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## STATISTICAL REPORT

1991

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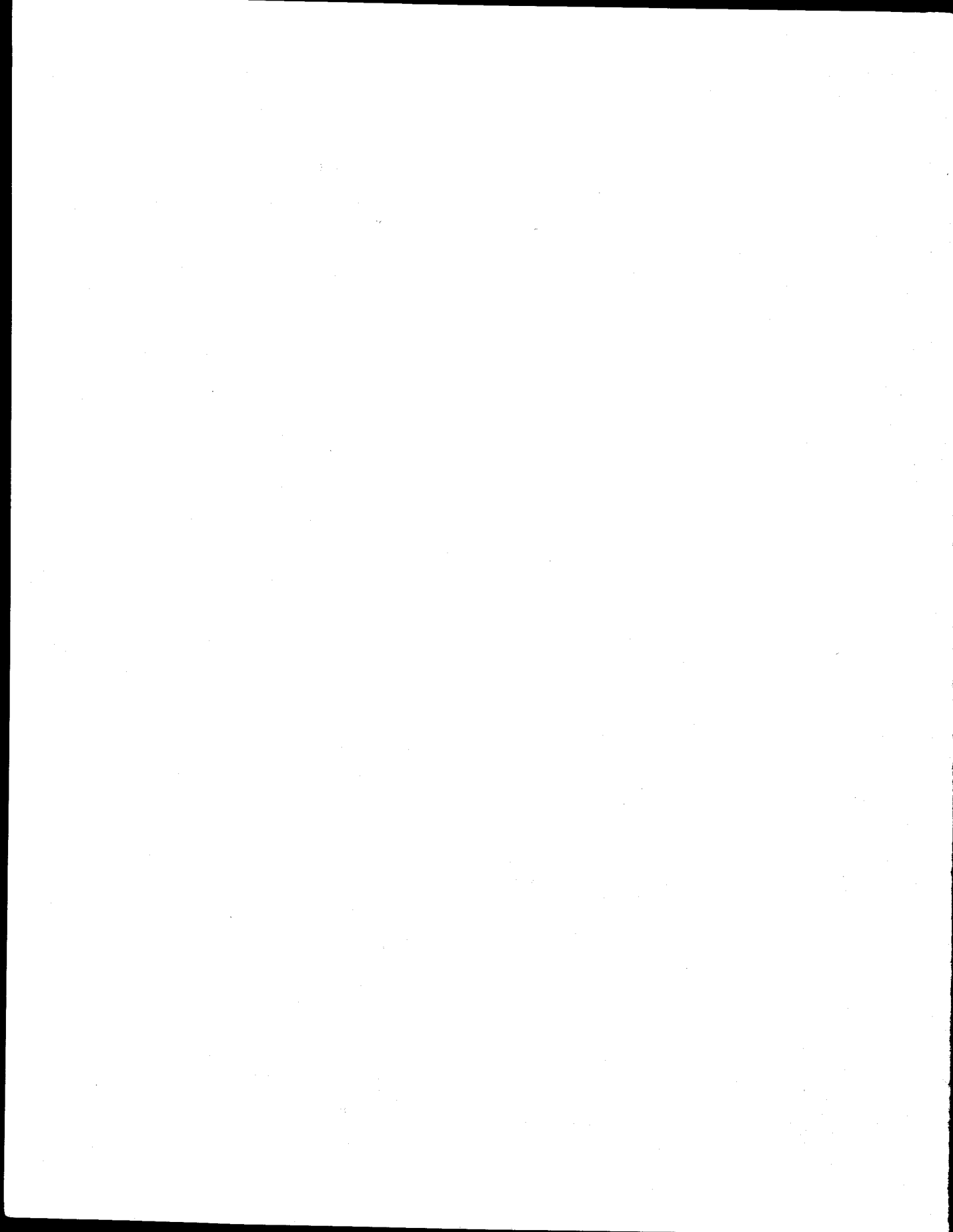
AGANA, GUAM

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GOVERNMENT OF GUAM

DEPARTMENT OF PUBLIC HEALTH  
and SOCIAL SERVICES





# ***Annual Statistical Report***

**1991**



Department of Public Health and Social Services

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