                                | 27.7  | 5           | 8.6  |
| ROXAS CITY.....     | 71                 | 54.0   | 2           | 1.5  | 62                                | 47.1  | 29          | 22.0 |
| SAN CARLOS CITY.... | 58                 | 53.5   | 10          | 9.2  | 25                                | 23.1  | 21          | 19.4 |
| SILAY CITY.....     | 211                | 203.8  | 1           | 1.0  | 23                                | 22.2  | 20          | 19.3 |
| REGION 7            | 28005              | 596.5  | 23          | 0.5  | 9424                              | 200.7 | 909         | 19.4 |
| BOHOL.....          | 3529               | 386.4  | 5           | 0.5  | 851                               | 93.2  | 136         | 14.9 |
| CEBU.....           | 1337               | 86.1   | 8           | 0.5  | 3852                              | 254.6 | 235         | 15.1 |
| NEGROS OR.....      | 21348              | 2788.2 | 5           | 0.7  | 2696                              | 352.1 | 88          | 11.5 |
| SIGUIJOR.....       | 76                 | 100.4  | 0           | -    | 290                               | 383.1 | 5           | 6.6  |
| BAIS CITY.....      | 33                 | 54.1   | 0           | -    | 20                                | 32.8  | 7           | 11.5 |
| CANLAON CITY.....   | 0                  | -      | 0           | -    | 10                                | 26.3  | 6           | 15.8 |
| CEBU CITY.....      | 1161               | 187.4  | 4           | 0.6  | 1223                              | 197.4 | 233         | 37.6 |
| DANAO CITY.....     | 3                  | 4.0    | 0           | -    | 31                                | 41.3  | 21          | 28.0 |
| DUMAGUETE CITY....  | 20                 | 24.6   | 0           | -    | 98                                | 120.6 | 52          | 64.0 |
| LAPU-LAPU CITY....  | 196                | 131.4  | 1           | -    | 71                                | 47.6  | 27          | 18.1 |
| MANDANE CITY.....   | 6                  | 3.3    | 0           | -    | 63                                | 34.2  | 29          | 15.7 |
| TAGBILARAN CITY.... | 88                 | 154.3  | 0           | -    | 48                                | 85.9  | 37          | 64.9 |
| TOLEDO CITY.....    | 208                | 169.5  | 0           | -    | 70                                | 57.0  | 33          | 26.9 |
| REGION 8            | 32512              | 1040.8 | 92          | 2.9  | 11012                             | 352.5 | 590         | 18.9 |
| LEYTE DEL NORTE...  | 8296               | 665.4  | 70          | 5.6  | 3619                              | 290.2 | 246         | 19.7 |
| LEYTE DEL SUR.....  | 5981               | 1815.6 | 3           | 0.9  | 957                               | 290.5 | 58          | 17.6 |
| EASTERN SAMAR.....  | 4312               | 1280.4 | 10          | 3.0  | 641                               | 190.3 | 32          | 9.5  |
| NORTHERN SAMAR....  | 11316              | 2882.2 | 7           | 1.8  | 2178                              | 554.7 | 57          | 14.5 |
| WESTERN SAMAR.....  | 2478               | 580.1  | 1           | 0.2  | 3361                              | 786.8 | 62          | 14.5 |
| CALBAYOG CITY.....  | 41                 | 34.8   | 1           | 0.8  | 43                                | 36.5  | 25          | 21.2 |
| ORMOC CITY.....     | 85                 | 64.1   | 0           | -    | 83                                | 62.6  | 30          | 22.6 |
| TACLOBAN CITY.....  | 3                  | 2.1    | 0           | -    | 130                               | 92.5  | 30          | 56.9 |
| REGION 9            | 72903              | 2258.2 | 5           | 0.2  | 7364                              | 228.1 | 417         | 12.9 |
| BASILAN.....        | 779                | 319.4  | 1           | 0.4  | 147                               | 60.3  | 30          | 12.3 |
| SULU.....           | 4716               | 981.7  | 0           | -    | 696                               | 144.9 | 17          | 3.5  |
| TAWI-TAWI.....      | 1840               | 788.6  | 0           | -    | 102                               | 43.7  | 1           | 0.4  |
| ZAMB. DEL NORTE...  | 11046              | 2010.1 | 1           | 0.2  | 2239                              | 407.5 | 59          | 10.7 |
| ZAMB. DEL SUR.....  | 49181              | 4830.5 | 2           | 0.2  | 3801                              | 373.3 | 126         | 12.4 |

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TABLE 16

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
BY HEALTH REGION, PROVINCE & CITY  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1980

| AREA                | INFLUENZA<br>(487) |        |        |      | ACCIDENTS<br>(800-999; E800-E949) |       |        |      |
|---------------------|--------------------|--------|--------|------|-----------------------------------|-------|--------|------|
|                     | CASES              |        | DEATHS |      | CASES                             |       | DEATHS |      |
|                     | NUMBER             | RATE   | NUMBER | RATE | NUMBER                            | RATE  | NUMBER | RATE |
| DAVITAN CITY.....   | 474                | 769.2  | 0      | -    | 55                                | 89.3  | 11     | 17.9 |
| DIPOLOG CITY.....   | 391                | 479.7  | 0      | -    | 37                                | 45.4  | 16     | 19.6 |
| PAGADIAN CITY.....  | 3761               | 3472.9 | 0      | -    | 102                               | 94.2  | 35     | 32.3 |
| ZAMBOANGA CITY..... | 715                | 158.3  | 1      | 0.2  | 185                               | 41.0  | 122    | 27.0 |
| REGION 10           | 51358              | 1431.0 | 21     | 0.6  | 6375                              | 177.6 | 679    | 18.9 |
| AGUSAN DEL NORTE... | 1359               | 558.6  | 1      | 0.4  | 839                               | 344.8 | 43     | 17.7 |
| AGUSAN DEL SUR....  | 991                | 230.3  | 1      | 0.2  | 194                               | 45.1  | 89     | 23.0 |
| BUKIDNON.....       | 25890              | 3000.0 | 1      | 0.1  | 1213                              | 140.6 | 131    | 15.2 |
| CAMIGUIN.....       | 1438               | 2188.8 | 1      | 1.5  | 85                                | 129.3 | 12     | 18.2 |
| MISAMIS OCC.....    | 3272               | 1345.6 | 0      | -    | 546                               | 224.5 | 31     | 12.7 |
| MISAMIS OR.....     | 5505               | 1215.2 | 3      | 0.7  | 338                               | 74.6  | 97     | 21.4 |
| SURIGAO DEL NORTE.. | 3515               | 1054.9 | 2      | 0.6  | 223                               | 66.9  | 54     | 16.2 |
| BUTUAN CITY.....    | 648                | 278.2  | 1      | 0.4  | 422                               | 181.2 | 75     | 32.2 |
| CAGAYAN DE ORO....  | 474                | 136.9  | 0      | -    | 2106                              | 608.2 | 57     | 16.5 |
| GINGOOG CITY.....   | 3668               | 4334.9 | 0      | -    | 174                               | 205.6 | 26     | 30.7 |
| OROQUIETA CITY....  | 1369               | 2553.3 | 1      | 1.9  | 30                                | 56.0  | 13     | 24.2 |
| OZAMIS CITY.....    | 811                | 869.4  | 3      | 3.2  | 41                                | 44.0  | 12     | 12.9 |
| SURIGAO CITY.....   | 287                | 279.9  | 0      | -    | 43                                | 41.9  | 24     | 23.4 |
| TANGUB CITY.....    | 2131               | 4848.7 | 7      | 15.9 | 121                               | 275.3 | 5      | 11.4 |
| REGION 11           | 44130              | 968.2  | 10     | 0.2  | 9246                              | 202.8 | 840    | 18.4 |
| COTABATO SOUTH....  | 6814               | 809.6  | 2      | 0.2  | 1091                              | 129.6 | 135    | 16.0 |
| DAVAO DEL NORTE...  | 5883               | 1456.2 | 1      | 0.2  | 585                               | 144.8 | 213    | 52.7 |
| DAVAO ORIENTAL....  | 3543               | 328.3  | 0      | -    | 2512                              | 232.8 | 38     | 3.5  |
| DAVAO DEL SUR....   | 21437              | 3309.2 | 1      | 0.2  | 941                               | 145.3 | 93     | 14.4 |
| SURIGAO DEL SUR...  | 4747               | 1026.6 | 6      | 1.3  | 1210                              | 261.7 | 65     | 14.1 |
| DAVAO CITY.....     | 1481               | 170.8  | 0      | -    | 2555                              | 294.6 | 226    | 26.1 |
| GEN. SANTOS CITY..  | 225                | 88.0   | 0      | -    | 352                               | 137.6 | 70     | 27.4 |
| REGION 12           | 44696              | 1377.2 | 1      | 0.03 | 4483                              | 138.1 | 279    | 8.6  |
| COTABATO NORTH....  | 4853               | 620.6  | 0      | -    | 184                               | 23.5  | 33     | 4.2  |
| LANAO DEL NORTE...  | 12015              | 3027.5 | 0      | -    | 487                               | 122.7 | 48     | 12.1 |
| LANAO DEL SUR....   | 10293              | 1979.1 | 0      | -    | 910                               | 175.0 | 1      | 0.2  |
| MAGUINDANAO.....    | 6418               | 994.6  | 0      | -    | 1093                              | 169.4 | 36     | 5.6  |
| SULTAN KUDARAT....  | 10413              | 2333.9 | 0      | -    | 167                               | 37.4  | 44     | 9.9  |
| COTABATO CITY.....  | 184                | 141.3  | 1      | 0.8  | 63                                | 48.4  | 50     | 38.4 |
| ILIGAN CITY.....    | 422                | 182.3  | 0      | -    | 1531                              | 661.4 | 61     | 26.4 |
| MARAWI CITY.....    | 98                 | 104.9  | 0      | -    | 48                                | 51.4  | 6      | 6.4  |

TABLE 16

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NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1970-1990

|           | TYPHOID AND PARATYPHOID FEVER<br>AND OTHER SALMONELLA INFECTIONS<br>(002 - 003) |      |             |      |
|-----------|---|------|-------------|------|
|           | C A S E S   |      | D E A T H S |      |
|           | NUMBER  | RATE | NUMBER      | RATE |
| 1990..... | 15720   | 25.3 | 1045        | 1.7  |
| 1989..... | 17794   | 29.6 | 1233        | 2.1  |
| 1988..... | 15830   | 27.0 | 1356        | 2.3  |
| 1987..... | 15290   | 26.7 | 1121        | 2.0  |
| 1986..... | 13764   | 24.6 | 1024        | 1.8  |
| 1985..... | 15706   | 28.7 | 1071        | 2.6  |
| 1984..... | 10073   | 18.9 | 831         | 1.6  |
| 1983..... | 5420  | 10.4 | 697         | 1.3  |
| 1982..... | 5282  | 10.4 | 596         | 1.2  |
| 1981..... | 4300  | 8.7  | 676         | 1.4  |
| 1980..... | 3222  | 6.6  | 629         | 1.3  |
| 1979..... | 3525  | 7.6  | 656         | 1.4  |
| 1978..... | 3542  | 7.8  | 792         | 1.7  |
| 1977..... | 4333  | 9.6  | 768         | 1.7  |
| 1976..... | 3448  | 7.9  | 688         | 1.6  |
| 1975..... | 3101  | 7.3  | 596         | 1.4  |
| 1974..... | 3767  | 9.1  | 572         | 1.4  |
| 1973..... | 4878  | 12.1 | 587         | 1.5  |
| 1972..... | 4495  | 11.5 | 542         | 1.4  |
| 1971..... | 1417  | 3.7  | 371         | 1.0  |
| 1970..... | 2466  | 6.7  | 409         | 1.1  |

TABLE 16

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1970-1990

| YEAR      | DIARRHEAS<br>(004-009) |        |        |      | TUBERCULOSIS, ALL FORMS<br>(0010-018;137) |       |        |      |
|-----------|------------------------|--------|--------|------|---|-------|--------|------|
|           | CASES                  |        | DEATHS |      | CASES                                     |       | DEATHS |      |
|           | NUMBER                 | RATE   | NUMBER | RATE | NUMBER                                    | RATE  | NUMBER | RATE |
| 1990..... | 927860                 | 1495.4 | 6396   | 10.3 | 152688                                    | 246.1 | 24307  | 39.1 |
| 1989..... | 741733                 | 1234.2 | 6893   | 11.5 | 206508                                    | 343.6 | 26300  | 43.8 |
| 1988..... | 624355                 | 1063.3 | 9155   | 15.6 | 183113                                    | 311.8 | 27020  | 46.0 |
| 1987..... | 591858                 | 1031.8 | 9468   | 16.5 | 163740                                    | 285.5 | 28697  | 50.0 |
| 1986..... | 538849                 | 962.2  | 9815   | 17.2 | 153129                                    | 273.4 | 30604  | 54.6 |
| 1985..... | 522762                 | 956.2  | 11516  | 21.1 | 151028                                    | 276.3 | 31650  | 57.9 |
| 1984..... | 551560                 | 1036.9 | 11553  | 21.7 | 151867                                    | 285.5 | 27320  | 51.4 |
| 1983..... | 275068                 | 529.2  | 15090  | 29.0 | 106300                                    | 204.5 | 28580  | 55.0 |
| 1982..... | 221191                 | 435.6  | 12735  | 25.1 | 104715                                    | 206.2 | 28309  | 55.7 |
| 1981..... | 239117                 | 482.7  | 16196  | 32.7 | 116182                                    | 235.8 | 27317  | 51.1 |
| 1980..... | 199574                 | 413.0  | 13492  | 27.9 | 112307                                    | 232.4 | 28790  | 59.6 |
| 1979..... | 217155                 | 466.2  | 16683  | 35.8 | 108813                                    | 233.6 | 28221  | 60.6 |
| 1978..... | 210608                 | 462.6  | 15717  | 34.5 | 118587                                    | 260.5 | 28398  | 62.4 |
| 1977..... | 209040                 | 464.5  | 18041  | 40.1 | 107108                                    | 238.0 | 31805  | 70.7 |
| 1976..... | 299579                 | 524.7  | 15529  | 35.5 | 148057                                    | 338.4 | 31386  | 71.7 |
| 1975..... | 202472                 | 476.2  | 11818  | 27.8 | 133537                                    | 314.1 | 29436  | 69.8 |
| 1974..... | 245813                 | 582.9  | 15182  | 36.6 | 142250                                    | 343.1 | 31031  | 74.9 |
| 1973..... | 277108                 | 689.0  | 18106  | 45.0 | 137108                                    | 340.9 | 26011  | 64.7 |
| 1972..... | 258282                 | 661.6  | 17167  | 44.0 | 137038                                    | 351.0 | 29784  | 76.3 |
| 1971..... | 135127                 | 356.0  | 12237  | 32.2 | 127942                                    | 337.1 | 26021  | 68.6 |
| 1970..... | 210379                 | 570.9  | 12886  | 35.0 | 136035                                    | 369.2 | 29503  | 80.1 |

TABLE 16

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NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1970-1990

| YEAR      | LEPROSY<br>(030) |      |        |      | DIPHTHERIA<br>(032) |      |        |      |
|-----------|------------------|------|--------|------|---------------------|------|--------|------|
|           | CASES            |      | DEATHS |      | CASES               |      | DEATHS |      |
|           | NUMBER           | RATE | NUMBER | RATE | NUMBER              | RATE | NUMBER | RATE |
| 1990..... | 2827             | 4.6  | 65     | 0.1  | 921                 | 1.5  | 115    | 0.2  |
| 1989..... | 4228             | 7.0  | 95     | 0.2  | 1297                | 2.2  | 117    | 0.2  |
| 1988..... | 1661             | 2.8  | 86     | 0.1  | 1202                | 2.0  | 186    | 0.3  |
| 1987..... | 1766             | 3.1  | 63     | 0.1  | 1443                | 2.5  | 245    | 0.4  |
| 1986..... | 1815             | 3.2  | 81     | 0.1  | 1630                | 2.9  | 261    | 0.5  |
| 1985..... | 2090             | 3.8  | 124    | 0.2  | 1669                | 3.1  | 316    | 0.6  |
| 1984..... | 1798             | 3.4  | 68     | 0.1  | 1968                | 3.7  | 337    | 0.6  |
| 1983..... | 1153             | 2.2  | 89     | 0.2  | 1812                | 3.5  | 491    | 0.9  |
| 1982..... | 997              | 2.0  | 107    | 0.2  | 2140                | 4.2  | 524    | 1.0  |
| 1981..... | 958              | 1.9  | 123    | 0.2  | 819                 | 1.7  | 504    | 1.0  |
| 1980..... | 886              | 1.6  | 137    | 0.3  | 1910                | 4.0  | 414    | 0.9  |
| 1979..... | 690              | 1.5  | 131    | 0.3  | 1044                | 2.2  | 546    | 1.2  |
| 1978..... | 489              | 1.1  | 137    | 0.3  | 1389                | 3.1  | 455    | 1.0  |
| 1977..... | 504              | 1.1  | 137    | 0.3  | 2888                | 6.4  | 562    | 1.2  |
| 1976..... | 614              | 1.4  | 122    | 0.3  | 3371                | 7.7  | 641    | 1.5  |
| 1975..... | 504              | 1.2  | 97     | 0.2  | 1770                | 4.2  | 601    | 1.4  |
| 1974..... | 624              | 1.5  | 97     | 0.2  | 2884                | 7.0  | 519    | 1.3  |
| 1973..... | 484              | 1.2  | 65     | 0.2  | 3379                | 8.4  | 661    | 1.6  |
| 1972..... | 616              | 1.6  | 97     | 0.2  | 3342                | 8.6  | 616    | 1.6  |
| 1971..... | 691              | 1.8  | 74     | 0.2  | 1877                | 4.9  | 505    | 1.3  |
| 1970..... | 218              | 0.6  | 70     | 0.2  | 1770                | 4.8  | 602    | 1.6  |

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TABLE 16

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1970 - 1990

| YEAR      | WHOOPIING COUGH<br>(033) |      |        |      | TETANUS<br>(037) |      |        |      |
|-----------|--------------------------|------|--------|------|------------------|------|--------|------|
|           | CASES                    |      | DEATHS |      | CASES            |      | DEATHS |      |
|           | NUMBER                   | RATE | NUMBER | RATE | NUMBER           | RATE | NUMBER | RATE |
| 1990..... | 4135                     | 6.7  | 9      | 0.01 | 2286             | 3.7  | 989    | 1.6  |
| 1989..... | 9466                     | 15.8 | 12     | 0.02 | 3102             | 5.1  | 1040   | 1.7  |
| 1988..... | 7814                     | 13.3 | 14     | 0.02 | 3199             | 5.4  | 1069   | 1.8  |
| 1987..... | 8856                     | 15.4 | 26     | 0.05 | 2910             | 5.1  | 1026   | 1.8  |
| 1986..... | 16139                    | 28.8 | 31     | 0.06 | 3381             | 6.0  | 1034   | 1.8  |
| 1985..... | 19628                    | 35.9 | 45     | 0.08 | 3474             | 6.4  | 1033   | 1.9  |
| 1984..... | 21479                    | 40.4 | 51     | 0.1  | 3353             | 6.3  | 924    | 1.7  |
| 1983..... | 17380                    | 33.4 | 68     | 0.1  | 2912             | 5.6  | 941    | 1.8  |
| 1982..... | 15879                    | 31.3 | 80     | 0.2  | 2441             | 4.8  | 967    | 1.9  |
| 1981..... | 19178                    | 38.7 | 57     | 0.1  | 2242             | 4.5  | 913    | 1.8  |
| 1980..... | 19844                    | 41.1 | 98     | 0.2  | 3080             | 6.4  | 1004   | 2.1  |
| 1979..... | 21254                    | 45.6 | 157    | 0.3  | 2905             | 6.2  | 1226   | 2.6  |
| 1978..... | 15243                    | 33.5 | 80     | 0.2  | 4236             | 9.3  | 3471   | 7.6  |
| 1977..... | 21403                    | 47.6 | 111    | 0.2  | 5539             | 12.3 | 3791   | 8.4  |
| 1976..... | 27442                    | 62.7 | 117    | 0.3  | 4745             | 10.8 | 4114   | 9.4  |
| 1975..... | 28231                    | 66.4 | 31     | 0.2  | 4575             | 10.8 | 4244   | 10.0 |
| 1974..... | 22042                    | 53.2 | 58     | 0.1  | 4516             | 10.9 | 3794   | 9.2  |
| 1973..... | 20210                    | 50.3 | 46     | 0.1  | 4483             | 11.2 | 3614   | 9.0  |
| 1972..... | 26311                    | 67.4 | 62     | 0.2  | 4679             | 12.0 | 3640   | 9.3  |
| 1971..... | 24269                    | 63.9 | 52     | 0.1  | 3945             | 10.4 | 3183   | 8.4  |
| 1970..... | 19946                    | 54.1 | 64     | 0.2  | 4206             | 11.4 | 3717   | 10.1 |

TABLE 16

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1970 - 1990

| YEAR      | ACUTE POLIOMYELITIS<br>(045-138) |      |        |      | VARICELLA<br>(052) |      |        |       |
|-----------|----------------------------------|------|--------|------|--------------------|------|--------|-------|
|           | CASES                            |      | DEATHS |      | CASES              |      | DEATHS |       |
|           | NUMBER                           | RATE | NUMBER | RATE | NUMBER             | RATE | NUMBER | RATE  |
| 1990..... | 98                               | 0.2  | 23     | 0.04 | 33177              | 53.5 | 20     | 0.03  |
| 1989..... | 335                              | 0.6  | 32     | 0.05 | 16931              | 28.2 | 23     | 0.04  |
| 1988..... | 344                              | 0.6  | 40     | 0.07 | 6767               | 11.5 | 12     | 0.02  |
| 1987..... | 327                              | 0.6  | 43     | 0.07 | 6336               | 11.0 | 15     | 0.03  |
| 1986..... | 375                              | 0.7  | 45     | 0.08 | 3121               | 5.6  | 4      | 0.007 |
| 1985..... | 557                              | 1.0  | 61     | 0.1  | 3844               | 7.0  | 10     | 0.02  |
| 1984..... | 428                              | 0.8  | 66     | 0.1  | 3409               | 6.4  | 11     | 0.02  |
| 1983..... | 355                              | 0.7  | 94     | 0.2  | 1850               | 3.6  | 15     | 0.03  |
| 1982..... | 440                              | 0.9  | 101    | 0.2  | 1506               | 3.0  | 22     | 0.04  |
| 1981..... | 292                              | 0.6  | 118    | 0.2  | 1176               | 2.4  | 20     | 0.04  |
| 1980..... | 432                              | 0.9  | 201    | 0.4  | 1112               | 2.3  | 23     | 0.04  |
| 1979..... | 1054                             | 2.3  | 353    | 0.8  | 1028               | 2.2  | 34     | 0.07  |
| 1978..... | 835                              | 1.8  | 185    | 0.4  | 1261               | 2.8  | 38     | 0.08  |
| 1977..... | 1454                             | 3.2  | 357    | 0.8  | 1171               | 2.6  | 45     | 0.1   |
| 1976..... | 805                              | 1.8  | 196    | 0.4  | 2226               | 5.1  | 52     | 0.1   |
| 1975..... | 793                              | 1.9  | 165    | 0.4  | 1408               | 3.3  | 33     | 0.08  |
| 1974..... | 916                              | 2.2  | 195    | 0.5  | 1977               | 4.8  | 37     | 0.09  |
| 1973..... | 854                              | 2.1  | 254    | 0.6  | 2309               | 5.7  | 36     | 0.09  |
| 1972..... | 914                              | 2.3  | 169    | 0.4  | 1878               | 4.8  | 35     | 0.09  |
| 1971..... | 883                              | 2.3  | 170    | 0.4  | 2061               | 5.4  | 40     | 0.1   |
| 1970..... | 581                              | 1.6  | 227    | 0.6  | 1975               | 5.4  | 25     | 0.07  |

TABLE 16

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1970-1990

| YEAR      | MEASLES<br>(055) |       |        |      | H - FEVER<br>(061-065) |      |        |      |
|-----------|------------------|-------|--------|------|------------------------|------|--------|------|
|           | CASES            |       | DEATHS |      | CASES                  |      | DEATHS |      |
|           | NUMBER           | RATE  | NUMBER | RATE | NUMBER                 | RATE | NUMBER | RATE |
|           |                  |       |        |      |                        |      |        |      |
| 1990..... | 42938            | 69.2  | 3499   | 5.6  | 4836                   | 7.8  | 363    | 0.6  |
| 1989..... | 68496            | 114.0 | 6734   | 11.2 | 2240                   | 3.7  | 199    | 0.3  |
| 1988..... | 70801            | 120.6 | 7775   | 13.5 | 2821                   | 4.8  | 300    | 0.5  |
| 1987..... | 81896            | 142.8 | 12431  | 21.7 | 1686                   | 3.0  | 243    | 0.4  |
| 1986..... | 59375            | 106.0 | 6249   | 11.2 | 1623                   | 2.9  | 191    | 0.3  |
| 1985..... | 62959            | 115.2 | 8043   | 14.7 | 2096                   | 3.8  | 210    | 0.4  |
| 1984..... | 75290            | 141.5 | 7987   | 15.0 | 2514                   | 4.7  | 103    | 0.2  |
| 1983..... | 43684            | 84.1  | 9286   | 17.9 | 1684                   | 3.2  | 305    | 0.6  |
| 1982..... | 35989            | 70.9  | 7136   | 14.1 | 816                    | 1.6  | 192    | 0.4  |
| 1981..... | 27031            | 54.6  | 6951   | 14.0 | 324                    | 0.7  | 112    | 0.2  |
| 1980..... | 26765            | 55.4  | 5191   | 10.7 | 627                    | 1.3  | 103    | 0.2  |
| 1979..... | 29230            | 62.8  | 5607   | 12.0 | 438                    | 0.9  | 18     | 0.4  |
| 1978..... | 27842            | 61.2  | 5605   | 12.3 | 358                    | 0.8  | 213    | 0.5  |
| 1977..... | 27694            | 61.5  | 5293   | 11.8 | 729                    | 1.6  | 224    | 0.5  |
| 1976..... | 29901            | 68.3  | 5060   | 11.5 | 575                    | 1.3  | 174    | 0.4  |
| 1975..... | 28198            | 66.3  | 3632   | 8.5  | 716                    | 1.7  | 170    | 0.4  |
| 1974..... | 22999            | 55.5  | 3533   | 8.5  | 665                    | 1.6  | 153    | 0.4  |
| 1973..... | 28568            | 71.0  | 4866   | 12.1 | 710                    | 1.8  | 214    | 0.5  |
| 1972..... | 15451            | 39.6  | 2078   | 5.3  | 1570                   | 4.0  | 83     | 0.2  |
| 1971..... | 26492            | 69.8  | 3264   | 8.6  | 438                    | 1.2  | 34     | 0.09 |
| 1970..... | 20446            | 55.5  | 1667   | 4.5  | 922                    | 2.5  | 83     | 0.2  |

TABLE 16

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NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1970-1990

| YEAR      | INFECTIOUS HEPATITIS<br>(070) |      |        |      | MALARIA<br>(084) |       |        |      |
|-----------|-------------------------------|------|--------|------|------------------|-------|--------|------|
|           | CASES                         |      | DEATHS |      | CASES            |       | DEATHS |      |
|           | NUMBER                        | RATE | NUMBER | RATE | NUMBER           | RATE  | NUMBER | RATE |
| 1990..... | 14709                         | 23.7 | 936    | 1.5  | 73625            | 118.7 | 913    | 1.5  |
| 1989..... | 14761                         | 24.6 | 850    | 1.4  | 125114           | 208.2 | 989    | 1.6  |
| 1988..... | 16125                         | 27.5 | 825    | 1.4  | 114679           | 185.3 | 1176   | 2.0  |
| 1987..... | 16084                         | 28.0 | 817    | 1.4  | 121097           | 211.1 | 1226   | 2.1  |
| 1986..... | 14523                         | 25.9 | 728    | 1.3  | 124153           | 221.7 | 1156   | 2.1  |
| 1985..... | 16022                         | 29.3 | 607    | 1.1  | 121975           | 223.1 | 1166   | 2.1  |
| 1984..... | 15320                         | 28.8 | 625    | 1.2  | 107485           | 202.1 | 923    | 1.7  |
| 1983..... | 9549                          | 18.4 | 653    | 1.3  | 55019            | 105.9 | 1086   | 2.1  |
| 1982..... | 8615                          | 17.0 | 739    | 1.5  | 40496            | 79.7  | 985    | 1.9  |
| 1981..... | 9943                          | 20.1 | 660    | 1.3  | 44118            | 89.1  | 1071   | 2.2  |
| 1980..... | 9578                          | 19.8 | 828    | 1.7  | 39678            | 82.1  | 1091   | 2.2  |
| 1979..... | 8850                          | 19.0 | 750    | 1.6  | 31779            | 68.2  | 1142   | 2.5  |
| 1978..... | 7172                          | 15.8 | 813    | 1.8  | 35353            | 77.7  | 1077   | 2.4  |
| 1977..... | 7392                          | 16.4 | 761    | 1.7  | 29955            | 66.6  | 974    | 2.2  |
| 1976..... | 6815                          | 15.6 | 772    | 1.8  | 35553            | 81.3  | 997    | 2.3  |
| 1975..... | 4410                          | 10.4 | 649    | 1.5  | 27077            | 63.7  | 1018   | 2.4  |
| 1974..... | 5977                          | 14.4 | 635    | 1.5  | 27420            | 66.1  | 938    | 2.3  |
| 1973..... | 6752                          | 16.8 | 548    | 1.4  | 31999            | 79.6  | 845    | 2.1  |
| 1972..... | 4789                          | 12.3 | 398    | 1.0  | 27090            | 69.4  | 656    | 1.7  |
| 1971..... | 3568                          | 9.4  | 304    | 0.8  | 25338            | 66.8  | 547    | 1.4  |
| 1970..... | 3582                          | 9.7  | 453    | 1.2  | 28594            | 77.6  | 666    | 1.8  |

TABLE 16

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1970-1990

| YEAR      | SYPHILIS<br>(090-097) |      |        |      | GONOCOCCAL INFECTION<br>(098) |      |        |       |
|-----------|-----------------------|------|--------|------|-------------------------------|------|--------|-------|
|           | CASES                 |      | DEATHS |      | CASES                         |      | DEATHS |       |
|           | NUMBER                | RATE | NUMBER | RATE | NUMBER                        | RATE | NUMBER | RATE  |
| 1990..... | 151                   | 0.2  | 3      | 0.00 | 6374                          | 10.3 | 0      | -     |
| 1989..... | 99                    | 0.2  | 9      | 0.01 | 8635                          | 14.4 | 0      | -     |
| 1988..... | 99                    | 0.2  | 9      | 0.02 | 8342                          | 14.2 | 0      | -     |
| 1987..... | 62                    | 0.1  | 9      | 0.02 | 11361                         | 19.8 | 0      | -     |
| 1986..... | 69                    | 0.1  | 8      | 0.01 | 11731                         | 20.9 | 0      | -     |
| 1985..... | 91                    | 0.02 | 9      | 0.02 | 15329                         | 28.0 | 0      | -     |
| 1984..... | 201                   | 0.4  | 42     | 0.08 | 13806                         | 26.0 | 0      | -     |
| 1983..... | 102                   | 0.2  | 16     | 0.03 | 13359                         | 25.7 | 5      | 0.01  |
| 1982..... | 114                   | 0.2  | 11     | 0.02 | 13970                         | 27.5 | 2      | 0.004 |
| 1981..... | 59                    | 0.1  | 4      | 0.01 | 6432                          | 13.0 | 0      | -     |
| 1980..... | 83                    | 0.2  | 9      | 0.01 | 6786                          | 14.0 | 0      | -     |
| 1979..... | 94                    | 0.2  | 26     | 0.06 | 9288                          | 19.9 | 0      | -     |
| 1978..... | 60                    | 0.1  | 16     | 0.04 | 8423                          | 18.5 | 0      | -     |
| 1977..... | 84                    | 0.2  | 29     | 0.06 | 9879                          | 22.0 | 1      | 0.002 |
| 1976..... | 71                    | 0.2  | 23     | 0.05 | 9174                          | 21.0 | 2      | 0.004 |
| 1975..... | 33                    | 0.08 | 14     | 0.03 | 8165                          | 19.2 | 1      | 0.002 |
| 1974..... | 45                    | 0.1  | 17     | 0.04 | 17147                         | 41.4 | 0      | -     |
| 1973..... | 49                    | 0.1  | 25     | 0.06 | 12600                         | 31.3 | 0      | -     |
| 1972..... | 94                    | 0.2  | 76     | 0.2  | 10406                         | 26.7 | 0      | -     |
| 1971..... | 71                    | 0.2  | 69     | 0.2  | 10815                         | 28.5 | 10     | 0.03  |
| 1970..... | 27                    | 0.07 | 16     | 0.04 | 11514                         | 31.2 | 17     | 0.05  |

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1970-1990

| YEAR      | SCHISTOSOMIASIS<br>(120) |      |        |      | FILARIASIS<br>(125) |      |        |       |
|-----------|--------------------------|------|--------|------|---------------------|------|--------|-------|
|           | CASES                    |      | DEATHS |      | CASES               |      | DEATHS |       |
|           | NUMBER                   | RATE | NUMBER | RATE | NUMBER              | RATE | NUMBER | RATE  |
| 1990..... | 14781                    | 23.8 | 272    | 0.4  | 286                 | 0.5  | 1      | 0.00  |
| 1989..... | 25699                    | 42.8 | 273    | 0.5  | 188                 | 0.3  | 1      | 0.002 |
| 1988..... | 12273                    | 20.9 | 301    | 0.5  | 290                 | 0.5  | 0      | -     |
| 1987..... | 13892                    | 24.2 | 288    | 0.5  | 354                 | 0.6  | 0      | -     |
| 1986..... | 11074                    | 19.8 | 281    | 1.0  | 300                 | 0.5  | 1      | 0.002 |
| 1985..... | 9764                     | 17.9 | 416    | 0.8  | 259                 | 0.5  | 2      | 0.004 |
| 1984..... | 4388                     | 8.2  | 416    | 0.8  | 493                 | 0.9  | 2      | 0.004 |
| 1983..... | 3454                     | 6.6  | 452    | 0.9  | 74                  | 0.1  | 5      | 0.01  |
| 1982..... | 3801                     | 7.5  | 426    | 0.8  | 77                  | 0.2  | 4      | 0.01  |
| 1981..... | 3009                     | 6.1  | 398    | 0.8  | 28                  | 0.06 | 4      | 0.01  |
| 1980..... | 2686                     | 5.6  | 426    | 0.9  | 30                  | 0.06 | 4      | 0.01  |
| 1979..... | 2923                     | 6.3  | 452    | 1.0  | 6                   | 0.01 | 3      | 0.006 |
| 1978..... | 4216                     | 9.3  | 496    | 1.1  | 6                   | 0.01 | 4      | 0.009 |
| 1977..... | 3802                     | 8.4  | 588    | 1.3  | 9                   | 0.02 | 0      | -     |
| 1976..... | 5094                     | 11.6 | 642    | 1.5  | 62                  | 0.1  | 5      | 0.01  |
| 1975..... | 2643                     | 6.2  | 523    | 1.2  | 30                  | 0.07 | 4      | 0.009 |
| 1974..... | 3482                     | 8.4  | 535    | 1.3  | 226                 | 0.5  | 0      | -     |
| 1973..... | 3094                     | 7.7  | 494    | 1.2  | 70                  | 0.2  | 2      | 0.05  |
| 1972..... | 2816                     | 7.2  | 472    | 1.2  | 21                  | 0.05 | 4      | 0.01  |
| 1971..... | 4005                     | 10.6 | 395    | 1.0  | 308                 | 0.8  | 3      | 0.008 |
| 1970..... | 3276                     | 8.6  | 558    | 1.5  | 69                  | 0.2  | 6      | 0.02  |

NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1970-1990

| YEAR      | MALIGNANT NEOPLASMS<br>(140-239) |      |        |      | BRONCHITIS<br>(466) |        |        |      |
|-----------|----------------------------------|------|--------|------|---------------------|--------|--------|------|
|           | CASES                            |      | DEATHS |      | CASES               |        | DEATHS |      |
|           | NUMBER                           | RATE | NUMBER | RATE | NUMBER              | RATE   | NUMBER | RATE |
| 1990..... | 33702                            | 54.3 | 21979  | 35.4 | 980557              | 1580.3 | 1008   | 1.6  |
| 1989..... | 33777                            | 56.2 | 21933  | 36.5 | 893550              | 1486.8 | 1105   | 1.8  |
| 1988..... | 28940                            | 49.3 | 21184  | 36.1 | 759511              | 1293.4 | 1438   | 2.4  |
| 1987..... | 27195                            | 47.4 | 20367  | 35.5 | 642777              | 1120.6 | 1814   | 3.2  |
| 1986..... | 26985                            | 48.2 | 18395  | 32.8 | 602851              | 1076.4 | 1985   | 3.5  |
| 1985..... | 24270                            | 44.4 | 18143  | 33.2 | 586427              | 1072.7 | 2078   | 3.8  |
| 1984..... | 24191                            | 45.5 | 17700  | 33.3 | 606880              | 1140.9 | 1764   | 3.3  |
| 1983..... | 25838                            | 49.7 | 17997  | 34.6 | 352447              | 678.1  | 2052   | 3.9  |
| 1982..... | 26867                            | 52.9 | 16832  | 33.1 | 280431              | 552.2  | 2250   | 4.4  |
| 1981..... | 24777                            | 50.0 | 16059  | 32.4 | 220698              | 445.5  | 1476   | 3.0  |
| 1980..... | 28905                            | 59.8 | 16019  | 33.1 | 206469              | 427.3  | 2756   | 5.7  |
| 1979..... | 20213                            | 43.4 | 15449  | 33.2 | 219527              | 471.3  | 3219   | 6.9  |
| 1978..... | 19865                            | 43.6 | 14182  | 31.1 | 207426              | 455.6  | 5929   | 13.0 |
| 1977..... | 20730                            | 46.1 | 13977  | 31.1 | 180259              | 400.5  | 6347   | 14.1 |
| 1976..... | 13439                            | 30.7 | 13173  | 30.1 | 199034              | 454.9  | 7142   | 16.3 |
| 1975..... | 12531                            | 29.5 | 12498  | 29.4 | *                   | *      | *      | *    |
| 1974..... | 12757                            | 30.8 | 12469  | 30.1 | *                   | *      | *      | *    |
| 1973..... | 11556                            | 28.7 | 11490  | 28.6 | 338062              | 840.6  | 8782   | 21.8 |
| 1972..... | 10490                            | 26.9 | 10268  | 26.3 | 335439              | 859.2  | 9250   | 23.7 |
| 1971..... | 9606                             | 25.3 | 9480   | 25.0 | 317651              | 836.8  | 8199   | 21.6 |
| 1970..... | 9660                             | 26.2 | 9485   | 25.0 | 323266              | 877.3  | 10263  | 27.8 |

\*Bronchitis was not included among the Reported Notifiable diseases as per Department Order No.200 s. 1974.

TABLE 16

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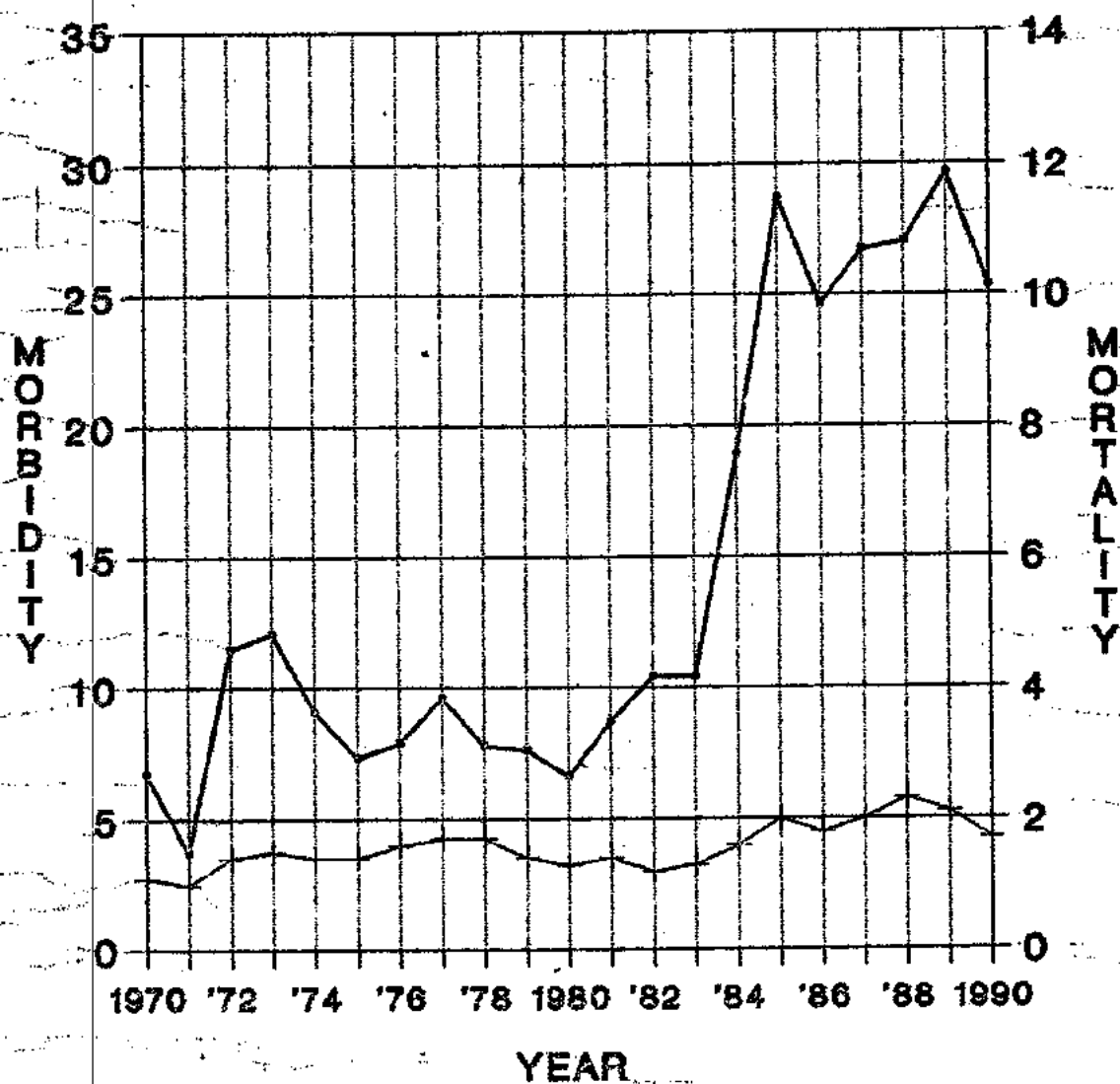
NOTIFIABLE DISEASES: REPORTED CASES & DEATHS  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1970-1990

| YEAR      | PNEUMONIAS<br>(480-486) |       |        |       | INFLUENZA<br>(487) |        |        |      |
|-----------|-------------------------|-------|--------|-------|--------------------|--------|--------|------|
|           | CASES                   |       | DEATHS |       | CASES              |        | DEATHS |      |
|           | NUMBER                  | RATE  | NUMBER | RATE  | NUMBER             | RATE   | NUMBER | RATE |
| 1990..... | 235947                  | 380.3 | 41181  | 66.4  | 544768             | 878.0  | 605    | 1.0  |
| 1989..... | 232056                  | 386.1 | 46268  | 77.0  | 773802             | 1287.6 | 770    | 1.3  |
| 1988..... | 201902                  | 343.8 | 47444  | 80.8  | 576404             | 981.6  | 791    | 1.3  |
| 1987..... | 183143                  | 319.3 | 52700  | 81.9  | 485161             | 863.3  | 1151   | 2.0  |
| 1986..... | 190208                  | 339.6 | 50621  | 80.4  | 397715             | 710.2  | 1221   | 2.2  |
| 1985..... | 205387                  | 375.7 | 52888  | 86.7  | 447550             | 818.7  | 1400   | 2.6  |
| 1984..... | 193594                  | 363.9 | 45971  | 86.4  | 453926             | 853.4  | 1150   | 2.2  |
| 1983..... | 123420                  | 237.5 | 48650  | 93.6  | 256534             | 493.6  | 1215   | 2.3  |
| 1982..... | 106563                  | 209.8 | 45373  | 89.3  | 226237             | 445.5  | 1297   | 2.6  |
| 1981..... | 123154                  | 248.6 | 43164  | 87.1  | 251200             | 507.1  | 2715   | 5.5  |
| 1980..... | 117270                  | 242.7 | 45209  | 93.6  | 202884             | 419.9  | 1913   | 4.0  |
| 1979..... | 126797                  | 272.2 | 49019  | 105.2 | 189126             | 406.0  | 1803   | 3.9  |
| 1978..... | 113257                  | 248.8 | 45667  | 100.3 | 222064             | 487.7  | 1893   | 4.2  |
| 1977..... | 104074                  | 231.2 | 47302  | 105.1 | 276399             | 614.1  | 2859   | 6.4  |
| 1976..... | 111767                  | 255.5 | 47105  | 107.7 | 263118             | 601.4  | 2781   | 6.4  |
| 1975..... | 96961                   | 228.1 | 43349  | 102.0 | 246057             | 578.7  | 2172   | 5.1  |
| 1974..... | 93050                   | 224.4 | 45910  | 110.7 | 297474             | 717.5  | 2945   | 7.1  |
| 1973..... | 93569                   | 232.6 | 48058  | 119.5 | 319955             | 795.5  | 2361   | 5.9  |
| 1972..... | 95717                   | 245.2 | 48831  | 125.1 | 395185             | 1012.3 | 3266   | 8.4  |
| 1971..... | 87953                   | 231.7 | 40528  | 106.8 | 193910             | 510.8  | 1814   | 4.8  |
| 1970..... | 86040                   | 233.5 | 43573  | 118.2 | 388769             | 1055.0 | 2639   | 7.2  |

# TYPHOID & PARATYPHOID & OTHER SAL. INF.

## MORBIDITY & MORTALITY TRENDS

Rate per 100,000 Pop., Phils., 1970-1990



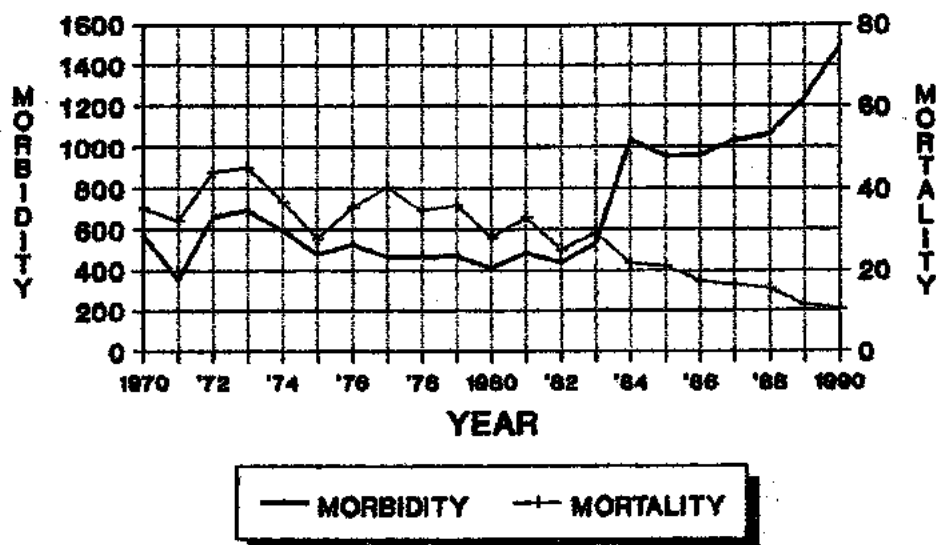
— MORBIDITY —+— MORTALITY

Fig.11

# DIARRHEAS

## MORBIDITY & MORTALITY TRENDS

Rate per 100,000 Pop., Phils., 1970-1990



# TUBERCULOSIS, ALL FORMS

## MORBIDITY & MORTALITY TRENDS

Rate per 100,000 Pop., Phils., 1970-1990

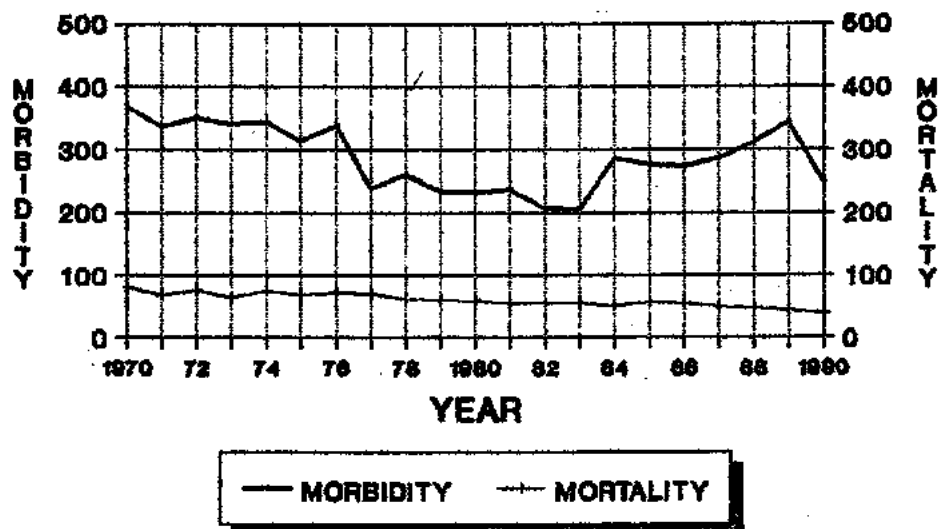
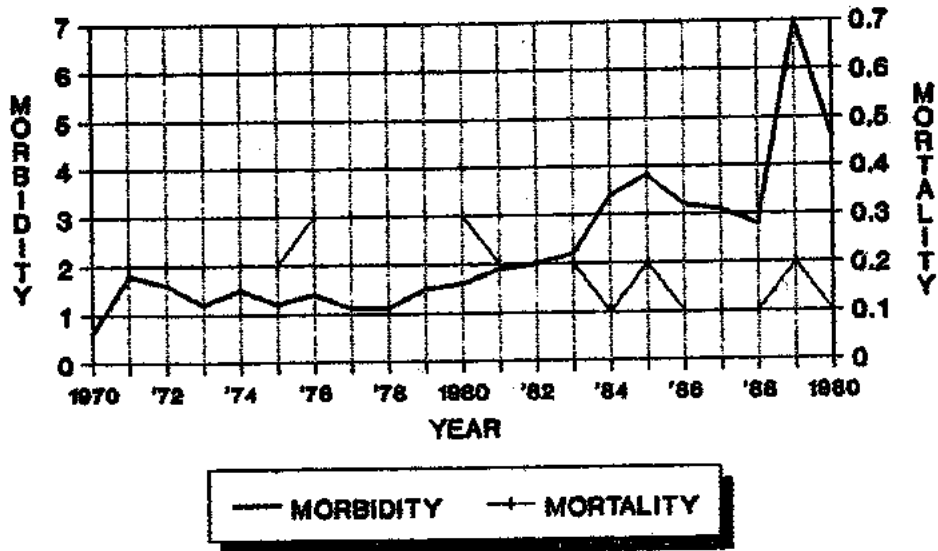


Fig. 12

# LEPROSY

## MORBIDITY & MORTALITY TRENDS

Rate per 100,000 Pop., Phils., 1970-1990



# DIPHTHERIA

## MORBIDITY & MORTALITY TRENDS

Rate per 100,000 Pop., Phils., 1970-1990

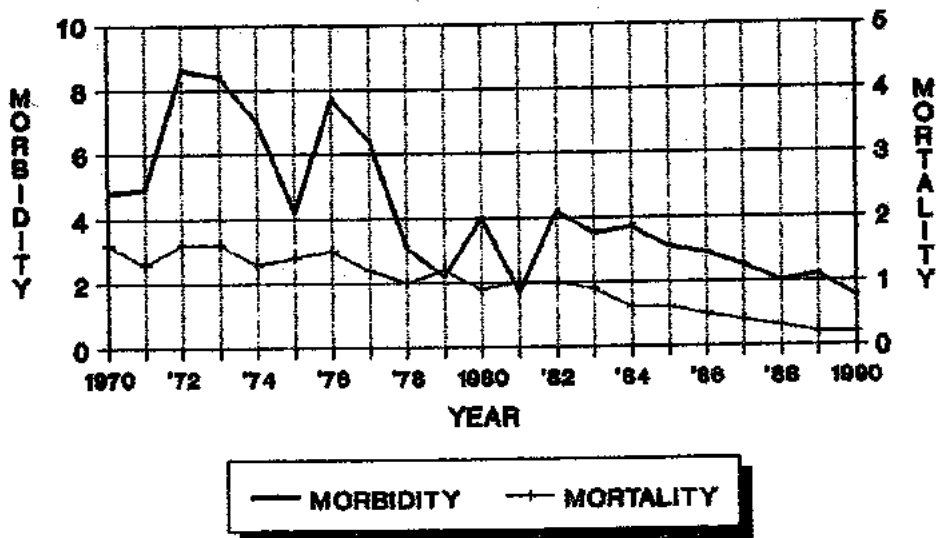
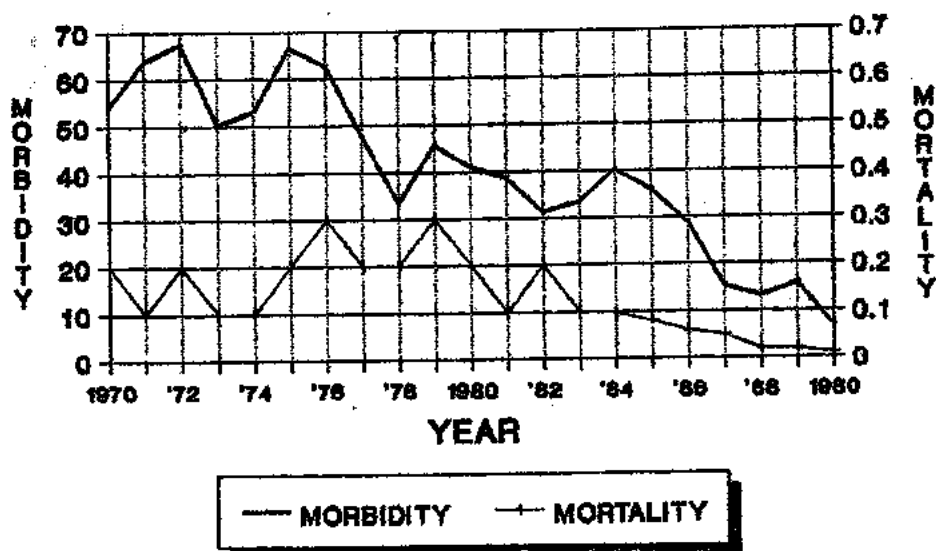
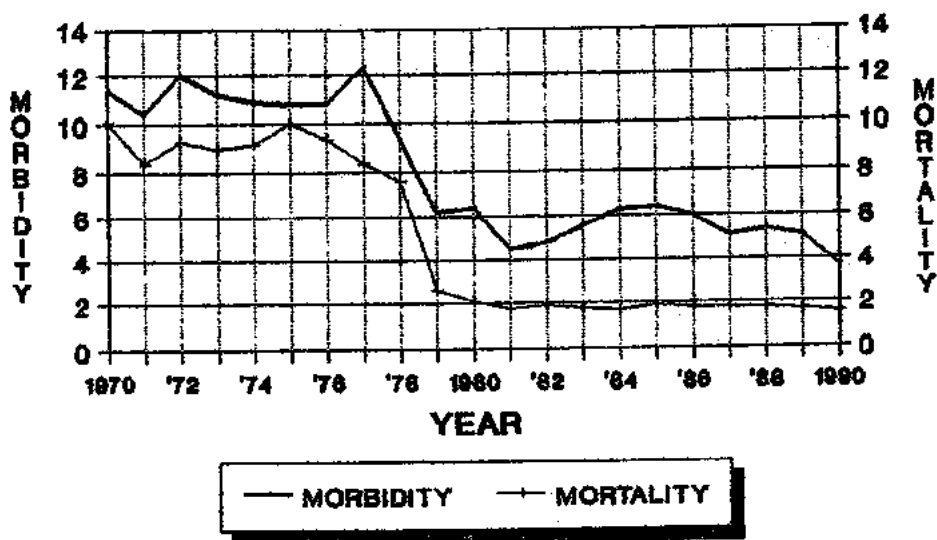


Fig. 13

# **WHOOPING COUGH** **MORBIDITY & MORTALITY TRENDS** Rate per 100,000 Pop., Phils., 1970-1990



# **TETANUS** **MORBIDITY & MORTALITY TRENDS** Rate per 100,000 Pop., Phils., 1970-1990

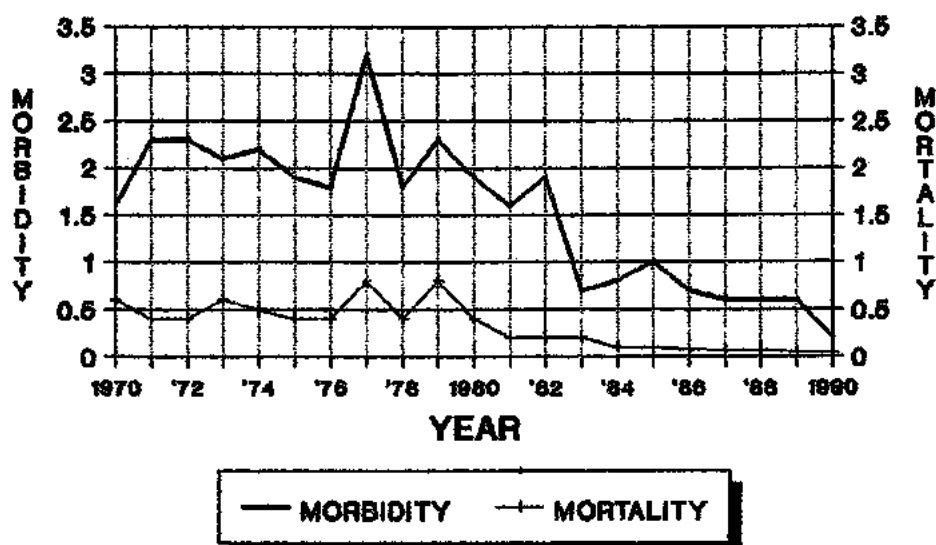


**Fig. 14**

# ACUTE POLIOMYELITIS

## MORBIDITY & MORTALITY TRENDS

Rate per 100,000 Pop., Phils., 1970-1990



# VARICELLA

## MORBIDITY & MORTALITY TRENDS

Rate per 100,000 Pop., Phils., 1970-1990

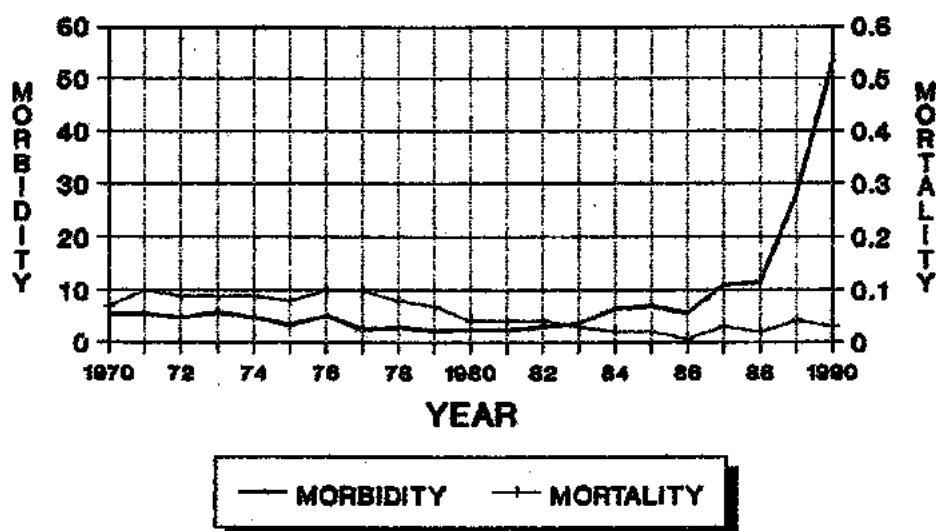
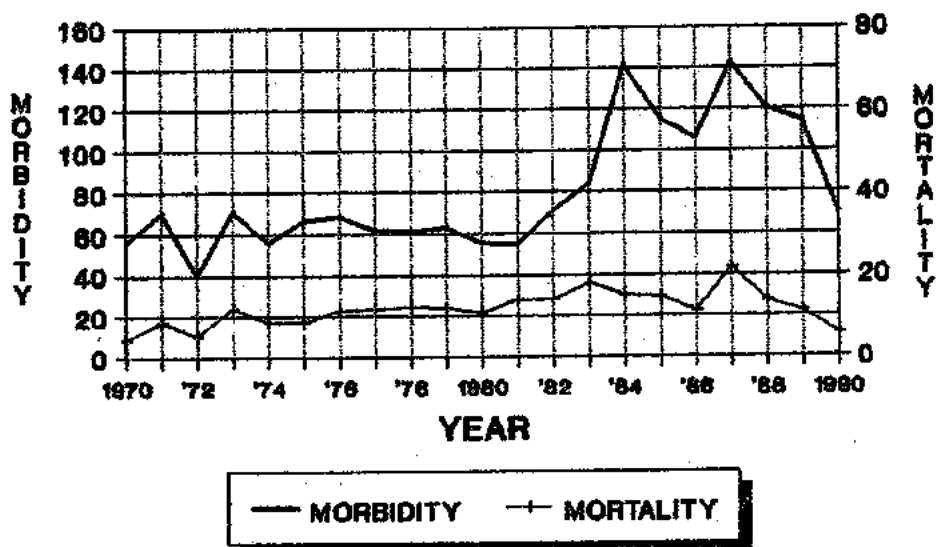


Fig. 15

# MEASLES

## MORBIDITY & MORTALITY TRENDS

Rate per 100,000 Pop., Phils., 1970-1990



# H-FEVER

## MORBIDITY & MORTALITY TRENDS

Rate per 100,000 Pop., Phils., 1970-1990

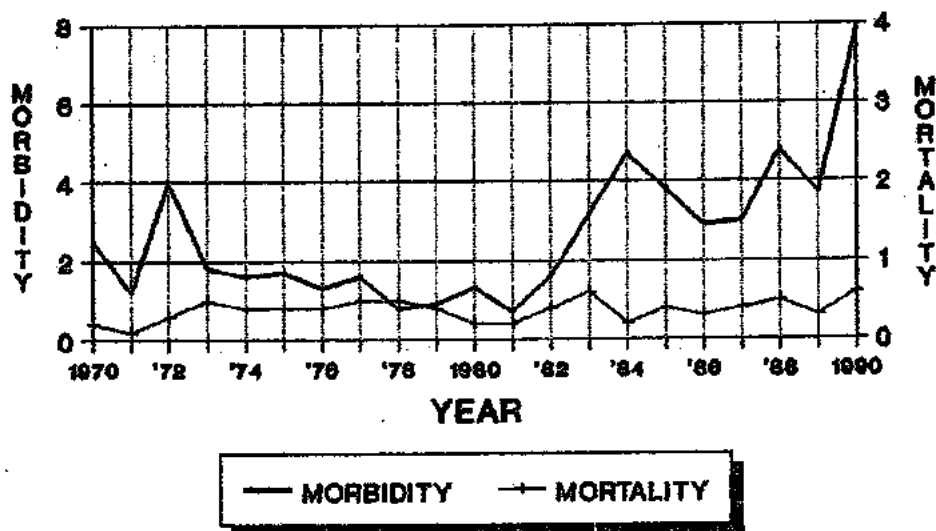
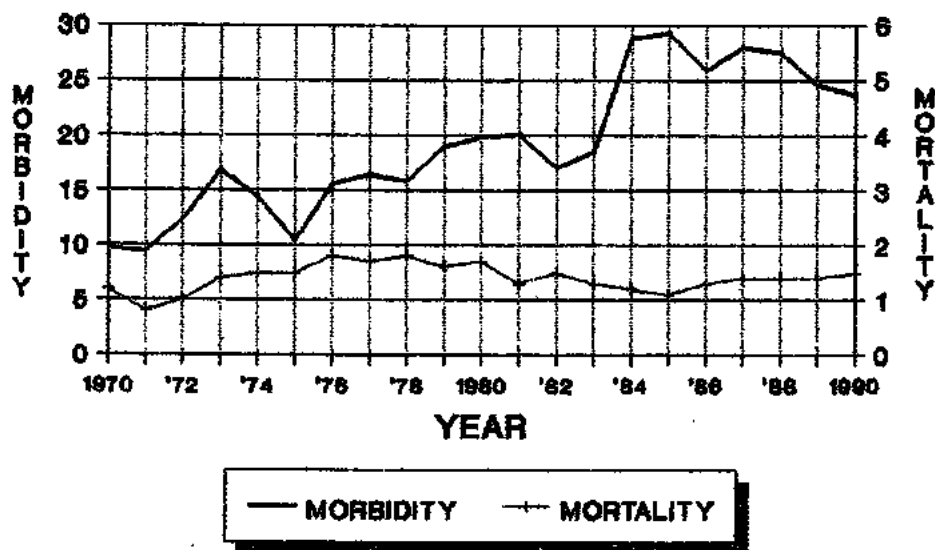


Fig. 16

# INFECTIOUS HEPATITIS

## MORBIDITY & MORTALITY TRENDS

Rate per 100,000 Pop., Phils., 1970-1990



# MALARIA

## MORBIDITY & MORTALITY TRENDS

Rate per 100,000 Pop., Phils., 1970-1990

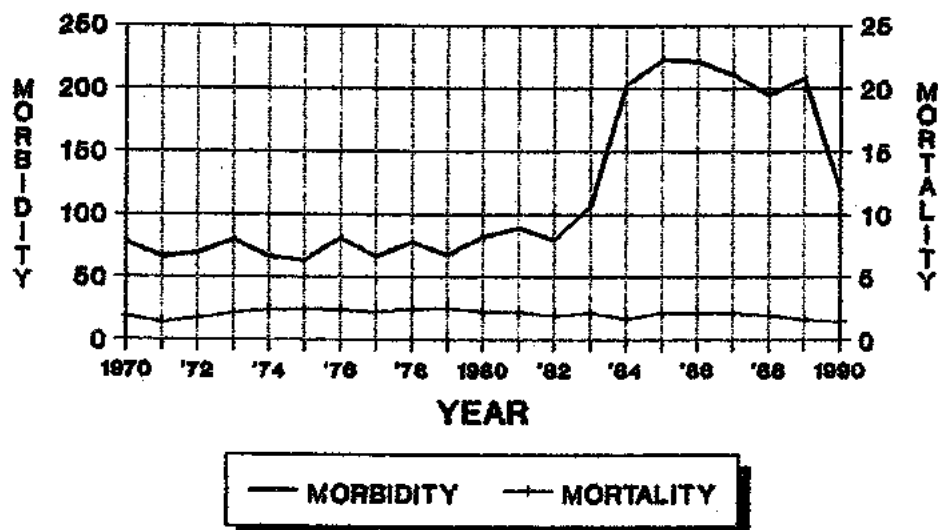
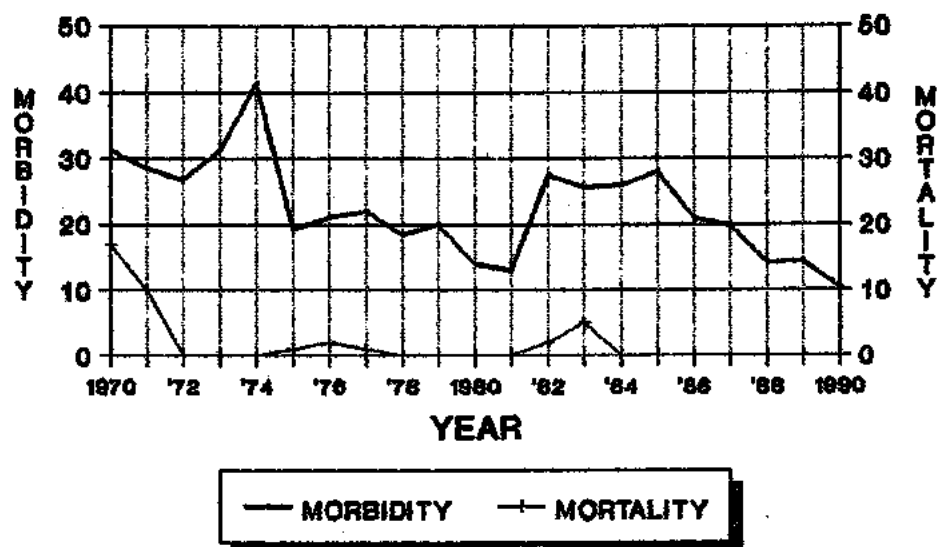


Fig. 17

# GONOCOCCAL INFECTION

## MORBIDITY & MORTALITY TRENDS

Rate per 100,000 Pop., Phils., 1970-1990



# SYPHILIS

## MORBIDITY & MORTALITY TRENDS

Rate per 100,000 Pop., Phils., 1970-1990

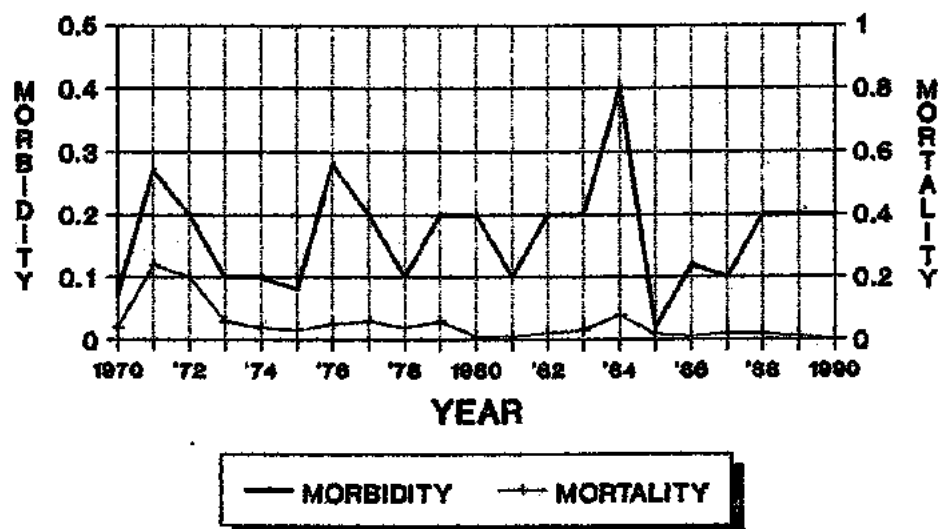
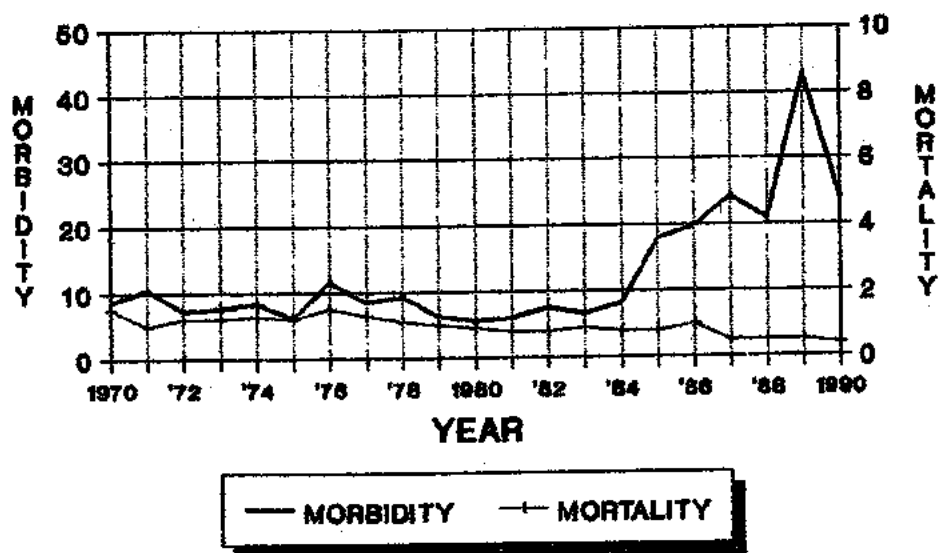


Fig. 18

# SCHISTOSOMIASIS

## MORBIDITY & MORTALITY TRENDS

Rate per 100,000 Pop., Phils., 1970-1990



# FILARIASIS

## MORBIDITY & MORTALITY TRENDS

Rate per 100,000 Pop., Phils., 1970-1990

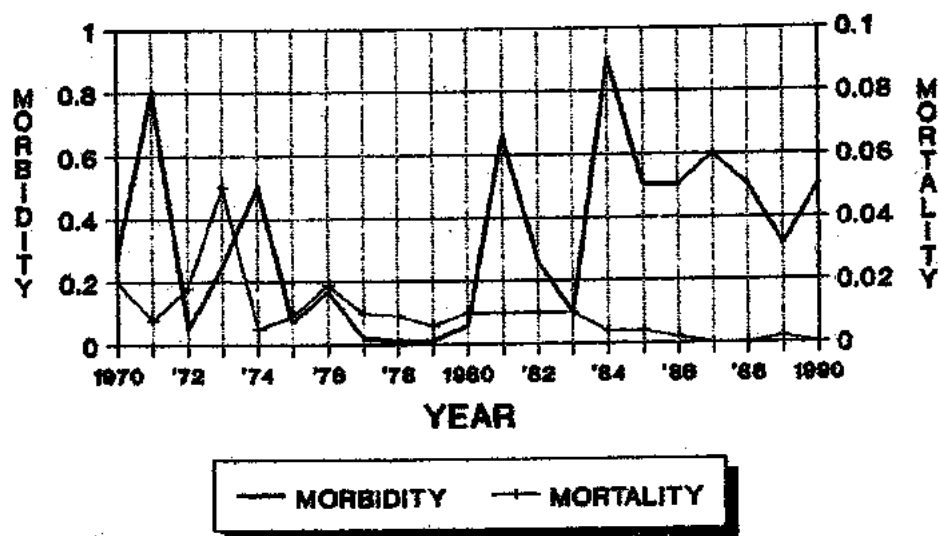
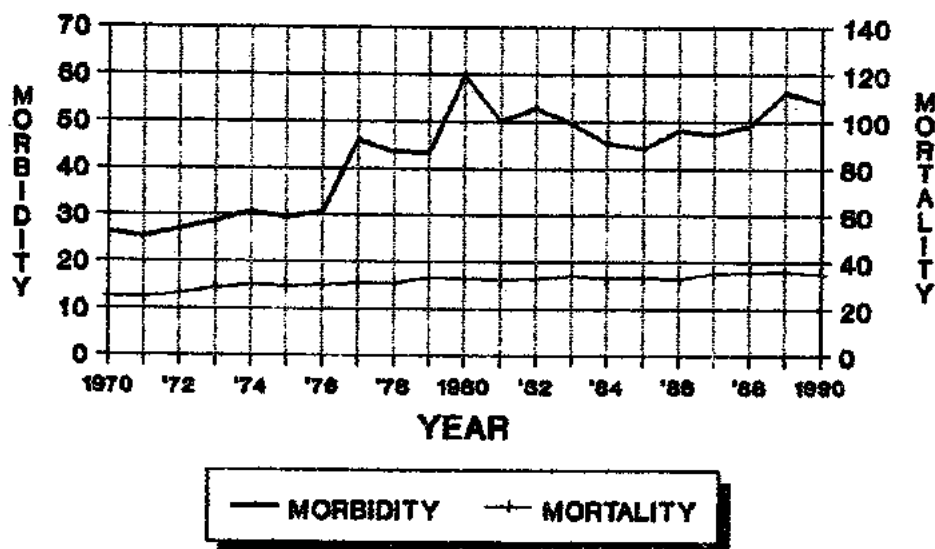


Fig. 19

# **MALIGNANT NEOPLASMS** **MORBIDITY & MORTALITY TRENDS** Rate per 100,000 Pop., Phils., 1970-1990



# **BRONCHITIS** **MORBIDITY & MORTALITY TRENDS** Rate per 100,000 Pop., Phils., 1970-1990

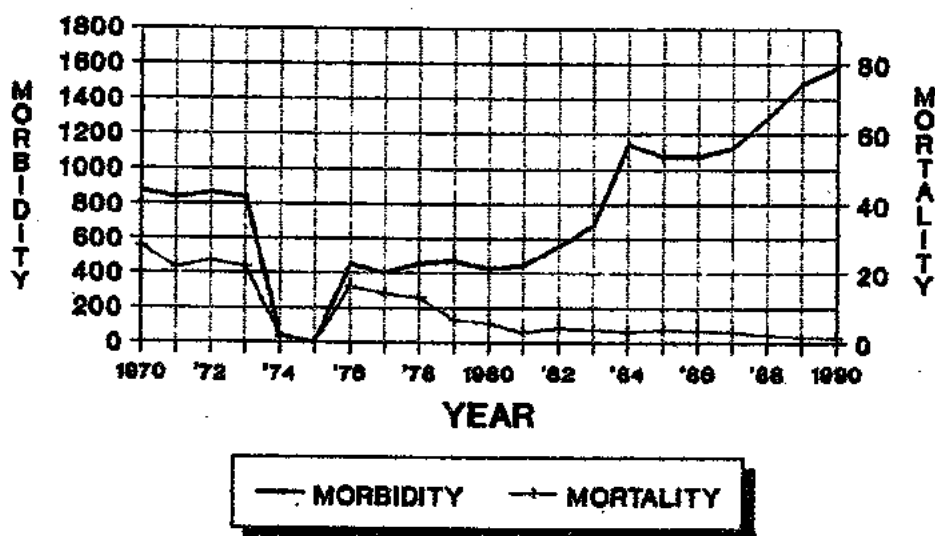
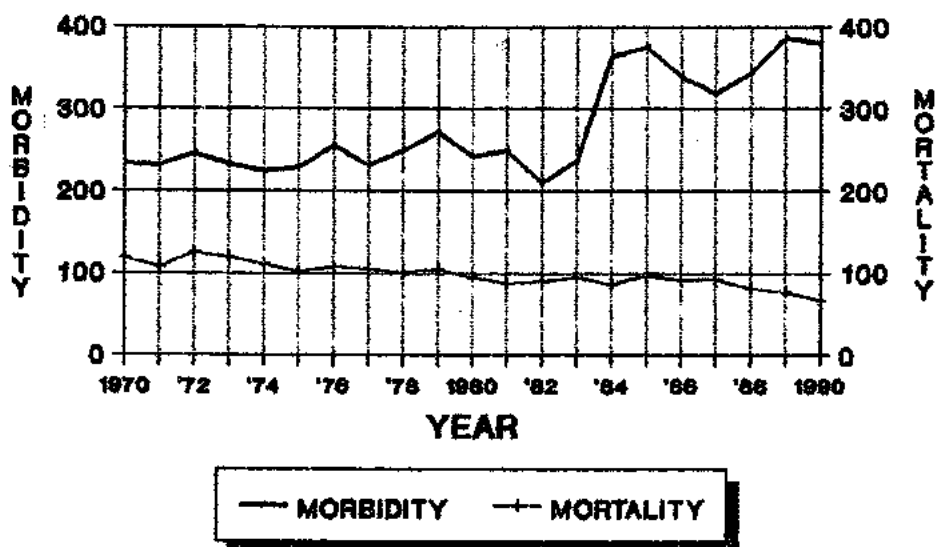


Fig. 20

# PNEUMONIAS

## MORBIDITY & MORTALITY TRENDS

Rate per 100,000 Pop., Phils., 1970-1990



# INFLUENZA

## MORBIDITY & MORTALITY TRENDS

Rate per 100,000 Pop., Phils., 1970-1990

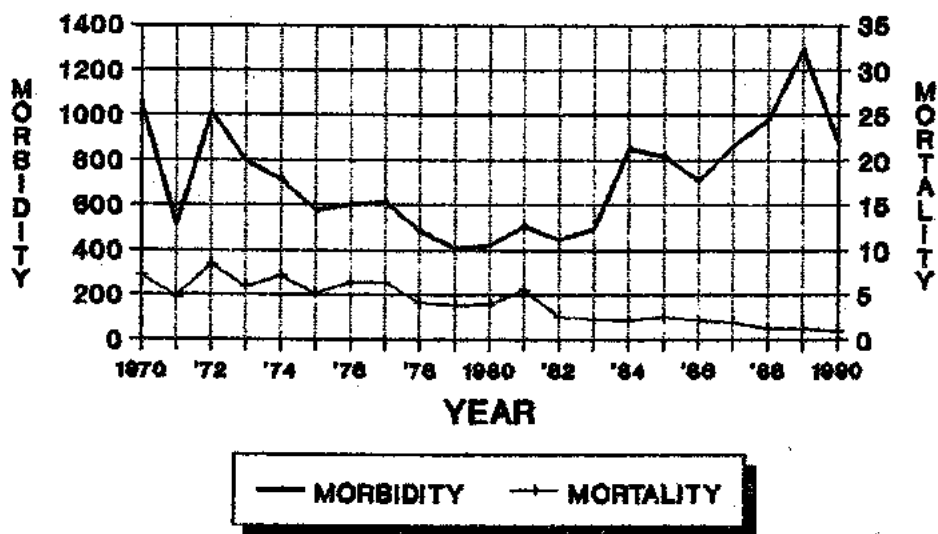


Fig. 21

## MORTALITY STATISTICS

This represents statistical information based on data compiled from the death certificates submitted by the Local Civil Registrars throughout the Philippines to the office of the Civil Registrar General.

A total of 313,890 deaths were registered in 1990. This figure represents a crude death rate of 5.1 per 1,000 population which is lower than that of the previous year 1989 by 0.3 or 5.6%.

Causes of Deaths, 1980 and 1990 - The ten leading causes of deaths, in the 1990 are presented in Table 20. Collectively, they accounted for 193,697 deaths representing 61.7% of deaths from all causes. This group consists of four (4) Communicable Diseases: Pneumonias, Tuberculosis, Diarrheal Diseases and Measles; six (6) non-communicable diseases - Diseases of the Heart, Diseases of the Vascular System, Malignant Neoplasms, Accidents and Nephritis, Nephrotic Syndrome and Nephrosis and Septicemia. The first three (3) leading causes are: - Diseases of the Heart with a rate of 74.4 per 100,000 population representing 14.7% of deaths from all causes, Pneumonias with a rate of 66.3 per 100,000 population representing 13.1% of deaths from all causes and Diseases of the Vascular System with a rate of 54.2 per 100,000 population representing 10.7% of deaths from all causes. Tuberculosis, All Forms and Malignant Neoplasms ranked fourth and fifth with the rate of 39.1 and 35.7 per 100,000 population respectively, while Diarrheal Diseases and Septicemia occupied the sixth and seventh positions with the rate of 12.0 and 9.4 per 100,000 population respectively. The last (3) leading causes of mortality in the group are: Nephritis, Nephrotic Syndrome and Nephrosis 8.3 and Accidents 6.4 and Measles 5.6 per 100,000 population.

The leading causes of deaths in 1980 are shown in Table 26 and Figure 26. During this year, Pneumonias was the top leading causes of death with the rate of 93.6 per 100,000 population and Diseases of the Heart ranked second with a rate of 60.8 per 100,000 population while Tuberculosis, All Forms and Diseases of the Vascular System ranked third and fourth position with rates 59.6 and 43.8 per 100,000 population respectively. The fifth, sixth and seventh positions were occupied by Malignant Neoplasms (33.2), Diarrheal Diseases (27.9), Accidents (18.7) per 100,000 population. The last three (3) leading causes of mortality were Avitaminoses and Other Nutritional Deficiency, Measles and Nephritis, Nephrotic Syndrome and Nephrosis representing a rate of 15.3, 10.7 and 8.3 per 100,000 population, respectively.

It is clearly noted that during the ten year period 1981 to 1990, deaths from communicable diseases particularly some of those among the leading causes showed a marked decline. Tuberculosis, All Forms death rate decreased by 20.5 per 100,000 population or 34.4%, Diarrheas dropped by 15.9 per 100,000 population or 57.0% and Pneumonias declined by 27.3 per 100,000 population or 28.2%. On the other hand, the non-communicable diseases have increased considerably. Death rate from Diseases of the Heart increased by 13.8 per 100,000 population or 22.4%; Diseases of the Vascular System and Malignant Neoplasms increased by 10.4 and 2.5 per 100,000 population or 23.7% and 7.5% respectively, while Accidents decreased by 12.3 per 100,000 population or 55.8%.

General Mortality Trend - Table 4 and Figure 4 show the trend of crude death rate for the country from 1940 to 1990. A marked decline in this rate from 13.6 per 1,000 population in 1940 to 5.1 per 1,000 population in 1990 is observed. This represents a mark declined in crude death rate of 11.5 or 69.3% over a period of 50 years. A slow and irregular decline in the rate started in 1930 and continued until the outbreak of the last world war. Data on health statistics were not available during the war years. It continued to decrease during the post war years up to the present. An all time low death rate of 5.4 was attained in 1989. The crude death rate in the country for the fast five decades is characterized by the general downward trend with slight troughs from 1938 to 1940 and 1950 to 1958.

Crude Death Rate By Area - Of the thirteen health regions in the country, Region 1 registered the highest crude death rate (8.7 per 1,000 population), while Region 12 had the lowest 1.9. The highest rate among the cities was recorded in Trece Martires City (20.6) and the lowest were recorded in Marawi City (1.2). La Union Norte topped all the provinces with the rate of 7.4 while North Cotabato got the lowest rate of 1.0 which is due to inadequate registration of deaths.

Mortality By Age - Table 17 shows the death from all causes by age, sex and percentage distribution. The highest percentage of death was recorded for those under 1 year 59,633 or 12.6% of all deaths while those among age group 10-14 years represented the lowest percentage (1.7%). The age specific death rate for age group 70 years and over is the highest 64.8 per 1,000 population followed by death rate for under 1 year (21.8). After a very high death rate in infancy, it decreased continuously as age increase until the minimum level of 0.7 was reached in the age group 10-14 years. After this age, the rate increased again for each successive age group until the peak was reached in the age group 70 years and over.

Mortality By Sex - In 1990, there were 185,788 male deaths and 128,102 female deaths. These figures represent 59.2% and 40.8% of all deaths respectively. The mortality rate for males was 6.0 per 1,000 male population while that of female was 4.2. The death sex ratio is 1.4 male death to 1 female death or there were 14 male deaths for every 10 female deaths.

### INFANT MORTALITY

There were 39,633 deaths under 1 year of age registered in 1990. This figure represents 12.6% of all deaths. The infant mortality rate is 24.3 per 1,000 livebirths which is lower by 3.3 from that of the previous year 27.5 per 1,000 livebirths or 12.0%. The infant mortality rate has receded to an all time low for the country in 1990 (24.3).

Infant Mortality By Cause - The ten leading causes of death under 1 year are shown in Table 28. These diseases caused 24,755 infant deaths representing 62.5% of the total infant mortality and 7.9% of the total deaths. Pneumonias, as in the past years, caused the most number of deaths 9,383 representing a rate of 5.8 per 1,000 livebirths and 23.7% of all infant deaths. Respiratory Condition of Fetus and Newborn occupied the second position which caused 5,985 deaths with a rate of 3.7, which represents 15.1% of all infant deaths, while Congenital Anomalies ranked third with a rate of 1.3 per 1,000 livebirths. The fourth and fifth leading causes were Diarrheal Diseases and Septicemia with a rate of 1.1 and 0.9 respectively. Avitaminosis and Other Nutritional Deficiency occupied the sixth and seventh positions with a rate of 0.7 for both. The last three (3) leading causes were Measles (0.4), Meningitis (0.3) and Acute Bronchitis and Bronchiolitis (0.3).

Trend of Infant Mortality - The number and rate of infant deaths from 1940 to 1990 are shown in Table 4. The infant mortality rate in 1940 which was 135.8 per 1,000 livebirths dropped to 24.3 in 1990. This represents a marked decline of 111.5 or 82.1% over a period of 50 years. No data were available for the war years (1941-1945) however, the lowest pre-war rate recorded was in 1936, reaching its all time low in 1989 (27.5) and in 1990 (24.3).

Infant Mortality By Area - Infant mortality rates for different health regions, provinces and cities all over the country are presented in Table 5. Region 6 had the highest rate of 28.5 per 1,000 livebirths while Region 12 had the lowest (13.4). Of the provinces, Sulu registered the highest infant death rate of 94.4 while North Cotabato reported the lowest rate of 4.4 per 1,000 livebirths which maybe due to incomplete registration. Of the

cities, Pagadian City topped the group with a rate of 47.0 per 1,000 livebirths while Naga City had the lowest rate (10.9) per 1,000 livebirths.

Infant Mortality By Age - Of the total 39,633 infant deaths registered in 1990, 19,013 deaths were under 28 days (neonatal deaths) with a rate of 11.7 per 1,000 livebirths and 20,620 were 28 days to under 1 year (post-neonatal deaths) with a rate of 12.6 per 1,000 livebirths. These represents 48.0% and 52.0% of the total infant deaths respectively. Deaths in the age group 0-6 days (Early Neonatal) totalled 14,570 representing 76.6% of all neonatal deaths while in the age 21-27 days recorded the least 872 deaths representing 4.6% of all neonatal deaths.

Of the post-neonatal deaths, those of age 28-59 days comprised the highest percentage 9.2% of the total infant deaths and 1.2% of the total mortality. The lowest percentage was recorded in the age 10 months with 3.0% of the total infant deaths.

Infant Death By Sex - There were more male deaths under 1 year of age than females. The rate for male was 24.8 per 1,000 population while that of the female was 18.7. The infant death sex ratio was 1.3 male death for every 1 female death or 13 male deaths for every 10 female deaths.

### C. MATERNAL MORTALITY

In 1990, there were 1,307 maternal deaths registered with a rate of 0.8 per 1,000 livebirths. This represents 0.4% of the deaths from all causes. This rate is slightly lower than that of the previous year (1.0).

Maternal Mortality By Cause - Hemorrhages consisting of Post-partum Hemorrhage and Hemorrhages related to pregnancy is the major causes of maternal deaths with the combined rates of 0.4 per 1,000 livebirths representing 39.7% of all maternal deaths. Normal Delivery and other complication related to pregnancy occurring in the cause of labor delivery and puerperium registered a rate of 0.2 per 1,000 livebirths and caused 26.4 of all maternal deaths.

Trend of Maternal Mortality - A significant decline in the maternal mortality rate from 1940 to 1990 is shown in Table 4. The 1940 rate was 6.3 per 1,000 livebirths and went down as low as 4.2 in 1947. The declining trend continued after the war up to 1984 interrupted only by slight increases. The lowest so far recorded was in 1984 (0.9).

Maternal Mortality By Region - Table 5 presents the data on maternal mortality by health region and their corresponding rates (per 1,000 livebirths). Region 8 registered the highest maternal mortality rate of 1.5 while the lowest was recorded in National Capital Region (0.4). Of the provinces, Northern Samar had the highest rate of 3.3 while Zamboanga del Norte had the lowest rate of 0.2 per 1,000 livebirths.

#### D. FETAL DEATHS

There were 11,915 deaths registered in 1990, representing a fetal death rate of 7.3 per 1,000 livebirths.

Different causes of fetal deaths in the country are shown in Table 31. The first three leading causes are the following: Fetus affected by complications of placenta, cord and membranes (1.5) per 1,000 livebirths; Disorders relating to short gestation and unspecified low birth weight (0.9) per 1,000 livebirths and Intrauterine hypoxia had birth asphyxia (0.5) per 1,000 livebirths.

National Capital Region had the highest number of registered fetal deaths, 2,673 or 22.4% of all fetal mortality while C.A.R. reported the lowest 137 or 1.1%. The highest regional fetal death rate recorded was in Region 4 (10.4) per 1,000 livebirths and the lowest were those of Region 12 with a rate of 4.7.

Fetal deaths that were medically attended totalled 5,810 (48.8%) broken down as follows: by physicians 5,548 or 46.6%, by nurse 192 or 1.6% and by midwife 70 or 0.6% of the total fetal deaths. A total of 6,105 or 51.2% deaths was not given medical attendance.

Table 34 shows that the highest fetal death rate was observed in the age Less than 15 (17.4) per 1,000 livebirths followed by age-group 45 years and over with a rate of 13.3 per 1,000 livebirths. Age group 20-24 years had the lowest fetal death rate of 2.2 per 1,000 livebirths. A high fetal death risk was recorded in the first birth order category - 1,001 or 21.6% of the total fetal mortality as shown in Table 37.

TABLE 17

MORTALITY: ALL CAUSES BY AGE & SEX  
No. & Rate/1,000 Pop. & Percentage Distribution  
PHILIPPINES  
1990

| A G E              | M A L E |      | F E M A L E |      | T O T A L |      |       |
|--------------------|---------|------|-------------|------|-----------|------|-------|
|                    | Number  | Rate | Number      | Rate | Number    | Rate | %     |
| ALL AGES.....      | 185788  | 6.0  | 128102      | 4.2  | 313890    | 5.1  | 100.0 |
| Under 1 year.....  | 23021   | 24.8 | 16612       | 18.7 | 39633     | 21.8 | 12.6  |
| 1 - 4 yrs.....     | 12831   | 3.8  | 11001       | 3.4  | 23932     | 3.6  | 7.6   |
| 5 - 9 yrs.....     | 4852    | 1.2  | 3798        | 1.0  | 8650      | 1.1  | 2.8   |
| 10 - 14 yrs.....   | 3132    | 0.8  | 2330        | 0.6  | 5462      | 0.7  | 1.7   |
| 15 - 19 yrs.....   | 4454    | 1.3  | 2537        | 0.8  | 6991      | 1.1  | 2.2   |
| 20 - 24 yrs.....   | 6979    | 2.3  | 3034        | 1.0  | 10013     | 1.7  | 3.2   |
| 25 - 29 yrs.....   | 7602    | 3.0  | 3256        | 1.2  | 10858     | 2.1  | 3.5   |
| 30 - 34 yrs.....   | 7830    | 3.6  | 3428        | 1.5  | 11258     | 2.5  | 3.6   |
| 35 - 39 yrs.....   | 7712    | 4.2  | 3745        | 2.0  | 11457     | 3.1  | 3.7   |
| 40 - 44 yrs.....   | 7997    | 5.4  | 3697        | 2.6  | 11694     | 4.0  | 3.7   |
| 45 - 49 yrs.....   | 8875    | 7.6  | 4068        | 3.5  | 12943     | 5.6  | 4.1   |
| 50 - 54 yrs.....   | 10091   | 10.5 | 5284        | 5.5  | 15375     | 8.0  | 4.9   |
| 55 - 59 yrs.....   | 10716   | 14.3 | 5678        | 7.3  | 16394     | 10.7 | 5.2   |
| 60 - 64 yrs.....   | 12103   | 21.0 | 6985        | 11.2 | 19088     | 15.9 | 6.1   |
| 65 - 69 yrs.....   | 11668   | 27.7 | 7813        | 16.5 | 19481     | 21.8 | 6.2   |
| 70 yrs. & Over.... | 45824   | 70.4 | 44336       | 60.0 | 90660     | 64.8 | 28.9  |
| Not Stated.....    | 1       | 0.0  | 0           | 0.0  | 1         | 0.0  | 0.0   |

# **MORTALITY: ALL CAUSES BY AGE** **Rate per 1,000 Population** **PHILIPPINES, 1990**

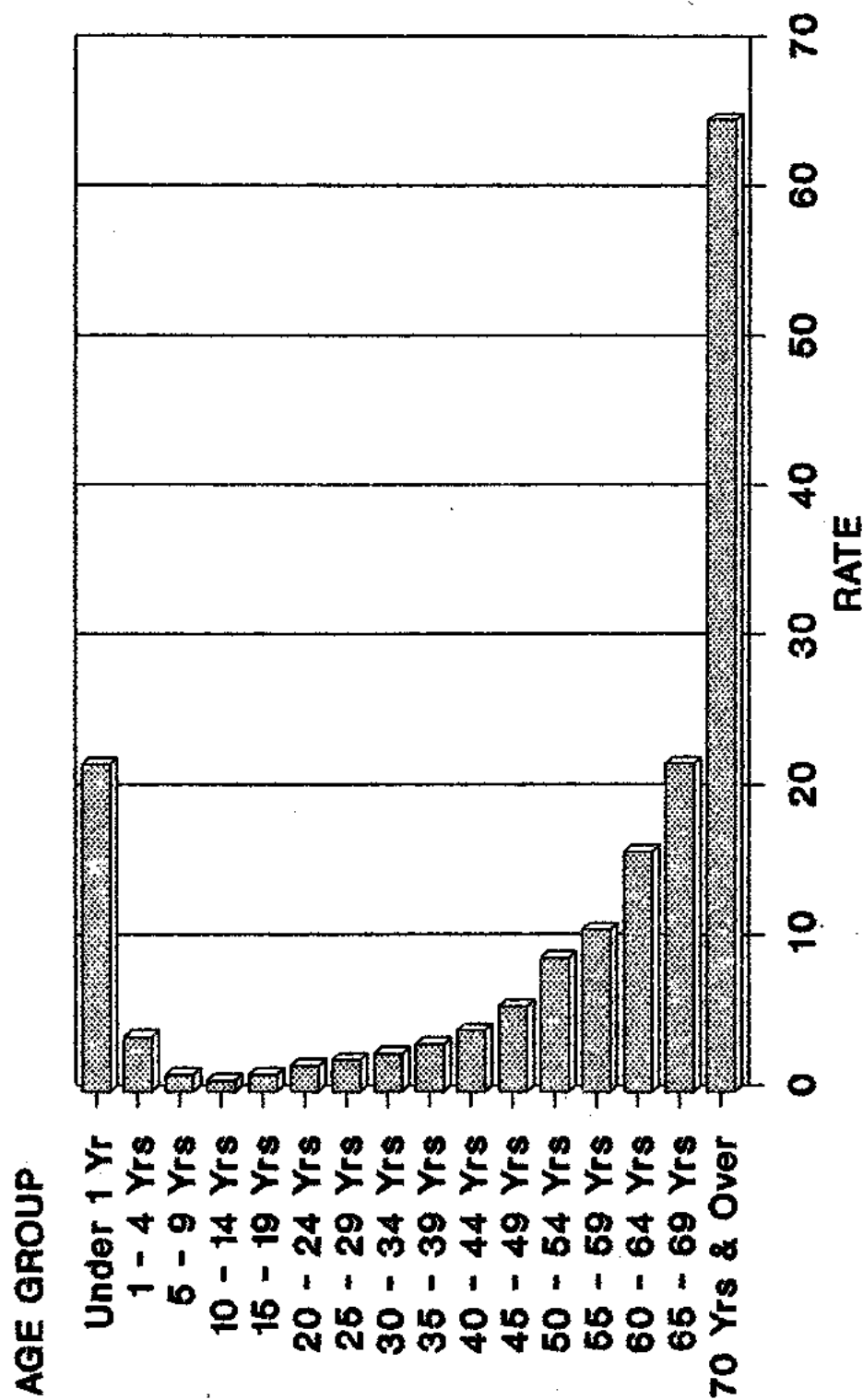


Fig. 22

TABLE 18

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MORTALITY: ALL CAUSES BY SEX & HEALTH REGION  
No. & Rate/1,000 Pop. & Percentage Distribution  
PHILIPPINES  
1990

| A R E A               | NUMBER OF DEATHS |        |               | RATE | % OF<br>TOTAL<br>DEATHS |
|-----------------------|------------------|--------|---------------|------|-------------------------|
|                       | MALE             | FEMALE | BOTH<br>SEXES |      |                         |
| PHILIPPINES.....      | 185788           | 128102 | 313890        | 5.1  | 100.0                   |
| NAT. CAP. REGION..... | 29340            | 20251  | 49591         | 6.1  | 15.8                    |
| C.A.R.....            | 2776             | 1754   | 4530          | 3.9  | 1.4                     |
| REGION 1.....         | 13740            | 10721  | 24461         | 6.7  | 7.8                     |
| REGION 2.....         | 7405             | 5057   | 12462         | 5.2  | 4.0                     |
| REGION 3.....         | 18758            | 13095  | 31853         | 5.0  | 10.1                    |
| REGION 4.....         | 26711            | 18405  | 45116         | 5.3  | 14.4                    |
| REGION 5.....         | 12910            | 9221   | 22131         | 5.5  | 7.1                     |
| REGION 6.....         | 18588            | 12573  | 31161         | 5.6  | 9.9                     |
| REGION 7.....         | 15843            | 12334  | 28177         | 6.0  | 9.0                     |
| REGION 8.....         | 9030             | 6377   | 15407         | 4.9  | 4.9                     |
| REGION 9.....         | 6345             | 3820   | 10165         | 3.1  | 3.2                     |
| REGION 10.....        | 9521             | 5935   | 15456         | 4.3  | 4.9                     |
| REGION 11.....        | 10876            | 6495   | 17371         | 3.8  | 5.5                     |
| REGION 12.....        | 3945             | 2064   | 6009          | 1.9  | 1.9                     |

# MORTALITY: ALL CAUSES BY HEALTH REGION PERCENTAGE DISTRIBUTION PHILIPPINES, 1990

## HEALTH REGION

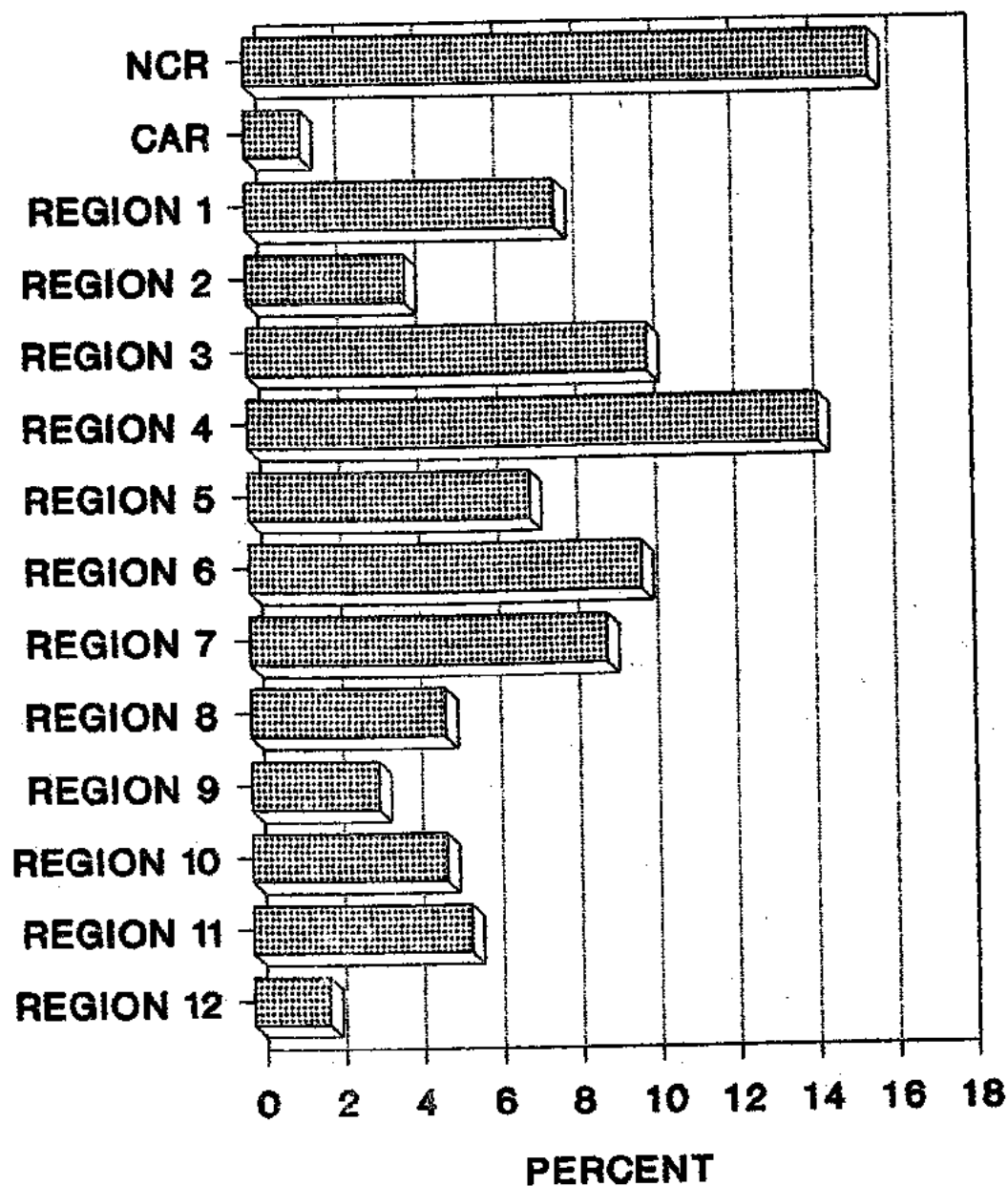


Fig. 23

TABLE 19  
MORTALITY: ALL CAUSES BY AGE & SEX & HEALTH REGION  
No. & Percentage Distribution  
PHILIPPINES  
1990

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| A G E<br>GROUP      | NATIONAL CAPITAL REGION<br>( METRO MANILA ) |        |            |         |
|---------------------|---|--------|------------|---------|
|                     | M A L E                                     | FEMALE | BOTH SEXES | PERCENT |
| ALL AGES.....       | 29340                                       | 20251  | 49591      | 100.0   |
| Under 1 year.....   | 4465  | 3247   | 7712       | 15.6    |
| 1 - 4 yrs.....      | 1747  | 1574   | 3321       | 6.7     |
| 5 - 9 yrs.....      | 586   | 449    | 1035       | 2.1     |
| 10 - 14 yrs.....    | 358   | 288    | 646        | 1.3     |
| 15 - 19 yrs.....    | 611   | 407    | 1018       | 2.1     |
| 20 - 24 yrs.....    | 1251  | 496    | 1747       | 3.5     |
| 25 - 29 yrs.....    | 1363  | 573    | 1936       | 3.9     |
| 30 - 34 yrs.....    | 1365  | 582    | 1947       | 3.9     |
| 35 - 39 yrs.....    | 1309  | 641    | 1950       | 3.9     |
| 40 - 44 yrs.....    | 1419  | 668    | 2087       | 4.2     |
| 45 - 49 yrs.....    | 1488  | 710    | 2198       | 4.4     |
| 50 - 54 yrs.....    | 1597  | 965    | 2562       | 5.2     |
| 55 - 59 yrs.....    | 1883  | 1023   | 2906       | 5.9     |
| 60 - 64 yrs.....    | 2086  | 1178   | 3264       | 6.6     |
| 65 - 69 yrs.....    | 1915  | 1319   | 3234       | 6.5     |
| 70 yrs. & Over..... | 5897  | 6131   | 12028      | 24.3    |
| Not Stated.....     | 0   | 0      | 0          | 0.0     |

| A G E<br>GROUP      | CORDILLERA AUTONOMOUS REGION<br>(C.A.R.) |        |            |         |
|---------------------|--|--------|------------|---------|
|                     | M A L E                                  | FEMALE | BOTH SEXES | PERCENT |
| ALL AGES.....       | 2776                                     | 1754   | 4530       | 100.0   |
| Under 1 year.....   | 257                                      | 181    | 438        | 9.7     |
| 1 - 4 yrs.....      | 122                                      | 98     | 220        | 4.9     |
| 5 - 9 yrs.....      | 69                                       | 58     | 127        | 2.8     |
| 10 - 14 yrs.....    | 68                                       | 36     | 104        | 2.3     |
| 15 - 19 yrs.....    | 107                                      | 56     | 163        | 3.6     |
| 20 - 24 yrs.....    | 169                                      | 72     | 241        | 5.3     |
| 25 - 29 yrs.....    | 165                                      | 70     | 235        | 5.2     |
| 30 - 34 yrs.....    | 184                                      | 66     | 250        | 5.5     |
| 35 - 39 yrs.....    | 156                                      | 57     | 213        | 4.7     |
| 40 - 44 yrs.....    | 118                                      | 51     | 169        | 3.7     |
| 45 - 49 yrs.....    | 134                                      | 62     | 196        | 4.3     |
| 50 - 54 yrs.....    | 156                                      | 84     | 240        | 5.3     |
| 55 - 59 yrs.....    | 151                                      | 84     | 245        | 5.4     |
| 60 - 64 yrs.....    | 165                                      | 131    | 296        | 6.5     |
| 65 - 69 yrs.....    | 166                                      | 129    | 295        | 6.5     |
| 70 yrs. & Over..... | 589                                      | 509    | 1098       | 24.2    |
| Not Stated.....     | 0  | 0      | 0          | 0.0     |

TABLE 19

MORTALITY: ALL CAUSES BY AGE & SEX & HEALTH REGION  
No. & Percentage Distribution  
PHILIPPINES  
1990

| A G E<br>GROUP    | REGION 1<br>ILOCOS NORTE |        |               |       | REGION 2<br>CAGAYAN VALLEY |        |               |       |
|-------------------|--------------------------|--------|---------------|-------|----------------------------|--------|---------------|-------|
|                   | MALE                     | FEMALE | BOTH<br>SEXES | %     | MALE                       | FEMALE | BOTH<br>SEXES | %     |
| ALL AGES.....     | 13740                    | 10721  | 24461         | 100.0 | 7405                       | 5057   | 12462         | 100.0 |
| Under 1 year..... | 1573                     | 1169   | 2742          | 11.2  | 1016                       | 755    | 1771          | 14.2  |
| 1 - 4 yrs.....    | 829                      | 664    | 1493          | 6.1   | 517                        | 428    | 945           | 7.6   |
| 5 - 9 yrs.....    | 297                      | 257    | 554           | 2.3   | 214                        | 155    | 369           | 3.0   |
| 10 - 14 yrs.....  | 169                      | 134    | 303           | 1.2   | 149                        | 117    | 266           | 2.1   |
| 15 - 19 yrs.....  | 256                      | 162    | 418           | 1.7   | 187                        | 127    | 314           | 2.5   |
| 20 - 24 yrs.....  | 413                      | 222    | 635           | 2.6   | 275                        | 133    | 408           | 3.3   |
| 25 - 29 yrs.....  | 416                      | 201    | 617           | 2.5   | 305                        | 143    | 448           | 3.6   |
| 30 - 34 yrs.....  | 485                      | 254    | 739           | 3.0   | 348                        | 144    | 492           | 3.9   |
| 35 - 39 yrs.....  | 466                      | 254    | 720           | 2.9   | 300                        | 153    | 453           | 3.6   |
| 40 - 44 yrs.....  | 547                      | 276    | 823           | 3.4   | 315                        | 124    | 439           | 3.5   |
| 45 - 49 yrs.....  | 650                      | 272    | 922           | 3.8   | 322                        | 178    | 500           | 4.0   |
| 50 - 54 yrs.....  | 754                      | 364    | 1118          | 4.6   | 441                        | 191    | 632           | 5.1   |
| 55 - 59 yrs.....  | 703                      | 414    | 1117          | 4.6   | 399                        | 239    | 638           | 5.1   |
| 60 - 64 yrs.....  | 881                      | 518    | 1399          | 5.7   | 442                        | 255    | 697           | 5.6   |
| 65 - 69 yrs.....  | 920                      | 603    | 1523          | 6.2   | 429                        | 255    | 684           | 5.5   |
| 70 yrs. & Over..  | 4381                     | 4957   | 9338          | 38.2  | 1746                       | 1660   | 3406          | 27.3  |
| Not Stated.....   | 0                        | 0      | 0             | 0.0   | 0                          | 0      | 0             | 0.0   |

TABLE 19

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MORTALITY: ALL CAUSES BY AGE & SEX & HEALTH REGION  
No. & Percentage Distribution  
PHILIPPINES  
1990

| A G E<br>G R O U P | REGION 3<br>CENTRAL LUZON |        |               |       | REGION 4<br>SOUTHERN TAGALOG |        |               |        |
|--------------------|---------------------------|--------|---------------|-------|------------------------------|--------|---------------|--------|
|                    | MALE                      | FEMALE | BOTH<br>SEXES | %     | MALE                         | FEMALE | BOTH<br>SEXES | %      |
| ALL AGES.....      | 18758                     | 13095  | 31853         | 100.0 | 26711                        | 18405  | 45116         | 100.00 |
| Under 1 year.....  | 2026                      | 1442   | 3468          | 10.9  | 3532                         | 2531   | 6063          | 13.4   |
| 1 - 4 yrs.....     | 933                       | 748    | 1681          | 5.3   | 1981                         | 1713   | 3694          | 8.2    |
| 5 - 9 yrs.....     | 406                       | 282    | 688           | 2.2   | 665                          | 549    | 1214          | 2.7    |
| 10 - 14 yrs.....   | 293                       | 215    | 508           | 1.6   | 449                          | 343    | 792           | 1.8    |
| 15 - 19 yrs.....   | 456                       | 295    | 751           | 2.4   | 584                          | 345    | 929           | 2.1    |
| 20 - 24 yrs.....   | 610                       | 316    | 926           | 2.9   | 939                          | 425    | 1364          | 3.0    |
| 25 - 29 yrs.....   | 736                       | 331    | 1067          | 3.3   | 1044                         | 426    | 1470          | 3.3    |
| 30 - 34 yrs.....   | 712                       | 353    | 1065          | 3.3   | 1098                         | 438    | 1536          | 3.4    |
| 35 - 39 yrs.....   | 786                       | 382    | 1178          | 3.7   | 1060                         | 520    | 1580          | 3.5    |
| 40 - 44 yrs.....   | 788                       | 435    | 1223          | 3.8   | 1183                         | 521    | 1704          | 3.8    |
| 45 - 49 yrs.....   | 907                       | 402    | 1309          | 4.1   | 1260                         | 584    | 1844          | 4.1    |
| 50 - 54 yrs.....   | 1035                      | 536    | 1571          | 4.9   | 1422                         | 739    | 2161          | 4.8    |
| 55 - 59 yrs.....   | 1154                      | 567    | 1721          | 5.4   | 1564                         | 766    | 2330          | 5.2    |
| 60 - 64 yrs.....   | 1362                      | 687    | 2049          | 6.4   | 1813                         | 929    | 2742          | 6.1    |
| 65 - 69 yrs.....   | 1351                      | 851    | 2202          | 6.9   | 1642                         | 1083   | 2725          | 6.0    |
| 70 yrs. & Over..   | 5203                      | 5243   | 10446         | 32.8  | 6475                         | 6493   | 12968         | 28.7   |
| Not Stated.....    | 0                         | 0      | 0             | 0.0   | 0                            | 0      | 0             | 0.0    |

TABLE 19

MORTALITY: ALL CAUSES BY AGE & SEX & HEALTH REGION  
No. & Percentage Distribution  
PHILIPPINES  
1990

| A G E<br>G R O U P | REGION 5<br>BICOL REGION |        |               |       | REGION 6<br>WESTERN VISAYAS |        |               |       |
|--------------------|--------------------------|--------|---------------|-------|-----------------------------|--------|---------------|-------|
|                    | MALE                     | FEMALE | BOTH<br>SEXES | %     | MALE                        | FEMALE | BOTH<br>SEXES | %     |
| ALL AGES.....      | 12910                    | 9221   | 22131         | 100.0 | 18588                       | 12573  | 31161         | 100.0 |
| Under 1 year.....  | 1612                     | 1137   | 2749          | 12.4  | 1916                        | 1390   | 3306          | 10.6  |
| 1 - 4 yrs.....     | 1310                     | 1145   | 2455          | 11.1  | 1089                        | 916    | 2005          | 6.4   |
| 5 - 9 yrs.....     | 432                      | 348    | 780           | 3.5   | 524                         | 383    | 907           | 2.9   |
| 10 - 14 yrs.....   | 281                      | 194    | 475           | 2.1   | 331                         | 233    | 564           | 1.8   |
| 15 - 19 yrs.....   | 315                      | 208    | 523           | 2.4   | 435                         | 247    | 682           | 2.2   |
| 20 - 24 yrs.....   | 390                      | 204    | 594           | 2.7   | 664                         | 257    | 921           | 3.0   |
| 25 - 29 yrs.....   | 418                      | 229    | 647           | 2.9   | 762                         | 260    | 1022          | 3.3   |
| 30 - 34 yrs.....   | 433                      | 262    | 695           | 3.1   | 751                         | 302    | 1053          | 3.4   |
| 35 - 39 yrs.....   | 438                      | 253    | 691           | 3.1   | 767                         | 340    | 1107          | 3.6   |
| 40 - 44 yrs.....   | 475                      | 274    | 749           | 3.4   | 771                         | 319    | 1090          | 3.5   |
| 45 - 49 yrs.....   | 515                      | 248    | 763           | 3.4   | 881                         | 435    | 1316          | 4.2   |
| 50 - 54 yrs.....   | 636                      | 340    | 976           | 4.4   | 1011                        | 500    | 1511          | 4.8   |
| 55 - 59 yrs.....   | 705                      | 349    | 1054          | 4.8   | 1085                        | 569    | 1654          | 5.3   |
| 60 - 64 yrs.....   | 813                      | 436    | 1249          | 5.6   | 1134                        | 696    | 1830          | 5.9   |
| 65 - 69 yrs.....   | 809                      | 478    | 1287          | 5.8   | 1225                        | 810    | 2035          | 6.5   |
| 70 yrs. & Over.... | 3328                     | 3116   | 6444          | 29.1  | 5242                        | 4916   | 10158         | 32.6  |
| Not Stated.....    | 0                        | 0      | 0             | 0.0   | 0                           | 0      | 0             | 0.0   |

TABLE 19

MORTALITY: ALL CAUSES BY AGE & SEX & HEALTH REGION  
No. & Percentage Distribution  
PHILIPPINES  
1990

| A G E<br>GROUP   | REGION 7<br>CENTRAL VISAYAS |        |               |       | REGION 8<br>EASTERN VISAYAS |        |               |       |
|------------------|-----------------------------|--------|---------------|-------|-----------------------------|--------|---------------|-------|
|                  | MALE                        | FEMALE | BOTH<br>SEXES | %     | MALE                        | FEMALE | BOTH<br>SEXES | %     |
| ALL AGES.....    | 15843                       | 12334  | 28177         | 100.0 | 9030                        | 6377   | 15407         | 100.0 |
| Under 1 year.... | 2186                        | 1578   | 3764          | 13.4  | 910                         | 657    | 1567          | 10.2  |
| 1 - 4 yrs.....   | 1182                        | 1018   | 2200          | 7.8   | 857                         | 709    | 1566          | 10.2  |
| 5 - 9 yrs.....   | 426                         | 323    | 749           | 2.7   | 328                         | 284    | 612           | 4.0   |
| 10 - 14 yrs..... | 250                         | 208    | 458           | 1.6   | 174                         | 146    | 320           | 2.1   |
| 15 - 19 yrs..... | 340                         | 176    | 516           | 1.8   | 213                         | 112    | 325           | 2.1   |
| 20 - 24 yrs..... | 502                         | 248    | 750           | 2.7   | 331                         | 126    | 457           | 3.0   |
| 25 - 29 yrs..... | 489                         | 282    | 771           | 2.7   | 340                         | 145    | 485           | 3.1   |
| 30 - 34 yrs..... | 524                         | 272    | 796           | 2.8   | 360                         | 162    | 522           | 3.4   |
| 35 - 39 yrs..... | 518                         | 309    | 827           | 2.9   | 344                         | 190    | 534           | 3.5   |
| 40 - 44 yrs..... | 584                         | 307    | 891           | 3.2   | 359                         | 156    | 515           | 3.3   |
| 45 - 49 yrs..... | 709                         | 353    | 1062          | 3.8   | 430                         | 212    | 642           | 4.2   |
| 50 - 54 yrs..... | 810                         | 469    | 1279          | 4.5   | 437                         | 262    | 699           | 4.5   |
| 55 - 59 yrs..... | 797                         | 563    | 1360          | 4.8   | 525                         | 275    | 800           | 5.2   |
| 60 - 64 yrs..... | 968                         | 721    | 1689          | 6.0   | 602                         | 400    | 1002          | 6.5   |
| 65 - 69 yrs..... | 964                         | 769    | 1733          | 6.2   | 577                         | 439    | 1016          | 6.6   |
| 70 yrs. & Over.. | 4594                        | 4738   | 9332          | 33.1  | 2243                        | 2102   | 4345          | 28.2  |
| Not Stated.....  | 0                           | 0      | 0             | 0.0   | 0                           |        | 0             | 0.0   |

TABLE 19

MORTALITY: ALL CAUSES BY AGE & SEX & HEALTH REGION  
No. & Percentage Distribution  
PHILIPPINES  
1990

| A G E<br>G R O U P | REGION 9<br>WESTERN MINDANAO |        |               |       | REGION 10<br>NORTHERN MINDANAO |        |               |       |
|--------------------|------------------------------|--------|---------------|-------|--------------------------------|--------|---------------|-------|
|                    | MALE                         | FEMALE | BOTH<br>SEXES | %     | MALE                           | FEMALE | BOTH<br>SEXES | %     |
| ALL AGES.....      | 6345                         | 3820   | 10165         | 100.0 | 9521                           | 5935   | 15456         | 100.0 |
| Under 1 year.....  | 876                          | 611    | 1487          | 14.6  | 1102                           | 789    | 1891          | 12.2  |
| 1 - 4 yrs.....     | 588                          | 497    | 1085          | 10.7  | 689                            | 577    | 1266          | 8.2   |
| 5 - 9 yrs.....     | 188                          | 188    | 376           | 3.7   | 282                            | 199    | 481           | 3.1   |
| 10 - 14 yrs.....   | 135                          | 82     | 217           | 2.1   | 170                            | 136    | 306           | 2.0   |
| 15 - 19 yrs.....   | 193                          | 99     | 292           | 2.9   | 278                            | 118    | 396           | 2.6   |
| 20 - 24 yrs.....   | 284                          | 96     | 380           | 3.7   | 418                            | 185    | 603           | 3.9   |
| 25 - 29 yrs.....   | 316                          | 123    | 439           | 4.3   | 475                            | 184    | 659           | 4.3   |
| 30 - 34 yrs.....   | 332                          | 129    | 461           | 4.5   | 448                            | 177    | 625           | 4.0   |
| 35 - 39 yrs.....   | 308                          | 127    | 435           | 4.3   | 463                            | 190    | 653           | 4.2   |
| 40 - 44 yrs.....   | 266                          | 124    | 390           | 3.8   | 467                            | 174    | 641           | 4.1   |
| 45 - 49 yrs.....   | 344                          | 120    | 464           | 4.6   | 451                            | 210    | 661           | 4.3   |
| 50 - 54 yrs.....   | 324                          | 169    | 493           | 4.8   | 556                            | 284    | 840           | 5.4   |
| 55 - 59 yrs.....   | 352                          | 139    | 491           | 4.8   | 555                            | 265    | 820           | 5.3   |
| 60 - 64 yrs.....   | 362                          | 196    | 558           | 5.5   | 592                            | 364    | 956           | 6.2   |
| 65 - 69 yrs.....   | 323                          | 202    | 525           | 5.2   | 511                            | 337    | 848           | 5.5   |
| 70 yrs. & Over...  | 1154                         | 918    | 2072          | 20.4  | 2063                           | 1746   | 3809          | 24.6  |
| Not Stated.....    | 0                            | 0      | 0             | 0.0   | 1                              | 0      | 1             | 0.0   |

TABLE 19

MORTALITY: ALL CAUSES BY AGE & SEX & HEALTH REGION  
No. & Percentage Distribution  
PHILIPPINES  
1990

| A G E<br>GROUP     | REGION 11<br>SOUTHERN MINDANAO |        |               |       | REGION 12<br>CENTRAL MINDANAO |        |               |       |
|--------------------|--------------------------------|--------|---------------|-------|-------------------------------|--------|---------------|-------|
|                    | MALE                           | FEMALE | BOTH<br>SEXES | %     | MALE                          | FEMALE | BOTH<br>SEXES | %     |
| ALL AGES.....      | 10876                          | 6495   | 17371         | 100.0 | 3945                          | 2064   | 6009          | 100.0 |
| Under 1 year.....  | 1183                           | 852    | 2035          | 11.7  | 367                           | 273    | 640           | 10.7  |
| 1 - 4 yrs.....     | 839                            | 686    | 1525          | 8.8   | 248                           | 228    | 476           | 7.9   |
| 5 - 9 yrs.....     | 334                            | 243    | 577           | 3.3   | 101                           | 80     | 181           | 3.0   |
| 10 - 14 yrs.....   | 221                            | 145    | 366           | 2.1   | 84                            | 53     | 137           | 2.3   |
| 15 - 19 yrs.....   | 359                            | 141    | 500           | 2.9   | 120                           | 44     | 164           | 2.7   |
| 20 - 24 yrs.....   | 549                            | 191    | 740           | 4.3   | 184                           | 63     | 247           | 4.1   |
| 25 - 29 yrs.....   | 552                            | 219    | 771           | 4.4   | 221                           | 70     | 291           | 4.8   |
| 30 - 34 yrs.....   | 539                            | 219    | 758           | 4.4   | 251                           | 68     | 319           | 5.3   |
| 35 - 39 yrs.....   | 536                            | 226    | 762           | 4.4   | 261                           | 93     | 354           | 5.9   |
| 40 - 44 yrs.....   | 461                            | 212    | 673           | 3.9   | 244                           | 56     | 300           | 5.0   |
| 45 - 49 yrs.....   | 557                            | 206    | 763           | 4.4   | 227                           | 76     | 303           | 5.0   |
| 50 - 54 yrs.....   | 644                            | 288    | 932           | 5.4   | 268                           | 93     | 361           | 6.0   |
| 55 - 59 yrs.....   | 619                            | 327    | 946           | 5.4   | 224                           | 88     | 312           | 5.2   |
| 60 - 64 yrs.....   | 631                            | 373    | 1004          | 5.8   | 252                           | 101    | 353           | 5.9   |
| 65 - 69 yrs.....   | 624                            | 415    | 1039          | 6.0   | 212                           | 129    | 335           | 5.6   |
| 70 yrs. & Over.... | 2228                           | 1752   | 3980          | 22.9  | 681                           | 555    | 1236          | 20.6  |
| Not Stated.....    | 0                              | 0      | 0             | 0.0   | 0                             | 0      | 0             | 0.0   |

TABLE 20

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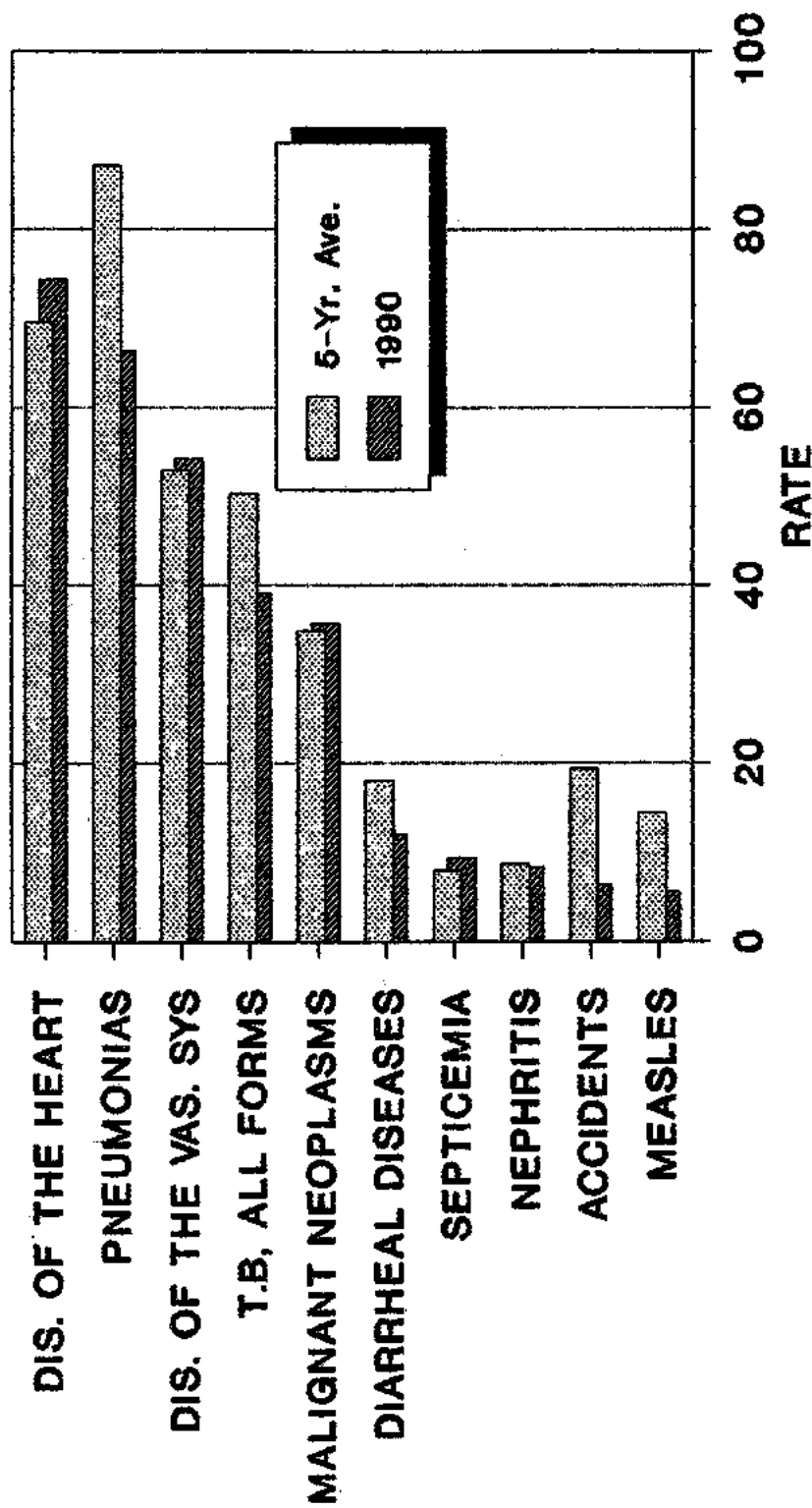
MORTALITY: TEN (10) LEADING CAUSES  
No. & Rate/100,000 Pop.  
PHILIPPINES  
5-YEAR AVERAGE (1985-1989) & 1990

| C A U S E   | 5-Year Average<br>(1985-1989) |      |                         | 1 9 9 0 |      |                         |
|---|-------------------------------|------|-------------------------|---------|------|-------------------------|
|   | NUMBER                        | RATE | % OF<br>TOTAL<br>DEATHS | NUMBER  | RATE | % OF<br>TOTAL<br>DEATHS |
| 1. DISEASES OF THE HEART....<br>390-398;402-404;410-429)                            | 39,933                        | 69.6 | 12.1                    | 46,272  | 74.4 | 14.7                    |
| 2. PNEUMONIAS.....(480-486)   | 49,984                        | 87.1 | 15.2                    | 41,240  | 66.3 | 13.1                    |
| 3. DISEASES OF THE VASCULAR<br>SYSTEM.....(401;403;405;<br>430-438;440-448;451-459) | 30,338                        | 52.9 | 9.2                     | 33,729  | 54.2 | 10.7                    |
| 4. TUBERCULOSIS, ALL FORMS..<br>.....(010-018;137)                                  | 28,854                        | 50.3 | 8.8                     | 24,307  | 39.1 | 7.7                     |
| 5. MALIGNANT NEOPLASMS.....<br>.....(140-239)                                       | 20,004                        | 34.9 | 6.1                     | 22,179  | 35.7 | 7.1                     |
| 6. DIARRHEAL DISEASES.....<br>.....(001-009)  | 10,316                        | 18.0 | 3.1                     | 7,493   | 12.0 | 2.4                     |
| 7. SEPTICEMIA.....(038)   | 4,598                         | 8.0  | 1.4                     | 5,835   | 9.4  | 1.9                     |
| 8. NEPHRITIS, NEPHROTIC<br>SYNDROME AND NEPHROSIS..<br>.....(580-589)               | 4,986                         | 8.7  | 1.5                     | 5,151   | 8.3  | 1.6                     |
| 9. ACCIDENTS.....<br>.....(800-999;E800-E949)                                       | 11,051                        | 19.3 | 3.4                     | 3,993   | 6.4  | 1.3                     |
| 10. MEASLES.....(055)   | 8,246                         | 14.4 | 2.5                     | 3,499   | 5.6  | 1.1                     |

# MORTALITY: TEN (10) LEADING CAUSES

Rate per 100,000 Population

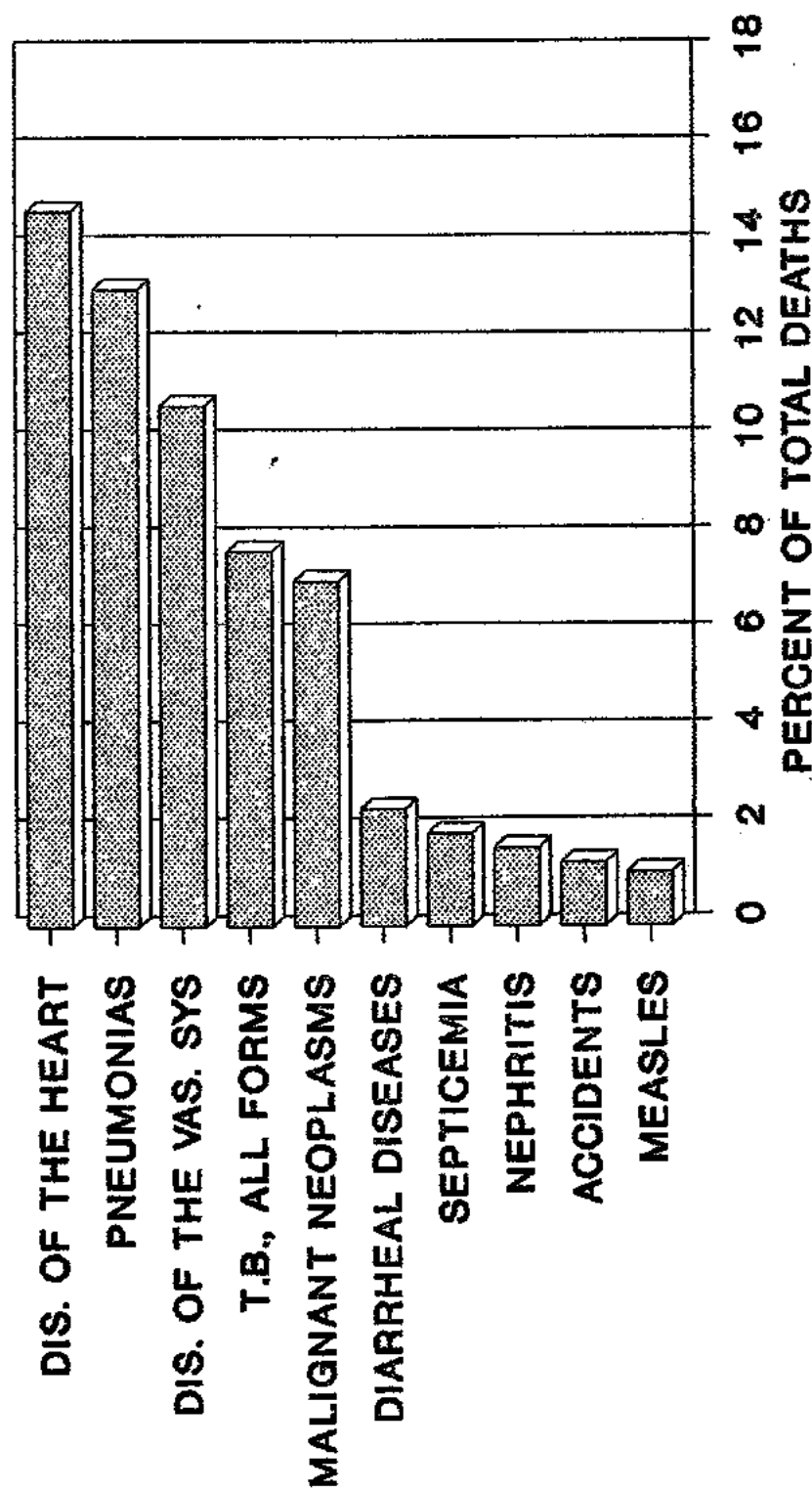
Phils., 5-Yr. Ave.(1985-1989) & 1990



Nephritis Includes Nephrotic Syndrome and Nephrosis

Fig. 24

# TOTAL MORTALITY: TEN (10) LEADING CAUSES PERCENTAGE DISTRIBUTION PHILIPPINES, 1990



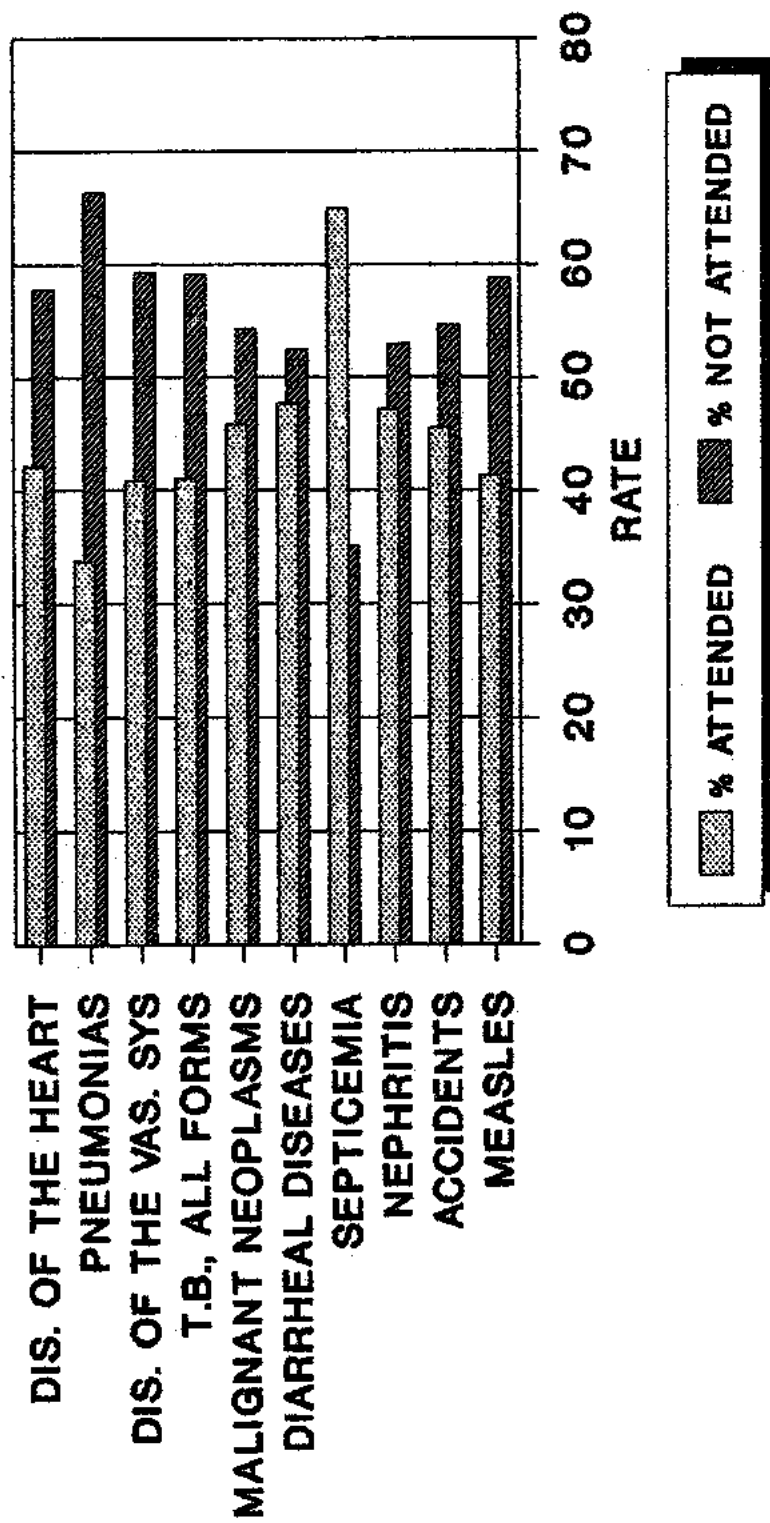
Nephritis includes Nephrotic  
Syndrome and Nephrosis

Fig. 26

MORTALITY: TEN (10) LEADING CAUSES BY ATTENDANCE  
No. & Percentage Distribution  
PHILIPPINES  
1990

| C A U S E   | TOTAL DEATHS |         | ATTENDANCE |         |              |         |
|---|--------------|---------|------------|---------|--------------|---------|
|   |              |         | ATTENDED   |         | NOT ATTENDED |         |
|   | NUMBER       | PERCENT | NUMBER     | PERCENT | NUMBER       | PERCENT |
| 1. DISEASES OF THE HEART.....                       | 46272        | 100.0   | 19510      | 42.2    | 26762        | 57.8    |
| 2. PNEUMONIAS.....                                  | 41239        | 100.0   | 13884      | 33.7    | 27354        | 66.3    |
| 3. DISEASES OF THE VASCULAR SYSTEM....              | 33729        | 100.0   | 13750      | 40.8    | 19979        | 59.2    |
| 4. TUBERCULOSIS, ALL FORMS.....                     | 24307        | 100.0   | 9957       | 41.0    | 14350        | 59.0    |
| 5. MALIGNANT NEOPLASMS                              | 22179        | 100.0   | 10151      | 45.8    | 12028        | 54.2    |
| 6. DIARRHEAL DISEASES.                              | 7493         | 100.0   | 3566       | 47.6    | 3927         | 52.4    |
| 7. SEPTICEMIA.....                                  | 5835         | 100.0   | 3787       | 64.9    | 2048         | 35.1    |
| 8. NEPHRITIS, NEPHROTIC SYNDROME AND NEPHROSIS..... | 5151         | 100.0   | 2425       | 47.1    | 2726         | 52.9    |
| 9. ACCIDENTS.....                                   | 3993         | 100.0   | 1816       | 45.5    | 2177         | 54.5    |
| 10. MEASLES.....                                    | 3499         | 100.0   | 1445       | 41.3    | 2054         | 58.7    |

# MORTALITY: LEADING CAUSES BY ATTENDANCE PERCENT DISTRIBUTION PHILIPPINES, 1990



Nephritis includes Nephrotic Syndrome and Nephrosis

Fig. 26

TABLE 22 MORTALITY: BY ATTENDANCE, HEALTH REGION, PROVINCE & CITY  
No. & Percentage Distribution  
PHILIPPINES  
1990

| A R E A               | TOTAL<br>DEATHS | ATTENDANCE |         |              |         |
|-----------------------|-----------------|------------|---------|--------------|---------|
|                       |                 | ATTENDED   |         | NOT ATTENDED |         |
|                       |                 | NUMBER     | PERCENT | NUMBER       | PERCENT |
| PHILIPPINES.....      | 313,890         | 129,622    | 41.3    | 184,268      | 58.7    |
| NAT. CAP. REGION..... | 49,591          | 31,503     | 63.5    | 18,088       | 36.5    |
| 1ST DIST. MANILA..... | 15,776          | 9,842      | 62.4    | 5,934        | 37.6    |
| 2ND DIST. MUN.....    | 5,960           | 3,626      | 60.8    | 2,334        | 39.2    |
| QUEZON CITY.....      | 12,718          | 9,947      | 78.2    | 2,771        | 21.8    |
| 3RD DIST. MUN.....    | 3,208           | 1,382      | 43.1    | 1,826        | 56.9    |
| CALOOCAN CITY.....    | 3,891           | 2,248      | 57.8    | 1,643        | 42.2    |
| 4TH DIST. MUN.....    | 6,361           | 3,503      | 55.1    | 2,858        | 44.9    |
| PASAY CITY.....       | 1,677           | 955        | 56.9    | 722          | 43.1    |
| C.A.R.....            | 4,530           | 1,786      | 39.4    | 2,744        | 60.6    |
| ABRA.....             | 692             | 236        | 34.1    | 456          | 65.9    |
| BENGUET.....          | 1,138           | 433        | 38.0    | 705          | 62.0    |
| IFUGAO.....           | 366             | 150        | 41.0    | 216          | 59.0    |
| KALINGA-APAYAO.....   | 570             | 130        | 22.8    | 440          | 77.2    |
| MT. PROVINCE.....     | 405             | 180        | 44.4    | 225          | 55.6    |
| BAGUIO CITY.....      | 1,359           | 657        | 48.3    | 702          | 51.7    |
| REGION 1.....         | 24,461          | 8,477      | 34.7    | 15,984       | 65.3    |
| ILOCOS NORTE.....     | 2,507           | 1,102      | 44.0    | 1,405        | 56.0    |
| ILOCOS SUR.....       | 3,636           | 1,168      | 32.1    | 2,468        | 67.8    |
| LA UNION.....         | 4,162           | 1,474      | 35.4    | 2,688        | 64.6    |
| PANGASINAN.....       | 10,797          | 2,932      | 27.2    | 7,865        | 72.8    |
| DAGUPAN CITY.....     | 1,811           | 1,095      | 60.5    | 716          | 39.5    |
| LAOAG CITY.....       | 683             | 377        | 55.2    | 306          | 44.8    |
| SAN CARLOS CITY.....  | 865             | 329        | 38.0    | 536          | 62.0    |
| REGION 2.....         | 12,462          | 3,790      | 30.4    | 8,672        | 69.6    |
| BATANES.....          | 95              | 43         | 45.3    | 52           | 54.7    |
| CAGAYAN.....          | 5,216           | 1,639      | 31.4    | 3,577        | 68.6    |
| ISABELA.....          | 5,229           | 1,515      | 29.0    | 3,714        | 71.0    |
| NUEVA VIZCAYA.....    | 1,445           | 455        | 31.5    | 990          | 68.5    |
| QUIRINO.....          | 477             | 138        | 28.9    | 339          | 71.1    |
| REGION 3.....         | 31,853          | 14,431     | 45.3    | 17,422       | 54.7    |
| BATAAN.....           | 2,182           | 1,100      | 50.4    | 1,082        | 49.6    |
| BULACAN.....          | 8,352           | 4,203      | 50.3    | 4,149        | 49.7    |
| NUEVA ECIJA.....      | 4,582           | 1,771      | 38.7    | 2,811        | 61.3    |
| PAMPANGA.....         | 5,555           | 2,491      | 44.8    | 3,064        | 55.2    |
| TARLAC.....           | 4,606           | 1,467      | 31.8    | 3,139        | 68.2    |
| ZAMBALES.....         | 1,883           | 972        | 51.6    | 911          | 48.4    |

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TABLE 22 MORTALITY: BY ATTENDANCE, HEALTH REGION, PROVINCE & CITY  
No. & Percentage Distribution  
PHILIPPINES  
1990

| A R E A                   | TOTAL<br>DEATHS | ATTENDANCE |         |              |         |
|---------------------------|-----------------|------------|---------|--------------|---------|
|                           |                 | ATTENDED   |         | NOT ATTENDED |         |
|                           |                 | NUMBER     | PERCENT | NUMBER       | PERCENT |
| ANGELES CITY.....         | 1,363           | 693        | 50.8    | 670          | 49.2    |
| CARANATUAN CITY.....      | 1,531           | 824        | 53.8    | 707          | 46.2    |
| OLONGAPO CITY.....        | 1,160           | 641        | 55.3    | 519          | 44.7    |
| PALAYAN CITY.....         | 74              | 5          | 6.8     | 69           | 93.2    |
| SAN JOSE CITY.....        | 565             | 264        | 46.7    | 301          | 53.3    |
| REGION 4                  | 45,116          | 19,362     | 42.9    | 25,754       | 57.1    |
| AURORA.....               | 718             | 231        | 32.2    | 487          | 67.8    |
| BATANGAS.....             | 5,965           | 2,113      | 35.4    | 3,852        | 64.6    |
| CAVITE.....               | 4,678           | 2,197      | 47.0    | 2,481        | 53.0    |
| LAGUNA.....               | 6,505           | 2,857      | 43.9    | 3,648        | 56.1    |
| MARINDUQUE.....           | 1,256           | 469        | 37.3    | 787          | 62.7    |
| MINDORO OCC.....          | 1,073           | 454        | 42.3    | 619          | 57.7    |
| MINDORO OR.....           | 2,835           | 1,135      | 40.0    | 1,700        | 60.0    |
| FALAWAN.....              | 1,136           | 514        | 45.2    | 622          | 54.8    |
| QUEZON.....               | 8,265           | 2,877      | 34.8    | 5,388        | 65.2    |
| RIZAL.....                | 4,505           | 2,490      | 55.3    | 2,015        | 44.7    |
| ROMBLON.....              | 1,377           | 529        | 38.4    | 848          | 61.6    |
| BATANGAS CITY.....        | 1,163           | 644        | 55.4    | 519          | 44.6    |
| CAVITE CITY.....          | 721             | 546        | 75.7    | 175          | 24.3    |
| LIPA CITY.....            | 1,070           | 372        | 34.8    | 698          | 65.2    |
| LUCENA CITY.....          | 1,543           | 762        | 49.4    | 781          | 50.6    |
| PUERTO PRINCESA CITY..... | 491             | 241        | 49.1    | 250          | 50.9    |
| SAN PABLO CITY.....       | 1,390           | 620        | 44.6    | 770          | 55.4    |
| TAGAYTAY CITY.....        | 94              | 21         | 22.3    | 73           | 77.7    |
| TRECE MARTIRES CITY.....  | 331             | 290        | 87.6    | 41           | 12.4    |
| REGION 5                  | 22,131          | 6,396      | 28.9    | 15,735       | 71.1    |
| ALBAY.....                | 4,579           | 1,074      | 23.5    | 3,505        | 76.5    |
| CAMARINES NORTE.....      | 2,878           | 818        | 28.4    | 2,060        | 71.6    |
| CAMARINES SUR.....        | 5,783           | 1,023      | 17.7    | 4,760        | 82.3    |
| CATANDUANES.....          | 1,212           | 505        | 41.7    | 707          | 58.3    |
| MASBATE.....              | 1,905           | 510        | 26.8    | 1,395        | 73.2    |
| SORSOGON.....             | 3,148           | 1,158      | 36.8    | 1,990        | 63.2    |
| IRIGA CITY.....           | 508             | 156        | 30.7    | 352          | 69.3    |
| LEGASPI CITY.....         | 928             | 444        | 47.8    | 484          | 52.2    |
| NAGA CITY.....            | 1,190           | 708        | 59.5    | 482          | 40.5    |
| REGION 6                  | 31,161          | 11,392     | 36.6    | 19,769       | 63.4    |
| AKLAN.....                | 2,467           | 724        | 29.3    | 1,743        | 70.7    |
| ANTIQUE.....              | 2,937           | 897        | 30.2    | 2,050        | 69.8    |
| CAPIZ.....                | 2,356           | 447        | 19.0    | 1,909        | 81.0    |
| ILOILO.....               | 7,743           | 2,574      | 33.2    | 5,169        | 66.8    |
| NEGROS OCC.....           | 5,789           | 1,432      | 24.7    | 4,357        | 75.3    |

TABLE 22 MORTALITY: BY ATTENDANCE, HEALTH REGION, PROVINCE & CITY  
No. & Percentage Distribution  
PHILIPPINES  
1990

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| A R E A              | TOTAL<br>DEATHS | ATTENDANCE |         |              |         |
|----------------------|-----------------|------------|---------|--------------|---------|
|                      |                 | ATTENDED   |         | NOT ATTENDED |         |
|                      |                 | NUMBER     | PERCENT | NUMBER       | PERCENT |
| RACOLOD CITY.....    | 3,423           | 2,137      | 62.4    | 1,286        | 37.6    |
| RAGO CITY.....       | 530             | 13         | 2.5     | 517          | 97.5    |
| CADIZ CITY.....      | 453             | 15         | 3.3     | 438          | 96.7    |
| ILOILO CITY.....     | 2,848           | 1,777      | 62.4    | 1,071        | 37.6    |
| LA CARLOTA CITY..... | 259             | 99         | 38.2    | 160          | 61.8    |
| ROXAS CITY.....      | 981             | 554        | 56.5    | 427          | 43.5    |
| SAN CARLOS CITY..... | 692             | 389        | 56.2    | 303          | 43.8    |
| SILAY CITY.....      | 683             | 344        | 50.4    | 339          | 49.6    |
| REGION 7             | 28,177          | 9,479      | 33.6    | 18,698       | 66.4    |
| BOHOL.....           | 5,441           | 875        | 16.1    | 4,566        | 83.9    |
| CEBU.....            | 8,732           | 1,436      | 16.4    | 7,296        | 83.6    |
| NEGROS OR.....       | 2,341           | 578        | 24.7    | 1,763        | 75.3    |
| SIGUIJOR.....        | 528             | 86         | 16.3    | 442          | 83.7    |
| BAIS CITY.....       | 235             | 105        | 44.7    | 130          | 55.3    |
| CANLAON CITY.....    | 306             | 4          | 1.3     | 302          | 98.7    |
| CEBU CITY.....       | 6,071           | 4,054      | 66.8    | 2,017        | 33.2    |
| DANAO CITY.....      | 522             | 259        | 49.6    | 263          | 50.4    |
| DUMAGUETE CITY.....  | 1,118           | 844        | 75.5    | 274          | 24.5    |
| LAPU-LAPU CITY.....  | 805             | 192        | 23.9    | 613          | 76.1    |
| MANDAWE CITY.....    | 800             | 435        | 54.4    | 365          | 45.6    |
| TAGBILARAN CITY..... | 725             | 509        | 70.2    | 216          | 29.8    |
| TOLEDO CITY.....     | 553             | 102        | 18.4    | 451          | 81.6    |
| REGION 8             | 15,407          | 4,363      | 28.3    | 11,044       | 71.7    |
| LEYTE DEL NORTE..... | 6,837           | 1,418      | 20.7    | 5,419        | 79.3    |
| LEYTE DEL SUR.....   | 2,260           | 728        | 32.2    | 1,532        | 67.8    |
| EASTERN SAMAR.....   | 812             | 344        | 42.4    | 468          | 57.6    |
| NORTHERN SAMAR.....  | 1,641           | 476        | 29.0    | 1,165        | 71.0    |
| WESTERN SAMAR.....   | 1,048           | 271        | 25.9    | 777          | 74.1    |
| CALBAYOG CITY.....   | 640             | 166        | 25.9    | 474          | 74.1    |
| ORMOC CITY.....      | 751             | 306        | 40.7    | 445          | 59.3    |
| TACLOBAN CITY.....   | 1,418           | 654        | 46.1    | 764          | 53.9    |
| REGION 9             | 10,165          | 4,792      | 47.1    | 5,373        | 52.9    |
| BASILAN.....         | 578             | 291        | 50.3    | 287          | 49.7    |
| SULU.....            | 817             | 716        | 87.6    | 101          | 12.4    |
| TAWI-TAWI.....       | 39              | 11         | 28.2    | 28           | 71.8    |
| ZAMB. DEL NORTE..... | 1,637           | 444        | 27.1    | 1,193        | 72.9    |
| ZAMB. DEL SUR.....   | 2,577           | 1,006      | 39.0    | 1,571        | 61.0    |

MORTALITY: BY ATTENDANCE, HEALTH REGION, PROVINCE & CITY  
No. & Percentage Distribution  
PHILIPPINES  
1990

| A R E A                | TOTAL<br>DEATHS | ATTENDANCE |         |              |         |
|------------------------|-----------------|------------|---------|--------------|---------|
|                        |                 | ATTENDED   |         | NOT ATTENDED |         |
|                        |                 | NUMBER     | PERCENT | NUMBER       | PERCENT |
| DAPITAN CITY.....      | 383             | 182        | 47.5    | 201          | 52.5    |
| DIPOLOG CITY.....      | 566             | 253        | 44.7    | 313          | 55.3    |
| PAGADIAN CITY.....     | 867             | 494        | 57.0    | 373          | 43.0    |
| ZAMBOANGA CITY.....    | 2,701           | 1,395      | 51.6    | 1,306        | 48.4    |
| REGION 10              | 15,456          | 4,999      | 32.3    | 10,457       | 67.7    |
| AGUSAN DEL NORTE.....  | 959             | 260        | 27.1    | 699          | 72.9    |
| AGUSAN DEL SUR.....    | 1,058           | 283        | 26.7    | 775          | 73.3    |
| BUKIDNON.....          | 2,326           | 938        | 40.3    | 1,388        | 59.7    |
| CAMIGUIN.....          | 403             | 137        | 34.0    | 266          | 66.0    |
| MISAMIS OCC.....       | 1,171           | 94         | 8.0     | 1,077        | 92.0    |
| MISAMIS OR.....        | 1,897           | 335        | 17.7    | 1,562        | 82.3    |
| SURIGAO DEL NORTE..... | 1,189           | 186        | 15.5    | 1,013        | 84.5    |
| BUTUAN CITY.....       | 1,490           | 618        | 41.5    | 872          | 58.5    |
| CAGAYAN DE ORO.....    | 2,176           | 939        | 43.2    | 1,237        | 56.8    |
| GINGOOG CITY.....      | 546             | 218        | 39.9    | 328          | 60.1    |
| OROQUIETA CITY.....    | 527             | 287        | 54.5    | 240          | 45.5    |
| OZAMIS CITY.....       | 734             | 304        | 41.4    | 430          | 58.6    |
| SURIGAO CITY.....      | 674             | 320        | 47.5    | 354          | 52.5    |
| TANGUB CITY.....       | 296             | 80         | 27.0    | 216          | 73.0    |
| REGION 11              | 17,371          | 6,445      | 37.1    | 10,926       | 62.9    |
| COTABATO SOUTH.....    | 2,719           | 1,182      | 43.5    | 1,537        | 56.5    |
| DAVAO ORIENTAL.....    | 1,011           | 267        | 26.4    | 744          | 73.6    |
| DAVAO DEL NORTE.....   | 3,990           | 1,415      | 35.5    | 2,575        | 64.5    |
| DAVAO DEL SUR.....     | 2,040           | 639        | 31.3    | 1,401        | 68.7    |
| SURIGAO DEL SUR.....   | 1,965           | 795        | 40.5    | 1,170        | 59.5    |
| DAVAO CITY.....        | 4,102           | 1,540      | 37.5    | 2,562        | 62.5    |
| GEN. SANTOS CITY.....  | 1,544           | 607        | 39.3    | 937          | 60.7    |
| REGION 12              | 6,009           | 2,407      | 40.1    | 3,602        | 59.9    |
| LANAO DEL NORTE.....   | 1,071           | 405        | 37.8    | 666          | 62.2    |
| LANAO DEL SUR.....     | 133             | 13         | 9.8     | 120          | 90.2    |
| MAGUINDANAO.....       | 382             | 68         | 17.8    | 314          | 82.2    |
| NORTH COTABATO.....    | 791             | 265        | 33.5    | 526          | 66.5    |
| SULTAN KUDARAT.....    | 1,176           | 440        | 37.4    | 736          | 62.6    |
| COTABATO CITY.....     | 765             | 465        | 60.8    | 300          | 39.2    |
| ILIGAN CITY.....       | 1,582           | 665        | 42.0    | 917          | 58.0    |
| MARAWI CITY.....       | 109             | 86         | 78.9    | 23           | 21.1    |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE & SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| C A U S E  | ALL AGES |        |               |       |
|--|----------|--------|---------------|-------|
|  | MALE     | FEMALE | BOTH<br>SEXES | RATE  |
| Typhoid & Paratyphoid fevers.....(002)   | 584      | 456    | 1040          | 1.7   |
| Other salmonella infections.....(003)  | 1        | 5      | 6             | 0.01  |
| Shigellosis and amoebiasis<br>(Dysentery, All Forms).....(004;006)             | 348      | 246    | 594           | 1.0   |
| Other food poisoning (Bacterial).....(005)                                     | 114      | 72     | 186           | 0.3   |
| Other intestinal infectious diseases.....<br>.....(007;008)                    | 4        | 3      | 7             | 0.01  |
| Diarrheas.....(009)  | 3272     | 2386   | 5658          | 9.1   |
| Tuberculosis of the respiratory<br>system.....(010-012)                        | 15264    | 8477   | 23741         | 38.2  |
| Tuberculosis of meninges & CNS.....(013)                                       | 222      | 174    | 396           | 0.6   |
| Other tuberculosis, including<br>late effects.....(014-018;137)                | 105      | 65     | 170           | 0.3   |
| Plague.....(020)   | 1        | 0      | 1             | 0.002 |
| Leprosy.....(030)  | 47       | 21     | 68            | 0.1   |
| Diphtheria.....(032)   | 59       | 53     | 112           | 0.2   |
| Whooping cough.....(033)   | 2        | 7      | 9             | 0.01  |
| Streptococcal sore throat.....(034)  | 1        | 2      | 3             | 0.005 |
| Meningococcal infection.....(036)  | 113      | 79     | 192           | 0.3   |
| Tetanus.....(037)  | 685      | 294    | 989           | 1.6   |
| Septicemia.....(038)   | 3130     | 2705   | 5835          | 9.4   |
| All other diseases caused by bacteria.....<br>.....(021-027;031;035;039-041)   | 44       | 45     | 89            | 0.1   |
| Acute poliomyelitis including<br>late effects.....(045;138)                    | 12       | 11     | 23            | 0.04  |
| Smallpox.....(050)   | 1        | 0      | 1             | 0.002 |
| Chickenpox.....(052)   | 20       | 0      | 20            | 0.03  |
| Measles.....(055)  | 1831     | 1668   | 3499          | 5.6   |
| Yellow Fever.....(060)   |          |        |               |       |
| Dengue-hemorrhagic fever.....(061;065)   | 179      | 174    | 353           | 0.6   |
| Arthropod-borne viral encephalitis<br>including late effects.....(062-064;139) | 28       | 23     | 51            | 0.08  |
| Viral hepatitis.....(070)  | 618      | 313    | 931           | 1.5   |
| Rabies.....(071)   | 339      | 152    | 491           | 0.8   |
| Other viral diseases.....<br>.....(046-049;051-054;056;057;066;072-079)        | 88       | 66     | 154           | 0.2   |
| Malaria.....(084)  | 552      | 361    | 913           | 1.5   |
| Other arthropod-borne<br>diseases.....(080-083;085-089)                        | 10       | 8      | 18            | 0.03  |
| Syphilis.....(090-097)   | 1        | 2      | 3             | 0.005 |
| Gonococcal Infections.....(098)  | 0        | 0      | 0             | 0.0   |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| C A U S E  | UNDER 1 YEAR |             |               |       | 1 - 4 YEARS |             |               |      |
|--|--------------|-------------|---------------|-------|-------------|-------------|---------------|------|
|  | MALE         | FE-<br>MALE | BOTH<br>SEXES | RATE  | MALE        | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Typhoid & Paratyphoid fevers...                                      | 11           | 11          | 22            | 1.2   | 32          | 25          | 57            | 0.9  |
| Other salmonella infections....                                      | 0            | 1           | 1             | 0.1   | 0           | 1           | 1             | 0.01 |
| Shigellosis and amoebiasis<br>(Dysentery, All Forms).....            | 90           | 62          | 152           | 8.4   | 101         | 75          | 176           | 2.6  |
| Other food poisoning<br>(Bacterial).....                             | 3            | 3           | 6             | 0.3   | 27          | 26          | 53            | 0.8  |
| Other intestinal infectious<br>diseases.....                         | 2            | 0           | 2             | 0.1   | 0           | 0           | 0             | 0.0  |
| Diarrheas.....   | 1090         | 748         | 1838          | 101.1 | 987         | 806         | 1793          | 26.8 |
| Tuberculosis of the<br>respiratory system.....                       | 0            | 0           | 0             | 0.0   | 0           | 0           | 0             | 0.0  |
| Tuberculosis of meninges & CNS.                                      | 12           | 11          | 23            | 1.3   | 41          | 45          | 86            | 1.3  |
| Other tuberculosis, including<br>late effects.....                   | 2            | 4           | 6             | 0.3   | 4           | 0           | 4             | 0.06 |
| Plague.....  | 0            | 0           | 0             | 0.0   | 0           | 0           | 0             | 0.0  |
| Leprosy.....   | 0            | 0           | 0             | 0.0   | 0           | 1           | 1             | 0.01 |
| Diphtheria.....  | 9            | 7           | 16            | 0.9   | 37          | 31          | 68            | 1.0  |
| Whooping cough.....  | 2            | 4           | 6             | 0.3   | 0           | 3           | 3             | 0.04 |
| Streptococcal sore throat.....                                       | 0            | 0           | 0             | 0.0   | 0           | 1           | 1             | 0.01 |
| Meningococcal infection.....   | 24           | 16          | 40            | 2.2   | 38          | 26          | 64            | 1.0  |
| Tetanus.....   | 102          | 70          | 172           | 9.5   | 24          | 21          | 45            | 0.7  |
| Septicemia.....  | 889          | 643         | 1532          | 84.3  | 331         | 317         | 648           | 9.7  |
| All other diseases caused<br>by bacteria.....                        | 11           | 15          | 26            | 1.4   | 11          | 12          | 23            | 0.3  |
| Acute poliomyelitis including<br>late effects.....                   | 1            | 0           | 1             | 0.1   | 0           | 1           | 1             | 0.01 |
| Smallpox.....  | 0            | 0           | 0             | 0.0   | 0           | 0           | 0             | 0.0  |
| Chickenpox.....  | 0            | 7           | 7             | 0.4   | 4           | 0           | 4             | 0.06 |
| Measles.....   | 408          | 321         | 729           | 40.1  | 1077        | 986         | 2063          | 30.9 |
| Yellow Fever.....  | 0            | 0           | 0             | 0.0   | 0           | 0           | 0             | 0.0  |
| Dengue-hemorrhagic fever.....  | 21           | 26          | 47            | 2.6   | 57          | 50          | 107           | 1.6  |
| Arthropod-borne viral<br>encephalitis including late<br>effects..... | 5            | 2           | 7             | 0.4   | 5           | 4           | 9             | 0.1  |
| Viral hepatitis.....   | 47           | 27          | 74            | 4.1   | 29          | 16          | 45            | 0.7  |
| Rabies.....  | 3            | 1           | 4             | 0.2   | 24          | 10          | 34            | 0.5  |
| Other viral diseases.....  | 21           | 13          | 34            | 1.9   | 24          | 16          | 40            | 0.6  |
| Malaria.....   | 10           | 8           | 18            | 1.0   | 30          | 38          | 68            | 1.0  |
| Other arthropod-borne diseases.                                      | 2            | 0           | 2             | 0.1   | 3           | 1           | 4             | 0.06 |
| Syphilis.....  | 0            | 0           | 0             | 0.0   | 0           | 2           | 2             | 0.03 |
| Gonococcal Infections.....   | 0            | 0           | 0             | 0.0   | 0           | 0           | 0             | 0.0  |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| C A U S E  | 5 - 9 YEARS |             |               |      | 10 - 14 YEARS |             |               |      |
|--|-------------|-------------|---------------|------|---------------|-------------|---------------|------|
|  | MALE        | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Typhoid & Paratyphoid fevers...                                      | 39          | 40          | 79            | 1.0  | 41            | 49          | 90            | 1.2  |
| Other salmonella infections....                                      | 0           | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Shigellosis and amoebiasis<br>(Dysentery, All Forms).....            | 37          | 16          | 53            | 0.7  | 21            | 8           | 29            | 0.4  |
| Other food poisoning<br>(Bacterial).....                             | 15          | 15          | 30            | 0.4  | 10            | 4           | 14            | 0.2  |
| Other intestinal infectious<br>diseases.....                         | 0           | 1           | 1             | 0.01 | 1             | 0           | 1             | 0.01 |
| Diarrheas.....   | 238         | 171         | 409           | 5.1  | 77            | 48          | 125           | 1.7  |
| Tuberculosis of the<br>respiratory system.....                       | 0           | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Tuberculosis of meninges & CNS.                                      | 30          | 31          | 61            | 0.8  | 23            | 11          | 34            | 0.5  |
| Other tuberculosis, including<br>late effects.....                   | 5           | 2           | 7             | 0.09 | 3             | 2           | 5             | 0.07 |
| Plague.....  | 0           | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Leprosy.....   | 0           | 0           | 0             | 0.0  | 1             | 0           | 1             | 0.01 |
| Diphtheria.....  | 7           | 7           | 14            | 0.2  | 3             | 5           | 8             | 0.1  |
| Whooping cough.....  | 0           | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Streptococcal sore throat.....                                       | 0           | 1           | 1             | 0.01 | 0             | 0           | 0             | 0.0  |
| Meningococcal infection.....   | 17          | 10          | 27            | 0.3  | 10            | 4           | 14            | 0.2  |
| Tetanus.....   | 84          | 39          | 123           | 1.5  | 79            | 22          | 101           | 1.4  |
| Septicemia.....  | 117         | 121         | 238           | 2.9  | 101           | 82          | 183           | 2.5  |
| All other diseases caused<br>by bacteria.....                        | 3           | 4           | 7             | 0.09 | 3             | 1           | 4             | 0.05 |
| Acute poliomyelitis including<br>late effects.....                   | 4           | 2           | 6             | 0.07 | 0             | 4           | 4             | 0.05 |
| Smallpox.....  | 0           | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Chickenpox.....  | 0           | 2           | 2             | 0.02 | 0             | 1           | 1             | 0.01 |
| Measles.....   | 268         | 232         | 550           | 6.8  | 40            | 42          | 82            | 1.1  |
| Yellow Fever.....  | 0           | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Dengue-hemorrhagic fever.....  | 50          | 55          | 105           | 1.3  | 15            | 25          | 40            | 0.5  |
| Arthropod-borne viral<br>encephalitis including late<br>effects..... | 4           | 4           | 8             | 0.1  | 4             | 2           | 6             | 0.08 |
| Viral hepatitis.....   | 17          | 13          | 30            | 0.4  | 20            | 12          | 32            | 0.4  |
| Rabies.....  | 55          | 25          | 80            | 1.0  | 57            | 20          | 77            | 1.0  |
| Other viral diseases.....  | 3           | 11          | 14            | 0.2  | 5             | 2           | 7             | 0.09 |
| Malaria.....   | 39          | 31          | 70            | 0.9  | 31            | 23          | 54            | 0.7  |
| Other arthropod-borne diseases.                                      | 1           | 0           | 1             | 0.01 | 1             | 0           | 1             | 0.01 |
| Syphilis.....  | 0           | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Gonococcal Infections.....   | 0           | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| C A U S E  | 15 - 19 YEARS |             |               |      | 20 - 24 YEARS |             |               |      |
|--|---------------|-------------|---------------|------|---------------|-------------|---------------|------|
|  | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Typhoid & Paratyphoid fevers...                                      | 74            | 53          | 127           | 1.9  | 69            | 51          | 120           | 2.0  |
| Other salmonella infections...                                       | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Shigellosis and amoebiasis<br>(Dysentery, All Forms).....            | 6             | 3           | 9             | 0.1  | 9             | 4           | 13            | 0.2  |
| Other food poisoning<br>(Bacterial).....                             | 1             | 2           | 3             | 0.05 | 7             | 3           | 10            | 0.2  |
| Other intestinal infectious<br>diseases.....                         | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Diarrheas.....   | 48            | 32          | 80            | 1.2  | 43            | 31          | 74            | 1.3  |
| Tuberculosis of the<br>respiratory system.....                       | 271           | 215         | 486           | 7.4  | 336           | 235         | 571           | 9.7  |
| Tuberculosis of meninges & CNS.                                      | 14            | 17          | 31            | 0.5  | 17            | 17          | 34            | 0.6  |
| Other tuberculosis, including<br>late effects.....                   | 4             | 1           | 5             | 0.08 | 3             | 2           | 5             | 0.09 |
| Plague.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Leprosy.....   | 0             | 0           | 0             | 0.0  | 4             | 2           | 6             | 0.1  |
| Diphtheria.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Whooping cough.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Streptococcal sore throat.....                                       | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Meningococcal infection.....   | 4             | 5           | 9             | 0.1  | 6             | 3           | 9             | 0.2  |
| Tetanus.....   | 58            | 6           | 64            | 1.0  | 39            | 15          | 54            | 0.9  |
| Septicemia.....  | 87            | 80          | 167           | 2.5  | 105           | 120         | 225           | 3.8  |
| All other diseases caused<br>by bacteria.....                        | 2             | 1           | 3             | 0.05 | 0             | 0           | 0             | 0.0  |
| Acute poliomyelitis including<br>late effects.....                   | 5             | 0           | 5             | 0.08 | 1             | 0           | 1             | 0.02 |
| Smallpox.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Chickenpox.....  | 0             | 0           | 0             | 0.0  | 0             | 2           | 2             | 0.03 |
| Measles.....   | 12            | 10          | 22            | 0.3  | 10            | 6           | 16            | 0.3  |
| Yellow Fever.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Dengue-hemorrhagic fever.....  | 11            | 6           | 17            | 0.3  | 10            | 1           | 11            | 0.2  |
| Arthropod-borne viral<br>encephalitis including late<br>effects..... | 4             | 6           | 10            | 0.2  | 1             | 1           | 2             | 0.03 |
| Viral hepatitis.....   | 11            | 5           | 16            | 0.2  | 37            | 17          | 54            | 0.9  |
| Rabies.....  | 23            | 5           | 28            | 0.4  | 16            | 4           | 20            | 0.3  |
| Other viral diseases.....  | 1             | 2           | 3             | 0.05 | 2             | 2           | 4             | 0.07 |
| Malaria.....   | 38            | 25          | 63            | 1.0  | 41            | 39          | 80            | 1.4  |
| Other arthropod-borne diseases.                                      | 0             | 0           | 0             | 0.0  | 0             | 1           | 1             | 0.02 |
| Syphilis.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Gonococcal Infections.....   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| C A U S E  | 25 - 29 YEARS |             |               |      | 30 - 34 YEARS |             |               |      |
|--|---------------|-------------|---------------|------|---------------|-------------|---------------|------|
|  | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Typhoid & Paratyphoid fevers...                                      | 57            | 35          | 92            | 1.8  | 42            | 30          | 72            | 1.6  |
| Other salmonella infections....                                      | 1             | 1           | 2             | 0.04 | 0             | 0           | 0             | 0.0  |
| Shigellosis and amoebiasis<br>(Dysentery, All Forms).....            | 4             | 6           | 10            | 0.2  | 8             | 6           | 14            | 0.3  |
| Other food poisoning<br>(Bacterial).....                             | 3             | 1           | 4             | 0.08 | 4             | 1           | 5             | 0.1  |
| Other intestinal infectious<br>diseases.....                         | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Diarrheas.....   | 47            | 28          | 75            | 1.4  | 43            | 21          | 64            | 1.4  |
| Tuberculosis of the<br>respiratory system.....                       | 521           | 330         | 851           | 16.4 | 701           | 380         | 1081          | 24.1 |
| Tuberculosis of meninges & CNS.                                      | 18            | 10          | 28            | 0.5  | 0             | 0           | 0             | 0.0  |
| Other tuberculosis, including<br>late effects.....                   | 3             | 3           | 6             | 0.1  | 9             | 5           | 14            | 0.3  |
| Plague.....  | 1             | 0           | 1             | 0.02 | 0             | 0           | 0             | 0.0  |
| Leprosy.....   | 3             | 0           | 3             | 0.06 | 1             | 0           | 1             | 0.02 |
| Diphtheria.....  | 0             | 0           | 0             | 0.0  | 1             | 1           | 2             | 0.04 |
| Whooping cough.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Streptococcal sore throat.....                                       | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Meningococcal infection.....   | 4             | 1           | 5             | 0.1  | 2             | 1           | 3             | 0.07 |
| Tetanus.....   | 41            | 11          | 52            | 1.0  | 41            | 16          | 57            | 1.3  |
| Septicemia.....  | 100           | 139         | 239           | 4.6  | 105           | 118         | 223           | 5.0  |
| All other diseases caused<br>by bacteria.....                        | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Acute poliomyelitis including<br>late effects.....                   | 0             | 2           | 2             | 0.04 | 0             | 1           | 1             | 0.02 |
| Smallpox.....  | 1             | 0           | 1             | 0.02 | 0             | 0           | 0             | 0.0  |
| Chickenpox.....  | 0             | 2           | 2             | 0.04 | 0             | 0           | 0             | 0.0  |
| Measles.....   | 3             | 3           | 6             | 0.1  | 0             | 2           | 2             | 0.04 |
| Yellow Fever.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Dengue-hemorrhagic fever.....  | 2             | 3           | 5             | 0.1  | 1             | 1           | 2             | 0.04 |
| Arthropod-borne viral<br>encephalitis including late<br>effects..... | 1             | 1           | 2             | 0.04 | 1             | 0           | 1             | 0.02 |
| Viral hepatitis.....   | 39            | 16          | 55            | 1.1  | 59            | 29          | 88            | 2.0  |
| Rabies.....  | 17            | 7           | 24            | 0.5  | 17            | 5           | 22            | 0.5  |
| Other viral diseases.....  | 4             | 4           | 8             | 0.2  | 1             | 2           | 3             | 0.07 |
| Malaria.....   | 54            | 37          | 91            | 1.8  | 51            | 22          | 73            | 1.6  |
| Other arthropod-borne diseases.                                      | 0             | 0           | 0             | 0.0  | 0             | 1           | 1             | 0.02 |
| Syphilis.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Gonococcal Infections.....   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| C A U S E  | 35 - 39 YEARS |             |               |      | 40 - 44 YEARS |             |               |      |
|--|---------------|-------------|---------------|------|---------------|-------------|---------------|------|
|  | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Typhoid & Paratyphoid fevers...                                      | 46            | 32          | 78            | 2.1  | 33            | 18          | 51            | 1.8  |
| Other salmonella infections....                                      | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Shigellosis and amoebiasis<br>(Dysentery, All Forms).....            | 8             | 5           | 13            | 0.3  | 3             | 3           | 6             | 0.2  |
| Other food poisoning<br>(Bacterial).....                             | 8             | 5           | 13            | 0.3  | 9             | 5           | 14            | 0.5  |
| Other intestinal infectious<br>diseases.....                         | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Diarrheas.....   | 49            | 27          | 76            | 2.0  | 34            | 26          | 60            | 2.1  |
| Tuberculosis of the<br>respiratory system.....                       | 751           | 459         | 1210          | 32.4 | 969           | 456         | 1425          | 48.9 |
| Tuberculosis of meninges & CNS.                                      | 16            | 7           | 23            | 0.6  | 8             | 3           | 11            | 0.4  |
| Other tuberculosis, including<br>late effects.....                   | 4             | 3           | 7             | 0.2  | 4             | 2           | 6             | 0.2  |
| Plague.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Leprosy.....   | 5             | 0           | 5             | 0.1  | 4             | 3           | 7             | 0.2  |
| Diphtheria.....  | 1             | 0           | 1             | 0.03 | 0             | 0           | 0             | 0.0  |
| Whooping cough.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Streptococcal sore throat.....                                       | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Meningococcal infection.....   | 2             | 1           | 3             | 0.08 | 1             | 3           | 4             | 0.1  |
| Tetanus.....   | 31            | 10          | 41            | 1.1  | 25            | 12          | 37            | 1.3  |
| Septicemia.....  | 107           | 96          | 203           | 5.4  | 102           | 78          | 180           | 6.2  |
| All other diseases caused<br>by bacteria.....                        | 0             | 1           | 1             | 0.03 | 1             | 1           | 2             | 0.07 |
| Acute poliomyelitis including<br>late effects.....                   | 0             | 0           | 0             | 0.0  | 1             | 0           | 1             | 0.03 |
| Smallpox.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Chickenpox.....  | 0             | 0           | 0             | 0.0  | 0             | 1           | 1             | 0.03 |
| Measles.....   | 2             | 2           | 4             | 0.1  | 1             | 1           | 2             | 0.07 |
| Yellow Fever.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Dengue-hemorrhagic fever.....  | 1             | 3           | 4             | 0.1  | 1             | 1           | 2             | 0.07 |
| Arthropod-borne viral<br>encephalitis including late<br>effects..... | 2             | 0           | 2             | 0.05 | 1             | 0           | 1             | 0.03 |
| Viral hepatitis.....   | 55            | 30          | 85            | 2.3  | 49            | 18          | 67            | 2.3  |
| Rabies.....  | 14            | 9           | 23            | 0.6  | 20            | 8           | 28            | 1.0  |
| Other viral diseases.....  | 1             | 2           | 3             | 0.08 | 3             | 1           | 4             | 0.1  |
| Malaria.....   | 41            | 28          | 69            | 1.8  | 45            | 20          | 65            | 2.2  |
| Other arthropod-borne diseases.                                      | 0             | 0           | 0             | 0.0  | 0             | 1           | 1             | 0.03 |
| Syphilis.....  | 1             | 0           | 1             | 0.03 | 0             | 0           | 0             | 0.0  |
| Gonococcal Infections.....   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| C A U S E  | 45 - 49 YEARS |             |               |      | 50 - 54 YEARS |             |               |       |
|--|---------------|-------------|---------------|------|---------------|-------------|---------------|-------|
|  | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE  |
| Typhoid & Paratyphoid fevers....                                     | 23            | 22          | 45            | 1.9  | 27            | 16          | 43            | 2.2   |
| Other salmonella infections....                                      | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0   |
| Shigellosis and amoebiasis<br>(Dysentery, All Forms).....            | 10            | 3           | 13            | 0.6  | 3             | 2           | 5             | 0.3   |
| Other food poisoning<br>(Bacterial).....                             | 6             | 0           | 6             | 0.3  | 5             | 2           | 7             | 0.4   |
| Other intestinal infectious<br>diseases.....                         | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0   |
| Diarrheas.....   | 50            | 29          | 79            | 3.4  | 50            | 15          | 65            | 3.4   |
| Tuberculosis of the<br>respiratory system.....                       | 1207          | 524         | 1731          | 74.7 | 1552          | 657         | 2209          | 114.8 |
| Tuberculosis of meninges & CNS.                                      | 6             | 3           | 9             | 0.4  | 8             | 2           | 10            | 0.5   |
| Other tuberculosis, including<br>late effects.....                   | 5             | 2           | 7             | 0.3  | 9             | 9           | 18            | 0.9   |
| Plague.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0   |
| Leprosy.....   | 5             | 0           | 5             | 0.2  | 6             | 1           | 7             | 0.4   |
| Diphtheria.....  | 0             | 0           | 0             | 0.0  | 1             | 0           | 1             | 0.05  |
| Whooping cough.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0   |
| Streptococcal sore throat.....                                       | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0   |
| Meningococcal infection.....   | 3             | 1           | 4             | 0.2  | 1             | 1           | 2             | 0.1   |
| Tetanus.....   | 37            | 11          | 48            | 2.1  | 31            | 12          | 43            | 2.2   |
| Septicemia.....  | 104           | 63          | 167           | 7.2  | 128           | 65          | 193           | 10.0  |
| All other diseases caused<br>by bacteria.....                        | 2             | 2           | 4             | 0.2  | 1             | 0           | 1             | 0.05  |
| Acute poliomyelitis including<br>late effects.....                   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0   |
| Smallpox.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0   |
| Chickenpox.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0   |
| Measles.....   | 1             | 1           | 2             | 0.09 | 1             | 2           | 3             | 0.2   |
| Yellow Fever.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0   |
| Dengue-hemorrhagic fever.....  | 0             | 0           | 0             | 0.0  | 1             | 0           | 1             | 0.05  |
| Arthropod-borne viral<br>encephalitis including late<br>effects..... | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0   |
| Viral hepatitis.....   | 46            | 15          | 61            | 2.6  | 50            | 23          | 73            | 3.8   |
| Rabies.....  | 17            | 10          | 27            | 1.2  | 15            | 12          | 27            | 1.4   |
| Other viral diseases.....  | 2             | 1           | 3             | 0.1  | 5             | 1           | 6             | 0.3   |
| Malaria.....   | 38            | 14          | 52            | 2.2  | 34            | 18          | 52            | 2.7   |
| Other arthropod-borne diseases.                                      | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0   |
| Syphilis.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0   |
| Gonococcal Infections.....   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0   |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| C A U S E  | 55 - 59 YEARS |             |               |       | 60 - 64 YEARS |             |               |       |
|--|---------------|-------------|---------------|-------|---------------|-------------|---------------|-------|
|  | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE  | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE  |
| Typhoid & Paratyphoid fevers...                                      | 29            | 14          | 43            | 2.8   | 24            | 17          | 41            | 3.4   |
| Other salmonella infections....                                      | 0             | 0           | 0             | 0.0   | 0             | 0           | 0             | 0.0   |
| Shigellosis and amoebiasis<br>(Dysentery, All Forms).....            | 8             | 4           | 12            | 0.8   | 6             | 6           | 12            | 1.0   |
| Other food poisoning<br>(Bacterial).....                             | 3             | 0           | 3             | 0.2   | 4             | 3           | 7             | 0.6   |
| Other intestinal infectious<br>diseases.....                         | 0             | 1           | 1             | 0.07  | 0             | 0           | 0             | 0.0   |
| Diarrheas.....   | 49            | 38          | 87            | 5.7   | 46            | 40          | 86            | 7.2   |
| Tuberculosis of the<br>respiratory system.....                       | 1600          | 737         | 2337          | 153.0 | 1787          | 834         | 2621          | 218.9 |
| Tuberculosis of meninges & CNS.                                      | 6             | 2           | 8             | 0.5   | 6             | 4           | 10            | 0.8   |
| Other tuberculosis, including<br>late effects.....                   | 9             | 8           | 17            | 1.1   | 14            | 8           | 22            | 1.8   |
| Plague.....  | 0             | 0           | 0             | 0.0   | 0             | 0           | 0             | 0.0   |
| Leprosy.....   | 2             | 1           | 3             | 0.2   | 4             | 3           | 7             | 0.6   |
| Diphtheria.....  | 0             | 1           | 1             | 0.07  | 0             | 1           | 1             | 0.08  |
| Whooping cough.....  | 0             | 0           | 0             | 0.0   | 0             | 0           | 0             | 0.0   |
| Streptococcal sore throat.....                                       | 0             | 0           | 0             | 0.0   | 0             | 0           | 0             | 0.0   |
| Meningococcal infection.....   | 0             | 0           | 0             | 0.0   | 0             | 0           | 0             | 0.0   |
| Tetanus.....   | 30            | 7           | 37            | 2.4   | 18            | 11          | 29            | 2.4   |
| Septicemia.....  | 106           | 81          | 187           | 12.2  | 128           | 115         | 243           | 20.3  |
| All other diseases caused<br>by bacteria.....                        | 0             | 0           | 0             | 0.0   | 3             | 2           | 5             | 0.4   |
| Acute poliomyelitis including<br>late effects.....                   | 0             | 0           | 0             | 0.0   | 0             | 1           | 1             | 0.08  |
| Smallpox.....  | 0             | 0           | 0             | 0.0   | 0             | 0           | 0             | 0.0   |
| Chickenpox.....  | 0             | 0           | 0             | 0.0   | 0             | 0           | 0             | 0.0   |
| Measles.....   | 1             | 0           | 1             | 0.07  | 0             | 3           | 3             | 0.3   |
| Yellow Fever.....  | 0             | 0           | 0             | 0.0   | 0             | 0           | 0             | 0.0   |
| Dengue-hemorrhagic fever.....  | 1             | 1           | 2             | 0.1   | 0             | 1           | 1             | 0.08  |
| Arthropod-borne viral<br>encephalitis including late<br>effects..... | 0             | 0           | 0             | 0.0   | 0             | 1           | 1             | 0.08  |
| Viral hepatitis.....   | 42            | 17          | 59            | 3.9   | 44            | 10          | 54            | 4.5   |
| Rabies.....  | 10            | 9           | 19            | 1.2   | 18            | 5           | 23            | 1.9   |
| Other viral diseases.....  | 2             | 2           | 4             | 0.3   | 3             | 0           | 3             | 0.3   |
| Malaria.....   | 29            | 11          | 40            | 2.6   | 22            | 21          | 43            | 3.6   |
| Other arthropod-borne diseases.                                      | 0             | 0           | 0             | 0.0   | 1             | 0           | 1             | 0.08  |
| Syphilis.....  | 0             | 0           | 0             | 0.0   | 0             | 0           | 0             | 0.0   |
| Gonococcal Infections.....   | 0             | 0           | 0             | 0.0   | 0             | 0           | 0             | 0.0   |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

153

| C A U S E  | 65 - 69 YEARS |             |               |       | 70 YEARS & OVER |             |               |       |
|--|---------------|-------------|---------------|-------|-----------------|-------------|---------------|-------|
|  | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE  | MALE            | FE-<br>MALE | BOTH<br>SEXES | RATE  |
| Typhoid & Paratyphoid fevers...                                      | 11            | 19          | 30            | 3.4   | 26              | 24          | 50            | 3.6   |
| Other salmonella infections....                                      | 0             | 0           | 0             | 0.0   | 0               | 2           | 2             | 0.1   |
| Shigellosis and amoebiasis<br>(Dysentery, All Forms).....            | 7             | 6           | 13            | 1.5   | 27              | 37          | 64            | 4.6   |
| Other food poisoning<br>(Bacterial).....                             | 3             | 0           | 3             | 0.3   | 6               | 2           | 8             | 0.6   |
| Other intestinal infectious<br>diseases.....                         | 0             | 0           | 0             | 0.0   | 1               | 1           | 2             | 0.1   |
| Diarrheas.....   | 49            | 39          | 88            | 9.8   | 290             | 237         | 527           | 37.7  |
| Tuberculosis of the<br>respiratory system.....                       | 1660          | 917         | 2577          | 288.1 | 3909            | 2733        | 6642          | 474.8 |
| Tuberculosis of meninges & CNS.                                      | 1             | 1           | 2             | 0.2   | 10              | 2           | 12            | 0.9   |
| Other tuberculosis, including<br>late effects.....                   | 7             | 2           | 9             | 1.0   | 20              | 12          | 32            | 2.3   |
| Plague.....  | 0             | 0           | 0             | 0.0   | 0               | 0           | 0             | 0.0   |
| Leprosy.....   | 3             | 1           | 4             | 0.4   | 9               | 9           | 18            | 1.3   |
| Diphtheria.....  | 0             | 0           | 0             | 0.0   | 0               | 0           | 0             | 0.0   |
| Whooping cough.....  | 0             | 0           | 0             | 0.0   | 0               | 0           | 0             | 0.0   |
| Streptococcal sore throat.....                                       | 0             | 0           | 0             | 0.0   | 1               | 0           | 1             | 0.07  |
| Meningococcal infection.....   | 0             | 1           | 1             | 0.1   | 1               | 3           | 4             | 0.3   |
| Tetanus.....   | 14            | 9           | 23            | 2.6   | 0               | 0           | 0             | 0.0   |
| Septicemia.....  | 129           | 104         | 233           | 26.0  | 491             | 483         | 974           | 69.6  |
| All other diseases caused<br>by bacteria.....                        | 1             | 0           | 1             | 0.1   | 6               | 6           | 12            | 0.9   |
| Acute poliomyelitis including<br>late effects.....                   | 0             | 0           | 0             | 0.0   | 0               | 0           | 0             | 0.0   |
| Smallpox.....  | 0             | 0           | 0             | 0.0   | 0               | 0           | 0             | 0.0   |
| Chickenpox.....  | 0             | 0           | 0             | 0.0   | 0               | 0           | 0             | 0.0   |
| Measles.....   | 1             | 0           | 1             | 0.1   | 6               | 7           | 13            | 0.9   |
| Yellow Fever.....  | 0             | 0           | 0             | 0.0   | 0               | 0           | 0             | 0.0   |
| Dengue-hemorrhagic fever.....  | 3             | 1           | 4             | 0.4   | 5               | 0           | 5             | 0.4   |
| Arthropod-borne viral<br>encephalitis including late<br>effects..... | 0             | 2           | 2             | 0.2   | 0               | 0           | 0             | 0.0   |
| Viral hepatitis.....   | 35            | 16          | 51            | 5.7   | 38              | 49          | 87            | 6.2   |
| Rabies.....  | 11            | 7           | 18            | 2.0   | 20              | 15          | 35            | 2.5   |
| Other viral diseases.....  | 3             | 0           | 3             | 0.3   | 8               | 7           | 15            | 1.1   |
| Malaria.....   | 16            | 8           | 24            | 2.7   | 33              | 18          | 51            | 3.6   |
| Other arthropod-borne diseases.                                      | 1             | 1           | 2             | 0.2   | 1               | 3           | 4             | 0.3   |
| Syphilis.....  | 0             | 0           | 0             | 0.0   | 0               | 0           | 0             | 0.0   |
| Gonococcal Infections.....   | 0             | 0           | 0             | 0.0   | 0               | 0           | 0             | 0.0   |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE & SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| C A U S E   | NOT STATED |        |               |      |
|---|------------|--------|---------------|------|
|   | MALE       | FEMALE | BOTH<br>SEXES | RATE |
| Typhoid & Paratyphoid fevers.....                                 | 0          | 0      | 0             | 0.0  |
| Other salmonella infections.....                                  | 0          | 0      | 0             | 0.0  |
| Shigellosis and amoebiasis<br>(Dysentery, All Forms).....         | 0          | 0      | 0             | 0.0  |
| Other food poisoning<br>(Bacterial).....                          | 0          | 0      | 0             | 0.0  |
| Other intestinal infectious diseases.....                         | 0          | 0      | 0             | 0.0  |
| Diarrheas.....  | 0          | 0      | 0             | 0.0  |
| Tuberculosis of the respiratory<br>system.....                    | 0          | 0      | 0             | 0.0  |
| Tuberculosis of meninges & CNS.....                               | 0          | 0      | 0             | 0.0  |
| Other tuberculosis, including<br>late effects.....                | 0          | 0      | 0             | 0.0  |
| Plague.....   | 0          | 0      | 0             | 0.0  |
| Leprosy.....  | 0          | 0      | 0             | 0.0  |
| Diphtheria.....   | 0          | 0      | 0             | 0.0  |
| Whooping cough.....   | 0          | 0      | 0             | 0.0  |
| Streptococcal sore throat.....                                    | 0          | 0      | 0             | 0.0  |
| Meningococcal infection.....                                      | 0          | 0      | 0             | 0.0  |
| Tetanus.....  | 0          | 0      | 0             | 0.0  |
| Septicemia.....   | 0          | 0      | 0             | 0.0  |
| All other diseases caused by bacteria.....                        | 0          | 0      | 0             | 0.0  |
| Acute poliomyelitis including<br>late effects.....                | 0          | 0      | 0             | 0.0  |
| Smallpox.....   | 0          | 0      | 0             | 0.0  |
| Chickenpox.....   | 0          | 0      | 0             | 0.0  |
| Measles.....  | 0          | 0      | 0             | 0.0  |
| Yellow Fever.....   | 0          | 0      | 0             | 0.0  |
| Dengue-hemorrhagic fever.....                                     | 0          | 0      | 0             | 0.0  |
| Arthropod-borne viral encephalitis<br>including late effects..... | 0          | 0      | 0             | 0.0  |
| Viral hepatitis.....  | 0          | 0      | 0             | 0.0  |
| Rabies.....   | 0          | 0      | 0             | 0.0  |
| Other viral diseases.....   | 0          | 0      | 0             | 0.0  |
| Malaria.....  | 0          | 0      | 0             | 0.0  |
| Other arthropod-borne<br>diseases.....                            | 0          | 0      | 0             | 0.0  |
| Syphilis.....   | 0          | 0      | 0             | 0.0  |
| Gonococcal Infections.....  | 0          | 0      | 0             | 0.0  |

TABLE 23 MORTALITY: 150 CAUSE-GROUPS BY AGE & SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| C A U S E  | ALL AGES |        |            |       |
|--|----------|--------|------------|-------|
|  | MALE     | FEMALE | BOTH SEXES | RATE  |
| Schistosomiasis.....(120)  | 184      | 88     | 272        | 0.4   |
| Filariasis.....(125)   | 1        | 0      | 1          | 0.002 |
| Other helminthiasis.....(121-124;126-129)  | 100      | 64     | 164        | 0.3   |
| Other infectious and parasitic diseases...(089;100-104;110-118;130-136)  | 109      | 64     | 173        | 0.3   |
| Malignant neoplasms of:  |          |        |            |       |
| lip, oral cavity and pharynx...(140-149)   | 682      | 523    | 1205       | 1.9   |
| esophagus.....(150)  | 189      | 115    | 314        | 0.5   |
| stomach.....(151)  | 822      | 573    | 1395       | 2.2   |
| small intestine including duodenum.(152)   | 26       | 27     | 53         | 0.09  |
| colon.....(153)  | 164      | 156    | 320        | 0.5   |
| rectum, rectosigmoid junction and anus.....(154)   | 267      | 198    | 465        | 0.7   |
| larynx.....(161)   | 119      | 48     | 167        | 0.3   |
| trachea, bronchus, lung and pleura.....(162;163)   | 2533     | 963    | 3496       | 5.6   |
| bone and articular cartilage.....(170)   | 563      | 390    | 953        | 1.5   |
| skin.....(172;173)   | 45       | 52     | 97         | 0.2   |
| female breast.....(174)  | 0        | 1631   | 1631       | 2.6   |
| cervix uteri.....(180)   | 0        | 384    | 384        | 0.6   |
| uterus.....(179;181-182)   | 0        | 909    | 909        | 1.5   |
| other female genital organs....(183-184)   | 0        | 360    | 360        | 0.6   |
| prostate.....(185)   | 324      | 0      | 324        | 0.5   |
| other and unspecified sites.....(155-160;164;165;171;175;186-199)  | 5166     | 2982   | 8148       | 13.1  |
| lymphatic tissue.....(200-203)   | 214      | 156    | 370        | 0.6   |
| Leukemia.....(204-208)   | 716      | 778    | 1494       | 2.4   |
| Benign neoplasms carcinoma in situ, neoplasms of uncertain behavior and of unspecified nature.....(210-239)      | 43       | 51     | 94         | 0.2   |
| Diabetes mellitus.....(250)  | 1669     | 1890   | 3559       | 5.7   |
| Kwashiorkor.....(260)  | 80       | 87     | 177        | 0.3   |
| Nutritional marasmus.....(261)   | 89       | 62     | 151        | 0.2   |
| Other protein calorie malnutrition.....(262)   | 338      | 339    | 677        | 1.1   |
| Other nutritional deficiencies...(263-269)   | 1595     | 1494   | 3089       | 5.0   |
| Goiter, thyrotoxicosis, hypothyroidism and other endocrine and metabolic disorders.....(240-246;251-259;270-279) | 2183     | 1659   | 3836       | 6.2   |
| Anemias.....(280-285)  | 1207     | 1199   | 2406       | 3.9   |
| Other diseases of blood-forming organs.....(286-289)   | 226      | 191    | 417        | 0.7   |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE & SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| C A U S E  | UNDER 1 YEAR |             |               |      | 1 - 4 YEARS |             |               |      |
|--|--------------|-------------|---------------|------|-------------|-------------|---------------|------|
|  | MALE         | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE        | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Schistosomiasis.....   | 2            | 2           | 4             | 0.2  | 10          | 7           | 17            | 0.3  |
| Filariasis.....  | 0            | 0           | 0             | 0.0  | 0           | 0           | 0             | 0.0  |
| Other helminthiasis.....   | 5            | 5           | 10            | 0.6  | 48          | 38          | 86            | 1.3  |
| Other infectious and parasitic diseases.....   | 19           | 8           | 27            | 1.5  | 15          | 17          | 32            | 0.5  |
| Malignant neoplasms of:  |              |             |               |      |             |             |               |      |
| lip, oral cavity and pharynx....   | 0            | 0           | 0             | 0.0  | 2           | 0           | 2             | 0.03 |
| esophagus.....   | 0            | 0           | 0             | 0.0  | 1           | 1           | 2             | 0.03 |
| stomach.....   | 2            | 2           | 4             | 0.2  | 2           | 2           | 4             | 0.06 |
| small intestine including duodenum.....  | 0            | 1           | 1             | 0.06 | 0           | 0           | 0             | 0.0  |
| colon.....   | 0            | 0           | 0             | 0.0  | 2           | 0           | 2             | 0.03 |
| rectum, rectosigmoid junction and anus.....  | 3            | 0           | 3             | 0.2  | 0           | 0           | 0             | 0.0  |
| larynx.....  | 0            | 0           | 0             | 0.0  | 0           | 0           | 0             | 0.0  |
| trachea, bronchus, lung & pleura   | 3            | 2           | 5             | 0.3  | 2           | 2           | 4             | 0.06 |
| bone and articular cartilage....   | 1            | 2           | 3             | 0.2  | 4           | 4           | 8             | 0.1  |
| skin.....  | 1            | 2           | 3             | 0.2  | 0           | 0           | 0             | 0.0  |
| female breast.....   | 0            | 0           | 0             | 0.0  | 0           | 0           | 0             | 0.0  |
| cervix uteri.....  | 0            | 0           | 0             | 0.0  | 0           | 0           | 0             | 0.0  |
| uterus.....  | 0            | 0           | 0             | 0.0  | 0           | 0           | 0             | 0.0  |
| other female genital organs.....   | 0            | 0           | 0             | 0.0  | 0           | 0           | 0             | 0.0  |
| prostate.....  | 0            | 0           | 0             | 0.0  | 0           | 0           | 0             | 0.0  |
| other and unspecified sites.....   | 21           | 20          | 41            | 2.3  | 43          | 31          | 74            | 1.1  |
| lymphatic tissue.....  | 3            | 4           | 7             | 0.4  | 7           | 4           | 11            | 0.2  |
| Leukemia.....  | 17           | 15          | 32            | 1.8  | 79          | 58          | 137           | 2.0  |
| Benign neoplasms carcinoma in situ, neoplasms of uncertain behavior & of unspecified nature..... | 2            | 2           | 4             | 0.2  | 1           | 2           | 3             | 0.04 |
| Diabetes mellitus.....   | 6            | 5           | 11            | 0.6  | 4           | 2           | 6             | 0.09 |
| Kwashiorkor.....   | 29           | 29          | 58            | 3.2  | 38          | 38          | 76            | 1.1  |
| Nutritional marasmus.....  | 27           | 15          | 42            | 2.3  | 36          | 23          | 59            | 0.9  |
| Other protein calorie malnutrition   | 79           | 73          | 152           | 8.4  | 155         | 137         | 292           | 4.4  |
| Other nutritional deficiencies....   | 516          | 433         | 949           | 52.2 | 419         | 384         | 803           | 12.0 |
| Goiter, thyrotoxicosis, hypothyroidism & other endocrine & metabolic disorders.....              | 634          | 426         | 1060          | 58.3 | 616         | 439         | 1055          | 15.8 |
| Anemias.....   | 73           | 56          | 129           | 7.1  | 68          | 51          | 119           | 1.8  |
| Other diseases of blood-forming organs.....  | 67           | 40          | 107           | 5.9  | 23          | 14          | 37            | 0.6  |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE & SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| C A U S E  | 5 - 9 YEARS |             |               |      | 10 - 14 YEARS |             |               |      |
|--|-------------|-------------|---------------|------|---------------|-------------|---------------|------|
|  | MALE        | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Schistosomiasis.....   | 7           | 4           | 11            | 0.1  | 7             | 4           | 11            | 0.1  |
| Filariasis.....  | 0           | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Other helminthiasis.....   | 22          | 15          | 37            | 0.5  | 7             | 2           | 9             | 0.1  |
| Other infectious and parasitic diseases.....   | 10          | 7           | 17            | 0.2  | 2             | 1           | 3             | 0.04 |
| Malignant neoplasms of:  |             |             |               |      |               |             |               |      |
| lip, oral cavity and pharynx....   | 2           | 2           | 4             | 0.05 | 2             | 1           | 3             | 0.04 |
| esophagus.....   | 0           | 0           | 0             | 0.0  | 1             | 0           | 1             | 0.01 |
| stomach.....   | 3           | 2           | 5             | 0.06 | 1             | 3           | 4             | 0.05 |
| small intestine including duodenum.....  | 0           | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| colon.....   | 1           | 0           | 1             | 0.01 | 1             | 0           | 1             | 0.01 |
| rectum, rectosigmoid junction and anus.....  | 0           | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| larynx.....  | 0           | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| trachea, bronchus, lung & pleura   | 4           | 1           | 5             | 0.06 | 3             | 2           | 5             | 0.07 |
| bone and articular cartilage....   | 7           | 6           | 13            | 0.2  | 15            | 7           | 22            | 0.3  |
| skin.....  | 0           | 1           | 1             | 0.01 | 1             | 1           | 2             | 0.03 |
| female breast.....   | 0           | 0           | 0             | 0.0  | 0             | 1           | 1             | 0.01 |
| cervix uteri.....  | 0           | 0           | 0             | 0.0  | 0             | 1           | 1             | 0.01 |
| uterus.....  | 0           | 0           | 0             | 0.0  | 0             | 2           | 2             | 0.03 |
| other female genital organs.....   | 0           | 0           | 0             | 0.0  | 0             | 3           | 3             | 0.04 |
| prostate.....  | 0           | 0           | 0             | 0.0  | 4             | 0           | 4             | 0.05 |
| other and unspecified sites.....   | 34          | 36          | 70            | 0.9  | 71            | 41          | 112           | 1.5  |
| lymphatic tissue.....  | 3           | 3           | 6             | 0.07 | 4             | 4           | 8             | 0.1  |
| Leukemia.....  | 90          | 70          | 160           | 2.0  | 60            | 73          | 133           | 1.8  |
| Benign neoplasms carcinoma in situ, neoplasms of uncertain behavior & of unspecified nature..... | 1           | 3           | 4             | 0.05 | 1             | 0           | 1             | 0.01 |
| Diabetes mellitus.....   | 2           | 4           | 6             | 0.07 | 3             | 3           | 6             | 0.08 |
| Kwashiorkor.....   | 11          | 7           | 18            | 0.2  | 3             | 0           | 3             | 0.04 |
| Nutritional marasmus.....  | 5           | 4           | 9             | 0.1  | 4             | 2           | 6             | 0.08 |
| Other protein calorie malnutrition   | 29          | 29          | 58            | 0.7  | 5             | 6           | 11            | 0.1  |
| Other nutritional deficiencies....   | 80          | 86          | 166           | 2.1  | 29            | 29          | 58            | 0.8  |
| Goiter, thyrotoxicosis, hypothyroidism & other endocrine & metabolic disorders.....              | 133         | 111         | 249           | 3.1  | 49            | 32          | 81            | 1.1  |
| Anemias.....   | 59          | 41          | 100           | 1.2  | 53            | 29          | 82            | 1.1  |
| Other diseases of blood-forming organs.....  | 20          | 12          | 32            | 0.4  | 10            | 15          | 25            | 0.3  |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE & SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| C A U S E  | 15 - 19 YEARS |             |               |      | 20 - 24 YEARS |             |               |      |
|--|---------------|-------------|---------------|------|---------------|-------------|---------------|------|
|  | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Schistosomiasis.....   | 10            | 3           | 13            | 0.2  | 9             | 1           | 10            | 0.2  |
| Filariasis.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Other helminthiasis.....   | 3             | 2           | 5             | 0.08 | 1             | 0           | 1             | 0.02 |
| Other infectious and parasitic diseases.....   | 2             | 1           | 3             | 0.05 | 6             | 5           | 11            | 0.2  |
| Malignant neoplasms of:  |               |             |               |      |               |             |               |      |
| lip, oral cavity and pharynx....   | 4             | 5           | 9             | 0.1  | 4             | 6           | 10            | 0.2  |
| esophagus.....   | 1             | 3           | 4             | 0.06 | 0             | 0           | 0             | 0.0  |
| stomach.....   | 1             | 2           | 3             | 0.05 | 6             | 7           | 13            | 0.2  |
| small intestine including duodenum.....  | 1             | 0           | 1             | 0.02 | 0             | 0           | 0             | 0.0  |
| colon.....   | 1             | 0           | 1             | 0.02 | 3             | 1           | 4             | 0.07 |
| rectum, rectosigmoid junction and anus.....  | 1             | 1           | 2             | 0.03 | 3             | 0           | 3             | 0.05 |
| larynx.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| trachea, bronchus, lung & pleura   | 15            | 8           | 23            | 0.4  | 18            | 12          | 30            | 0.5  |
| bone and articular cartilage....   | 33            | 17          | 50            | 0.8  | 15            | 14          | 29            | 0.5  |
| skin.....  | 1             | 2           | 3             | 0.05 | 3             | 0           | 3             | 0.05 |
| female breast.....   | 0             | 5           | 5             | 0.08 | 0             | 12          | 12            | 0.2  |
| cervix uteri.....  | 0             | 0           | 0             | 0.0  | 0             | 3           | 3             | 0.05 |
| uterus.....  | 0             | 5           | 5             | 0.08 | 0             | 20          | 20            | 0.3  |
| other female genital organs.....   | 0             | 9           | 9             | 0.1  | 0             | 11          | 11            | 0.2  |
| prostate.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| other and unspecified sites.....   | 72            | 50          | 122           | 1.9  | 94            | 75          | 169           | 2.9  |
| lymphatic tissue.....  | 8             | 4           | 12            | 0.2  | 13            | 5           | 18            | 0.3  |
| Leukemia.....  | 64            | 81          | 145           | 2.2  | 54            | 76          | 130           | 2.2  |
| Benign neoplasms carcinoma in situ, neoplasms of uncertain behavior & of unspecified nature..... | 3             | 2           | 5             | 0.08 | 1             | 1           | 2             | 0.03 |
| Diabetes mellitus.....   | 8             | 11          | 19            | 0.3  | 9             | 10          | 19            | 0.3  |
| Kwashiorkor.....   | 0             | 1           | 1             | 0.02 | 0             | 0           | 0             | 0.0  |
| Nutritional marasmus.....  | 0             | 1           | 1             | 0.02 | 1             | 0           | 1             | 0.02 |
| Other protein calorie malnutrition   | 3             | 9           | 12            | 0.2  | 2             | 2           | 4             | 0.07 |
| Other nutritional deficiencies....   | 11            | 10          | 21            | 0.3  | 18            | 16          | 34            | 0.6  |
| Goiter, thyrotoxicosis, hypothyroidism & other endocrine & metabolic disorders.....              | 36            | 28          | 64            | 1.0  | 41            | 32          | 73            | 1.2  |
| Anemias.....   | 39            | 53          | 92            | 1.4  | 51            | 59          | 110           | 1.9  |
| Other diseases of blood-forming organs.....  | 8             | 11          | 19            | 0.3  | 16            | 14          | 30            | 0.5  |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE & SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1980

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| C A U S E                                    | 25 - 29 YEARS |             |               |      | 30 - 34 YEARS |             |               |      |
|--|---------------|-------------|---------------|------|---------------|-------------|---------------|------|
|  | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Schistosomiasis.....                         | 12            | 10          | 22            | 0.4  | 12            | 5           | 17            | 0.4  |
| Filariasis.....                              | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Other helminthiasis.....                     | 0             | 1           | 1             | 0.02 | 0             | 0           | 0             | 0.0  |
| Other infectious and parasitic diseases..... | 10            | 1           | 11            | 0.2  | 3             | 1           | 4             | 0.09 |
| Malignant neoplasms of:                      |               |             |               |      |               |             |               |      |
| lip, oral cavity and pharynx....             | 9             | 5           | 14            | 0.3  | 20            | 18          | 38            | 0.8  |
| esophagus.....                               | 1             | 1           | 2             | 0.04 | 1             | 3           | 4             | 0.09 |
| stomach.....                                 | 16            | 10          | 26            | 0.5  | 27            | 17          | 44            | 1.0  |
| small intestine including                    |               |             |               |      |               |             |               |      |
| duodenum.....                                | 2             | 0           | 2             | 0.04 | 2             | 4           | 6             | 0.1  |
| colon.....                                   | 1             | 1           | 2             | 0.04 | 7             | 4           | 11            | 0.2  |
| rectum, rectosigmoid junction                |               |             |               |      |               |             |               |      |
| and anus.....                                | 10            | 7           | 17            | 0.3  | 10            | 6           | 16            | 0.4  |
| larynx.....                                  | 1             | 0           | 1             | 0.02 | 2             | 2           | 4             | 0.09 |
| trachea, bronchus, lung & pleura             | 27            | 16          | 43            | 0.8  | 33            | 36          | 69            | 1.5  |
| bone and articular cartilage....             | 21            | 13          | 34            | 0.7  | 15            | 7           | 22            | 0.5  |
| skin.....                                    | 2             | 1           | 3             | 0.06 | 5             | 4           | 9             | 0.2  |
| female breast.....                           | 0             | 15          | 15            | 0.3  | 0             | 67          | 67            | 1.5  |
| cervix uteri.....                            | 0             | 9           | 9             | 0.2  | 0             | 19          | 19            | 0.4  |
| uterus.....                                  | 0             | 30          | 30            | 0.6  | 0             | 59          | 59            | 1.3  |
| other female genital organs.....             | 0             | 14          | 14            | 0.3  | 0             | 18          | 18            | 0.4  |
| prostate.....                                | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| other and unspecified sites.....             | 130           | 100         | 230           | 4.4  | 279           | 108         | 387           | 8.6  |
| lymphatic tissue.....                        | 6             | 5           | 11            | 0.2  | 15            | 9           | 24            | 0.5  |
| Leukemia.....                                | 43            | 42          | 85            | 1.6  | 42            | 37          | 79            | 1.8  |
| Benign neoplasms carcinoma in                |               |             |               |      |               |             |               |      |
| situ, neoplasms of uncertain                 |               |             |               |      |               |             |               |      |
| behavior & of unspecified                    |               |             |               |      |               |             |               |      |
| nature.....                                  | 1             | 0           | 1             | 0.02 | 3             | 2           | 5             | 0.1  |
| Diabetes mellitus.....                       | 20            | 18          | 38            | 0.7  | 35            | 15          | 50            | 1.1  |
| Kwashiorkor.....                             | 0             | 1           | 1             | 0.02 | 1             | 0           | 1             | 0.02 |
| Nutritional marasmus.....                    | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Other protein calorie malnutrition           | 4             | 6           | 10            | 0.2  | 3             | 4           | 7             | 0.2  |
| Other nutritional deficiencies....           | 16            | 9           | 25            | 0.5  | 11            | 13          | 24            | 0.5  |
| Goiter, thyrotoxicosis, hypo-                |               |             |               |      |               |             |               |      |
| thyroidism & other endocrine                 |               |             |               |      |               |             |               |      |
| & metabolic disorders.....                   | 29            | 27          | 56            | 1.1  | 32            | 18          | 50            | 1.1  |
| Anemias.....                                 | 43            | 58          | 101           | 2.0  | 30            | 64          | 94            | 2.1  |
| Other diseases of blood-forming              |               |             |               |      |               |             |               |      |
| organs.....                                  | 9             | 11          | 20            | 0.4  | 10            | 9           | 19            | 0.4  |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE & SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| C A U S E  | 35 - 39 YEARS |             |               |      | 40 - 44 YEARS |             |               |      |
|--|---------------|-------------|---------------|------|---------------|-------------|---------------|------|
|  | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Schistosomiasis.....   | 10            | 6           | 16            | 0.4  | 23            | 4           | 27            | 0.9  |
| Filariasis.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Other helminthiasis.....   | 4             | 0           | 4             | 0.1  | 0             | 1           | 1             | 0.03 |
| Other infectious and parasitic diseases.....   | 8             | 1           | 9             | 0.2  | 4             | 2           | 6             | 0.2  |
| Malignant neoplasms of:  |               |             |               |      |               |             |               |      |
| lip, oral cavity and pharynx....   | 19            | 17          | 36            | 1.0  | 51            | 17          | 68            | 2.3  |
| esophagus.....   | 4             | 1           | 5             | 0.1  | 18            | 4           | 22            | 0.8  |
| stomach.....   | 33            | 24          | 57            | 1.5  | 40            | 27          | 67            | 2.3  |
| small intestine including duodenum.....  | 1             | 2           | 3             | 0.08 | 0             | 1           | 1             | 0.03 |
| colon.....   | 8             | 2           | 10            | 0.3  | 9             | 4           | 13            | 0.4  |
| rectum, rectosigmoid junction and anus.....  | 14            | 5           | 19            | 0.5  | 22            | 10          | 32            | 1.1  |
| larynx.....  | 0             | 1           | 1             | 0.03 | 5             | 2           | 7             | 0.2  |
| trachea, bronchus, lung & pleura   | 62            | 44          | 106           | 2.8  | 116           | 40          | 156           | 5.4  |
| bone and articular cartilage....   | 18            | 32          | 50            | 1.3  | 24            | 28          | 52            | 1.8  |
| skin.....  | 3             | 2           | 5             | 0.1  | 1             | 1           | 2             | 0.07 |
| female breast.....   | 0             | 116         | 116           | 3.1  | 0             | 198         | 198           | 6.8  |
| cervix uteri.....  | 0             | 24          | 24            | 0.6  | 0             | 58          | 58            | 2.0  |
| uterus.....  | 0             | 72          | 72            | 1.9  | 0             | 93          | 93            | 3.2  |
| other female genital organs.....   | 0             | 22          | 22            | 0.6  | 0             | 25          | 25            | 0.9  |
| prostate.....  | 1             | 0           | 1             | 0.03 | 2             | 0           | 2             | 0.07 |
| other and unspecified sites.....   | 345           | 157         | 502           | 13.5 | 358           | 174         | 532           | 18.3 |
| lymphatic tissue.....  | 12            | 8           | 20            | 0.5  | 9             | 11          | 20            | 0.7  |
| Leukemia.....  | 30            | 58          | 88            | 2.4  | 22            | 31          | 53            | 1.8  |
| Benign neoplasms carcinoma in situ, neoplasms of uncertain behavior & of unspecified nature..... | 0             | 5           | 5             | 0.1  | 5             | 6           | 11            | 0.4  |
| Diabetes mellitus.....   | 36            | 21          | 57            | 1.5  | 45            | 44          | 89            | 3.1  |
| Kwashiorkor.....   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Nutritional marasmus.....  | 0             | 1           | 1             | 0.03 | 0             | 0           | 0             | 0.0  |
| Other protein calorie malnutrition   | 2             | 6           | 8             | 0.2  | 4             | 2           | 6             | 0.2  |
| Other nutritional deficiencies.....  | 15            | 18          | 33            | 0.9  | 7             | 13          | 20            | 0.7  |
| Goiter, thyrotoxicosis, hypothyroidism & other endocrine & metabolic disorders.....              | 34            | 33          | 67            | 1.8  | 29            | 34          | 63            | 2.2  |
| Anemias.....   | 44            | 72          | 116           | 3.1  | 43            | 53          | 96            | 3.3  |
| Other diseases of blood-forming organs.....  | 5             | 10          | 15            | 0.4  | 4             | 8           | 12            | 0.4  |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE & SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| C A U S E  | 45 - 49 YEARS |             |               |      | 50 - 54 YEARS |             |               |      |
|--|---------------|-------------|---------------|------|---------------|-------------|---------------|------|
|  | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Schistosomiasis.....   | 17            | 7           | 24            | 1.0  | 19            | 10          | 29            | 1.5  |
| Filariasis.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Other helminthiasis.....   | 3             | 0           | 3             | 0.1  | 1             | 0           | 1             | 0.05 |
| Other infectious and parasitic diseases.....   | 3             | 0           | 3             | 0.1  | 5             | 0           | 5             | 0.3  |
| Malignant neoplasms of:  |               |             |               |      |               |             |               |      |
| lip, oral cavity and pharynx....   | 53            | 18          | 71            | 3.1  | 68            | 35          | 103           | 5.4  |
| esophagus.....   | 20            | 8           | 28            | 1.2  | 13            | 9           | 22            | 1.1  |
| stomach.....   | 57            | 41          | 98            | 4.2  | 77            | 44          | 121           | 6.3  |
| small intestine including duodenum.....  | 3             | 3           | 6             | 0.3  | 2             | 2           | 4             | 0.2  |
| colon.....   | 10            | 17          | 27            | 1.2  | 17            | 14          | 31            | 1.6  |
| rectum, rectosigmoid junction and anus.....  | 12            | 7           | 19            | 0.8  | 21            | 19          | 40            | 2.1  |
| larynx.....  | 8             | 1           | 9             | 0.4  | 16            | 3           | 19            | 1.0  |
| trachea, bronchus, lung & pleura   | 226           | 60          | 286           | 12.3 | 300           | 107         | 407           | 21.1 |
| bone and articular cartilage....   | 36            | 25          | 61            | 2.6  | 50            | 30          | 80            | 4.2  |
| skin.....  | 0             | 4           | 4             | 0.2  | 4             | 8           | 12            | 0.6  |
| female breast.....   | 0             | 225         | 225           | 9.7  | 0             | 237         | 237           | 12.3 |
| cervix uteri.....  | 0             | 57          | 57            | 2.5  | 0             | 51          | 51            | 2.7  |
| uterus.....  | 0             | 99          | 99            | 4.3  | 0             | 100         | 100           | 5.2  |
| other female genital organs.....   | 0             | 43          | 43            | 1.9  | 0             | 53          | 53            | 2.8  |
| prostate.....  | 6             | 0           | 6             | 0.3  | 20            | 0           | 20            | 1.0  |
| other and unspecified sites.....   | 485           | 219         | 704           | 30.4 | 566           | 271         | 837           | 43.5 |
| lymphatic tissue.....  | 6             | 9           | 15            | 0.6  | 17            | 10          | 27            | 1.4  |
| Leukemia.....  | 30            | 39          | 69            | 3.0  | 29            | 36          | 65            | 3.4  |
| Benign neoplasms carcinoma in situ, neoplasms of uncertain behavior & of unspecified nature..... | 3             | 4           | 7             | 0.3  | 2             | 5           | 7             | 0.4  |
| Diabetes mellitus.....   | 111           | 58          | 169           | 7.3  | 149           | 125         | 274           | 14.2 |
| Kwashiorkor.....   | 0             | 1           | 1             | 0.04 | 0             | 0           | 0             | 0.0  |
| Nutritional marasmus.....  | 0             | 1           | 1             | 0.04 | 0             | 0           | 0             | 0.0  |
| Other protein calorie malnutrition   | 1             | 0           | 1             | 0.04 | 6             | 5           | 11            | 0.6  |
| Other nutritional deficiencies....   | 27            | 12          | 39            | 1.7  | 20            | 21          | 41            | 2.1  |
| Goiter, thyrotoxicosis, hypothyroidism & other endocrine & metabolic disorders.....              | 48            | 20          | 68            | 2.9  | 40            | 24          | 64            | 3.3  |
| Anemias.....   | 41            | 41          | 82            | 3.5  | 60            | 56          | 116           | 6.0  |
| Other diseases of blood-forming organs.....  | 6             | 11          | 17            | 0.7  | 8             | 4           | 12            | 0.6  |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE & SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| C A U S E  | 55 - 59 YEARS |             |               |      | 60 - 64 YEARS |             |               |      |
|--|---------------|-------------|---------------|------|---------------|-------------|---------------|------|
|  | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Schistosomiasis.....   | 15            | 5           | 20            | 1.3  | 6             | 9           | 15            | 1.3  |
| Filariasis.....  | 0             | 0           | 0             | 0.0  | 1             | 0           | 1             | 0.08 |
| Other helminthiasis.....   | 0             | 0           | 0             | 0.0  | 1             | 0           | 1             | 0.08 |
| Other infectious and parasitic diseases.....   | 6             | 3           | 9             | 0.6  | 4             | 4           | 8             | 0.7  |
| Malignant neoplasms of:  |               |             |               |      |               |             |               |      |
| lip, oral cavity and pharynx....   | 109           | 45          | 154           | 10.1 | 83            | 65          | 148           | 12.4 |
| esophagus.....   | 26            | 11          | 37            | 2.4  | 34            | 13          | 47            | 3.9  |
| stomach.....   | 61            | 47          | 108           | 7.1  | 114           | 64          | 178           | 14.9 |
| small intestine including duodenum.....  | 2             | 1           | 3             | 0.2  | 5             | 1           | 6             | 0.5  |
| colon.....   | 13            | 18          | 31            | 2.0  | 19            | 17          | 36            | 3.0  |
| rectum, rectosigmoid junction and anus.....  | 31            | 21          | 52            | 3.4  | 29            | 22          | 51            | 4.3  |
| larynx.....  | 15            | 4           | 19            | 1.2  | 15            | 9           | 24            | 2.0  |
| trachea, bronchus, lung & pleura   | 392           | 119         | 511           | 33.5 | 437           | 143         | 580           | 48.4 |
| bone and articular cartilage....   | 61            | 31          | 92            | 6.0  | 58            | 43          | 101           | 8.4  |
| skin.....  | 5             | 2           | 7             | 0.5  | 5             | 5           | 10            | 0.8  |
| female breast.....   | 0             | 202         | 202           | 13.2 | 0             | 153         | 153           | 12.8 |
| cervix uteri.....  | 0             | 42          | 42            | 2.7  | 0             | 31          | 31            | 2.6  |
| uterus.....  | 0             | 99          | 99            | 6.5  | 0             | 97          | 97            | 8.1  |
| other female genital organs.....   | 0             | 39          | 39            | 2.6  | 0             | 36          | 36            | 3.0  |
| prostate.....  | 9             | 0           | 9             | 0.6  | 30            | 0           | 30            | 2.5  |
| other and unspecified sites.....   | 577           | 289         | 866           | 56.7 | 590           | 331         | 921           | 76.9 |
| lymphatic tissue.....  | 21            | 15          | 36            | 2.4  | 20            | 18          | 38            | 3.2  |
| Leukemia.....  | 30            | 33          | 63            | 4.1  | 34            | 40          | 74            | 6.2  |
| Benign neoplasms carcinoma in situ, neoplasms of uncertain behavior & of unspecified nature..... | 1             | 3           | 4             | 0.3  | 8             | 2           | 10            | 0.8  |
| Diabetes mellitus.....   | 185           | 175         | 360           | 23.6 | 236           | 234         | 470           | 39.3 |
| Kwashiorkor.....   | 1             | 0           | 1             | 0.07 | 0             | 1           | 1             | 0.08 |
| Nutritional marasmus.....  | 0             | 0           | 0             | 0.0  | 0             | 1           | 1             | 0.08 |
| Other protein calorie malnutrition   | 2             | 0           | 2             | 0.1  | 6             | 5           | 11            | 0.9  |
| Other nutritional deficiencies....   | 31            | 18          | 49            | 3.2  | 27            | 30          | 57            | 4.8  |
| Goiter, thyrotoxicosis, hypothyroidism & other endocrine & metabolic disorders.....              | 47            | 37          | 84            | 5.5  | 55            | 36          | 91            | 7.6  |
| Anemias.....   | 50            | 49          | 99            | 6.5  | 83            | 59          | 142           | 11.9 |
| Other diseases of blood-forming organs.....  | 2             | 5           | 7             | 0.5  | 11            | 9           | 20            | 1.7  |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE & SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| C A U S E  | 65 - 69 YEARS |             |               |      | 70 YEARS & OVER |             |               |       |
|--|---------------|-------------|---------------|------|-----------------|-------------|---------------|-------|
|  | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE            | FE-<br>MALE | BOTH<br>SEXES | RATE  |
| Schistosomiasis.....   | 14            | 3           | 17            | 1.9  | 11              | 8           | 19            | 1.4   |
| Filariasis.....  | 0             | 0           | 0             | 0.0  | 0               | 0           | 0             | 0.0   |
| Other helminthiasis.....   | 1             | 0           | 1             | 0.1  | 4               | 0           | 4             | 0.3   |
| Other infectious and parasitic diseases.....   | 2             | 1           | 3             | 0.3  | 10              | 12          | 22            | 1.6   |
| Malignant neoplasms of:  |               |             |               |      |                 |             |               |       |
| lip, oral cavity and pharynx....   | 74            | 71          | 145           | 16.2 | 182             | 218         | 400           | 28.6  |
| esophagus.....   | 22            | 15          | 37            | 4.1  | 57              | 46          | 103           | 7.4   |
| stomach.....   | 124           | 79          | 203           | 22.7 | 258             | 202         | 460           | 32.9  |
| small intestine including duodenum.....  | 1             | 2           | 3             | 0.3  | 12              | 6           | 18            | 1.3   |
| colon.....   | 26            | 18          | 44            | 4.9  | 32              | 42          | 74            | 5.3   |
| rectum, rectosigmoid junction and anus.....  | 25            | 33          | 58            | 6.5  | 86              | 64          | 150           | 10.7  |
| larynx.....  | 21            | 8           | 29            | 3.2  | 36              | 18          | 54            | 3.9   |
| trachea, bronchus, lung & pleura   | 370           | 133         | 503           | 56.2 | 525             | 238         | 763           | 54.5  |
| bone and articular cartilage....   | 55            | 36          | 91            | 10.2 | 150             | 95          | 245           | 17.5  |
| skin.....  | 4             | 6           | 10            | 1.1  | 10              | 13          | 23            | 1.6   |
| female breast.....   | 0             | 105         | 105           | 11.7 | 0               | 295         | 295           | 21.1  |
| cervix uteri.....  | 0             | 29          | 29            | 3.2  | 0               | 60          | 60            | 4.3   |
| uterus.....  | 0             | 68          | 68            | 7.6  | 0               | 165         | 165           | 11.8  |
| other female genital organs....  | 0             | 21          | 21            | 2.3  | 0               | 66          | 66            | 4.7   |
| prostate.....  | 40            | 0           | 40            | 4.5  | 212             | 0           | 212           | 15.2  |
| other and unspecified sites....  | 439           | 319         | 758           | 84.7 | 1012            | 761         | 1773          | 126.8 |
| lymphatic tissue.....  | 20            | 19          | 39            | 4.4  | 50              | 28          | 78            | 5.6   |
| Leukemia.....  | 32            | 28          | 60            | 6.7  | 60              | 61          | 121           | 8.7   |
| Benign neoplasms carcinoma in situ, neoplasms of uncertain behavior & of unspecified nature..... | 4             | 3           | 7             | 0.8  | 7               | 11          | 18            | 1.3   |
| Diabetes mellitus.....   | 242           | 312         | 554           | 61.9 | 578             | 853         | 1431          | 102.3 |
| Kwashiorkor.....   | 0             | 0           | 0             | 0.0  | 7               | 9           | 16            | 1.1   |
| Nutritional marasmus.....  | 2             | 1           | 3             | 0.3  | 14              | 13          | 27            | 1.9   |
| Other protein calorie malnutrition   | 8             | 7           | 15            | 1.7  | 29              | 48          | 77            | 5.5   |
| Other nutritional deficiencies....   | 37            | 27          | 64            | 7.2  | 331             | 375         | 706           | 50.5  |
| Goiter, thyrotoxicosis, hypothyroidism & other endocrine & metabolic disorders.....              | 57            | 62          | 119           | 13.3 | 298             | 294         | 592           | 42.3  |
| Anemias.....   | 97            | 92          | 189           | 21.1 | 373             | 366         | 739           | 52.8  |
| Other diseases of blood-forming organs.....  | 10            | 4           | 14            | 1.6  | 17              | 14          | 31            | 2.2   |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE & SEX  
 No. & Rate/100,000 Pop.  
 PHILIPPINES  
 1990

| C A U S E  | NOT STATED |        |               |      |
|--|------------|--------|---------------|------|
|  | MALE       | FEMALE | BOTH<br>SEXES | RATE |
| Schistosomiasis.....   | 0          | 0      | 0             | 0.0  |
| Filariasis.....  | 0          | 0      | 0             | 0.0  |
| Other helminthiasis.....   | 0          | 0      | 0             | 0.0  |
| Other infectious and parasitic<br>diseases.....  | 0          | 0      | 0             | 0.0  |
| Malignant neoplasms of:  |            |        |               |      |
| lip, oral cavity and pharynx.....  | 0          | 0      | 0             | 0.0  |
| esophagus.....   | 0          | 0      | 0             | 0.0  |
| stomach.....   | 0          | 0      | 0             | 0.0  |
| small intestine including duodenum.....  | 0          | 0      | 0             | 0.0  |
| colon.....   | 0          | 0      | 0             | 0.0  |
| rectum, rectosigmoid junction<br>and anus.....   | 0          | 0      | 0             | 0.0  |
| larynx.....  | 0          | 0      | 0             | 0.0  |
| trachea, bronchus, lung<br>and pleura.....   | 0          | 0      | 0             | 0.0  |
| bone and articular cartilage.....  | 0          | 0      | 0             | 0.0  |
| skin.....  | 0          | 0      | 0             | 0.0  |
| female breast.....   | 0          | 0      | 0             | 0.0  |
| cervix uteri.....  | 0          | 0      | 0             | 0.0  |
| uterus.....  | 0          | 0      | 0             | 0.0  |
| other female genital organs.....   | 0          | 0      | 0             | 0.0  |
| prostate.....  | 0          | 0      | 0             | 0.0  |
| other and unspecified sites.....   | 0          | 0      | 0             | 0.0  |
| lymphatic tissue.....  | 0          | 0      | 0             | 0.0  |
| Leukemia.....  | 0          | 0      | 0             | 0.0  |
| Benign neoplasms carcinoma in situ,<br>neoplasms of uncertain behavior and<br>of unspecified nature..... | 0          | 0      | 0             | 0.0  |
| Diabetes mellitus.....   | 0          | 0      | 0             | 0.0  |
| Kwashiorkor.....   | 0          | 0      | 0             | 0.0  |
| Nutritional marasmus.....  | 0          | 0      | 0             | 0.0  |
| Other protein calorie malnutrition.....  | 0          | 0      | 0             | 0.0  |
| Other nutritional deficiencies.....  | 0          | 0      | 0             | 0.0  |
| Goiter, thyrotoxicosis, hypothyroidism<br>and other endocrine and metabolic<br>disorders.....            | 0          | 0      | 0             | 0.0  |
| Anemias.....   | 0          | 0      | 0             | 0.0  |
| Other diseases of blood-forming<br>organs.....   | 0          | 0      | 0             | 0.0  |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE & SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| C A U S E  | ALL AGES |        |               |      |
|--|----------|--------|---------------|------|
|  | MALE     | FEMALE | BOTH<br>SEXES | RATE |
| Psychoses.....(290-299)  | 56       | 56     | 112           | 0.2  |
| Neurotic disorders, personality disorders<br>and other mental disorders.....(300-316)  | 214      | 25     | 239           | 0.4  |
| Mental retardation.....(317-319)   | 2        | 2      | 4             | 0.01 |
| Meningitis.....(320-322)   | 1311     | 1024   | 2335          | 3.8  |
| Epilepsy.....(345)   | 459      | 314    | 773           | 1.2  |
| Other diseases of nervous system.....(323-<br>326;330-337;340-344-346-349;350;360-389) | 846      | 627    | 1473          | 2.4  |
| Acute rheumatic fever.....(390-392)  | 5        | 5      | 10            | 0.02 |
| Chronic rheumatic heart disease...(393-398)  | 998      | 1089   | 2087          | 3.4  |
| Hypertension without heart<br>involvement.....(401;403;405)                            | 7598     | 5656   | 13254         | 21.4 |
| Hypertension with heart<br>involvement.....(402;404)                                   | 1618     | 1297   | 2915          | 4.7  |
| Acute myocardial infarction.....(410)  | 9006     | 4993   | 13999         | 22.6 |
| Other forms of ischaemic heart<br>disease.....(411-414)                                | 2783     | 2649   | 5432          | 8.8  |
| Diseases of pulmonary circulation & other<br>forms of heart disease.(415-417;420-429)  | 12009    | 9821   | 21829         | 35.2 |
| Cerebrovascular disease.....(430-438)  | 10191    | 7326   | 17517         | 28.2 |
| Atherosclerosis.....(440)  | 893      | 1006   | 1899          | 3.1  |
| Other diseases of arteries, arterioles,<br>and capillaries.....(441-448)               | 245      | 162    | 407           | 0.7  |
| Venous thrombosis and embolism...(451-453)   | 34       | 25     | 59            | 0.1  |
| Other diseases of circulatory<br>system.....(454-459)                                  | 401      | 192    | 593           | 1.0  |
| Acute respiratory infections, except<br>bronchitis and bronchiolitis...(460-465)       | 39       | 37     | 76            | 0.1  |
| Acute bronchitis and bronchiolitis...(466)   | 516      | 416    | 932           | 1.5  |
| Pneumonia.....(480-486)  | 22216    | 19022  | 41238         | 66.5 |
| Influenza.....(487)  | 335      | 270    | 605           | 1.0  |
| Chronic obstructive pulmonary disease<br>and allied conditions.....(490-495)           | 4917     | 2776   | 7693          | 12.4 |
| Other diseases of respiratory<br>system.....(470-478;500-508;510-519)                  | 3750     | 3389   | 7139          | 11.5 |
| Diseases of oral cavity, salivary<br>glands and jaws.....(520-529)                     | 10       | 10     | 20            | 0.03 |
| Gastric, duodenal and peptic ulcer,<br>sites unspecified.....(531-533)                 | 3656     | 1624   | 5280          | 8.5  |
| Appendicitis.....(540-543)   | 185      | 134    | 329           | 0.5  |
| Hernia of abdominal cavity.....(550-553)   | 133      | 30     | 163           | 0.3  |
| Chronic liver diseases & cirrhosis...(571)   | 2290     | 607    | 2897          | 4.7  |

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate\100,000 Pop.  
PHILIPPINES  
1990

| C A U S E   | UNDER 1 YEAR |             |               |       | 1 - 4 YEARS |             |               |       |
|---|--------------|-------------|---------------|-------|-------------|-------------|---------------|-------|
|   | MALE         | FE-<br>MALE | BOTH<br>SEXES | RATE  | MALE        | FE-<br>MALE | BOTH<br>SEXES | RATE  |
| Psychoses.....  | 1            | 0           | 1             | 0.06  | 0           | 0           | 0             | 0.0   |
| Neurotic disorders, personality<br>disorder & other mental disorders.....   | 3            | 1           | 4             | 0.2   | 0           | 1           | 1             | 0.01  |
| Mental retardation.....   | 1            | 0           | 1             | 0.06  | 0           | 0           | 0             | 0.0   |
| Meningitis.....   | 312          | 205         | 517           | 28.4  | 333         | 280         | 613           | 9.2   |
| Epilepsy.....   | 5            | 6           | 11            | 0.6   | 29          | 20          | 49            | 0.7   |
| Other diseases of nervous system..  | 91           | 75          | 166           | 9.1   | 115         | 96          | 211           | 3.2   |
| Acute rheumatic fever.....  | 1            | 0           | 1             | 0.06  | 1           | 0           | 1             | 0.01  |
| Chronic rheumatic heart disease....   | 0            | 0           | 0             | 0.0   | 42          | 31          | 73            | 1.1   |
| Hypertension without heart<br>involvement.....                              | 0            | 1           | 1             | 0.06  | 2           | 1           | 3             | 0.04  |
| Hypertension with heart involvement..                                       | 0            | 0           | 0             | 0.0   | 0           | 0           | 0             | 0.0   |
| Acute myocardial infarction.....  | 16           | 13          | 29            | 1.6   | 10          | 5           | 15            | 0.2   |
| Other forms of ischaemic heart<br>disease.....                              | 5            | 9           | 14            | 0.8   | 3           | 1           | 4             | 0.06  |
| Diseases of pulmonary circulation<br>& other forms of heart disease.....    | 468          | 347         | 815           | 44.8  | 286         | 206         | 492           | 7.4   |
| Cerebrovascular disease.....  | 69           | 61          | 130           | 7.2   | 49          | 37          | 86            | 1.3   |
| Atherosclerosis.....  | 0            | 0           | 0             | 0.0   | 0           | 0           | 0             | 0.0   |
| Other diseases of arteries,<br>arterioles and capillaries.....              | 2            | 2           | 4             | 0.2   | 0           | 2           | 2             | 0.03  |
| Venous thrombosis and embolism.....   | 0            | 0           | 0             | 0.0   | 1           | 1           | 2             | 0.03  |
| Other diseases of circulatory<br>system.....                                | 10           | 9           | 19            | 1.0   | 6           | 9           | 15            | 0.2   |
| Acute respiratory infections,<br>except bronchitis and<br>bronchilitis..... | 7            | 2           | 9             | 0.5   | 9           | 5           | 14            | 0.2   |
| Acute bronchitis & bronchiolitis....  | 226          | 188         | 414           | 22.8  | 177         | 139         | 316           | 4.7   |
| Pneumonia.....  | 5344         | 4039        | 9383          | 516.1 | 5406        | 4841        | 10247         | 153.2 |
| Influenza.....  | 34           | 20          | 54            | 3.0   | 22          | 27          | 49            | 0.7   |
| Chronic obstructive pulmonary<br>diseases & allied conditions.....          | 201          | 148         | 349           | 19.2  | 212         | 205         | 417           | 6.2   |
| Other diseases of respiratory<br>system.....                                | 314          | 225         | 539           | 29.6  | 155         | 117         | 272           | 4.1   |
| Diseases of oral cavity,<br>salivary glands and jaws.....                   | 1            | 1           | 2             | 0.1   | 2           | 2           | 4             | 0.06  |
| Gastric, duodenal and peptic<br>ulcer, sites unspecified.....               | 11           | 8           | 19            | 1.0   | 11          | 15          | 26            | 0.4   |
| Appendicitis.....   | 1            | 1           | 2             | 0.1   | 6           | 6           | 12            | 0.2   |
| Hernia of abdominal cavity.....   | 16           | 4           | 20            | 1.1   | 4           | 1           | 5             | 0.07  |
| Chronic liver diseases & cirrhosis..  | 4            | 4           | 8             | 0.4   | 7           | 3           | 10            | 0.1   |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate\100,000 Pop.  
PHILIPPINES  
1990

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| C A U S E   | 5 - 9 YEARS |              |               |      | 10 - 14 YEARS |             |               |      |
|---|-------------|--------------|---------------|------|---------------|-------------|---------------|------|
|   | MALE        | FE-<br>(MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Psychoses.....  | 0           | 1            | 1             | 0.01 | 0             | 1           | 1             | 0.01 |
| Neurotic disorders, personality<br>disorder & other mental disorders.       | 3           | 1            | 4             | 0.05 | 0             | 1           | 1             | 0.01 |
| Mental retardation.....   | 0           | 0            | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Meningitis.....   | 194         | 163          | 357           | 4.4  | 115           | 93          | 208           | 2.8  |
| Epilepsy.....   | 16          | 22           | 38            | 0.5  | 45            | 35          | 80            | 1.1  |
| Other diseases of nervous system..  | 74          | 61           | 135           | 1.7  | 52            | 41          | 93            | 1.2  |
| Acute rheumatic fever.....  | 0           | 1            | 1             | 0.01 | 2             | 2           | 4             | 0.05 |
| Chronic rheumatic heart disease....   | 51          | 45           | 96            | 1.2  | 104           | 126         | 230           | 3.1  |
| Hypertension without heart<br>involvement.....                              | 1           | 1            | 2             | 0.02 | 26            | 21          | 47            | 0.6  |
| Hypertension with heart involvement   | 0           | 0            | 0             | 0.0  | 8             | 4           | 12            | 0.2  |
| Acute myocardial infarction.....  | 8           | 7            | 16            | 0.2  | 8             | 8           | 16            | 0.2  |
| Other forms of ischaemic heart<br>disease.....                              | 3           | 2            | 5             | 0.06 | 6             | 1           | 7             | 0.09 |
| Diseases of pulmonary circulation<br>& other forms of heart disease...      | 167         | 106          | 273           | 3.4  | 154           | 122         | 276           | 3.7  |
| Cerebrovascular disease.....  | 58          | 37           | 95            | 1.2  | 67            | 48          | 115           | 1.5  |
| Atherosclerosis.....  | 0           | 0            | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Other diseases of arteries,<br>arterioles and capillaries.....              | 5           | 0            | 5             | 0.06 | 2             | 2           | 4             | 0.05 |
| Venous thrombosis and embolism.....   | 0           | 0            | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Other diseases of circulatory<br>system.....                                | 10          | 8            | 18            | 0.2  | 13            | 6           | 19            | 0.3  |
| Acute respiratory infections,<br>except bronchitis and<br>bronchilitis..... | 3           | 3            | 6             | 0.07 | 1             | 1           | 2             | 0.03 |
| Acute bronchitis & bronchiolitis...   | 32          | 24           | 56            | 0.7  | 9             | 4           | 13            | 0.2  |
| Pneumonia.....  | 1274        | 1088         | 2362          | 29.2 | 440           | 343         | 783           | 10.5 |
| Influenza.....  | 19          | 11           | 30            | 0.4  | 14            | 6           | 20            | 0.3  |
| Chronic obstructive pulmonary<br>diseases & allied conditions.....          | 41          | 54           | 95            | 1.2  | 33            | 30          | 63            | 0.8  |
| Other diseases of respiratory<br>system.....                                | 40          | 41           | 81            | 1.0  | 33            | 24          | 57            | 0.8  |
| Diseases of oral cavity,<br>salivary glands and jaws.....                   | 0           | 1            | 1             | 0.01 | 0             | 1           | 1             | 0.01 |
| Gastric, duodenal and peptic<br>ulcer, sites unspecified.....               | 13          | 13           | 26            | 0.3  | 16            | 9           | 25            | 0.3  |
| Appendicitis.....   | 28          | 11           | 39            | 0.5  | 25            | 16          | 41            | 0.6  |
| Hernia of abdominal cavity.....   | 2           | 1            | 3             | 0.04 | 1             | 2           | 3             | 0.04 |
| Chronic liver diseases & cirrhosis.   | 3           | 1            | 4             | 0.05 | 4             | 4           | 8             | 0.1  |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate\100,000 Pop.  
PHILIPPINES  
1990

| C A U S E   | 15 - 19 YEARS |             |               |      | 20 - 24 YEARS |             |               |      |
|---|---------------|-------------|---------------|------|---------------|-------------|---------------|------|
|   | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Psychoses.....  | 6             | 2           | 8             | 0.1  | 4             | 2           | 6             | 0.1  |
| Neurotic disorders, personality<br>disorder & other mental disorders.       | 5             | 0           | 5             | 0.08 | 16            | 1           | 17            | 0.3  |
| Mental retardation.....   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Meningitis.....   | 80            | 61          | 141           | 2.1  | 65            | 46          | 111           | 1.9  |
| Epilepsy.....   | 62            | 52          | 114           | 1.7  | 83            | 39          | 122           | 2.1  |
| Other diseases of nervous system..  | 36            | 38          | 74            | 1.1  | 56            | 32          | 88            | 1.5  |
| Acute rheumatic fever.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Chronic rheumatic heart disease....   | 138           | 143         | 281           | 4.3  | 136           | 126         | 262           | 4.5  |
| Hypertension without heart<br>involvement.....                              | 12            | 10          | 22            | 0.3  | 56            | 23          | 79            | 1.3  |
| Hypertension with heart involvement   | 3             | 2           | 5             | 0.08 | 8             | 3           | 11            | 0.2  |
| Acute myocardial infarction.....  | 57            | 33          | 90            | 1.4  | 179           | 70          | 249           | 4.2  |
| Other forms of ischaemic heart<br>disease.....                              | 5             | 6           | 11            | 0.2  | 24            | 14          | 38            | 0.6  |
| Diseases of pulmonary circulation<br>& other forms of heart disease...      | 210           | 199         | 409           | 6.2  | 312           | 262         | 574           | 9.8  |
| Cerebrovascular disease.....  | 114           | 36          | 150           | 2.3  | 156           | 70          | 226           | 3.9  |
| Atherosclerosis.....  | 0             | 0           | 0             | 0.0  | 6             | 11          | 17            | 0.3  |
| Other diseases of arteries,<br>arterioles and capillaries.....              | 8             | 7           | 15            | 0.2  | 10            | 8           | 18            | 0.3  |
| Venous thrombosis and embolism.....   | 1             | 0           | 1             | 0.02 | 1             | 1           | 2             | 0.03 |
| Other diseases of circulatory<br>system.....                                | 15            | 9           | 24            | 0.4  | 42            | 18          | 60            | 1.0  |
| Acute respiratory infections,<br>except bronchitis and<br>bronchilitis..... | 1             | 1           | 2             | 0.03 | 1             | 1           | 2             | 0.03 |
| Acute bronchitis & bronchiolitis...   | 2             | 1           | 3             | 0.05 | 6             | 1           | 7             | 0.1  |
| Pneumonia.....  | 311           | 236         | 547           | 8.3  | 339           | 241         | 580           | 9.9  |
| Influenza.....  | 15            | 6           | 21            | 0.3  | 9             | 13          | 22            | 0.4  |
| Chronic obstructive pulmonary<br>diseases & allied conditions.....          | 50            | 38          | 88            | 1.3  | 91            | 56          | 147           | 2.5  |
| Other diseases of respiratory<br>system.....                                | 39            | 35          | 74            | 1.1  | 59            | 50          | 109           | 1.9  |
| Diseases of oral cavity,<br>salivary glands and jaws.....                   | 1             | 1           | 2             | 0.03 | 0             | 1           | 1             | 0.02 |
| Gastric, duodenal and peptic<br>ulcer, sites unspecified.....               | 49            | 22          | 71            | 1.1  | 78            | 24          | 102           | 1.7  |
| Appendicitis.....   | 15            | 10          | 25            | 0.4  | 14            | 14          | 28            | 0.5  |
| Hernia of abdominal cavity.....   | 2             | 3           | 5             | 0.08 | 6             | 0           | 6             | 0.1  |
| Chronic liver diseases & cirrhosis.   | 19            | 9           | 28            | 0.4  | 36            | 9           | 45            | 0.8  |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate\100,000 Pop.  
PHILIPPINES  
1990

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| C A U S E   | 25 - 29 YEARS |             |               |      | 30 - 34 YEARS |             |               |      |
|---|---------------|-------------|---------------|------|---------------|-------------|---------------|------|
|   | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Psychoses.....  | 3             | 6           | 9             | 0.2  | 1             | 2           | 3             | 0.07 |
| Neurotic disorders, personality<br>disorder & other mental disorders.       | 23            | 0           | 23            | 0.4  | 21            | 4           | 25            | 0.06 |
| Mental retardation.....   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Meningitis.....   | 44            | 40          | 84            | 1.6  | 33            | 27          | 60            | 1.3  |
| Epilepsy.....   | 53            | 38          | 91            | 1.8  | 32            | 21          | 53            | 1.2  |
| Other diseases of nervous system..  | 39            | 24          | 63            | 1.2  | 40            | 30          | 70            | 1.6  |
| Acute rheumatic fever.....  | 0             | 1           | 1             | 0.02 | 1             | 0           | 1             | 0.02 |
| Chronic rheumatic heart disease....   | 96            | 120         | 216           | 4.2  | 68            | 105         | 173           | 3.9  |
| Hypertension without heart<br>involvement.....                              | 94            | 24          | 118           | 2.3  | 178           | 62          | 240           | 5.3  |
| Hypertension with heart involvement   | 16            | 6           | 22            | 0.4  | 28            | 19          | 47            | 1.0  |
| Acute myocardial infarction.....  | 279           | 107         | 386           | 7.5  | 408           | 142         | 550           | 12.3 |
| Other forms of ischaemic heart<br>disease.....                              | 29            | 14          | 43            | 0.8  | 46            | 20          | 66            | 1.5  |
| Diseases of pulmonary circulation<br>& other forms of heart disease...      | 375           | 295         | 670           | 12.9 | 420           | 316         | 736           | 16.4 |
| Cerebrovascular disease.....  | 230           | 95          | 325           | 6.3  | 290           | 134         | 424           | 9.4  |
| Atherosclerosis.....  | 2             | 1           | 3             | 0.06 | 3             | 0           | 3             | 0.07 |
| Other diseases of arteries,<br>arterioles and capillaries.....              | 16            | 12          | 28            | 0.5  | 16            | 14          | 30            | 0.7  |
| Venous thrombosis and embolism.....   | 1             | 0           | 1             | 0.02 | 2             | 1           | 3             | 0.07 |
| Other diseases of circulatory<br>system.....                                | 32            | 12          | 44            | 0.9  | 53            | 11          | 64            | 1.4  |
| Acute respiratory infections,<br>except bronchitis and<br>bronchilitis..... | 0             | 3           | 3             | 0.06 | 2             | 0           | 2             | 0.04 |
| Acute bronchitis & bronchiolitis...   | 1             | 4           | 5             | 0.1  | 1             | 1           | 2             | 0.04 |
| Pneumonia.....  | 298           | 240         | 538           | 10.4 | 286           | 211         | 497           | 11.1 |
| Influenza.....  | 8             | 8           | 16            | 0.3  | 17            | 11          | 28            | 0.6  |
| Chronic obstructive pulmonary<br>diseases & allied conditions.....          | 61            | 62          | 143           | 2.8  | 87            | 82          | 169           | 3.8  |
| Other diseases of respiratory<br>system.....                                | 62            | 39          | 101           | 2.0  | 61            | 42          | 103           | 2.3  |
| Diseases of oral cavity,<br>salivary glands and jaws.....                   | 2             | 0           | 2             | 0.04 | 1             | 1           | 2             | 0.04 |
| Gastric, duodenal and peptic<br>ulcer, sites unspecified.....               | 76            | 45          | 121           | 2.3  | 129           | 55          | 184           | 4.1  |
| Appendicitis.....   | 12            | 9           | 21            | 0.4  | 8             | 7           | 15            | 0.3  |
| Hernia of abdominal cavity.....   | 9             | 3           | 12            | 0.2  | 4             | 1           | 5             | 0.1  |
| Chronic liver diseases & cirrhosis..  | 66            | 16          | 82            | 1.6  | 121           | 20          | 141           | 3.1  |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate\100,000 Pop.  
PHILIPPINES  
1990

| C A U S E   | 35 - 39 YEARS |             |               |      | 40 - 44 YEARS |             |               |      |
|---|---------------|-------------|---------------|------|---------------|-------------|---------------|------|
|   | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Psychoses.....  | 3             | 4           | 7             | 0.2  | 4             | 2           | 6             | 0.2  |
| Neurotic disorders, personality<br>disorder & other mental disorders.       | 22            | 3           | 25            | 0.7  | 25            | 1           | 26            | 0.9  |
| Mental retardation.....   | 1             | 0           | 1             | 0.03 | 0             | 0           | 0             | 0.0  |
| Meningitis.....   | 19            | 16          | 35            | 0.9  | 21            | 22          | 43            | 1.5  |
| Epilepsy.....   | 36            | 26          | 62            | 1.7  | 25            | 12          | 37            | 1.3  |
| Other diseases of nervous system..  | 36            | 19          | 55            | 1.5  | 48            | 18          | 66            | 2.3  |
| Acute rheumatic fever.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Chronic rheumatic heart disease....   | 67            | 106         | 173           | 4.6  | 56            | 61          | 117           | 4.0  |
| Hypertension without heart<br>involvement.....                              | 252           | 78          | 330           | 8.8  | 371           | 165         | 536           | 18.4 |
| Hypertension with heart involvement   | 41            | 18          | 59            | 1.6  | 69            | 28          | 97            | 3.3  |
| Acute myocardial infarction.....  | 445           | 164         | 609           | 16.3 | 628           | 187         | 815           | 28.0 |
| Other forms of ischaemic heart<br>disease.....                              | 51            | 16          | 67            | 1.8  | 65            | 23          | 88            | 3.0  |
| Diseases of pulmonary circulation<br>& other forms of heart disease...      | 402           | 322         | 724           | 19.4 | 491           | 316         | 809           | 27.8 |
| Cerebrovascular disease.....  | 356           | 133         | 489           | 13.1 | 463           | 188         | 651           | 22.4 |
| Atherosclerosis.....  | 2             | 4           | 6             | 0.2  | 4             | 2           | 6             | 0.2  |
| Other diseases of arteries,<br>arterioles and capillaries.....              | 23            | 2           | 25            | 0.7  | 18            | 12          | 30            | 1.0  |
| Venous thrombosis and embolism.....   | 0             | 2           | 2             | 0.05 | 2             | 2           | 4             | 0.1  |
| Other diseases of circulatory<br>system.....                                | 42            | 17          | 59            | 1.6  | 24            | 8           | 32            | 1.1  |
| Acute respiratory infections,<br>except bronchitis and<br>bronchilitis..... | 1             | 0           | 1             | 0.03 | 0             | 0           | 0             | 0.0  |
| Acute bronchitis & bronchiolitis...   | 1             | 1           | 2             | 0.05 | 2             | 3           | 5             | 0.2  |
| Pneumonia.....  | 293           | 227         | 520           | 13.9 | 324           | 188         | 512           | 17.6 |
| Influenza.....  | 15            | 7           | 22            | 0.6  | 14            | 4           | 18            | 0.6  |
| Chronic obstructive pulmonary<br>diseases & allied conditions.....          | 111           | 85          | 196           | 5.3  | 139           | 61          | 220           | 7.6  |
| Other diseases of respiratory<br>system.....                                | 63            | 59          | 122           | 3.3  | 85            | 38          | 123           | 4.2  |
| Diseases of oral cavity,<br>salivary glands and jaws.....                   | 1             | 0           | 1             | 0.03 | 0             | 0           | 0             | 0.0  |
| Gastric, duodenal and peptic<br>ulcer, sites unspecified.....               | 172           | 62          | 234           | 6.3  | 227           | 43          | 270           | 9.3  |
| Appendicitis.....   | 12            | 8           | 20            | 0.5  | 11            | 3           | 14            | 0.5  |
| Hernia of abdominal cavity.....   | 5             | 0           | 5             | 0.1  | 5             | 1           | 6             | 0.2  |
| Chronic liver diseases & cirrhosis.   | 181           | 38          | 224           | 6.0  | 241           | 46          | 287           | 9.9  |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate\100,000 Pop.  
PHILIPPINES  
1990

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| C A U S E   | 45 - 49 YEARS |             |               |      | 50 - 54 YEARS |             |               |      |
|---|---------------|-------------|---------------|------|---------------|-------------|---------------|------|
|   | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Psychoses.....  | 2             | 1           | 3             | 0.1  | 2             | 3           | 5             | 0.3  |
| Neurotic disorders, personality<br>disorder & other mental disorders.....   | 17            | 2           | 19            | 0.8  | 23            | 0           | 23            | 1.2  |
| Mental retardation.....   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Meningitis.....   | 31            | 22          | 53            | 2.3  | 26            | 10          | 36            | 1.9  |
| Epilepsy.....   | 23            | 6           | 29            | 1.3  | 19            | 4           | 23            | 1.2  |
| Other diseases of nervous system...   | 40            | 16          | 56            | 2.4  | 28            | 19          | 47            | 2.4  |
| Acute rheumatic fever.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Chronic rheumatic heart disease....   | 35            | 53          | 88            | 3.8  | 35            | 39          | 74            | 3.8  |
| Hypertension without heart<br>involvement.....                              | 534           | 254         | 788           | 34.0 | 685           | 371         | 1056          | 54.9 |
| Hypertension with heart involvement   | 103           | 54          | 157           | 6.8  | 134           | 75          | 209           | 10.9 |
| Acute myocardial infarction.....  | 687           | 254         | 941           | 40.6 | 821           | 334         | 1155          | 60.0 |
| Other forms of ischaemic heart<br>disease.....                              | 73            | 31          | 104           | 4.5  | 107           | 51          | 158           | 8.2  |
| Diseases of pulmonary circulation<br>& other forms of heart disease...      | 507           | 318         | 825           | 35.6 | 680           | 393         | 1073          | 55.8 |
| Cerebrovascular disease.....  | 595           | 304         | 899           | 38.8 | 742           | 425         | 1167          | 60.6 |
| Atherosclerosis.....  | 4             | 3           | 7             | 0.3  | 7             | 2           | 9             | 0.5  |
| Other diseases of arteries,<br>arterioles and capillaries.....              | 11            | 8           | 19            | 0.8  | 12            | 8           | 20            | 1.0  |
| Venous thrombosis and embolism.....   | 1             | 2           | 3             | 0.1  | 1             | 2           | 3             | 0.2  |
| Other diseases of circulatory<br>system.....                                | 24            | 9           | 33            | 1.4  | 20            | 9           | 29            | 1.5  |
| Acute respiratory infections,<br>except bronchitis and<br>bronchilitis..... | 0             | 1           | 1             | 0.04 | 2             | 1           | 3             | 0.2  |
| Acute bronchitis & bronchiolitis...   | 6             | 1           | 7             | 0.3  | 6             | 2           | 8             | 0.4  |
| Pneumonia.....  | 383           | 218         | 601           | 25.9 | 486           | 273         | 759           | 39.4 |
| Influenza.....  | 21            | 7           | 28            | 1.2  | 9             | 13          | 22            | 1.1  |
| Chronic obstructive pulmonary<br>diseases & allied conditions.....          | 186           | 86          | 272           | 11.7 | 298           | 141         | 439           | 22.8 |
| Other diseases of respiratory<br>system.....                                | 103           | 54          | 157           | 6.8  | 123           | 68          | 191           | 9.9  |
| Diseases of oral cavity,<br>salivary glands and jaws.....                   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Gastric, duodenal and peptic<br>ulcer, sites unspecified.....               | 265           | 73          | 338           | 14.6 | 331           | 109         | 440           | 22.9 |
| Appendicitis.....   | 15            | 4           | 19            | 0.8  | 10            | 6           | 16            | 0.8  |
| Hernia of abdominal cavity.....   | 5             | 1           | 6             | 0.3  | 7             | 1           | 8             | 0.4  |
| Chronic liver diseases & cirrhosis.   | 330           | 44          | 374           | 16.1 | 302           | 55          | 355           | 18.4 |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate\100,000 Pop.  
PHILIPPINES  
1990

| C A U S E   | 55 - 59 YEARS |             |               |      | 60 - 64 YEARS |             |               |       |
|---|---------------|-------------|---------------|------|---------------|-------------|---------------|-------|
|   | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE  |
| Psychoses.....  | 2             | 0           | 2             | 0.1  | 4             | 1           | 5             | 0.4   |
| Neurotic disorders, personality<br>disorder & other mental disorders.....   | 16            | 1           | 17            | 1.1  | 18            | 2           | 20            | 1.7   |
| Mental retardation.....   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0   |
| Meningitis.....   | 13            | 6           | 19            | 1.2  | 10            | 4           | 14            | 1.2   |
| Epilepsy.....   | 8             | 8           | 16            | 1.0  | 6             | 2           | 8             | 0.7   |
| Other diseases of nervous system.....                                       | 25            | 20          | 46            | 3.0  | 18            | 13          | 31            | 2.6   |
| Acute rheumatic fever.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0   |
| Chronic rheumatic heart disease.....  | 25            | 22          | 47            | 3.1  | 22            | 22          | 44            | 3.7   |
| Hypertension without heart<br>involvement.....                              | 774           | 448         | 1222          | 80.0 | 906           | 543         | 1449          | 121.0 |
| Hypertension with heart involvement.....                                    | 156           | 87          | 243           | 15.9 | 215           | 129         | 344           | 28.7  |
| Acute myocardial infarction.....  | 941           | 333         | 1274          | 83.4 | 934           | 472         | 1406          | 117.4 |
| Other forms of ischaemic heart<br>disease.....                              | 139           | 73          | 212           | 13.9 | 189           | 110         | 299           | 25.0  |
| Diseases of pulmonary circulation<br>& other forms of heart disease.....    | 756           | 479         | 1235          | 80.9 | 958           | 657         | 1615          | 134.9 |
| Cerebrovascular disease.....  | 852           | 513         | 1365          | 89.4 | 1082          | 649         | 1731          | 144.6 |
| Atherosclerosis.....  | 13            | 8           | 21            | 1.4  | 34            | 23          | 57            | 4.8   |
| Other diseases of arteries,<br>arterioles and capillaries.....              | 18            | 9           | 27            | 1.8  | 19            | 8           | 27            | 2.3   |
| Venous thrombosis and embolism.....   | 5             | 2           | 7             | 0.5  | 6             | 0           | 6             | 0.5   |
| Other diseases of circulatory<br>system.....                                | 25            | 14          | 39            | 2.6  | 18            | 8           | 26            | 2.2   |
| Acute respiratory infections,<br>except bronchitis and<br>bronchilitis..... | 1             | 0           | 1             | 0.07 | 2             | 3           | 5             | 0.4   |
| Acute bronchitis & bronchiolitis.....                                       | 7             | 2           | 9             | 0.6  | 7             | 7           | 14            | 1.2   |
| Pneumonia.....  | 562           | 340         | 902           | 59.1 | 798           | 490         | 1288          | 107.6 |
| Influenza.....  | 20            | 10          | 30            | 2.0  | 17            | 9           | 26            | 2.2   |
| Chronic obstructive pulmonary<br>diseases & allied conditions.....          | 411           | 178         | 589           | 38.6 | 589           | 220         | 809           | 67.6  |
| Other diseases of respiratory<br>system.....                                | 175           | 62          | 237           | 15.5 | 263           | 127         | 390           | 32.6  |
| Diseases of oral cavity,<br>salivary glands and jaws.....                   | 0             | 1           | 1             | 0.07 | 0             | 0           | 0             | 0.0   |
| Gastric, duodenal and peptic<br>ulcer, sites unspecified.....               | 348           | 144         | 492           | 32.2 | 408           | 145         | 551           | 46.0  |
| Appendicitis.....   | 9             | 7           | 16            | 1.0  | 6             | 8           | 14            | 1.2   |
| Hernia of abdominal cavity.....   | 5             | 2           | 7             | 0.5  | 7             | 3           | 10            | 0.8   |
| Chronic liver diseases & cirrhosis.....                                     | 281           | 70          | 351           | 23.0 | 226           | 75          | 301           | 25.1  |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate\100,000 Pop.  
PHILIPPINES  
1990

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| C A U S E   | 65 - 69 YEARS |             |               |       | 70 YEARS & OVER |             |               |       |
|---|---------------|-------------|---------------|-------|-----------------|-------------|---------------|-------|
|   | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE  | MALE            | FE-<br>MALE | BOTH<br>SEXES | RATE  |
| Psychoses.....  | 6             | 2           | 8             | 0.9   | 18              | 29          | 47            | 3.4   |
| Neurotic disorders, personality<br>disorder & other mental disorders..      | 11            | 1           | 12            | 1.3   | 11              | 6           | 17            | 1.2   |
| Mental retardation.....   | 0             | 0           | 0             | 0.0   | 0               | 0           | 0             | 0.0   |
| Meningitis.....   | 7             | 7           | 14            | 1.6   | 8               | 22          | 30            | 2.1   |
| Epilepsy.....   | 4             | 4           | 8             | 0.9   | 13              | 19          | 32            | 2.3   |
| Other diseases of nervous system..  | 31            | 21          | 52            | 5.8   | 116             | 104         | 220           | 15.7  |
| Acute rheumatic fever.....  | 0             | 1           | 1             | 0.1   | 0               | 0           | 0             | 0.0   |
| Chronic rheumatic heart disease....   | 32            | 23          | 55            | 6.1   | 91              | 67          | 158           | 11.3  |
| Hypertension without heart<br>involvement.....                              | 847           | 680         | 1527          | 170.7 | 2860            | 2974        | 5834          | 417.1 |
| Hypertension with heart involvement   | 191           | 159         | 350           | 39.1  | 646             | 713         | 1359          | 97.2  |
| Acute myocardial infarction.....  | 888           | 498         | 1386          | 154.9 | 2696            | 2366        | 5062          | 361.9 |
| Other forms of ischaemic heart<br>disease.....                              | 202           | 136         | 340           | 38.0  | 1836            | 2140        | 3976          | 284.2 |
| Diseases of pulmonary circulation<br>& other forms of heart disease....     | 1044          | 802         | 1846          | 208.4 | 4777            | 4679        | 9456          | 676.0 |
| Cerebrovascular disease.....  | 1094          | 743         | 1837          | 205.4 | 3974            | 3853        | 7827          | 559.6 |
| Atherosclerosis.....  | 56            | 35          | 91            | 10.2  | 762             | 917         | 1679          | 120.0 |
| Other diseases of arteries,<br>arterioles and capillaries.....              | 21            | 17          | 38            | 4.2   | 64              | 51          | 115           | 8.2   |
| Venous thrombosis and embolism.....   | 3             | 2           | 5             | 0.6   | 10              | 10          | 20            | 1.4   |
| Other diseases of circulatory<br>system.....                                | 14            | 9           | 23            | 2.6   | 53              | 36          | 89            | 6.4   |
| Acute respiratory infections,<br>except bronchitis and<br>bronchilitis..... | 2             | 3           | 5             | 0.8   | 7               | 13          | 20            | 1.4   |
| Acute bronchitis & bronchiolitis...   | 7             | 4           | 11            | 1.2   | 26              | 34          | 60            | 4.3   |
| Pneumonia.....  | 797           | 620         | 1417          | 158.4 | 2351            | 5427        | 7778          | 556.1 |
| Influenza.....  | 20            | 23          | 43            | 4.8   | 81              | 95          | 176           | 12.6  |
| Chronic obstructive pulmonary<br>diseases & allied conditions.....          | 613           | 245         | 859           | 96.0  | 1774            | 1064        | 2838          | 202.9 |
| Other diseases of respiratory<br>system.....                                | 286           | 159         | 455           | 50.9  | 1889            | 2239        | 4128          | 295.1 |
| Diseases of oral cavity,<br>salivary glands and jaws.....                   | 1             | 0           | 1             | 0.1   | 1               | 1           | 2             | 0.1   |
| Gastric, duodenal and peptic<br>ulcer, sites unspecified.....               | 376           | 150         | 526           | 58.8  | 1146            | 709         | 1855          | 132.6 |
| Appendicitis.....   | 8             | 7           | 13            | 1.5   | 17              | 17          | 34            | 2.4   |
| Hernia of abdominal cavity.....   | 13            | 3           | 16            | 1.8   | 42              | 4           | 46            | 3.3   |
| Chronic liver diseases & cirrhosis..  | 177           | 69          | 246           | 27.5  | 282             | 151         | 433           | 31.0  |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE & SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1880

| C A U S E  | NOT STATED |        |               | RATE |
|--|------------|--------|---------------|------|
|  | MALE       | FEMALE | BOTH<br>SEXES |      |
| Psychoses.....   | 0          | 0      | 0             | -    |
| Neurotic disorders, personality disorders<br>and other mental disorders..... | 0          | 0      | 0             | -    |
| Mental retardation.....  | 0          | 0      | 0             | -    |
| Meningitis.....  | 0          | 0      | 0             | -    |
| Epilepsy.....  | 0          | 0      | 0             | -    |
| Other diseases of nervous system.....  | 0          | 0      | 0             | -    |
| Acute rheumatic fever.....   | 0          | 0      | 0             | -    |
| Chronic rheumatic heart disease.....   | 0          | 0      | 0             | -    |
| Hypertension without heart involvement....                                   | 0          | 0      | 1             | -    |
| Hypertension with heart involvement.....                                     | 0          | 1      | 1             | -    |
| Acute myocardial infarction.....   | 0          | 0      | 1             | -    |
| Other forms of ischaemic heart<br>disease.....                               | 0          | 0      | 0             | -    |
| Diseases of pulmonary circulation & other<br>forms of heart disease.....     | 1          | 0      | 1             | -    |
| Cerebrovascular disease.....   | 0          | 0      | 0             | -    |
| Atherosclerosis.....   | 0          | 0      | 0             | -    |
| Other diseases of arteries, arterioles,<br>and capillaries.....              | 0          | 0      | 0             | -    |
| Venous thrombosis and embolism.....  | 0          | 0      | 0             | -    |
| Other diseases of circulatory<br>system.....                                 | 0          | 0      | 0             | -    |
| Acute respiratory infections, except<br>bronchitis and bronchiolitis.....    | 0          | 0      | 0             | -    |
| Acute bronchitis and bronchiolitis.....                                      | 0          | 0      | 0             | -    |
| Pneumonia.....   | 0          | 0      | 1             | -    |
| Influenza.....   | 0          | 0      | 0             | -    |
| Chronic obstructive pulmonary disease<br>and allied conditions.....          | 1          | 0      | 1             | -    |
| Other diseases of respiratory system.....                                    | 2          | 0      | 2             | -    |
| Diseases of oral cavity, salivary<br>glands and jaws.....                    | 0          | 0      | 0             | -    |
| Gastric, duodenal and peptic ulcer,<br>sites unspecified.....                | 0          | 0      | 0             | -    |
| Appendicitis.....  | 0          | 0      | 0             | -    |
| Hernia of abdominal cavity.....  | 0          | 0      | 0             | -    |
| Chronic liver diseases & cirrhosis.....                                      | 0          | 0      | 0             | -    |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE & SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| C A U S E   | ALL AGES |        |            |      |
|---|----------|--------|------------|------|
|   | MALE     | FEMALE | BOTH SEXES | RATE |
| Cholelithiasis and other disorders of the biliary tract.....(574-576)   | 75       | 79     | 154        | 0.2  |
| Other diseases of digestive system .....(530;534-537;555-570;572;573;577-579)   | 2978     | 1166   | 4144       | 6.7  |
| Nephritis, nephrotic syndrome and nephrosis.....(580-589)   | 3039     | 2112   | 5151       | 8.3  |
| Infection of kidney.....(590)   | 284      | 205    | 489        | 0.8  |
| Calculus of kidney, ureter and lower urinary tract.....(592;594)  | 43       | 22     | 65         | 0.1  |
| Hyperplasia of prostate.....(600)   | 53       | 0      | 53         | 0.09 |
| Other diseases of genito-urinary system.....(591;593;595-599;601-608;610;611;614-616;617-629)   | 464      | 374    | 838        | 1.4  |
| Pregnancy with abortive outcome...(630-639)   | 0        | 103    | 103        | 0.2  |
| Hemorrhages related to pregnancy.(640;641)  | 0        | 104    | 104        | 0.2  |
| Hypertension complicating pregnancy, childbirth and puerperium.....(642)  | 0        | 341    | 341        | 0.5  |
| Postpartum hemorrhage.....(666)   | 0        | 414    | 414        | 0.7  |
| Normal delivery and other complications related to pregnancy, occurring in the course of labor, delivery and puerperium.....(643-648;650-665;667-676) | 0        | 345    | 345        | 0.6  |
| Diseases of the skin and subcutaneous tissues.....(680-686;690-698;700-709)   | 161      | 163    | 324        | 0.5  |
| Arthropathies, dorsopathies and rheumatism.....(710-729)  | 257      | 166    | 423        | 0.7  |
| Osteopathies, chonoropathies and acquired musculoskeletal deformities.....(730-739)   | 39       | 25     | 64         | 0.1  |
| Congenital Anomalies.....(740-759)  | 1588     | 1154   | 2742       | 4.4  |
| Birth trauma.....(767)  | 2        | 4      | 6          | 0.01 |
| Birth injury and difficult labor.....(768;772)  | 645      | 448    | 1093       | 1.8  |
| Respiratory conditions of fetus and newborn.....(769-771)   | 3545     | 2440   | 5985       | 9.6  |
| Hemolytic diseases of fetus and newborn.....(773;774)   | 35       | 29     | 64         | 0.1  |
| Hematological disorders of fetus and newborn.....(776)  | 21       | 20     | 41         | 0.07 |
| Other causes of perinatal morbidity and mortality.....(760-763;764-766;775;777-779)   | 4894     | 3495   | 8389       | 13.5 |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| C A U S E   | UNDER 1 YEAR |             |               |       | 1 - 4 YEARS |             |               |      |
|---|--------------|-------------|---------------|-------|-------------|-------------|---------------|------|
|   | MALE         | FE-<br>MALE | BOTH<br>SEXES | RATE  | MALE        | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Cholelithiasis and other disorders of the biliary tract.....  | 4            | 4           | 8             | 0.4   | 1           | 1           | 2             | 0.03 |
| Other diseases of digestive system.....   | 210          | 121         | 331           | 18.2  | 143         | 97          | 240           | 3.6  |
| Nephritis, nephrotic syndrome and nephrosis.....  | 40           | 22          | 62            | 3.4   | 98          | 79          | 177           | 2.6  |
| Infection of kidney.....  | 5            | 3           | 8             | 0.4   | 5           | 1           | 6             | 0.09 |
| Calculus of kidney, ureter and lower urinary tract.....   | 1            | 0           | 1             | 0.06  | 0           | 0           | 0             | 0.0  |
| Hyperplasia of prostate.....  | 0            | 0           | 0             | 0.0   | 0           | 0           | 0             | 0.0  |
| Other diseases of genito-urinary system.....  | 8            | 9           | 17            | 0.9   | 14          | 12          | 26            | 0.4  |
| Pregnancy with abortive outcome....   | 0            | 0           | 0             | 0.0   | 0           | 0           | 0             | 0.0  |
| Hemorrhages related to pregnancy....  | 0            | 0           | 0             | 0.0   | 0           | 0           | 0             | 0.0  |
| Hypertension complicating pregnancy childbirth and puerperium.....  | 0            | 0           | 0             | 0.0   | 0           | 0           | 0             | 0.0  |
| Postpartum hemorrhage.....  | 0            | 0           | 0             | 0.0   | 0           | 0           | 0             | 0.0  |
| Normal delivery and other complications related to pregnancy, occurring in the course of labor delivery & puerperium... | 0            | 0           | 0             | 0.0   | 0           | 0           | 0             | 0.0  |
| Diseases of the skin and subcutaneous tissues.....  | 23           | 10          | 33            | 1.8   | 13          | 13          | 26            | 0.4  |
| Arthropathies, dorsopathies and rheumatism.....   | 7            | 5           | 12            | 0.7   | 1           | 0           | 1             | 0.01 |
| Osteopathies, chonoropathies and acquired musculoskeletal deformities.....  | 4            | 0           | 4             | 0.2   | 1           | 0           | 1             | 0.01 |
| Congenital Anomalies.....   | 1224         | 839         | 2063          | 113.5 | 173         | 135         | 308           | 4.6  |
| Birth trauma.....   | 2            | 4           | 6             | 0.3   | 0           | 0           | 0             | 0.0  |
| Birth injury and difficult labor.....   | 645          | 448         | 1093          | 60.1  | 0           | 0           | 0             | 0.0  |
| Respiratory conditions of fetus and newborn.....  | 3545         | 2440        | 5985          | 329.2 | 0           | 0           | 0             | 0.0  |
| Hemolytic diseases of fetus and newborn.....  | 35           | 29          | 64            | 3.5   | 0           | 0           | 0             | 0.0  |
| Hematological disorders of fetus and newborn.....   | 21           | 20          | 41            | 2.3   | 0           | 0           | 0             | 0.0  |
| Other causes of perinatal morbidity and mortality.....  | 4894         | 3495        | 8389          | 461.5 | 0           | 0           | 0             | 0.0  |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| C A U S E   | 5 - 9 YEARS |             |               |      | 10 - 14 YEARS |             |               |      |
|---|-------------|-------------|---------------|------|---------------|-------------|---------------|------|
|   | MALE        | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Cholelithiasis and other disorders of the biliary tract.....  | 0           | 0           | 0             | 0.0  | 1             | 1           | 2             | 0.03 |
| Other diseases of digestive system.....   | 91          | 56          | 147           | 1.8  | 67            | 30          | 97            | 1.3  |
| Nephritis, nephrotic syndrome and nephrosis.....  | 65          | 39          | 104           | 1.3  | 47            | 42          | 89            | 1.2  |
| Infection of kidney.....  | 3           | 2           | 5             | 0.06 | 4             | 3           | 7             | 0.09 |
| Calculus of kidney, ureter and lower urinary tract.....   | 0           | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Hyperplasia of prostate.....  | 0           | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Other diseases of genito-urinary system.....  | 12          | 3           | 15            | 0.2  | 8             | 2           | 10            | 0.1  |
| Pregnancy with abortive outcome....   | 0           | 0           | 0             | 0.0  | 0             | 8           | 8             | 0.1  |
| Hemorrhages related to pregnancy...   | 0           | 0           | 0             | 0.0  | 0             | 11          | 11            | 0.1  |
| Hypertension complicating pregnancy childbirth and puerperium.....  | 0           | 0           | 0             | 0.0  | 0             | 13          | 13            | 0.2  |
| Postpartum hemorrhage.....  | 0           | 0           | 0             | 0.0  | 0             | 7           | 7             | 0.09 |
| Normal delivery and other complications related to pregnancy, occurring in the course of labor delivery & puerperium... | 0           | 0           | 0             | 0.0  | 0             | 131         | 131           | 1.8  |
| Diseases of the skin and subcutaneous tissues.....  | 5           | 3           | 8             | 0.1  | 1             | 5           | 6             | 0.08 |
| Arthropathies, dorsopathies and rheumatism.....   | 0           | 0           | 0             | 0.0  | 1             | 3           | 4             | 0.05 |
| Osteopathies, chonoropathies and acquired musculoskeletal deformities.....  | 0           | 0           | 0             | 0.0  | 3             | 0           | 3             | 0.04 |
| Congenital Anomalies.....   | 1           | 0           | 1             | 0.01 | 42            | 35          | 77            | 1.0  |
| Birth trauma.....   | 54          | 42          | 96            | 1.2  | 0             | 0           | 0             | 0.0  |
| Birth injury and difficult labor.....   | 0           | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Respiratory conditions of fetus and newborn.....  | 0           | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Hemolytic diseases of fetus and newborn.....  | 0           | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Hematological disorders of fetus and newborn.....   | 0           | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Other causes of perinatal morbidity and mortality.....  | 0           | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| C A U S E   | 15 - 19 YEARS |             |               |      | 20 - 24 YEARS |             |               |      |
|---|---------------|-------------|---------------|------|---------------|-------------|---------------|------|
|   | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Cholelithiasis and other disorders of the biliary tract.....  | 0             | 1           | 1             | 0.02 | 2             | 0           | 2             | 0.03 |
| Other diseases of digestive system.....   | 92            | 46          | 138           | 2.1  | 229           | 40          | 269           | 4.6  |
| Nephritis, nephrotic syndrome and nephrosis.....  | 68            | 57          | 125           | 1.9  | 95            | 52          | 147           | 2.5  |
| Infection of kidney.....  | 5             | 6           | 11            | 0.2  | 2             | 8           | 10            | 0.2  |
| Calculus of kidney, ureter and lower urinary tract.....   | 0             | 0           | 0             | 0.0  | 1             | 0           | 1             | 0.02 |
| Hyperplasia of prostate.....  | 0             | 0           | 0             | 0.0  | 1             | 0           | 1             | 0.02 |
| Other diseases of genito-urinary system.....  | 8             | 11          | 19            | 0.3  | 13            | 21          | 34            | 0.6  |
| Pregnancy with abortive outcome.....  | 0             | 7           | 7             | 0.1  | 0             | 16          | 16            | 0.3  |
| Hemorrhages related to pregnancy.....   | 0             | 4           | 4             | 0.06 | 0             | 10          | 10            | 0.2  |
| Hypertension complicating pregnancy, childbirth and puerperium.....   | 0             | 12          | 12            | 0.2  | 0             | 34          | 34            | 0.6  |
| Postpartum hemorrhage.....  | 0             | 25          | 25            | 0.4  | 0             | 73          | 73            | 1.2  |
| Normal delivery and other complications related to pregnancy, occurring in the course of labor delivery & puerperium... | 0             | 12          | 12            | 0.2  | 0             | 36          | 36            | 0.6  |
| Diseases of the skin and subcutaneous tissues.....  | 7             | 7           | 14            | 0.2  | 7             | 6           | 13            | 0.2  |
| Arthropathies, dorsopathies and rheumatism.....   | 0             | 2           | 2             | 0.0  | 0             | 3           | 3             | 0.05 |
| Osteopathies, chonoropathies and acquired musculoskeletal deformities.....  | 0             | 0           | 0             | 0.0  | 3             | 2           | 5             | 0.09 |
| Congenital Anomalies.....   | 26            | 22          | 48            | 0.7  | 18            | 19          | 37            | 0.6  |
| Birth trauma.....   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Birth injury and difficult labor.....   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Respiratory conditions of fetus and newborn.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Hemolytic diseases of fetus and newborn.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Hematological disorders of fetus and newborn.....   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Other causes of perinatal morbidity and mortality.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| C A U S E   | 25 - 29 YEARS |             |               |      | 30 - 34 YEARS |             |               |      |
|---|---------------|-------------|---------------|------|---------------|-------------|---------------|------|
|   | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Cholelithiasis and other disorders of the biliary tract.....  | 1             | 1           | 2             | 0.04 | 3             | 5           | 8             | 0.2  |
| Other diseases of digestive system.....   | 270           | 62          | 332           | 6.4  | 265           | 46          | 311           | 6.9  |
| Nephritis, nephrotic syndrome and nephrosis.....  | 114           | 84          | 198           | 3.8  | 128           | 96          | 224           | 5.0  |
| Infection of kidney.....  | 7             | 6           | 13            | 0.3  | 8             | 14          | 22            | 0.5  |
| Calculus of kidney, ureter and lower urinary tract.....   | 2             | 0           | 2             | 0.04 | 1             | 5           | 6             | 0.1  |
| Hyperplasia of prostate.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Other diseases of genito-urinary system.....  | 7             | 22          | 29            | 0.6  | 14            | 18          | 32            | 0.7  |
| Pregnancy with abortive outcome....   | 0             | 19          | 19            | 0.4  | 0             | 20          | 20            | 0.4  |
| Hemorrhages related to pregnancy...   | 0             | 14          | 14            | 0.3  | 0             | 23          | 23            | 0.5  |
| Hypertension complicating pregnancy, childbirth and puerperium.....   | 0             | 32          | 32            | 0.6  | 0             | 32          | 32            | 0.7  |
| Postpartum hemorrhage.....  | 0             | 91          | 91            | 1.8  | 0             | 89          | 89            | 2.0  |
| Normal delivery and other complications related to pregnancy, occurring in the course of labor delivery & puerperium... | 0             | 40          | 40            | 0.8  | 0             | 45          | 45            | 1.0  |
| Diseases of the skin and subcutaneous tissues.....  | 1             | 8           | 9             | 0.2  | 4             | 7           | 11            | 0.2  |
| Arthropathies, dorsopathies and rheumatism.....   | 4             | 3           | 7             | 0.1  | 3             | 1           | 4             | 0.09 |
| Osteopathies, chondropathies and acquired musculoskeletal deformities.....  | 2             | 1           | 3             | 0.1  | 0             | 0           | 0             | 0.0  |
| Congenital Anomalies.....   | 8             | 9           | 17            | 0.3  | 9             | 6           | 15            | 0.3  |
| Birth trauma.....   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Birth injury and difficult labor.....   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Respiratory conditions of fetus and newborn.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Hemolytic diseases of fetus and newborn.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Hematological disorders of fetus and newborn.....   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Other causes of perinatal morbidity and mortality.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| C A U S E   | 35 - 39 YEARS |             |               |      | 40 - 44 YEARS |             |               |      |
|---|---------------|-------------|---------------|------|---------------|-------------|---------------|------|
|   | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Cholelithiasis and other disorders of the biliary tract.....  | 3             | 3           | 6             | 0.2  | 3             | 6           | 9             | 0.3  |
| Other diseases of digestive system.....   | 233           | 57          | 290           | 7.8  | 208           | 48          | 256           | 8.8  |
| Nephritis, nephrotic syndrome and nephrosis.....  | 134           | 101         | 235           | 6.3  | 150           | 100         | 250           | 8.6  |
| Infection of kidney.....  | 9             | 8           | 17            | 0.5  | 19            | 10          | 29            | 1.0  |
| Calculus of kidney, ureter & lower urinary tract.....   | 2             | 1           | 3             | 0.08 | 2             | 1           | 3             | 0.1  |
| Hyperplasia of prostate.....  | 0             | 0           | 0             | 0.0  | 1             | 0           | 1             | 0.03 |
| Other diseases of genito-urinary system.....  | 15            | 13          | 28            | 0.8  | 12            | 14          | 26            | 0.9  |
| Pregnancy with abortive outcome....   | 0             | 12          | 12            | 0.3  | 0             | 9           | 9             | 0.3  |
| Hemorrhages related to pregnancy....  | 0             | 27          | 27            | 0.7  | 0             | 13          | 13            | 0.4  |
| Hypertension complicating pregnancy childbirth and puerperium.....  | 0             | 37          | 37            | 1.0  | 0             | 25          | 25            | 0.9  |
| Postpartum hemorrhage.....  | 0             | 78          | 78            | 2.1  | 0             | 41          | 41            | 1.4  |
| Normal delivery and other complications related to pregnancy, occurring in the course of labor delivery & puerperium... | 0             | 46          | 46            | 1.2  | 0             | 21          | 21            | 0.7  |
| Diseases of the skin and subcutaneous tissues.....  | 6             | 10          | 16            | 0.4  | 1             | 8           | 9             | 0.3  |
| Arthropathies, dorsopathies and rheumatism.....   | 5             | 3           | 8             | 0.2  | 3             | 4           | 7             | 0.2  |
| Osteopathies, chonoropathies and acquired musculoskeletal deformities.....  | 1             | 0           | 1             | 0.03 | 1             | 0           | 1             | 0.03 |
| Congenital Anomalies.....   | 5             | 7           | 12            | 0.3  | 1             | 1           | 2             | 0.07 |
| Birth trauma.....   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Birth injury and difficult labor.....   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Respiratory conditions of fetus and newborn.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Hemolytic diseases of fetus and newborn.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Hematological disorders of fetus and newborn.....   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Other causes of perinatal morbidity and mortality.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| C A U S E  | 45 - 49 YEARS |             |               |      | 50 - 54 YEARS |             |               |      |
|--|---------------|-------------|---------------|------|---------------|-------------|---------------|------|
|  | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Cholelithiasis and other disorders of the biliary tract.....   | 7             | 3           | 10            | 0.4  | 5             | 9           | 14            | 0.7  |
| Other diseases of digestive system.....  | 197           | 45          | 242           | 10.4 | 166           | 59          | 225           | 11.7 |
| Nephritis, nephrotic syndrome and nephrosis.....   | 166           | 82          | 248           | 10.7 | 206           | 133         | 339           | 17.6 |
| Infection of kidney.....   | 15            | 7           | 22            | 0.9  | 16            | 13          | 29            | 1.5  |
| Calculus of kidney, ureter and lower urinary tract.....  | 3             | 0           | 3             | 0.1  | 3             | 3           | 6             | 0.3  |
| Hyperplasia of prostate.....   | 2             | 0           | 2             | 0.09 | 1             | 0           | 1             | 0.05 |
| Other diseases of genito-urinary system.....   | 25            | 18          | 43            | 1.9  | 27            | 24          | 51            | 2.7  |
| Pregnancy with abortive outcome....  | 0             | 3           | 3             | 0.1  | 0             | 9           | 9             | 0.5  |
| Hemorrhages related to pregnancy....   | 0             | 2           | 2             | 0.09 | 0             | 0           | 0             | 0.0  |
| Hypertension complicating pregnancy childbirth and puerperium.....   | 0             | 18          | 18            | 0.8  | 0             | 138         | 138           | 7.2  |
| Postpartum hemorrhage.....   | 0             | 3           | 3             | 0.1  | 0             | 7           | 7             | 0.4  |
| Normal delivery and other complications related to pregnancy, occurring in the course of labor delivery & puerperium.... | 0             | 3           | 3             | 0.1  | 0             | 11          | 11            | 0.6  |
| Diseases of the skin and subcutaneous tissues.....   | 11            | 7           | 18            | 0.8  | 8             | 5           | 13            | 0.7  |
| Arthropathies, dorsopathies and rheumatism.....  | 4             | 2           | 6             | 0.3  | 15            | 1           | 16            | 0.8  |
| Osteopathies, chonoropathies and acquired musculoskeletal deformities.....   | 2             | 0           | 2             | 0.09 | 1             | 1           | 2             | 0.1  |
| Congenital Anomalies.....  | 1             | 3           | 4             | 0.2  | 3             | 1           | 4             | 0.2  |
| Birth trauma.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Birth injury and difficult labor.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Respiratory conditions of fetus and newborn.....   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Hemolytic diseases of fetus and newborn.....   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Hematological disorders of fetus and newborn.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Other causes of perinatal morbidity and mortality.....   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| C A U S E   | 55 - 59 YEARS |             |               |      | 60 - 64 YEARS |             |               |      |
|---|---------------|-------------|---------------|------|---------------|-------------|---------------|------|
|   | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Cholelithiasis and other disorders of the biliary tract.....  | 7             | 5           | 12            | 0.8  | 6             | 2           | 8             | 0.7  |
| Other diseases of digestive system.....   | 184           | 54          | 238           | 15.6 | 160           | 74          | 234           | 18.5 |
| Nephritis, nephrotic syndrome and nephrosis.....  | 222           | 133         | 355           | 23.2 | 260           | 174         | 434           | 36.3 |
| Infection of kidney.....  | 22            | 13          | 35            | 2.3  | 22            | 13          | 35            | 2.9  |
| Calculus of kidney, ureter and lower urinary tract.....   | 1             | 1           | 2             | 0.1  | 7             | 1           | 8             | 0.7  |
| Hyperplasia of prostate.....  | 1             | 0           | 1             | 0.07 | 8             | 0           | 8             | 0.7  |
| Other diseases of genito-urinary system.....  | 36            | 28          | 64            | 4.2  | 39            | 23          | 62            | 5.2  |
| Pregnancy with abortive outcome.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Hemorrhages related to pregnancy...   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Hypertension complicating pregnancy childbirth and puerperium.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Postpartum hemorrhage.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Normal delivery and other complications related to pregnancy, occurring in the course of labor delivery & puerperium... | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Diseases of the skin and subcutaneous tissues.....  | 6             | 8           | 14            | 0.9  | 7             | 8           | 15            | 1.3  |
| Arthropathies, dorsopathies and rheumatism.....   | 8             | 5           | 13            | 0.9  | 24            | 5           | 29            | 2.4  |
| Osteopathies, chonoropathies and acquired musculoskeletal deformities.....  | 3             | 2           | 5             | 0.3  | 2             | 2           | 4             | 0.3  |
| Congenital Anomalies.....   | 3             | 2           | 5             | 0.3  | 4             | 4           | 8             | 0.7  |
| Birth trauma.....   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Birth injury and difficult labor.....   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Respiratory conditions of fetus and newborn.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Hemolytic diseases of fetus and newborn.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Hematological disorders of fetus and newborn.....   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Other causes of perinatal morbidity and mortality.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| C A U S E   | 65 - 69 YEARS |             |               |      | 70 YEARS & OVER |             |               |       |
|---|---------------|-------------|---------------|------|-----------------|-------------|---------------|-------|
|   | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE            | FE-<br>MALE | BOTH<br>SEXES | RATE  |
| Cholelithiasis and other disorders of the biliary tract.....  | 9             | 5           | 14            | 1.6  | 23              | 33          | 56            | 4.0   |
| Other diseases of digestive system.....   | 122           | 79          | 201           | 22.5 | 341             | 252         | 593           | 42.4  |
| Nephritis, nephrotic syndrome and nephrosis.....  | 242           | 186         | 428           | 47.8 | 1004            | 732         | 1736          | 124.1 |
| Infection of kidney.....  | 21            | 14          | 35            | 3.9  | 121             | 84          | 205           | 14.7  |
| Calculus of kidney, ureter and lower urinary tract.....   | 4             | 2           | 6             | 0.7  | 16              | 8           | 24            | 1.7   |
| Hyperplasia of prostate.....  | 9             | 0           | 9             | 1.0  | 30              | 0           | 30            | 2.1   |
| Other diseases of genito-urinary system.....  | 40            | 24          | 64            | 7.2  | 186             | 132         | 318           | 22.7  |
| Pregnancy with abortive outcome....   | 0             | 0           | 0             | 0.0  | 0               | 0           | 0             | 0.0   |
| Hemorrhages related to pregnancy...   | 0             | 0           | 0             | 0.0  | 0               | 0           | 0             | 0.0   |
| Hypertension complicating pregnancy childbirth and puerperium.....  | 0             | 0           | 0             | 0.0  | 0               | 0           | 0             | 0.0   |
| Postpartum hemorrhage.....  | 0             | 0           | 0             | 0.0  | 0               | 0           | 0             | 0.0   |
| Normal delivery and other complications related to pregnancy, occurring in the course of labor delivery & puerperium... | 0             | 0           | 0             | 0.0  | 0               | 0           | 0             | 0.0   |
| Diseases of the skin and subcutaneous tissues.....  | 16            | 5           | 21            | 2.3  | 45              | 53          | 98            | 7.0   |
| Arthropathies, dorsopathies and rheumatism.....   | 23            | 14          | 37            | 4.1  | 159             | 115         | 274           | 19.6  |
| Osteopathies, chonoropathies and acquired musculoskeletal deformities.....  | 4             | 5           | 9             | 1.0  | 11              | 12          | 23            | 1.6   |
| Congenital Anomalies.....   | 4             | 2           | 6             | 0.7  | 13              | 27          | 40            | 2.9   |
| Birth trauma.....   | 0             | 0           | 0             | 0.0  | 0               | 0           | 0             | 0.0   |
| Birth injury and difficult labor.....   | 0             | 0           | 0             | 0.0  | 0               | 0           | 0             | 0.0   |
| Respiratory conditions of fetus and newborn.....  | 0             | 0           | 0             | 0.0  | 0               | 0           | 0             | 0.0   |
| Hemolytic diseases of fetus and newborn.....  | 0             | 0           | 0             | 0.0  | 0               | 0           | 0             | 0.0   |
| Hematological disorders of fetus and newborn.....   | 0             | 0           | 0             | 0.0  | 0               | 0           | 0             | 0.0   |
| Other causes of perinatal morbidity and mortality.....  | 0             | 0           | 0             | 0.0  | 0               | 0           | 0             | 0.0   |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE & SEX  
 No. & Rate/100,000 Pop.  
 PHILIPPINES  
 1990

| C A U S E   | NOT STATED |        |               | RATE |
|---|------------|--------|---------------|------|
|   | MALE       | FEMALE | BOTH<br>SEXES |      |
| Cholelithiasis and other disorders of<br>of the biliary tract.....  | 0          | 0      | 0             | -    |
| Other diseases of digestive<br>system.....  | 0          | 0      | 0             | -    |
| Nephritis, nephrotic syndrome and<br>nephrosis.....   | 0          | 0      | 0             | -    |
| Infection of kidney.....  | 0          | 0      | 0             | -    |
| Calculus of kidney, ureter and lower<br>urinary tract.....  | 0          | 0      | 0             | -    |
| Hyperplasia of prostate.....  | 0          | 0      | 0             | -    |
| Other diseases of genito-urinary<br>system.....   | 0          | 0      | 0             | -    |
| Pregnancy with abortive outcome.....  | 0          | 0      | 0             | -    |
| Hemorrhages related to pregnancy.....   | 0          | 0      | 0             | -    |
| Hypertension complicating pregnancy,<br>childbirth and puerperium.....  | 0          | 0      | 0             | -    |
| Postpartum hemorrhage.....  | 0          | 0      | 0             | -    |
| Normal delivery and other complications<br>related to pregnancy, occurring<br>in the course of labor,<br>delivery and puerperium..... | 0          | 0      | 0             | -    |
| Diseases of the skin and subcutaneous<br>tissues.....   | 0          | 0      | 0             | -    |
| Arthropathies, dorsopathies and<br>rheumatism.....  | 0          | 0      | 0             | -    |
| Osteopathies, chonoropathies<br>and acquired musculoskeletal<br>deformities.....  | 0          | 0      | 0             | -    |
| Congenital Anomalies.....   | 0          | 0      | 0             | -    |
| Birth trauma.....   | 0          | 0      | 0             | -    |
| Birth injury and difficult<br>labor.....  | 0          | 0      | 0             | -    |
| Respiratory conditions of fetus<br>and newborn.....   | 0          | 0      | 0             | -    |
| Hemolytic diseases of fetus<br>and newborn.....   | 0          | 0      | 0             | -    |
| Hematological disorders of fetus<br>and newborn.....  | 0          | 0      | 0             | -    |
| Other causes of perinatal<br>morbidity and mortality.....   | 0          | 0      | 0             | -    |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE & SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| C A U S E   | ALL AGES |        |               |      |
|---|----------|--------|---------------|------|
|   | MALE     | FEMALE | BOTH<br>SEXES | RATE |
| Senility without mention of psychoses.(797)   | 4773     | 6434   | 11207         | 18.1 |
| Symptoms, signs and ill-defined conditions.....(780-796;798-799)  | 5795     | 3539   | 9334          | 15.0 |
| Fractures, dislocations, sprains and strains.....(800-848)  | 635      | 239    | 874           | 1.4  |
| Intracranial injury, excluding those with skull fracture....((850-854;950-957)  | 778      | 303    | 1081          | 1.7  |
| Internal injury of chest, abdomen and pelvis.....(860-869)  | 135      | 83     | 218           | 0.4  |
| Open wounds.....(870-887;890-897)   | 411      | 61     | 472           | 0.8  |
| Burns.....(940-949)   | 198      | 187    | 385           | 0.6  |
| Poisoning and toxic effects.....(960-989)   | 135      | 35     | 170           | 0.3  |
| All others, and unspecified effects of external causes.(900-939;958;959;990-999)  | 546      | 209    | 755           | 1.2  |
| Railway accidents.....(E800-E807)   | 23       | 15     | 38            | 0.06 |
| Motor vehicle traffic accidents.(E810-E819)   | 2013     | 876    | 2889          | 4.7  |
| Water and transport accidents...(E830-E838)   | 5        | 2      | 7             | 0.01 |
| Air & space transport accidents.(E840-E845)   | 16       | 12     | 28            | 0.05 |
| Other transport accidents.....(E820-E829;E846-E848)   | 8        | 4      | 12            | 0.02 |
| Accidental poisoning, all kinds.(E850-E869)   | 59       | 19     | 78            | 0.1  |
| Accidental falls.....(E880-E888)  | 385      | 121    | 506           | 0.8  |
| Accidents caused by fires and flames.....(E890-E899)  | 26       | 26     | 52            | 0.08 |
| Accidents due to natural and environmental.....(E900-E909)  | 787      | 490    | 1277          | 2.1  |
| Accidents caused by submersion,suffocation and foreign bodies.....(E910-E915)   | 1839     | 688    | 2527          | 4.1  |
| All other accidents, including adverse effects in therapeutic use of drugs medicaments and other biological substances, and late effects of accidental injury.....(E870-E876;E878;E879;E916-E949) | 513      | 126    | 639           | 1.0  |
| Suicide & self-inflicted injury.(E950-E959)   | 278      | 124    | 402           | 0.6  |
| Legal intervention.....(E970-E978)  | 22       | 8      | 30            | 0.05 |
| Homicide and injury purposely inflicted by other persons....(E960-E969)   | 91       | 12     | 103           | 0.2  |
| Injury undetermined whether accidentally or purposely inflicted.....(E980-E989)   | 14101    | 1375   | 15476         | 24.9 |
| Injury resulting from operations of war.....(E990-E999)   | 27       | 8      | 35            | 0.06 |

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & rate/100,000 Pop.  
PHILIPPINES  
1990

| C A U S E   | UNDER 1 YEAR |             |               |      | 1 - 4 YEARS |             |               |      |
|---|--------------|-------------|---------------|------|-------------|-------------|---------------|------|
|   | MALE         | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE        | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Senility w/o mention of psychoses..   | 0            | 0           | 0             | 0.0  | 0           | 0           | 0             | 0.0  |
| Symptoms, signs and ill-defined conditions.....   | 771          | 517         | 1288          | 70.8 | 476         | 386         | 862           | 12.9 |
| Fractures, dislocations, sprains and strains.....   | 4            | 4           | 8             | 0.4  | 16          | 12          | 28            | 0.4  |
| Intracranial injury, excluding those with skull fracture.....   | 28           | 12          | 40            | 2.2  | 27          | 24          | 51            | 0.8  |
| Internal injury of chest, abdomen and pelvis.....   | 6            | 1           | 7             | 0.4  | 2           | 3           | 5             | 0.07 |
| Open wounds.....  | 0            | 3           | 3             | 0.2  | 5           | 2           | 7             | 0.1  |
| Burns.....  | 16           | 17          | 33            | 1.8  | 45          | 31          | 76            | 1.1  |
| Poisoning and toxic effects.....  | 5            | 3           | 8             | 0.4  | 2           | 5           | 7             | 0.1  |
| All others, and unspecified effects of external causes.....   | 17           | 15          | 32            | 1.8  | 27          | 20          | 47            | 0.7  |
| Railway accidents.....  | 1            | 1           | 2             | 0.1  | 1           | 2           | 3             | 0.04 |
| Motor vehicle traffic accidents....   | 3            | 8           | 11            | 0.6  | 59          | 49          | 108           | 1.6  |
| Water and transport accidents.....  | 0            | 0           | 0             | 0.0  | 0           | 0           | 0             | 0.0  |
| Air & space transport accidents....   | 0            | 0           | 0             | 0.0  | 0           | 0           | 0             | 0.0  |
| Other transport accidents.....  | 0            | 0           | 0             | 0.0  | 0           | 0           | 0             | 0.0  |
| Accidental poisoning, all kinds....   | 0            | 1           | 1             | 0.06 | 2           | 3           | 5             | 0.07 |
| Accidental falls.....   | 12           | 10          | 22            | 1.2  | 17          | 11          | 28            | 0.4  |
| Accidents caused by fires & flames.   | 3            | 4           | 7             | 0.4  | 5           | 4           | 9             | 0.1  |
| Accidents due to natural and environmental.....   | 12           | 12          | 24            | 1.3  | 45          | 26          | 71            | 1.1  |
| Accidents caused by submersion, suffocation & foreign bodies.....   | 27           | 26          | 53            | 2.9  | 329         | 221         | 550           | 8.2  |
| All other accidents, including adverse effects in therapeutic use of drugs, medicaments and other biological substances, & late effects of accidental injury..... | 1            | 2           | 3             | 0.2  | 10          | 7           | 17            | 0.3  |
| Suicide and self-inflicted injury.....  | 0            | 0           | 0             | 0.0  | 0           | 0           | 0             | 0.0  |
| Legal intervention.....   | 1            | 0           | 1             | 0.06 | 1           | 0           | 1             | 0.01 |
| Homicide and injury purposely inflicted by other persons.....   | 3            | 1           | 4             | 0.2  | 1           | 0           | 1             | 0.01 |
| Injury undetermined whether accidentally or purposely inflicted.....  | 16           | 9           | 25            | 1.4  | 53          | 24          | 77            | 1.2  |
| Injury resulting from operations of war.....  | 0            | 0           | 0             | 0.0  | 2           | 0           | 2             | 0.03 |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & rate/100,000 Pop.  
PHILIPPINES  
1990

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| C A U S E   | 5 - 9 YEARS |             |               |      | 10 - 14 YEARS |             |               |      |
|---|-------------|-------------|---------------|------|---------------|-------------|---------------|------|
|   | MALE        | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Senility w/o mention of psychoses..   | 0           | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Symptoms, signs and ill-defined conditions.....   | 210         | 148         | 358           | 4.4  | 128           | 98          | 226           | 3.0  |
| Fractures, dislocations, sprains and strains.....   | 30          | 23          | 53            | 0.7  | 33            | 14          | 47            | 0.6  |
| Intracranial injury, excluding those with skull fracture.....   | 35          | 23          | 58            | 0.7  | 39            | 20          | 59            | 0.8  |
| Internal injury of chest, abdomen and pelvis.....   | 4           | 3           | 7             | 0.1  | 13            | 9           | 22            | 0.3  |
| Open wounds.....  | 11          | 5           | 16            | 0.2  | 6             | 1           | 7             | 0.1  |
| Burns.....  | 21          | 27          | 48            | 0.6  | 8             | 5           | 13            | 0.2  |
| Poisoning and toxic effects.....  | 1           | 0           | 1             | 0.01 | 1             | 1           | 2             | 0.03 |
| All others, and unspecified effects of external causes.....   | 18          | 11          | 29            | 0.4  | 26            | 14          | 40            | 0.5  |
| Railway accidents.....  | 0           | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Motor vehicle traffic accidents....   | 219         | 140         | 359           | 4.4  | 124           | 63          | 187           | 2.5  |
| Water and transport accidents.....  | 1           | 1           | 2             | 0.02 | 0             | 0           | 0             | 0.0  |
| Air & space transport accidents....   | 0           | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Other transport accidents.....  | 0           | 0           | 0             | 0.0  | 2             | 1           | 3             | 0.04 |
| Accidental poisoning, all kinds....   | 2           | 0           | 2             | 0.02 | 2             | 1           | 3             | 0.04 |
| Accidental falls.....   | 25          | 10          | 35            | 0.4  | 25            | 7           | 32            | 0.4  |
| Accidents caused by fires & flames.   | 2           | 1           | 3             | 0.04 | 2             | 2           | 4             | 0.1  |
| Accidents due to natural and environmental.....   | 80          | 49          | 129           | 1.6  | 98            | 48          | 146           | 2.0  |
| Accidents caused by submersion, suffocation & foreign bodies.....   | 263         | 118         | 382           | 4.7  | 223           | 95          | 318           | 4.3  |
| All other accidents, including adverse effects in therapeutic use of drugs, medicaments and other biological substances, & late effects of accidental injury..... | 27          | 10          | 37            | 0.5  | 35            | 13          | 48            | 0.6  |
| Suicide and self-inflicted injury.....  | 0           | 0           | 0             | 0    | 0             | 0           | 0             | 0.0  |
| Legal intervention.....   | 2           | 3           | 5             | 0.06 | 4             | 2           | 6             | 0.1  |
| Homicide and injury purposely inflicted by other persons.....   | 1           | 1           | 2             | 0.02 | 5             | 2           | 7             | 0.1  |
| Injury undetermined whether accidentally or purposely inflicted.....  | 52          | 46          | 98            | 1.2  | 122           | 57          | 179           | 2.4  |
| Injury resulting from operations of war.....  | 3           | 0           | 3             | 0.04 | 1             | 1           | 2             | 0.03 |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & rate/100,000 Pop.  
PHILIPPINES  
1990

| C A U S E   | 15 - 19 YEARS |             |               |      | 20 - 24 YEARS |             |               |      |
|---|---------------|-------------|---------------|------|---------------|-------------|---------------|------|
|   | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Senility w/o mention of psychoses..   | 0             | 0           | 0             | 0    | 0             | 0           | 0             | 0.0  |
| Symptoms, signs and ill-defined conditions.....   | 230           | 106         | 336           | 5.1  | 354           | 188         | 542           | 9.2  |
| Fractures, dislocations, sprains and strains.....   | 45            | 15          | 60            | 0.9  | 59            | 7           | 66            | 1.1  |
| Intracranial injury, excluding those with skull fracture.....   | 44            | 16          | 60            | 0.9  | 51            | 23          | 74            | 1.3  |
| Internal injury of chest, abdomen and pelvis.....   | 20            | 23          | 43            | 0.7  | 15            | 11          | 26            | 0.4  |
| Open wounds.....  | 18            | 5           | 23            | 0.4  | 46            | 5           | 51            | 0.9  |
| Burns.....  | 10            | 16          | 26            | 0.4  | 18            | 11          | 29            | 0.5  |
| Poisoning and toxic effects.....  | 10            | 7           | 17            | 0.3  | 12            | 3           | 15            | 0.3  |
| All others, and unspecified effects of external causes.....   | 47            | 19          | 66            | 1.0  | 70            | 16          | 86            | 1.5  |
| Railway accidents.....  | 0             | 0           | 0             | 0.0  | 6             | 0           | 6             | 0.1  |
| Motor vehicle traffic accidents....   | 146           | 59          | 205           | 3.1  | 221           | 58          | 279           | 4.8  |
| Water and transport accidents.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Air & space transport accidents....   | 0             | 1           | 1             | 0.02 | 1             | 0           | 1             | 0.02 |
| Other transport accidents.....  | 1             | 1           | 2             | 0.03 | 0             | 1           | 1             | 0.02 |
| Accidental poisoning, all kinds....   | 12            | 3           | 15            | 0.2  | 11            | 5           | 16            | 0.3  |
| Accidental falls.....   | 27            | 4           | 31            | 0.5  | 13            | 1           | 14            | 0.2  |
| Accidents caused by fires & flames.   | 1             | 1           | 2             | 0.03 | 2             | 1           | 3             | 0.05 |
| Accidents due to natural and environmental.....   | 85            | 36          | 121           | 1.8  | 71            | 47          | 118           | 2.0  |
| Accidents caused by submersion, suffocation & foreign bodies.....   | 173           | 39          | 212           | 3.2  | 174           | 29          | 203           | 3.5  |
| All other accidents, including adverse effects in therapeutic use of drugs, medicaments and other biological substances, & late effects of accidental injury..... | 61            | 10          | 71            | 1.1  | 62            | 13          | 75            | 1.3  |
| Suicide and self-inflicted injury.....  | 42            | 40          | 82            | 1.2  | 67            | 23          | 90            | 1.5  |
| Legal intervention.....   | 1             | 1           | 2             | 0.03 | 2             | 0           | 2             | 0.03 |
| Homicide and injury purposely inflicted by other persons.....   | 5             | 1           | 6             | 0.1  | 17            | 0           | 17            | 0.3  |
| Injury undetermined whether accidentally or purposely inflicted.....  | 1010          | 162         | 1172          | 17.9 | 2410          | 197         | 2607          | 44.5 |
| Injury resulting from operations of war.....  | 3             | 0           | 3             | 0.05 | 4             | 1           | 5             | 0.08 |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| C A U S E   | 25 - 29 YEARS |             |               |      | 30 - 34 YEARS |             |               |      |
|---|---------------|-------------|---------------|------|---------------|-------------|---------------|------|
|   | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Senility w/o mention of psychoses..   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Symptoms, signs and ill-defined conditions.....   | 394           | 195         | 589           | 11.4 | 323           | 155         | 478           | 10.7 |
| Fractures, dislocations, sprains and strains.....   | 55            | 7           | 62            | 1.2  | 77            | 11          | 88            | 2.0  |
| Intracranial injury, excluding those with skull fracture.....   | 90            | 13          | 103           | 2.0  | 79            | 14          | 93            | 2.1  |
| Internal injury of chest, abdomen and pelvis.....   | 16            | 5           | 21            | 0.4  | 13            | 5           | 18            | 0.4  |
| Open wounds.....  | 55            | 3           | 58            | 1.1  | 60            | 5           | 65            | 1.4  |
| Burns.....  | 15            | 13          | 28            | 0.5  | 12            | 7           | 19            | 0.4  |
| Poisoning and toxic effects.....  | 11            | 2           | 13            | 0.3  | 12            | 2           | 14            | 0.3  |
| All others, and unspecified effects of external causes.....   | 78            | 17          | 95            | 1.8  | 47            | 5           | 52            | 1.2  |
| Railway accidents.....  | 1             | 0           | 1             | 0.0  | 3             | 0           | 3             | 0.07 |
| Motor vehicle traffic accidents....   | 212           | 58          | 270           | 5.2  | 206           | 45          | 251           | 5.6  |
| Water and transport accidents.....  | 2             | 1           | 3             | 0.06 | 0             | 0           | 0             | 0.0  |
| Air & space transport accidents....   | 1             | 2           | 3             | 0.06 | 2             | 0           | 2             | 0.04 |
| Other transport accidents.....  | 2             | 0           | 2             | 0.04 | 1             | 0           | 1             | 0.02 |
| Accidental poisoning, all kinds....   | 6             | 1           | 7             | 0.1  | 7             | 1           | 8             | 0.2  |
| Accidental falls.....   | 20            | 2           | 22            | 0.4  | 28            | 6           | 34            | 0.8  |
| Accidents caused by fires & flames.   | 2             | 1           | 3             | 0.06 | 1             | 1           | 2             | 0.04 |
| Accidents due to natural and environmental.....   | 73            | 47          | 120           | 2.3  | 60            | 32          | 92            | 2.1  |
| Accidents caused by submersion, suffocation & foreign bodies.....   | 135           | 25          | 160           | 3.1  | 120           | 25          | 145           | 3.2  |
| All other accidents, including adverse effects in therapeutic use of drugs, medicaments and other biological substances, & late effects of accidental injury..... | 78            | 8           | 86            | 1.7  | 49            | 15          | 64            | 1.4  |
| Suicide and self-inflicted injury.....  | 30            | 22          | 52            | 1.0  | 36            | 5           | 41            | 0.9  |
| Legal intervention.....   | 4             | 0           | 4             | 0.1  | 4             | 0           | 4             | 0.09 |
| Homicide and injury purposely inflicted by other persons.....   | 14            | 0           | 14            | 0.3  | 15            | 0           | 15            | 0.3  |
| Injury undetermined whether accidentally or purposely inflicted.....  | 2601          | 167         | 2768          | 53.5 | 2186          | 147         | 2333          | 52.0 |
| Injury resulting from operations of war.....  | 4             | 0           | 4             | 0.08 | 0             | 0           | 0             | 0.0  |

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| C A U S E   | 35 - 39 YEARS |             |               |      | 40 - 44 YEARS |             |               |      |
|---|---------------|-------------|---------------|------|---------------|-------------|---------------|------|
|   | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Senility w/o mention of psychoses..   | 0             | 0           | 0             | 0    | 0             | 0           | 0             | 0.0  |
| Symptoms, signs and ill-defined conditions.....   | 329           | 149         | 478           | 12.8 | 305           | 134         | 439           | 15.1 |
| Fractures, dislocations, sprains and strains.....   | 67            | 13          | 80            | 2.1  | 49            | 18          | 67            | 2.3  |
| Intracranial injury, excluding those with skull fracture.....   | 57            | 16          | 73            | 2.0  | 60            | 12          | 72            | 2.5  |
| Internal injury of chest, abdomen and pelvis.....   | 8             | 4           | 12            | 0.3  | 7             | 5           | 12            | 0.4  |
| Open wounds.....  | 43            | 5           | 48            | 1.3  | 29            | 3           | 32            | 1.1  |
| Burns.....  | 8             | 10          | 18            | 0.5  | 7             | 5           | 12            | 0.4  |
| Poisoning and toxic effects.....  | 19            | 1           | 20            | 0.5  | 14            | 0           | 14            | 0.5  |
| All others, and unspecified effects of external causes.....   | 39            | 16          | 55            | 1.5  | 29            | 7           | 36            | 1.2  |
| Railway accidents.....  | 4             | 1           | 5             | 0.1  | 2             | 2           | 4             | 0.1  |
| Motor vehicle traffic accidents....   | 178           | 68          | 246           | 6.6  | 125           | 43          | 168           | 5.8  |
| Water and transport accidents.....  | 0             | 0           | 0             | 0.0  | 2             | 1           | 3             | 0.1  |
| Air & space transport accidents....   | 3             | 2           | 5             | 0.1  | 0             | 3           | 3             | 0.1  |
| Other transport accidents.....  | 2             | 0           | 2             | 0.05 | 0             | 0           | 0             | 0.0  |
| Accidental poisoning, all kinds....   | 6             | 0           | 6             | 0.2  | 4             | 0           | 4             | 0.1  |
| Accidental falls.....   | 15            | 4           | 19            | 0.5  | 21            | 2           | 23            | 0.8  |
| Accidents caused by fires & flames..  | 1             | 1           | 2             | 0.05 | 1             | 3           | 4             | 0.1  |
| Accidents due to natural and environmental.....   | 62            | 29          | 91            | 2.4  | 42            | 26          | 68            | 2.3  |
| Accidents caused by submersion, suffocation & foreign bodies.....   | 81            | 17          | 98            | 2.6  | 64            | 12          | 76            | 2.6  |
| All other accidents, including adverse effects in therapeutic use of drugs, medicaments and other biological substances, & late effects of accidental injury..... | 50            | 8           | 58            | 1.6  | 30            | 5           | 35            | 1.2  |
| Suicide and self-inflicted injury.....  | 23            | 4           | 27            | 0.7  | 25            | 8           | 33            | 1.1  |
| Legal intervention.....   | 1             | 0           | 1             | 0.03 | 1             | 1           | 2             | 0.07 |
| Homicide and injury purposely inflicted by other persons.....   | 10            | 0           | 10            | 0.3  | 6             | 1           | 7             | 0.2  |
| Injury undetermined whether accidentally or purposely inflicted.....  | 1767          | 89          | 1866          | 50.0 | 1248          | 94          | 1342          | 46.1 |
| Injury resulting from operations of war.....  | 2             | 0           | 2             | 0.05 | 2             | 2           | 4             | 0.1  |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & rate/100,000 Pop.  
PHILIPPINES  
1990

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| C A U S E   | 45 - 49 YEARS |             |               |      | 50 - 54 YEARS |             |               |      |
|---|---------------|-------------|---------------|------|---------------|-------------|---------------|------|
|   | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Senility w/o mention of psychoses..   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Symptoms, signs and ill-defined conditions.....   | 273           | 108         | 381           | 16.4 | 305           | 125         | 430           | 22.3 |
| Fractures, dislocations, sprains and strains.....   | 45            | 9           | 54            | 2.3  | 31            | 15          | 46            | 2.4  |
| Intracranial injury, excluding those with skull fracture.....   | 44            | 13          | 57            | 2.5  | 48            | 12          | 60            | 3.1  |
| Internal injury of chest, abdomen and pelvis.....   | 7             | 5           | 12            | 0.5  | 5             | 2           | 7             | 0.4  |
| Open wounds.....  | 29            | 3           | 32            | 1.4  | 32            | 3           | 35            | 1.8  |
| Burns.....  | 8             | 5           | 13            | 0.6  | 5             | 5           | 10            | 0.5  |
| Poisoning and toxic effects.....  | 16            | 1           | 17            | 0.7  | 12            | 3           | 15            | 0.8  |
| All others, and unspecified effects of external causes.....   | 33            | 7           | 40            | 1.7  | 25            | 5           | 30            | 1.6  |
| Railway accidents.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Motor vehicle traffic accidents....   | 110           | 36          | 146           | 6.3  | 100           | 39          | 139           | 7.2  |
| Water and transport accidents.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Air & space transport accidents....   | 5             | 0           | 5             | 0.2  | 2             | 1           | 3             | 0.2  |
| Other transport accidents.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Accidental poisoning, all kinds....   | 1             | 1           | 2             | 0.09 | 3             | 1           | 4             | 0.2  |
| Accidental falls.....   | 30            | 1           | 31            | 1.3  | 24            | 3           | 27            | 1.4  |
| Accidents caused by fires & flames..  | 2             | 2           | 4             | 0.2  | 1             | 0           | 1             | 0.05 |
| Accidents due to natural and environmental.....   | 21            | 28          | 49            | 2.1  | 38            | 25          | 63            | 3.3  |
| Accidents caused by submersion, suffocation & foreign bodies.....   | 69            | 6           | 75            | 3.2  | 35            | 13          | 48            | 2.5  |
| All other accidents, including adverse effects in therapeutic use of drugs, medicaments and other biological substances, & late effects of accidental injury..... | 35            | 6           | 41            | 1.8  | 16            | 5           | 21            | 1.1  |
| Suicide and self-inflicted injury.....  | 8             | 6           | 14            | 0.6  | 14            | 2           | 16            | 0.8  |
| Legal intervention.....   | 0             | 0           | 0             | 0.0  | 1             | 1           | 2             | 0.1  |
| Homicide and injury purposely inflicted by other persons.....   | 2             | 1           | 3             | 0.1  | 2             | 2           | 4             | 0.2  |
| Injury undetermined whether accidentally or purposely inflicted.....  | 920           | 76          | 996           | 43.0 | 583           | 78          | 661           | 34.3 |
| Injury resulting from operations of war.....  | 1             | 0           | 1             | 0.04 | 1             | 0           | 1             | 0.05 |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| C A U S E   | 55 - 59 YEARS |             |               |      | 60 - 64 YEARS |             |               |      |
|---|---------------|-------------|---------------|------|---------------|-------------|---------------|------|
|   | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE |
| Senility w/o mention of psychoses..   | 8             | 8           | 16            | 1.0  | 34            | 43          | 77            | 6.4  |
| Symptoms, signs and ill-defined conditions.....   | 266           | 134         | 400           | 26.2 | 267           | 144         | 411           | 34.3 |
| Fractures, dislocations, sprains and strains.....   | 34            | 17          | 51            | 3.3  | 25            | 12          | 37            | 3.1  |
| Intracranial injury, excluding those with skull fracture.....   | 41            | 16          | 57            | 3.7  | 24            | 8           | 32            | 2.7  |
| Internal injury of chest, abdomen and pelvis.....   | 5             | 3           | 8             | 0.5  | 2             | 1           | 3             | 0.3  |
| Open wounds.....  | 24            | 4           | 28            | 1.8  | 15            | 2           | 17            | 1.4  |
| Burns.....  | 5             | 5           | 10            | 0.7  | 5             | 5           | 10            | 0.8  |
| Poisoning and toxic effects.....  | 5             | 2           | 7             | 0.5  | 6             | 0           | 6             | 0.5  |
| All others, and unspecified effects of external causes.....   | 19            | 6           | 25            | 1.6  | 12            | 7           | 19            | 1.6  |
| Railway accidents.....  | 2             | 1           | 3             | 0.2  | 2             | 0           | 2             | 0.2  |
| Motor vehicle traffic accidents.....  | 63            | 41          | 104           | 6.8  | 56            | 41          | 97            | 8.1  |
| Water and transport accidents.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Air & space transport accidents.....  | 1             | 0           | 1             | 0.07 | 0             | 0           | 0             | 0.0  |
| Other transport accidents.....  | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Accidental poisoning, all kinds....   | 0             | 0           | 0             | 0.0  | 1             | 0           | 1             | 0.08 |
| Accidental falls.....   | 29            | 3           | 32            | 2.1  | 30            | 7           | 37            | 3.1  |
| Accidents caused by fires & flames.   | 0             | 2           | 2             | 0.1  | 1             | 0           | 1             | 0.08 |
| Accidents due to natural and environmental.....   | 28            | 26          | 54            | 3.5  | 16            | 17          | 33            | 2.8  |
| Accidents caused by submersion, suffocation & foreign bodies.....   | 42            | 13          | 55            | 3.6  | 19            | 16          | 35            | 2.9  |
| All other accidents, including adverse effects in therapeutic use of drugs, medicaments and other biological substances, & late effects of accidental injury..... | 19            | 7           | 26            | 1.7  | 10            | 5           | 15            | 1.3  |
| Suicide and self-inflicted injury.....  | 7             | 3           | 10            | 0.7  | 5             | 2           | 7             | 0.6  |
| Legal intervention.....   | 0             | 0           | 0             | 0.0  | 0             | 0           | 0             | 0.0  |
| Homicide and injury purposely inflicted by other persons.....   | 3             | 0           | 3             | 0.2  | 2             | 2           | 4             | 0.3  |
| Injury undetermined whether accidentally or purposely inflicted.....  | 411           | 50          | 461           | 30.2 | 225           | 69          | 294           | 24.6 |
| Injury resulting from operations of war.....  | 1             | 0           | 1             | 0.07 | 2             | 1           | 3             | 0.3  |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE AND SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

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| C A U S E   | 65 - 69 YEARS |             |               |      | 70 YEARS & OVER |             |               |       |
|---|---------------|-------------|---------------|------|-----------------|-------------|---------------|-------|
|   | MALE          | FE-<br>MALE | BOTH<br>SEXES | RATE | MALE            | FE-<br>MALE | BOTH<br>SEXES | RATE  |
| Senility w/o mention of psychoses..   | 96            | 87          | 183           | 20.5 | 4635            | 6296        | 10931         | 781.5 |
| Symptoms, signs and ill-defined conditions.....   | 234           | 160         | 394           | 44.0 | 930             | 792         | 1722          | 123.1 |
| Fractures, dislocations, sprains and strains.....   | 18            | 8           | 26            | 2.9  | 47              | 54          | 101           | 7.2   |
| Intracranial injury, excluding those with skull fracture.....   | 32            | 11          | 43            | 4.8  | 79              | 70          | 149           | 10.7  |
| Internal injury of chest, abdomen and pelvis.....   | 4             | 2           | 6             | 0.7  | 8               | 1           | 9             | 0.6   |
| Open wounds.....  | 13            | 3           | 16            | 1.8  | 25              | 9           | 34            | 2.4   |
| Burns.....  | 3             | 9           | 12            | 1.3  | 12              | 16          | 28            | 2.0   |
| Poisoning and toxic effects.....  | 5             | 0           | 5             | 0.6  | 4               | 4           | 8             | 0.6   |
| All others, and unspecified effects of external causes.....   | 12            | 13          | 25            | 2.8  | 47              | 31          | 78            | 5.6   |
| Railway accidents.....  | 0             | 1           | 1             | 0.1  | 1               | 7           | 8             | 0.6   |
| Motor vehicle traffic accidents....   | 58            | 38          | 96            | 10.7 | 133             | 90          | 223           | 15.9  |
| Water and transport accidents.....  | 0             | 0           | 0             | 0.0  | 0               | 0           | 0             | 0.0   |
| Air & space transport accidents....   | 0             | 1           | 1             | 0.1  | 1               | 0           | 1             | 0.07  |
| Other transport accidents.....  | 0             | 0           | 0             | 0.0  | 0               | 0           | 0             | 0.0   |
| Accidental poisoning, all kinds....   | 1             | 0           | 1             | 0.1  | 1               | 2           | 3             | 0.2   |
| Accidental falls.....   | 13            | 9           | 22            | 2.5  | 56              | 41          | 97            | 6.9   |
| Accidents caused by fires & flames..  | 1             | 1           | 2             | 0.2  | 1               | 2           | 3             | 0.2   |
| Accidents due to natural and environmental.....   | 13            | 14          | 27            | 3.0  | 43              | 28          | 71            | 5.1   |
| Accidents caused by submersion, suffocation & foreign bodies.....   | 24            | 10          | 34            | 3.8  | 61              | 22          | 83            | 5.9   |
| All other accidents, including adverse effects in therapeutic use of drugs, medicaments and other biological substances, & late effects of accidental injury..... | 9             | 3           | 12            | 1.3  | 21              | 9           | 30            | 2.1   |
| Suicide and self-inflicted injury.....  | 5             | 2           | 7             | 0.8  | 16              | 7           | 23            | 1.6   |
| Legal intervention.....   | 0             | 0           | 0             | 0.0  | 0               | 0           | 0             | 0.0   |
| Homicide and injury purposely inflicted by other persons.....   | 1             | 0           | 1             | 0.1  | 4               | 1           | 5             | 0.4   |
| Injury undetermined whether accidentally or purposely inflicted.....  | 150           | 27          | 177           | 19.8 | 347             | 73          | 420           | 30.0  |
| Injury resulting from operations of war.....  | 0             | 0           | 0             | 0.0  | 1               | 3           | 4             | 0.3   |

TABLE 23

MORTALITY: 150 CAUSE-GROUPS BY AGE & SEX  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1990

| C A U S E  | NOT STATED |        |               |      |
|--|------------|--------|---------------|------|
|  | MALE       | FEMALE | BOTH<br>SEXES | RATE |
| Senility without mention of psychoses....  | 0          | 0      | 0             | 0.0  |
| Symptoms, signs and ill-defined conditions.....  | 0          | 0      | 0             | 0.0  |
| Fractures, dislocations, sprains and strains.....  | 0          | 0      | 0             | 0.0  |
| Intracranial injury, excluding those with skull fracture.....  | 0          | 0      | 0             | 0.0  |
| Internal injury of chest, abdomen and pelvis.....  | 0          | 0      | 0             | 0.0  |
| Open wounds.....   | 0          | 0      | 0             | 0.0  |
| Burns.....   | 0          | 0      | 0             | 0.0  |
| Poisoning and toxic effects.....   | 0          | 0      | 0             | 0.0  |
| All others, and unspecified effects of external causes.....  | 0          | 0      | 0             | 0.0  |
| Railway accidents.....   | 0          | 0      | 0             | 0.0  |
| Motor vehicle traffic accidents.....   | 0          | 0      | 0             | 0.0  |
| Water and transport accidents.....   | 0          | 0      | 0             | 0.0  |
| Air and space transport accidents.....   | 0          | 0      | 0             | 0.0  |
| Other transport accidents.....   | 0          | 0      | 0             | 0.0  |
| Accidental poisoning, all kinds.....   | 0          | 0      | 0             | 0.0  |
| Accidental falls.....  | 0          | 0      | 0             | 0.0  |
| Accidents caused by fires and flames.....  | 0          | 0      | 0             | 0.0  |
| Accidents due to natural and environmental.....  | 0          | 0      | 0             | 0.0  |
| Accidents caused by submersion, suffocation and foreign bodies.....  | 0          | 0      | 0             | 0.0  |
| All other accidents, including adverse effects in therapeutic use of drugs medicaments and other biological substances, and late effects of accidental injury..... | 0          | 0      | 0             | 0.0  |
| Suicide and self-inflicted injury.....   | 0          | 0      | 0             | 0.0  |
| Legal intervention.....  | 0          | 0      | 0             | 0.0  |
| Homicide and injury purposely inflicted by other persons.....  | 0          | 0      | 0             | 0.0  |
| Injury undetermined whether accidentally or purposely inflicted.....   | 0          | 0      | 0             | 0.0  |
| Injury resulting from operations of war.....   | 0          | 0      | 0             | 0.0  |

TABLE 24

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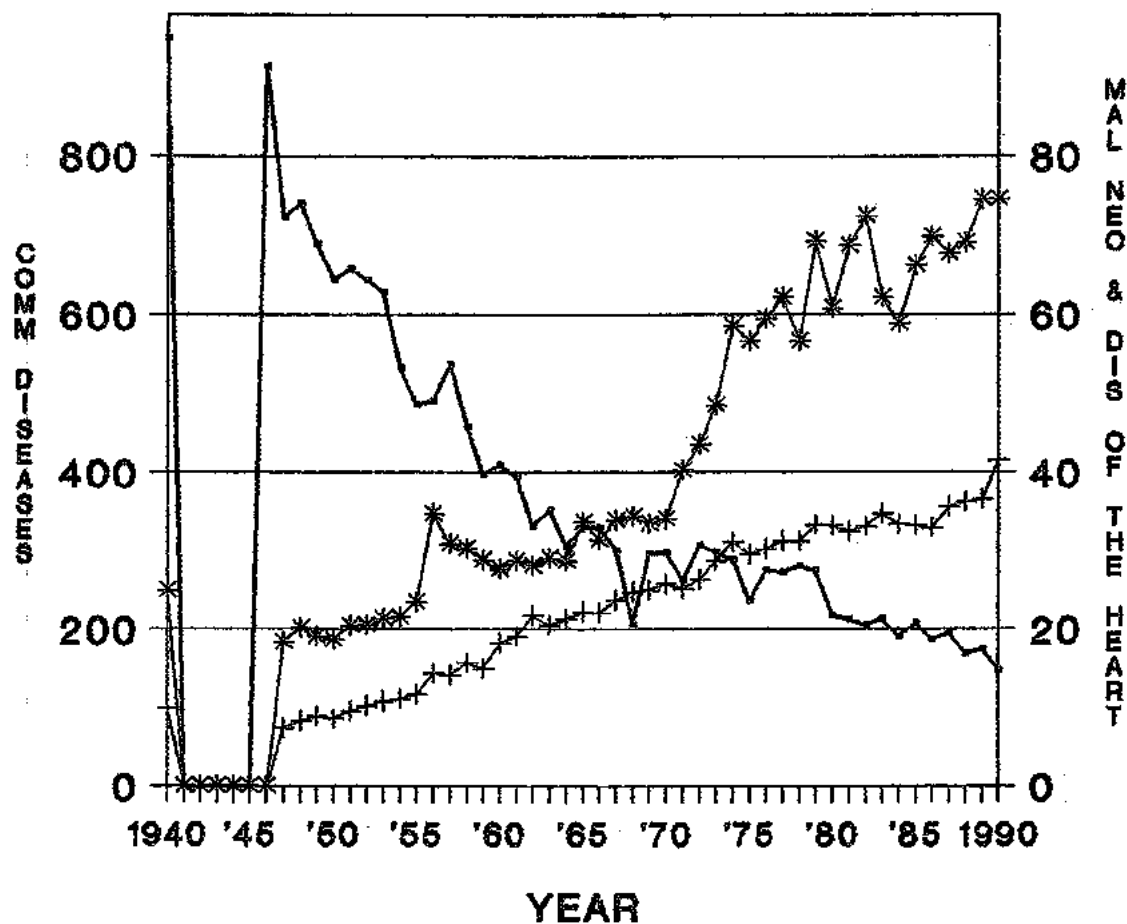
MORTALITY: 17 CAUSE GROUPS  
No. & Rate/100,000 Pop. & Percent Distribution  
PHILIPPINES  
1990

| CAUSE GROUP   | MALE   | FEMALE | BOTH SEXES | RATE  | % OF TOTAL DEATHS |
|---|--------|--------|------------|-------|-------------------|
| TOTAL DEATHS FROM ALL CAUSES.....   | 185806 | 128084 | 313890     | 505.8 | 100.0             |
| Infective and parasitic diseases.....(001-136)                              | 28079  | 18084  | 46163      | 74.4  | 14.7              |
| Neoplasms.....(140-239)   | 13552  | 12186  | 25738      | 41.5  | 8.2               |
| Endocrine, Nutritional and Metabolic Diseases.....(250-279)                 | 4295   | 3635   | 7930       | 12.8  | 2.5               |
| Diseases of Blood and Blood Forming Organs.....(280-289)                    | 1433   | 1390   | 2823       | 4.5   | 0.9               |
| Mental Disorder.....(290-319)   | 272    | 83     | 355        | 0.6   | 0.1               |
| Diseases of the Nervous System and Sense Organs.....(320-389)               | 2616   | 1965   | 4581       | 7.4   | 1.5               |
| Diseases of Circulatory System.....(390-459)                                | 45780  | 34221  | 80001      | 128.9 | 25.5              |
| Diseases of the Respiratory System.....(460-519)                            | 31773  | 25910  | 57683      | 93.0  | 18.4              |
| Diseases of Digestive System.....(520-579)                                  | 9337   | 3650   | 12987      | 20.9  | 4.1               |
| Diseases of Genito-Urinary System.....(580-629)                             | 3883   | 2713   | 6596       | 10.6  | 2.1               |
| Complication of pregnancy and the puerperium.....(630-676)                  | 0      | 1307   | 1307       | 2.1   | 0.4               |
| Diseases of the skin and subcutaneous tissues.....(680-709)                 | 161    | 163    | 324        | 0.5   | 0.1               |
| Diseases of musculoskeletal system and connective tissue.....(710-739)      | 296    | 191    | 487        | 0.8   | 0.2               |
| Congenital Anomalies.....(740-759)  | 1588   | 1154   | 2742       | 4.4   | 0.9               |
| Certain causes of perinatal morbidity and mortality...(760-779)             | 9142   | 6436   | 15578      | 25.1  | 5.0               |
| Symptoms and ill-defined conditions.....(780-799)                           | 10568  | 9973   | 20541      | 33.1  | 6.5               |
| Accidents, poisoning and violence (External Causes).....(800-999;E800-E999) | 23031  | 5023   | 28054      | 45.2  | 8.9               |

MORTALITY: COMMUNICABLE DISEASES: MALIGNANT NEOPLASMS  
AND DISEASES OF THE HEART  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1940-1990

| Y E A R   | COMMUNICABLE DISEASES |       | MALIGNANT NEOPLASMS |      | DISEASES OF THE HEART |      |
|-----------|-----------------------|-------|---------------------|------|-----------------------|------|
|           | NUMBER                | RATE  | NUMBER              | RATE | NUMBER                | RATE |
| 1990      | 91349                 | 147.2 | 25738               | 41.5 | 46272                 | 74.6 |
| 1989      | 104525                | 173.9 | 21933               | 36.5 | 44856                 | 74.6 |
| 1988      | 98997                 | 168.6 | 21184               | 36.1 | 40566                 | 69.1 |
| 1987      | 111383                | 194.2 | 20367               | 35.5 | 38840                 | 67.7 |
| 1986      | 104792                | 187.1 | 18395               | 32.8 | 39163                 | 69.9 |
| 1985      | 112898                | 206.7 | 18143               | 33.2 | 36242                 | 66.3 |
| 1984      | 101119                | 180.1 | 17700               | 33.3 | 31347                 | 58.9 |
| 1983      | 110513                | 212.6 | 17997               | 34.6 | 32320                 | 62.2 |
| 1982      | 103868                | 204.5 | 16832               | 33.1 | 36819                 | 72.5 |
| 1981      | 104740                | 211.4 | 16059               | 32.4 | 34055                 | 68.7 |
| 1980      | 105281                | 217.9 | 16019               | 33.2 | 29355                 | 60.8 |
| 1979      | 127453                | 273.6 | 15449               | 33.2 | 29473                 | 69.3 |
| 1978      | 127413                | 279.9 | 14158               | 31.1 | 25768                 | 56.6 |
| 1977      | 122266                | 271.7 | 13977               | 31.1 | 28006                 | 62.2 |
| 1976      | 119738                | 273.7 | 13173               | 30.1 | 25988                 | 59.4 |
| 1975      | 100299                | 235.9 | 12493               | 29.4 | 24060                 | 56.6 |
| 1974      | 119394                | 288.0 | 12469               | 31.0 | 23522                 | 58.5 |
| 1973      | 119737                | 297.7 | 11490               | 28.6 | 19474                 | 48.4 |
| 1972      | 119268                | 305.5 | 10268               | 26.3 | 16971                 | 43.5 |
| 1971      | 98239                 | 261.4 | 9480                | 25.0 | 15277                 | 40.2 |
| 1970      | 109103                | 296.1 | 9485                | 25.7 | 12531                 | 34.0 |
| 1969      | 109649                | 295.1 | 9256                | 24.9 | 12423                 | 33.4 |
| 1968      | 110024                | 206.6 | 8712                | 24.7 | 12347                 | 34.3 |
| 1967      | 104149                | 300.5 | 8229                | 23.7 | 11739                 | 33.9 |
| 1966      | 110046                | 328.7 | 7382                | 22.1 | 10514                 | 31.4 |
| 1965      | 107043                | 330.9 | 7186                | 22.2 | 10854                 | 33.6 |
| 1964      | 95308                 | 304.8 | 6658                | 21.3 | 8930                  | 28.6 |
| 1963      | 105999                | 350.5 | 6198                | 20.5 | 8769                  | 29.0 |
| 1962      | 96715                 | 330.6 | 6347                | 21.7 | 8209                  | 28.1 |
| 1961      | 111273                | 393.0 | 5392                | 19.0 | 8112                  | 28.6 |
| 1960      | 112075                | 408.9 | 4982                | 18.2 | 7570                  | 27.6 |
| 1959      | 106814                | 396.7 | 4026                | 15.0 | 7758                  | 28.8 |
| 1958      | 119451                | 457.7 | 4100                | 15.7 | 7887                  | 30.2 |
| 1957      | 135829                | 537.0 | 3582                | 14.2 | 7797                  | 30.8 |
| 1956      | 120223                | 490.4 | 3528                | 14.4 | 8423                  | 34.7 |
| 1955      | 115284                | 495.5 | 2786                | 11.7 | 5559                  | 23.4 |
| 1954      | 122671                | 532.8 | 2550                | 11.1 | 4942                  | 21.5 |
| 1953      | 140241                | 628.4 | 2404                | 10.8 | 4769                  | 21.3 |
| 1952      | 133308                | 644.1 | 2201                | 10.2 | 4430                  | 20.5 |
| 1951      | 137830                | 657.5 | 1985                | 9.5  | 4282                  | 20.4 |
| 1950      | 130849                | 644.1 | 1748                | 8.6  | 3808                  | 18.7 |
| 1949      | 135883                | 690.1 | 1725                | 8.8  | 3750                  | 19.0 |
| 1948      | 141785                | 740.6 | 1585                | 8.3  | 3873                  | 20.2 |
| 1947      | 136036                | 724.1 | 1397                | 7.4  | 3440                  | 18.3 |
| 1946      | 168452                | 913.8 | *                   | -    | *                     | -    |
| 1945-1941 | *                     | -     | *                   | -    | *                     | -    |
| 1940      | 156391                | 950.1 | 1650                | 10.0 | 4096                  | 24.9 |

# **MORTALITY TREND: COMMUNICABLE DISEASES MAL. NEOPLASMS, DISEASES OF THE HEART RATE/100,000 POP., PHILIPPINES, 1940-90**



— COMM. DIS.      + MAL. NEOPLASMS  
\* DIS. OF THE HEART

Note: No data for years 1941-1945,  
1946 for mal. neo. & dis. of the heart

Fig. 27

TABLE 26

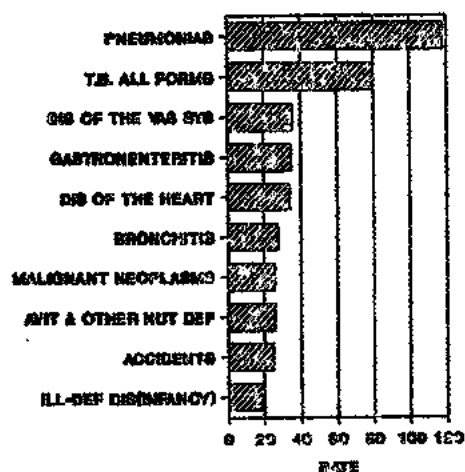
MORTALITY: TEN (10) LEADING CAUSES  
No. & Rate/100,000 Pop.  
PHILIPPINES  
1970, 1980 and 1990

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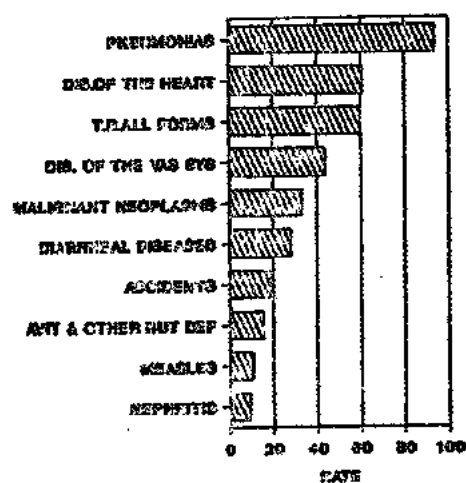
| C A U S E  | 1 9 9 0 |      | C A U S E   | 1 9 8 0 |      |
|--|---------|------|---|---------|------|
|  | NUMBER  | RATE |   | NUMBER  | RATE |
| 1. DISEASES OF THE HEART...                        | 46272   | 74.6 | 1. PNEUMONIAS.....                                  | 45209   | 93.6 |
| 2. PNEUMONIAS.....                                 | 41239   | 66.5 | 2. DISEASES OF THE HEART...                         | 29355   | 60.8 |
| 3. DISEASES OF THE VASCULAR<br>SYSTEM.....         | 33729   | 54.4 | 3. TUBERCULOSIS, ALL FORMS.                         | 28798   | 59.6 |
| 4. TUBERCULOSIS, ALL FORMS.                        | 24307   | 39.2 | 4. DISEASES OF THE VASCULAR<br>SYSTEM.....          | 21166   | 43.8 |
| 5. MALIGNANT NEOPLASMS.....                        | 22179   | 35.7 | 5. MALIGNANT NEOPLASMS.....                         | 16019   | 33.2 |
| 6. DIARRHEAL DISEASES.....                         | 7493    | 12.1 | 6. DIARRHEAL DISEASES.....                          | 13492   | 27.9 |
| 7. SEPTICEMIA.....                                 | 5835    | 9.4  | 7. ACCIDENTS.....                                   | 9016    | 18.7 |
| 8. NEPHRITIS, NEPHROTIC<br>SYNDROME & NEPHROSIS... | 5151    | 8.3  | 8. AVITAMINOSES & OTHER<br>NUTRITIONAL DEFICIENCY.. | 7413    | 15.3 |
| 9. ACCIDENTS.....                                  | 3993    | 6.4  | 9. MEASLES.....                                     | 5191    | 10.7 |
| 10. MEASLES.....                                   | 3499    | 5.6  | 10. NEPHRITIS, NEPHROTIC<br>SYNDROME & NEPHROSIS... | 4478    | 9.3  |

| C A U S E   | 1 9 7 0 |       |
|---|---------|-------|
|   | NUMBER  | RATE  |
| 1. PNEUMONIAS.....  | 43573   | 118.2 |
| 2. TUBERCULOSIS, ALL FORMS.                                   | 29503   | 80.1  |
| 3. DISEASES OF THE VASCULAR<br>SYSTEM.....                    | 13195   | 35.8  |
| 4. GASTROENTERITIS.....                                       | 12886   | 35.0  |
| 5. DISEASES OF THE HEART...                                   | 12531   | 34.0  |
| 6. BRONCHITIS.....  | 10263   | 27.9  |
| 7. MALIGNANT NEOPLASMS.....                                   | 9485    | 25.7  |
| 8. AVITAMINOSIS & OTHER<br>NUTRITIONAL DEFICIENCY.            | 9411    | 25.5  |
| 9. ACCIDENTS.....   | 9146    | 24.8  |
| 10. ILL-DEFINED DISEASES<br>PECULIAR TO EARLY<br>INFANCY..... | 7035    | 19.1  |

**MORTALITY: LEADING CAUSES**  
**RATE PER 100,000 POPULATION**  
**PHILIPPINES, 1970**



**MORTALITY: LEADING CAUSES**  
**RATE PER 100,000 POPULATION**  
**PHILIPPINES, 1980**



**MORTALITY: LEADING CAUSES**  
**RATE PER 100,000 POPULATION**  
**PHILIPPINES, 1990**

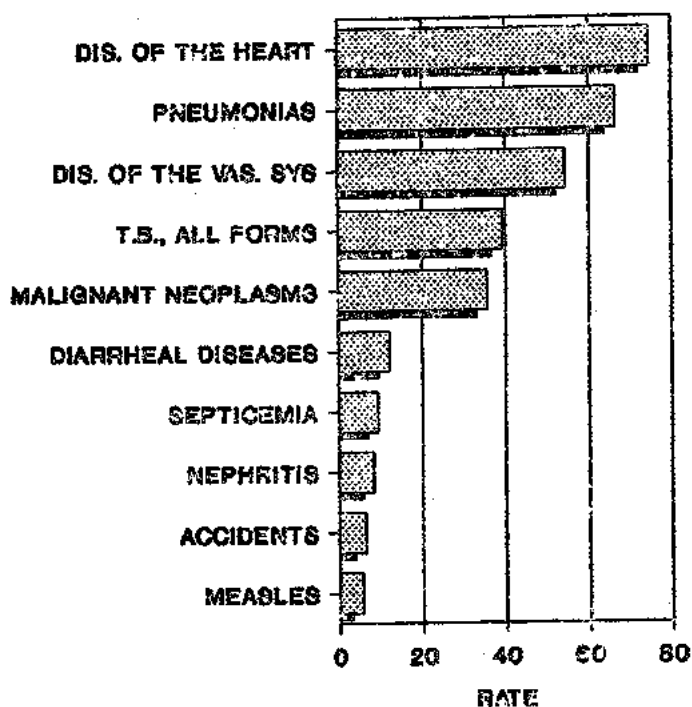


Fig. 28

TABLE 27

INFANT MORTALITY: BY SMALLER AGE GROUPS  
No. & Rate/1000 l.b. & Percentage Distribution  
PHILIPPINES  
5-YEAR AVERAGE (1985-1989) & 1990

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| A G E                          | 5-YEAR AVERAGE (1985-1989) |                             |                                 |                          | 1 9 9 0 |                             |                                 |                          |
|--------------------------------|----------------------------|-----------------------------|---------------------------------|--------------------------|---------|-----------------------------|---------------------------------|--------------------------|
|                                | NUMBER                     | RATE<br>PER<br>1000<br>l.b. | % OF<br>NEO-<br>NATAL<br>DEATHS | % OF<br>INFANT<br>DEATHS | NUMBER  | RATE<br>PER<br>1000<br>l.b. | % OF<br>NEO-<br>NATAL<br>DEATHS | % OF<br>INFANT<br>DEATHS |
| Under 1 Year.....              | 49847                      | 32.6                        |                                 | 100.0                    | 38633   | 24.3                        |                                 | 100.0                    |
| Under 28 Days.....             | 21416                      | 14.0                        | 100.0                           | 43.0                     | 19013   | 11.7                        | 100.0                           | 48.0                     |
| 0 - 6 Days.....                | 16086                      | 10.5                        | 75.1                            | 32.2                     | 14570   | 8.9                         | 76.6                            | 36.8                     |
| 7 - 13 Days.....               | 3311                       | 2.2                         | 15.5                            | 6.6                      | 2440    | 1.5                         | 12.8                            | 6.2                      |
| 14 - 20 Days.....              | 1138                       | 0.7                         | 5.3                             | 2.3                      | 1131    | 0.7                         | 6.0                             | 2.8                      |
| 21 - 27 Days.....              | 881                        | 0.6                         | 4.1                             | 1.8                      | 872     | 0.5                         | 4.6                             | 2.2                      |
| 28 Days to<br>Under 1 year.... | 28431                      | 18.6                        |                                 | 57.0                     | 20620   | 12.6                        |                                 | 52.0                     |
| 28 - 59 Days.....              | 4469                       | 2.9                         |                                 | 9.0                      | 3648    | 2.2                         |                                 | 9.2                      |
| 2 Months.....                  | 2628                       | 1.7                         |                                 | 5.3                      | 2246    | 1.4                         |                                 | 5.7                      |
| 3 Months.....                  | 2048                       | 1.3                         |                                 | 4.1                      | 1707    | 1.0                         |                                 | 4.3                      |
| 4 Months.....                  | 1939                       | 1.3                         |                                 | 3.9                      | 1457    | 0.9                         |                                 | 3.7                      |
| 5 Months.....                  | 1929                       | 1.3                         |                                 | 3.8                      | 1435    | 0.9                         |                                 | 3.6                      |
| 6 Months.....                  | 2229                       | 1.5                         |                                 | 4.5                      | 1613    | 1.0                         |                                 | 4.1                      |
| 7 Months.....                  | 2443                       | 1.6                         |                                 | 4.9                      | 1743    | 1.1                         |                                 | 4.4                      |
| 8 Months.....                  | 2689                       | 1.8                         |                                 | 5.4                      | 1758    | 1.1                         |                                 | 4.4                      |
| 9 Months.....                  | 2447                       | 1.6                         |                                 | 4.9                      | 1665    | 1.0                         |                                 | 4.2                      |
| 10 Months.....                 | 2012                       | 1.3                         |                                 | 4.0                      | 1211    | 0.7                         |                                 | 3.0                      |
| 11 Months.....                 | 3598                       | 2.3                         |                                 | 7.2                      | 2137    | 1.3                         |                                 | 5.4                      |

# INFANT DEATHS BY SMALLER AGE GROUPS PERCENTAGE DISTRIBUTION PHILIPPINES, 1990

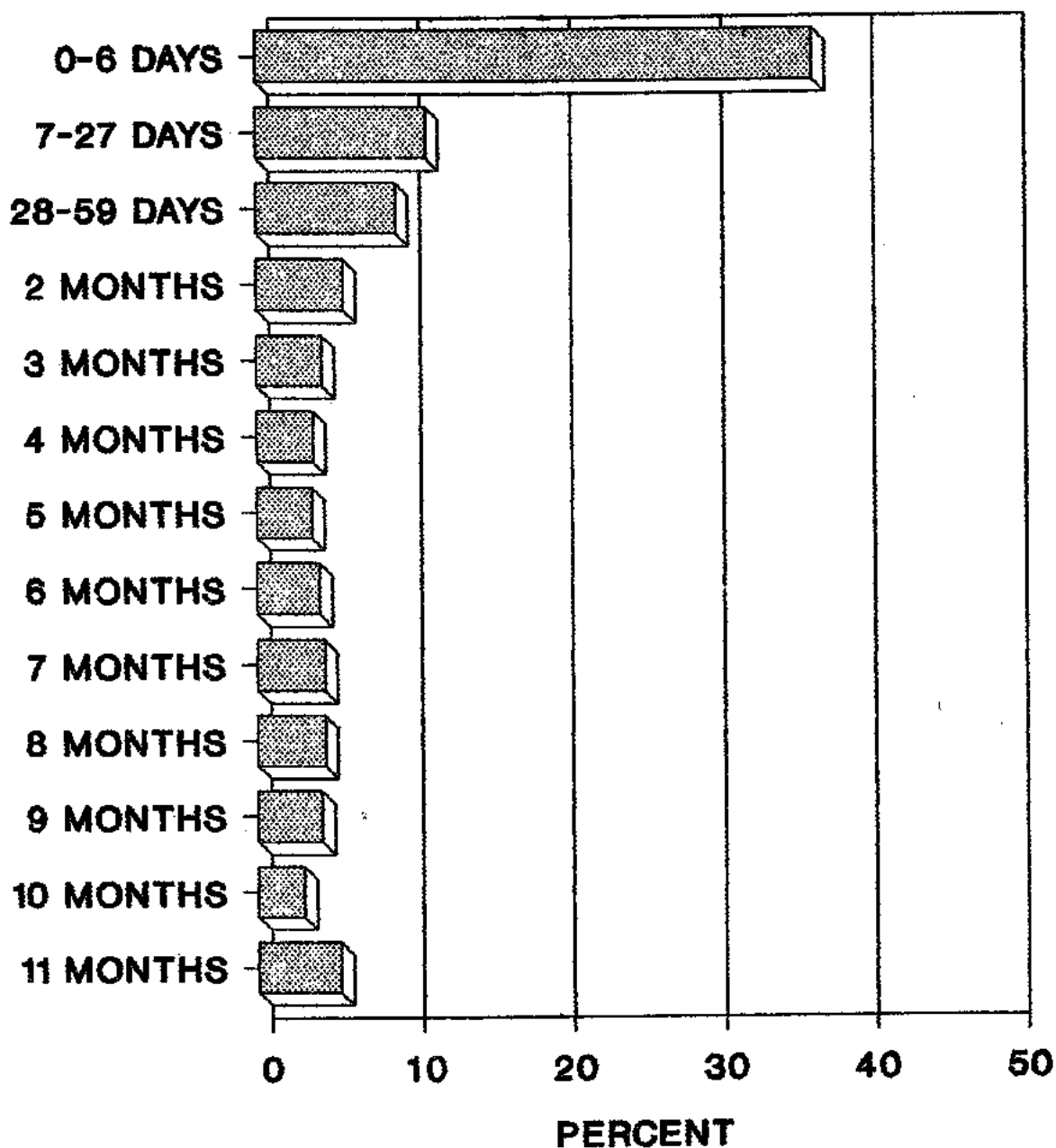


Fig. 29

# INFANT MORTALITY

## NEONATAL & POST NEONATAL DEATH RATE

RATE/1,000 LIVEBIRTHS, PHILS., 1980-1990

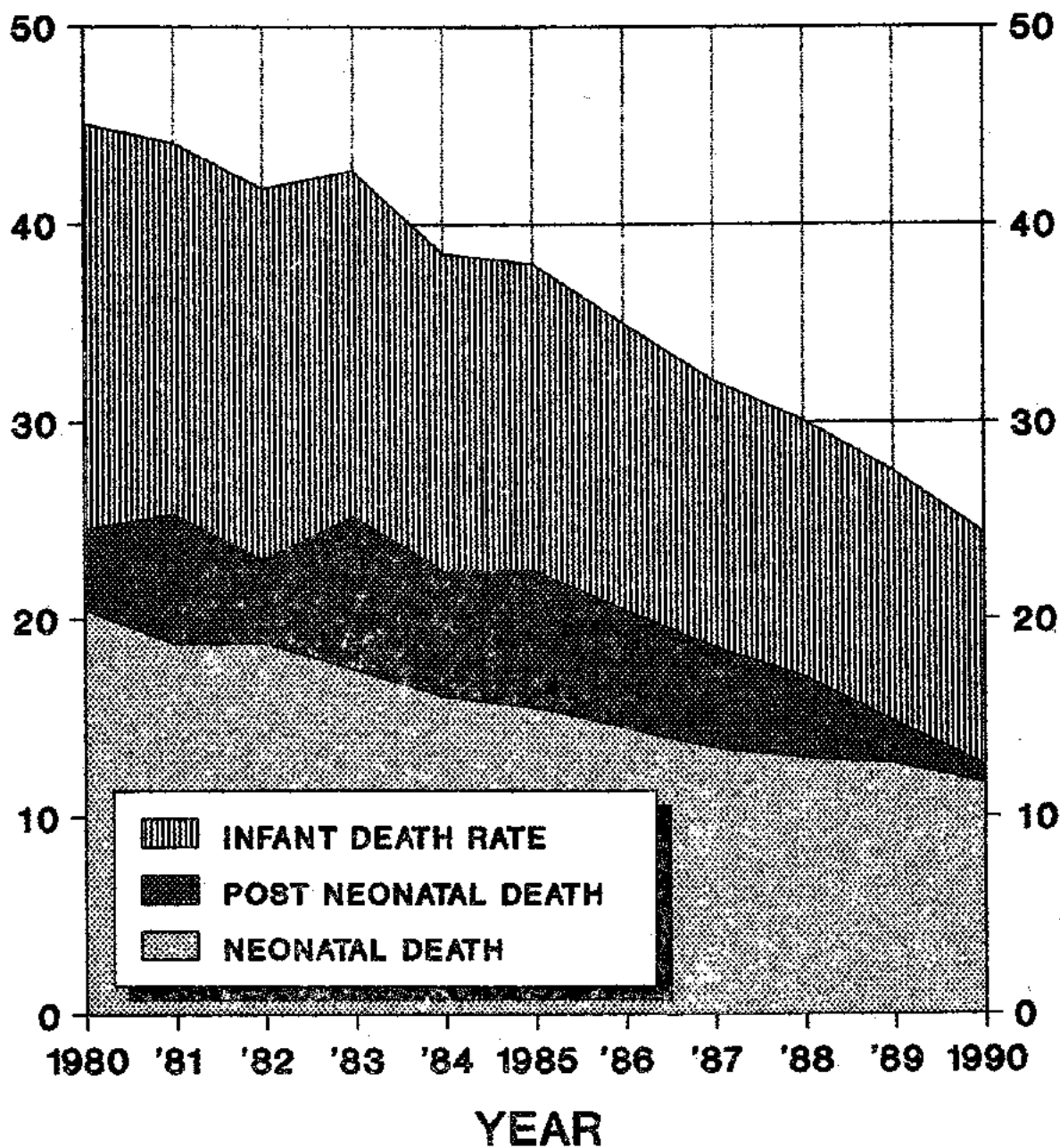


Fig. 30

INFANT MORTALITY: TEN (10) LEADING CAUSES  
 No. & Rate/1000 l.b. & Percentage Distribution  
 PHILIPPINES  
 5-YEAR AVERAGE (1985-1989) & 1990

| C A U S E  | 5-YEAR AVERAGE<br>(1985-1989) |                             |                          | 1 9 9 0 |                             |                          |
|--|-------------------------------|-----------------------------|--------------------------|---------|-----------------------------|--------------------------|
|  | NUMBER                        | RATE<br>PER<br>1000<br>l.b. | % OF<br>INFANT<br>DEATHS | NUMBER  | RATE<br>PER<br>1000<br>l.b. | % OF<br>INFANT<br>DEATHS |
| 1. PNEUMONIAS....(480-486)   | 13322                         | 8.7                         | 26.9                     | 9383    | 5.8                         | 23.7                     |
| 2. RESPIRATORY CONDITIONS<br>OF FETUS AND NEWBORN...<br>.....(740-759) | 6655                          | 4.3                         | 13.4                     | 5985    | 3.7                         | 15.1                     |
| 3. CONGENITAL ANOMALIES...<br>.....(740-759)                           | 2233                          | 1.5                         | 4.5                      | 2063    | 1.3                         | 5.2                      |
| 4. DIARRHEAL DISEASES.....<br>.....(001-009)                           | 3137                          | 2.1                         | 6.3                      | 1838    | 1.1                         | 4.6                      |
| 5. SEPTICEMIA.....(038)  | 1146                          | 0.7                         | 2.3                      | 1532    | 0.9                         | 3.9                      |
| 6. AVITAMINOSES AND OTHER<br>NUTRITIONAL DEFECIENCY<br>.....(260-269)  | 1928                          | 1.3                         | 3.9                      | 1201    | 0.7                         | 3.0                      |
| 7. BIRTH INJURY & DIFF.<br>LABOR .....(768,772)                        | 1352                          | 0.9                         | 2.7                      | 1093    | 0.7                         | 2.8                      |
| 8. MEASLES.....(055)   | 1618                          | 1.1                         | 3.3                      | 729     | 0.4                         | 1.8                      |
| 9. MENINGITIS...(320-322)  | 622                           | 0.4                         | 1.2                      | 517     | 0.3                         | 1.3                      |
| 10.ACUTE BRONCHITIS AND<br>BRONCHIOLITIS....(466)                      | 752                           | 0.5                         | 1.5                      | 414     | 0.3                         | 1.0                      |

# INFANT MORTALITY: LEADING CAUSES

## RATE PER 1,000 LIVEBIRTHS

### PHILS., 5 YR. AVE. (1985-1989) & 1990

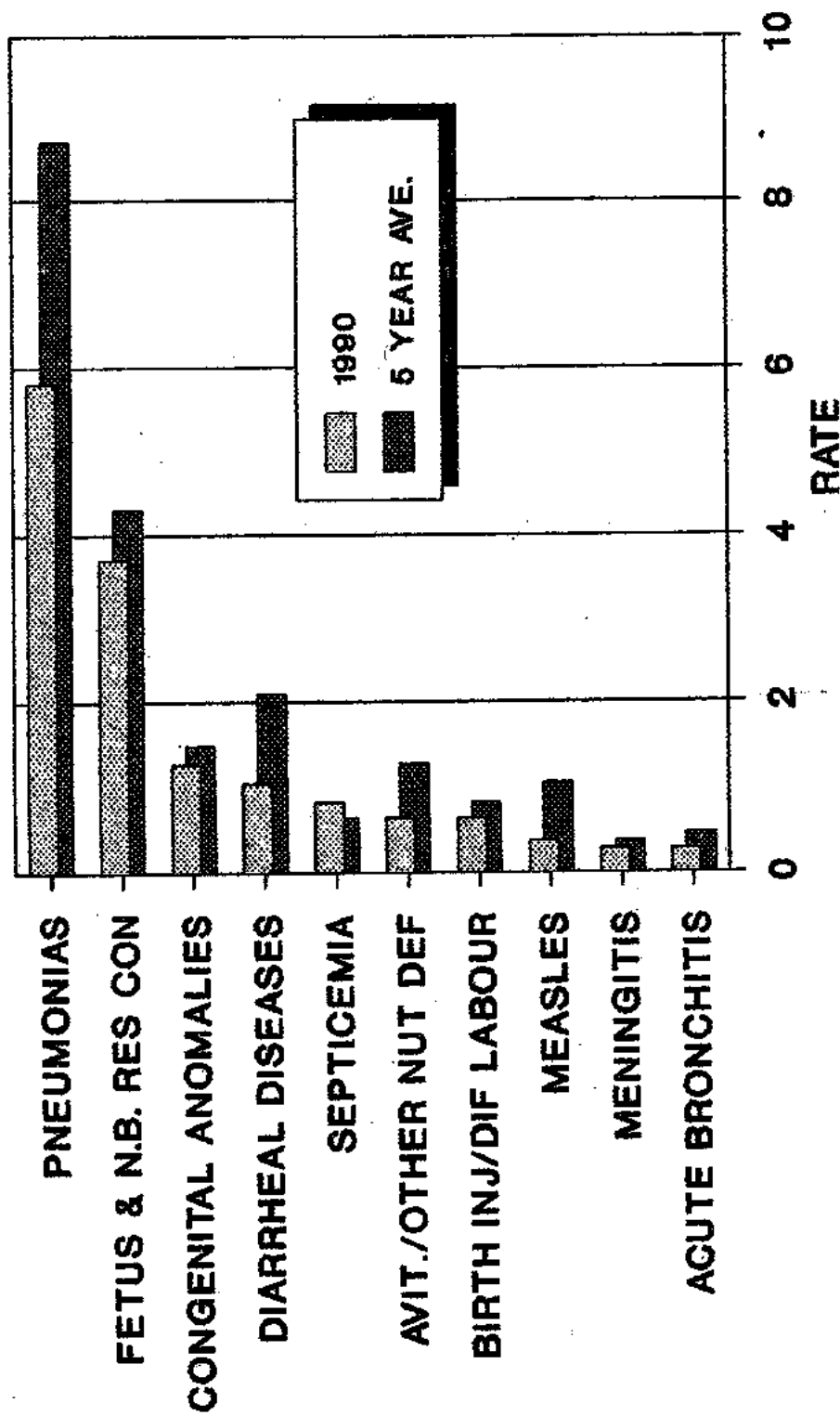


Fig. 31

TABLE 29

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MATERNAL MORTALITY: BY MAIN CAUSE  
No. & Rate/1000 l.b. & Percentage Distribution  
PHILIPPINES  
1990

| C A U S E  | 1 9 9 0 |      |         |
|--|---------|------|---------|
|  | NUMBER  | RATE | PERCENT |
| T O T A L.....   | 1307    | 0.8  | 100.0   |
| Pregnancy with abortive<br>outcome.....(630-639)   | 103     | 0.1  | 7.9     |
| Hemorrhages related to<br>pregnancy.....(640;641)  | 104     | 0.1  | 8.0     |
| Hypertension complicating<br>pregnancy, childbirth and<br>puerperium.....(642)   | 341     | 0.2  | 26.1    |
| Postpartum Hemorrhage.....(666)  | 414     | 0.3  | 31.7    |
| Normal Delivery and Other<br>Complications related to pregnancy<br>occurring in the course of labor,<br>delivery and Puerperium.....<br>.....(642-648;650-665;667-676) | 345     | 0.2  | 26.4    |

# MATERNAL DEATHS BY MAIN CAUSE PERCENTAGE DISTRIBUTION PHILIPPINES, 1990

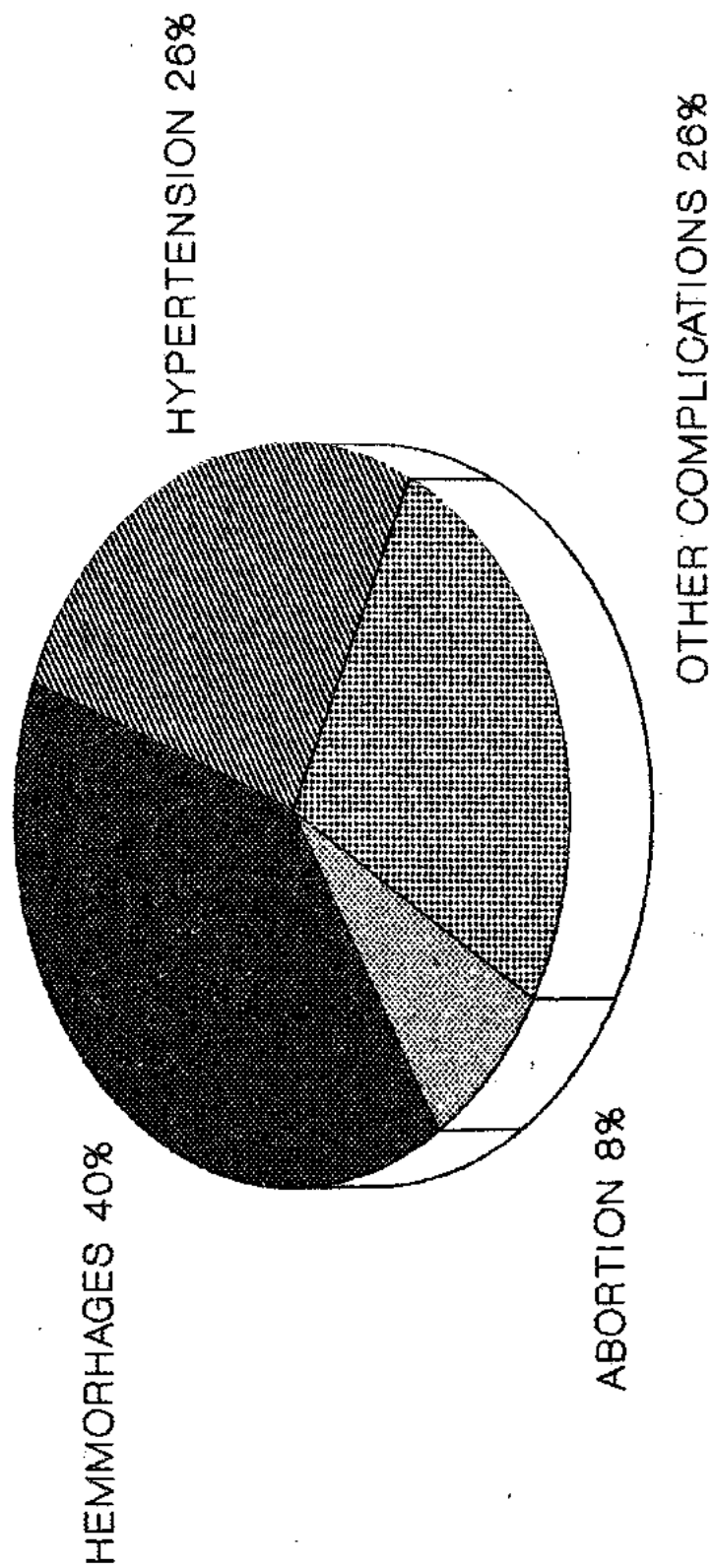


Fig. 32

TABLE 30

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MATERNAL MORTALITY: BY AGE GROUP & HEALTH REGION  
No. & Rate/1000 l.b. & Percentage Distribution  
PHILIPPINES  
1990

| REGION                | AGE DISTRIBUTION |      |         |                |       |         |
|-----------------------|------------------|------|---------|----------------|-------|---------|
|                       | TOTAL            |      |         | UNDER 15 YEARS |       |         |
|                       | NUMBER           | RATE | PERCENT | NUMBER         | RATE  | PERCENT |
| PHILIPPINES.....      | 1307             | 0.8  | 100.0   | 170            | 592.3 | 100.0   |
| NAT. CAP. REGION..... | 113              | 0.4  | 8.6     | 19             | 66.2  | 11.2    |
| C.A.R.....            | 17               | 0.6  | 1.3     | 1              | 3.4   | 0.6     |
| REGION 1.....         | 74               | 0.8  | 5.7     | 7              | 24.4  | 4.1     |
| REGION 2.....         | 92               | 1.4  | 7.0     | 20             | 69.6  | 11.8    |
| REGION 3.....         | 92               | 0.5  | 7.0     | 16             | 55.7  | 9.4     |
| REGION 4.....         | 205              | 0.9  | 15.7    | 33             | 115.0 | 19.4    |
| REGION 5.....         | 138              | 1.3  | 10.6    | 13             | 45.3  | 7.6     |
| REGION 6.....         | 121              | 1.0  | 9.3     | 15             | 52.3  | 8.8     |
| REGION 7.....         | 108              | 0.8  | 8.3     | 12             | 42.0  | 7.1     |
| REGION 8.....         | 88               | 1.5  | 6.7     | 9              | 31.3  | 5.3     |
| REGION 9.....         | 48               | 0.8  | 3.7     | 5              | 17.4  | 2.9     |
| REGION 10.....        | 94               | 1.0  | 7.2     | 6              | 21.0  | 3.5     |
| REGION 11.....        | 87               | 0.7  | 6.7     | 9              | 31.3  | 5.3     |
| REGION 12.....        | 30               | 0.6  | 2.3     | 5              | 17.4  | 2.9     |

\*Rate According to corresponding Age-Group.

TABLE 30

MATERNAL MORTALITY: BY AGE GROUP & HEALTH REGION  
No. & Rate/1000 l.b. & Percentage Distribution  
PHILIPPINES  
1990

| R E G I O N           | A G E D I S T R I B U T I O N |      |         |               |      |         |
|-----------------------|-------------------------------|------|---------|---------------|------|---------|
|                       | 15 - 19 YEARS                 |      |         | 20 - 24 YEARS |      |         |
|                       | NUMBER                        | RATE | PERCENT | NUMBER        | RATE | PERCENT |
| PHILIPPINES.....      | 60                            | 0.5  | 100.0   | 169           | 0.35 | 100.0   |
| NAT. CAP. REGION..... | 2                             | 0.02 | 3.3     | 14            | 0.03 | 8.3     |
| C.A.R.....            | 0                             | -    | 0.0     | 2             | 0.0  | 1.2     |
| REGION 1.....         | 2                             | 0.02 | 3.3     | 10            | 0.02 | 5.9     |
| REGION 2.....         | 5                             | 0.04 | 8.3     | 10            | 0.02 | 5.9     |
| REGION 3.....         | 4                             | 0.03 | 6.7     | 8             | 0.02 | 4.7     |
| REGION 4.....         | 12                            | 0.10 | 20.0    | 25            | 0.05 | 14.8    |
| REGION 5.....         | 6                             | 0.05 | 10.0    | 18            | 0.04 | 10.7    |
| REGION 6.....         | 7                             | 0.06 | 11.7    | 11            | 0.02 | 6.5     |
| REGION 7.....         | 4                             | 0.03 | 6.7     | 19            | 0.04 | 11.2    |
| REGION 8.....         | 5                             | 0.04 | 8.3     | 7             | 0.02 | 4.1     |
| REGION 9.....         | 5                             | 0.04 | 8.3     | 15            | 0.03 | 8.9     |
| REGION 10.....        | 6                             | 0.05 | 10.0    | 10            | 0.02 | 5.9     |
| REGION 11.....        | 1                             | 0.01 | 1.7     | 14            | 0.03 | 8.3     |
| REGION 12.....        | 1                             | 0.01 | 1.7     | 6             | 0.01 | 3.6     |

\*Rate According to corresponding Age-Group.

TABLE 30

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MATERNAL MORTALITY: BY AGE GROUP & HEALTH REGION  
No. & Rate/1000 l.b. & Percentage Distribution  
PHILIPPINES  
1990

| R E G I O N           | A G E D I S T R I B U T I O N |      |         |               |      |         |
|-----------------------|-------------------------------|------|---------|---------------|------|---------|
|                       | 25 - 29 YEARS                 |      |         | 30 - 34 YEARS |      |         |
|                       | NUMBER                        | RATE | PERCENT | NUMBER        | RATE | PERCENT |
| PHILIPPINES.....      | 196                           | 0.4  | 100.0   | 209           | 0.06 | 100.0   |
| NAT. CAP. REGION..... | 27                            | 0.06 | 13.8    | 11            | 0.03 | 5.3     |
| C.A.R.....            | 4                             | 0.01 | 2.0     | 4             | 0.01 | 1.9     |
| REGION 1.....         | 13                            | 0.03 | 6.6     | 11            | 0.03 | 5.3     |
| REGION 2.....         | 13                            | 0.03 | 6.6     | 10            | 0.03 | 4.8     |
| REGION 3.....         | 15                            | 0.03 | 7.7     | 13            | 0.04 | 6.2     |
| REGION 4.....         | 24                            | 0.05 | 12.2    | 27            | 0.09 | 12.9    |
| REGION 5.....         | 24                            | 0.05 | 12.2    | 26            | 0.08 | 12.4    |
| REGION 6.....         | 11                            | 0.02 | 5.6     | 17            | 0.05 | 8.1     |
| REGION 7.....         | 14                            | 0.02 | 7.1     | 22            | 0.07 | 10.5    |
| REGION 8.....         | 14                            | 0.02 | 7.1     | 16            | 0.05 | 7.7     |
| REGION 9.....         | 7                             | 0.01 | 3.6     | 7             | 0.02 | 3.3     |
| REGION 10.....        | 18                            | 0.04 | 9.2     | 19            | 0.06 | 9.1     |
| REGION 11.....        | 9                             | 0.02 | 4.6     | 21            | 0.07 | 10.0    |
| REGION 12.....        | 3                             | 0.01 | 1.5     | 5             | 0.02 | 2.4     |

\*Rate According to corresponding Age-Group.

TABLE 30

MATERNAL MORTALITY: BY AGE GROUP & HEALTH REGION  
No. & Rate/1000 l.b. & Percentage Distribution  
PHILIPPINES  
1990

| R E G I O N           | AGE DISTRIBUTION |      |         |               |      |         |
|-----------------------|------------------|------|---------|---------------|------|---------|
|                       | 35 - 39 YEARS    |      |         | 40 - 44 YEARS |      |         |
|                       | NUMBER           | RATE | PERCENT | NUMBER        | RATE | PERCENT |
| PHILIPPINES.....      | 200              | 1.10 | 100.0   | 109           | 1.8  | 100.0   |
| NAT. CAP. REGION..... | 15               | 0.09 | 7.5     | 4             | 0.08 | 3.7     |
| C.A.R.....            | 4                | 0.02 | 2.0     | 2             | 0.03 | 1.8     |
| REGION 1.....         | 8                | 0.04 | 4.0     | 9             | 0.15 | 8.3     |
| REGION 2.....         | 13               | 0.07 | 6.5     | 4             | 0.06 | 3.7     |
| REGION 3.....         | 12               | 0.07 | 6.0     | 7             | 0.11 | 6.4     |
| REGION 4.....         | 33               | 0.18 | 16.5    | 13            | 0.22 | 11.9    |
| REGION 5.....         | 15               | 0.09 | 7.5     | 17            | 0.28 | 15.6    |
| REGION 6.....         | 24               | 0.13 | 12.0    | 16            | 0.27 | 14.7    |
| REGION 7.....         | 17               | 0.09 | 8.5     | 6             | 0.1  | 5.5     |
| REGION 8.....         | 17               | 0.09 | 8.5     | 9             | 0.15 | 8.3     |
| REGION 9.....         | 5                | 0.03 | 2.5     | 1             | 0.02 | 0.9     |
| REGION 10.....        | 18               | 0.10 | 9.0     | 12            | 0.2  | 11.0    |
| REGION 11.....        | 14               | 0.08 | 7.0     | 7             | 0.12 | 6.4     |
| REGION 12.....        | 5                | 0.03 | 2.5     | 2             | 0.03 | 1.8     |

\*Rate According to corresponding Age-Group.

TABLE 30

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MATERNAL MORTALITY: BY AGE GROUP & HEALTH REGION  
No. & Rate/1000 l.b. & Percentage Distribution  
PHILIPPINES  
1990

| R E G I O N           | A G E D I S T R I B U T I O N |      |         |                 |       |         |
|-----------------------|-------------------------------|------|---------|-----------------|-------|---------|
|                       | 45 - 49 YEARS                 |      |         | 50 YEARS & OVER |       |         |
|                       | NUMBER                        | RATE | PERCENT | NUMBER          | RATE  | PERCENT |
| PHILIPPINES.....      | 29                            | 3.3  | 2.2     | 165             | 140.0 | 100.0   |
| NAT. CAP. REGION..... | 3                             | 0.3  | 2.6     | 18              | 15.3  | 10.9    |
| C.A.R.....            | 0                             | -    | -       | 0               | -     | 0.0     |
| REGION 1.....         | 1                             | 0.1  | 1.3     | 13              | 11.0  | 7.9     |
| REGION 2.....         | 4                             | 0.5  | 4.3     | 13              | 11.0  | 7.9     |
| REGION 3.....         | 2                             | 0.2  | 2.1     | 15              | 13.0  | 9.1     |
| REGION 4.....         | 5                             | 0.6  | 2.4     | 33              | 28.0  | 20.0    |
| REGION 5.....         | 3                             | 0.3  | 2.1     | 16              | 13.5  | 9.7     |
| REGION 6.....         | 3                             | 0.3  | 2.4     | 17              | 14.4  | 10.3    |
| REGION 7.....         | 1                             | 0.1  | 0.1     | 13              | 11.0  | 7.9     |
| REGION 8.....         | 2                             | 0.2  | 0.2     | 9               | 7.6   | 5.5     |
| REGION 9.....         | 1                             | 0.1  | 0.1     | 2               | 1.7   | 1.2     |
| REGION 10.....        | 2                             | 0.2  | 0.2     | 3               | 2.5   | 1.8     |
| REGION 11.....        | 2                             | 0.2  | 0.2     | 10              | 8.5   | 6.1     |
| REGION 12.....        | 0                             | -    | -       | 3               | 2.5   | 1.8     |

\*Rate according to corresponding Age-group.

FETAL MORTALITY BY ATTENDANCE & BY CAUSE  
PHILIPPINES  
1990

| C A U S E   | Total<br>Fetal<br>Deaths | A T T E N D A N T |       |              |  |        |
|---|--------------------------|-------------------|-------|--------------|--|--------|
|   |                          | Physi-<br>cian    | Nurse | Mid-<br>wife | Traditio-<br>nal Birth<br>Attendant<br>(Hilot) | Others |
| Fetus affected by maternal conditions which may be unrelated to present pregnancy.....(760) | 409                      | 298               | 9     | 0            | 10   | 92     |
| Fetus affected by maternal complications of pregnancy.....(761)                             | 231                      | 131               | 5     | 3            | 12   | 80     |
| Fetus affected by complications of placenta, cord and membranes.....(762)                   | 2519                     | 1776              | 49    | 19           | 118  | 557    |
| Fetus affected by other complications of labour and delivery.....(763)                      | 574                      | 251               | 3     | 2            | 52   | 266    |
| Slow fetal growth and fetal malnutrition..(764)   | 2                        | 0                 | 0     | 0            | 0  | 2      |
| Disorders relating to short gestation and unspecified low birth weight.....(765)            | 1510                     | 583               | 23    | 7            | 100  | 797    |
| Disorders relating to long gestation and high birth weight.....(766)                        | 106                      | 50                | 2     | 3            | 10   | 41     |
| Birth trauma.....(767)  | 0                        | 0                 | 0     | 0            | 0  | 0      |
| Intrauterine hypoxia and birth asphyxia.....(768)   | 393                      | 330               | 18    | 6            | 81   | 458    |
| Respiratory distress syndrome.....(769)   | 207                      | 66                | 1     | 0            | 25   | 115    |
| Other respiratory conditions of fetus.....(770)   | 55                       | 25                | 2     | 0            | 4  | 24     |

TABLE 31

FETAL MORTALITY BY ATTENDANCE & BY CAUSE  
PHILIPPINES  
1990

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| C A U S E   | Total<br>Fetal<br>Deaths | A T T E N D A N T |       |              |  |        |
|---|--------------------------|-------------------|-------|--------------|--|--------|
|   |                          | Physi-<br>cian    | Nurse | Mid-<br>wife | Traditio-<br>nal Birth<br>Attendant<br>(Hilot) | Others |
| Infections specific to the<br>perinatal period....(771)                                       | 87                       | 35                | 1     | 0            | 14   | 37     |
| Fetal haemorrhage....(772)  | 0                        | 0                 | 0     | 0            | 0  | 0      |
| Haemolytic diseases of<br>fetus due to isoimmuni-<br>zation.....(773)                         | 1                        | 0                 | 0     | 0            | 0  | 1      |
| Other perinatal<br>jaundice.....(774)   | 0                        | 0                 | 0     | 0            | 0  | 0      |
| Endocrine and metabolic<br>disturbances specific to<br>the fetus.....(775)                    | 2                        | 1                 | 0     | 0            | 0  | 1      |
| Haematological disorders<br>of fetus.....(776)  | 1                        | 0                 | 0     | 0            | 0  | 1      |
| Perinatal disorders of<br>digestive system....(777)   | 1                        | 0                 | 0     | 0            | 0  | 1      |
| Conditions involving the<br>integument and tempe-<br>rature regulations of<br>fetus.....(778) | 0                        | 0                 | 0     | 0            | 0  | 0      |
| Other and ill-defined<br>conditions originating<br>in the perinatal<br>period.....(779)       | 5317                     | 2002              | 79    | 30           | 412  | 2794   |
| TOTAL - Number.....   | 11915                    | 5548              | 192   | 70           | 838  | 5267   |
| - Percent.....  | 100.0                    | 46.6              | 1.6   | 0.6          | 7.0  | 44.2   |

# FETAL DEATHS BY MEDICAL ATTENDANCE PERCENTAGE DISTRIBUTION PHILIPPINES, 1990

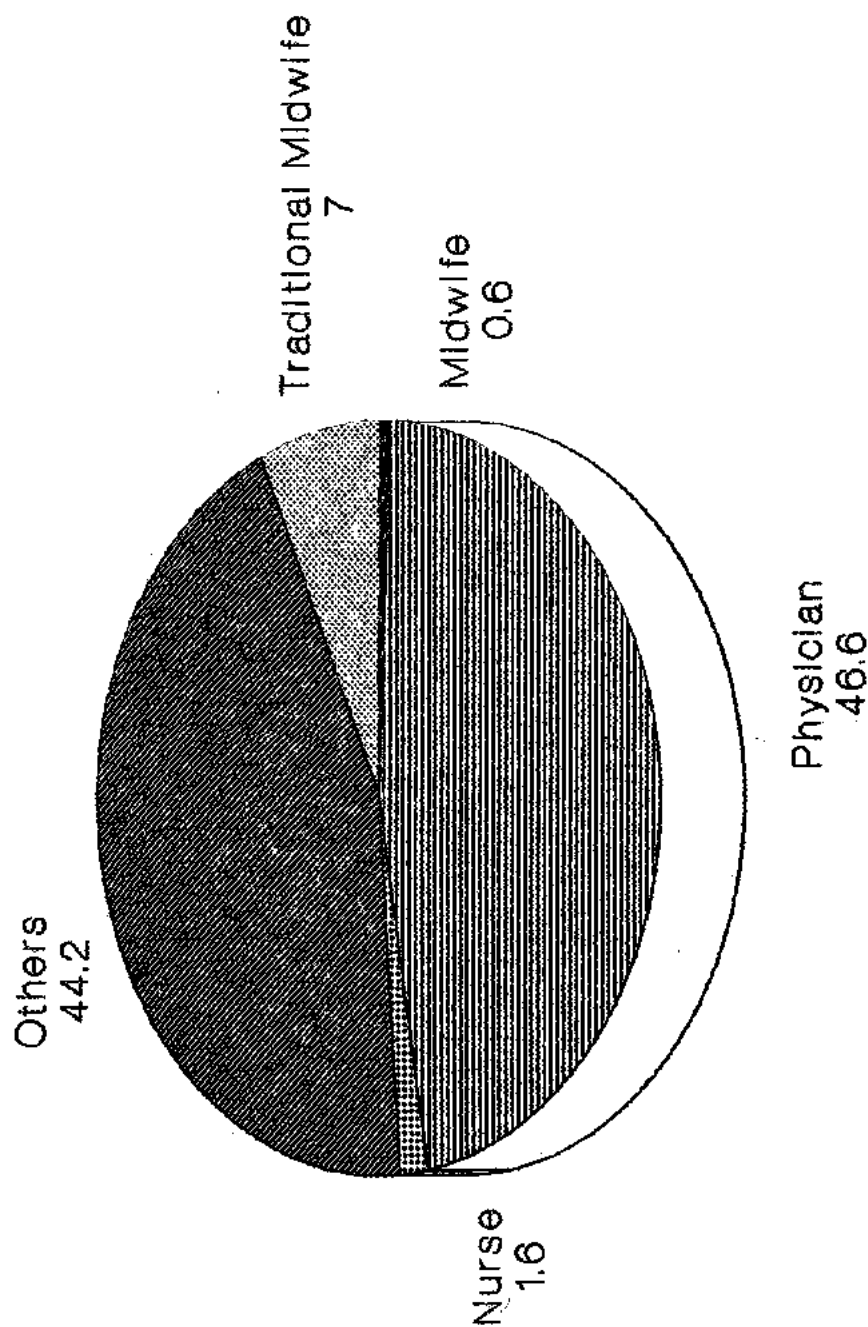


Fig. 33

FETAL MORTALITY BY CAUSE & BIRTH WEIGHT  
No. & Percentage Distribution  
PHILIPPINES  
1990

| C A U S E   | Total<br>Fetal<br>Deaths | 1000 &<br>below<br>grams |      | 1001 to<br>1500<br>grams |      | 1501 to<br>2000<br>grams |      | 2001 to<br>2500<br>grams |      | 2501 to<br>3000<br>grams |      |
|---|--------------------------|--------------------------|------|--------------------------|------|--------------------------|------|--------------------------|------|--------------------------|------|
|   |                          | No.                      | %    | No.                      | %    | No.                      | %    | No.                      | %    | No.                      | %    |
| Fetus affected by maternal conditions which may be unrelated to present pregnancy.....(760) | 409                      | 52                       | 12.7 | 43                       | 10.5 | 53                       | 13.0 | 44                       | 10.0 | 31                       | 7.6  |
| Fetus affected by maternal complications of pregnancy.....(761)                             | 231                      | 4                        | 1.7  | 9                        | 3.8  | 16                       | 7.0  | 17                       | 7.4  | 27                       | 11.7 |
| Fetus affected by complications of placenta, cord and membranes.....(762)                   | 2518                     | 341                      | 13.5 | 245                      | 9.7  | 230                      | 9.1  | 226                      | 9.0  | 239                      | 9.5  |
| Fetus affected by other complications of labour and delivery.....(763)                      | 574                      | 13                       | 2.3  | 16                       | 2.8  | 14                       | 2.4  | 32                       | 5.5  | 79                       | 14.0 |
| Slow fetal growth and fetal malnutrition..(764)   | 2                        | 0                        | -    | 0                        | -    | 0                        | -    | 0                        | -    | 0                        | -    |
| Disorders relating to short gestation and unspecified low birth weight.....(765)            | 1510                     | 96                       | 6.4  | 89                       | 5.9  | 90                       | 6.0  | 67                       | 4.4  | 50                       | 3.3  |
| Disorders relating to long gestation and high birth weight.....(766)                        | 106                      | 0                        | -    | 4                        | 3.7  | 0                        | -    | 6                        | 5.6  | 18                       | 17.0 |
| Birth trauma.....(767)  | 0                        | 0                        | -    | 0                        | -    | 0                        | -    | 0                        | -    | 0                        | -    |
| Intrauterine hypoxia and birth asphyxia.....(768)   | 893                      | 28                       | 3.1  | 29                       | 3.2  | 45                       | 5.0  | 75                       | 8.3  | 94                       | 11.0 |
| Respiratory distress syndrome.....(769)   | 207                      | 3                        | 1.4  | 5                        | 2.4  | 7                        | 3.3  | 12                       | 5.7  | 21                       | 10.1 |
| Other respiratory conditions of fetus.....(770)   | 55                       | 5                        | 9.0  | 2                        | 3.6  | 2                        | 3.6  | 3                        | 5.4  | 2                        | 3.6  |

FETAL MORTALITY BY CAUSE & BIRTH WEIGHT  
No. & Percentage Distribution  
PHILIPPINES  
1990

| C A U S E   | Total<br>Fetal<br>Deaths | 1000 &<br>below<br>grams |     | 1001 to<br>1500<br>grams |     | 1501 to<br>2000<br>grams |     | 2001 to<br>2500<br>grams |     | 2501 to<br>3000<br>grams |     |
|---|--------------------------|--------------------------|-----|--------------------------|-----|--------------------------|-----|--------------------------|-----|--------------------------|-----|
|   |                          | No.                      | %   | No.                      | %   | No.                      | %   | No.                      | %   | No.                      | %   |
| Infections specific to the<br>perinatal period....(771)                                     | 87                       | 1                        | 1.1 | 0                        | -   | 3                        | 3.4 | 7                        | 8.0 | 3                        | 3.4 |
| Fetal haemorrhage....(772)  | 0                        | 0                        | -   | 0                        | -   | 0                        | -   | 0                        | -   | 0                        | -   |
| Haemolytic diseases of<br>fetus due to isoimmunization.....(773)                            | 1                        | 0                        | -   | 0                        | -   | 0                        | -   | 0                        | -   | 0                        | -   |
| Other perinatal<br>jaundice.....(774)   | 1                        | 0                        | -   | 0                        | -   | 0                        | -   | 0                        | -   | 0                        | -   |
| Endocrine and metabolic<br>disturbances specific to<br>the fetus.....(775)                  | 2                        | 0                        | -   | 0                        | -   | 0                        | -   | 0                        | -   | 0                        | -   |
| Haematological disorders<br>of fetus.....(776)  | 1                        | 0                        | -   | 0                        | -   | 0                        | -   | 0                        | -   | 0                        | -   |
| Perinatal disorders of<br>digestive system....(777)   | 1                        | 0                        | -   | 0                        | -   | 0                        | -   | 0                        | -   | 0                        | -   |
| Conditions involving the<br>integument and temperature<br>regulations of<br>fetus.....(778) | 0                        | 0                        | -   | 0                        | -   | 0                        | -   | 0                        | -   | 0                        | -   |
| Other and ill-defined<br>conditions originating<br>in the perinatal<br>period.....(779)     | 5317                     | 220                      | 4.1 | 237                      | 4.4 | 255                      | 5.0 | 333                      | 6.3 | 356                      | 6.6 |
| T O T A L   | 11915                    | 763                      | 6.4 | 679                      | 5.6 | 715                      | 6.0 | 822                      | 6.9 | 920                      | 7.7 |

TABLE 32

FETAL MORTALITY BY CAUSE & BIRTH WEIGHT  
No. & Percentage Distribution  
PHILIPPINES  
1990

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| C A U S E   | 3001 to<br>3500<br>grams |      | 3501 to<br>4000<br>grams |     | 4001 to<br>4500<br>grams |     | 4501 to<br>5000<br>grams |     | 5001 to<br>above<br>grams |     | Not<br>Stated |      |
|---|--------------------------|------|--------------------------|-----|--------------------------|-----|--------------------------|-----|---------------------------|-----|---------------|------|
|   | No.                      | %    | No.                      | %   | No.                      | %   | No.                      | %   | No.                       | %   | No.           | %    |
| Fetus affected by maternal conditions which may be unrelated to present pregnancy.....(760) | 25                       | 6.1  | 6                        | 1.5 | 2                        | 0.5 | 1                        | 0.2 | 2                         | 0.5 | 150           | 36.6 |
| Fetus affected by maternal complications of pregnancy.....(761)                             | 30                       | 13.0 | 14                       | 6.1 | 6                        | 2.6 | 4                        | 1.7 | 1                         | 0.4 | 103           | 44.6 |
| Fetus affected by complications of placenta, cord and membranes.....(762)                   | 156                      | 6.2  | 61                       | 2.4 | 15                       | 0.6 | 5                        | 0.2 | 7                         | 0.3 | 994           | 39.5 |
| Fetus affected by other complications of labour and delivery.....(763)                      | 54                       | 9.4  | 29                       | 5.0 | 7                        | 1.2 | 4                        | 0.7 | 2                         | 0.3 | 324           | 56.4 |
| Slow fetal growth and fetal malnutrition...(764)  | 0                        | -    | 0                        | -   | 0                        | -   | 0                        | -   | 0                         | -   | 2             | 100  |
| Disorders relating to short gestation and unspecified low birth weight.....(765)            | 20                       | 1.3  | 12                       | 0.8 | 3                        | 0.2 | 2                        | 0.1 | 0                         | -   | 1081          | 71.6 |
| Disorders relating to long gestation and high birth weight.....(766)                        | 18                       | 17.0 | 10                       | 9.4 | 1                        | 1.0 | 1                        | 1.0 | 0                         | -   | 48            | 45.3 |
| Birth trauma.....(767)  | 0                        | -    | 0                        | -   | 0                        | -   | 0                        | -   | 0                         | -   | 0             | -    |
| Intrauterine hypoxia and birth asphyxia.....(768)   | 55                       | 6.1  | 32                       | 3.5 | 11                       | 1.2 | 3                        | 0.3 | 1                         | 0.1 | 520           | 58.2 |
| Respiratory distress syndrome.....(769)   | 10                       | 4.8  | 5                        | 2.4 | 2                        | 0.9 | 0                        | -   | 0                         | -   | 142           | 69.0 |
| Other respiratory conditions of fetus.....(770)   | 3                        | 5.4  | 2                        | 3.6 | 1                        | 1.8 | 0                        | -   | 0                         | -   | 35            | 6.4  |

FETAL MORTALITY BY CAUSE & BIRTH WEIGHT  
No. & Percentage Distribution  
PHILIPPINES  
1990

| C A U S E   | 30001 to<br>35000<br>grams |       | 3501 to<br>4000<br>grams |     | 4001 to<br>4500<br>grams |     | 4501 to<br>5000<br>grams |     | 5001 to<br>above<br>grams |     | Not<br>Stated |       |
|---|----------------------------|-------|--------------------------|-----|--------------------------|-----|--------------------------|-----|---------------------------|-----|---------------|-------|
|   | No.                        | %     | No.                      | %   | No.                      | %   | No.                      | %   | No.                       | %   | No.           | %     |
| Infections specific to the<br>perinatal period....(771)                                     | 6                          | 6.8   | 2                        | 2.2 | 0                        | -   | 1                        | 1.1 | 0                         | -   | 64            | 74.0  |
| Fetal haemorrhage....(772)  | 0                          | -     | 0                        | -   | 0                        | -   | 0                        | -   | 0                         | -   | 0             | -     |
| Haemolytic diseases of<br>fetus due to isoimmunization.....(773)                            | 0                          | -     | 0                        | -   | 0                        | -   | 0                        | -   | 0                         | -   | 1             | 100.0 |
| Other perinatal<br>jaundice.....(774)   | 1                          | 100.0 | 0                        | -   | 0                        | -   | 0                        | -   | 0                         | -   | 0             | -     |
| Endocrine and metabolic<br>disturbances specific to<br>the fetus.....(775)                  | 0                          | -     | 0                        | -   | 0                        | -   | 0                        | -   | 0                         | -   | 2             | 100.0 |
| Haematological disorders<br>of fetus.....(776)  | 0                          | -     | 0                        | -   | 0                        | -   | 0                        | -   | 0                         | -   | 1             | 100.0 |
| Perinatal disorders of<br>digestive system....(777)   | 0                          | -     | 0                        | -   | 0                        | -   | 0                        | -   | 0                         | -   | 1             | 100.0 |
| Conditions involving the<br>integument and temperature<br>regulations of<br>fetus.....(778) | 0                          | -     | 0                        | -   | 0                        | -   | 0                        | -   | 0                         | -   | 0             | -     |
| Other and ill-defined<br>conditions originating<br>in the perinatal<br>period.....(779)     | 244                        | 4.6   | 117                      | 2.2 | 50                       | 1.0 | 11                       | 0.2 | 12                        | 0.2 | 3482          | 65.4  |
| T O T A L   | 621                        | 5.2   | 290                      | 2.4 | 98                       | 1.0 | 32                       | 0.3 | 25                        | 0.2 | 6950          | 58.3  |

TABLE 33

LATE FETAL DEATHS BY AGE AGE OF MOTHER & BIRTH ORDER  
PHILIPPINES  
1990

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| BIRTH<br>ORDER       | TOTAL<br>BIRTH | Late Fetal<br>Deaths |       | AGE OF MOTHER      |       |       |       |       |       |       |              |                    |
|----------------------|----------------|----------------------|-------|--------------------|-------|-------|-------|-------|-------|-------|--------------|--------------------|
|                      |                | No.                  | Rate* | Less<br>than<br>15 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45 &<br>Over | Not<br>Sta-<br>ted |
| First.....           | 442,902        | 1,909                | 4.3   | 10                 | 322   | 720   | 478   | 214   | 86    | 24    | 53           | 1                  |
| Second.....          | 354,855        | 1,439                | 4.0   | 0                  | 138   | 552   | 417   | 190   | 86    | 23    | 33           | 0                  |
| Third.....           | 276,873        | 1,211                | 4.4   | 0                  | 52    | 338   | 437   | 228   | 105   | 24    | 27           | 0                  |
| Fourth.....          | 190,552        | 978                  | 5.1   | 0                  | 19    | 192   | 301   | 254   | 151   | 37    | 24           | 0                  |
| Fifth.....           | 125,114        | 728                  | 5.8   | 0                  | 4     | 74    | 208   | 225   | 141   | 46    | 30           | 0                  |
| Sixth.....           | 84,068         | 579                  | 7.0   | 0                  | 0     | 28    | 125   | 190   | 152   | 65    | 19           | 0                  |
| Seventh.....         | 55,296         | 404                  | 7.3   | 0                  | 0     | 15    | 58    | 109   | 140   | 60    | 22           | 0                  |
| Eighth.....          | 36,351         | 301                  | 8.3   | 0                  | 0     | 10    | 32    | 82    | 106   | 54    | 17           | 0                  |
| Ninth.....           | 22,355         | 227                  | 10.1  | 0                  | 0     | 11    | 23    | 53    | 79    | 46    | 15           | 0                  |
| Tenth &<br>Over..... | 14,419         | 428                  | 30.0  | 0                  | 0     | 7     | 32    | 71    | 143   | 135   | 40           | 0                  |
| Not Stated...        | 28,284         | 3,711                | 131.2 | 0                  | 203   | 612   | 536   | 393   | 268   | 88    | 1,608        | 3                  |
| TOTAL.....           | 1,631,068      | 11,915               | 7.3   | 10                 | 738   | 2,559 | 2,648 | 2,009 | 1,457 | 602   | 1,888        | 4                  |

\*Per 1,000 livebirths of their respective birth order.

TABLE 34 FETAL DEATHS BY AGE OF MOTHER & BIRTH ORDER  
PHILIPPINES  
1990

| BIRTH<br>ORDER                          | TOTAL<br>FETAL<br>DEATHS | AGE OF MOTHER<br>( Y E A R S ) |         |         |         |         |
|---|--------------------------|--------------------------------|---------|---------|---------|---------|
|   |                          | Less<br>than<br>15             | 15-19   | 20-24   | 25-29   | 30-34   |
| First.....                              | 1,001                    | 5                              | 150     | 358     | 279     | 123     |
| Second.....                             | 656                      | 0                              | 58      | 213     | 217     | 96      |
| Third.....                              | 573                      | 0                              | 23      | 141     | 210     | 126     |
| Fourth.....                             | 466                      | 0                              | 10      | 87      | 137     | 125     |
| Fifth.....                              | 344                      | 0                              | 2       | 34      | 90      | 113     |
| Sixth.....                              | 280                      | 0                              | 0       | 8       | 50      | 95      |
| Seventh.....                            | 197                      | 0                              | 0       | 7       | 25      | 56      |
| Eight.....                              | 129                      | 0                              | 0       | 0       | 15      | 34      |
| Ninth.....                              | 101                      | 0                              | 0       | 2       | 6       | 23      |
| Tenth &<br>Over.....                    | 442                      | 0                              | 68      | 182     | 13      | 34      |
| Not Stated.....                         | 455                      | 0                              | 0       | 0       | 171     | 127     |
| Total Fetal Death..                     | 4,624                    | 5                              | 311     | 1,032   | 1,213   | 952     |
| Percent.....                            | 100.0                    | 0.1                            | 6.7     | 22.3    | 26.2    | 20.6    |
| Rate*.....                              | 2.8                      | 17.4                           | 2.8     | 2.2     | 2.6     | 3.0     |
| Total Livebirths<br>by Age of Mother... | 1,631,069                | 287                            | 111,900 | 471,039 | 473,534 | 318,000 |

\*Per 1,000 livebirths of the corresponding age-group of Mother.

TABLE 34 FETAL DEATHS BY AGE OF MOTHER & BIRTH ORDER  
PHILIPPINES  
1990

| BIRTH<br>ORDER                          | AGE OF MOTHER<br>( Y E A R S ) |         |              |               |
|---|--------------------------------|---------|--------------|---------------|
|   | 35 - 39                        | 40 - 44 | 45 &<br>Over | Not<br>Stated |
| First.....                              | 51                             | 14      | 21           | 0             |
| Second.....                             | 50                             | 12      | 10           | 0             |
| Third.....                              | 56                             | 14      | 4            | 0             |
| Fourth.....                             | 30                             | 19      | 8            | 0             |
| Fifth.....                              | 74                             | 24      | 7            | 0             |
| Sixth.....                              | 66                             | 37      | 4            | 0             |
| Seventh.....                            | 69                             | 33      | 7            | 0             |
| Eight.....                              | 47                             | 24      | 9            | 0             |
| Ninth.....                              | 38                             | 25      | 7            | 0             |
| Tenth &<br>Over.....                    | 70                             | 61      | 14           | 0             |
| Not Stated.....                         | 88                             | 29      | 40           | 0             |
| Total Fetal Death..                     | 689                            | 291     | 131          | 0             |
| Percent.....                            | 15.0                           | 6.3     | 2.8          | -             |
| Rate*.....                              | 4.0                            | 5.0     | 13.3         | -             |
| Total Livebirths<br>by Age of Mother... | 174890                         | 59539   | 9874         | 12006         |

\*Per 1,000 livebirths of the corresponding age-group of Mother.

# FETAL DEATHS BY AGE OF MOTHER

Rate per 1,000 Livebirths

## PHILIPPINES, 1990

AGE OF MOTHER

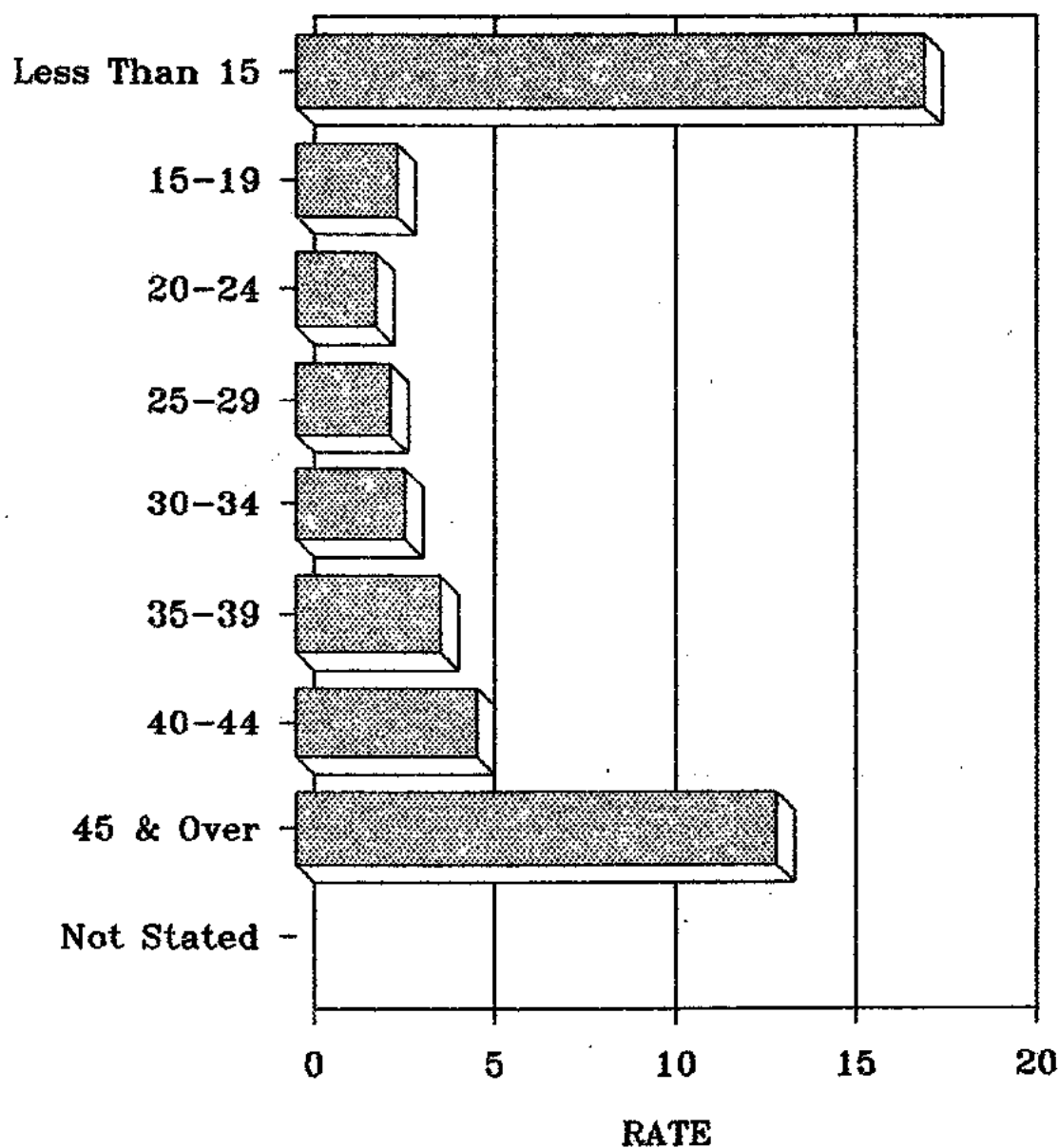


Fig. 34

TABLE 35

FETAL DEATHS BY CAUSE  
No. & Percentage Distribution  
PHILIPPINES  
1990

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| CAUSE   | Number | Percent of Fetal Deaths |
|---|--------|-------------------------|
| Fetus affected by maternal conditions which may be unrelated to present pregnancy.....(760) | 409    | 3.43                    |
| Fetus affected by maternal complications of pregnancy.....(761)                             | 231    | 1.94                    |
| Fetus affected by complications of placenta, cord and membranes.....(762)                   | 2518   | 21.13                   |
| Fetus affected by other complications of labour and delivery.....(763)                      | 574    | 4.82                    |
| Slow fetal growth and fetal malnutrition.....(764)  | 2      | 0.02                    |
| Disorders relating to short gestations and unspecified low birth weight.....(765)           | 1510   | 12.67                   |
| Disorders relating to long gestations and and high birth weight.....(766)                   | 106    | 0.89                    |
| Birth trauma.....(767)  | 0      | -                       |
| Intrauterine hypoxia and asphyxia.....(768)   | 893    | 7.49                    |
| Respiratory distress syndrome.....(769)   | 207    | 1.74                    |
| Other respiratory conditions of fetus.....(770)   | 55     | 0.46                    |
| Infections specific to the perinatal period..(771)  | 87     | 0.73                    |
| Fetal haemorrhage.....(772)   | 0      | -                       |
| Haemolytic disease of fetus due to isoimmunization.....(773)                                | 1      | 0.01                    |
| Other perinatal jaundice.....(774)  | 1      | 0.01                    |
| Endocrine and metabolic disturbances specific to the fetus.....(775)                        | 2      | 0.02                    |
| Haematological disorders of fetus.....(776)   | 1      | 0.01                    |
| Perinatal disorders of digestive system.....(777)   | 1      | 0.01                    |
| Conditions involving the integument and temperature regulation of fetus.....(778)           | 0      | -                       |
| Other and ill-defined conditions originating in the perinatal period.....(779)              | 5317   | 44.62                   |
| TOTAL   | 11915  | 100.0                   |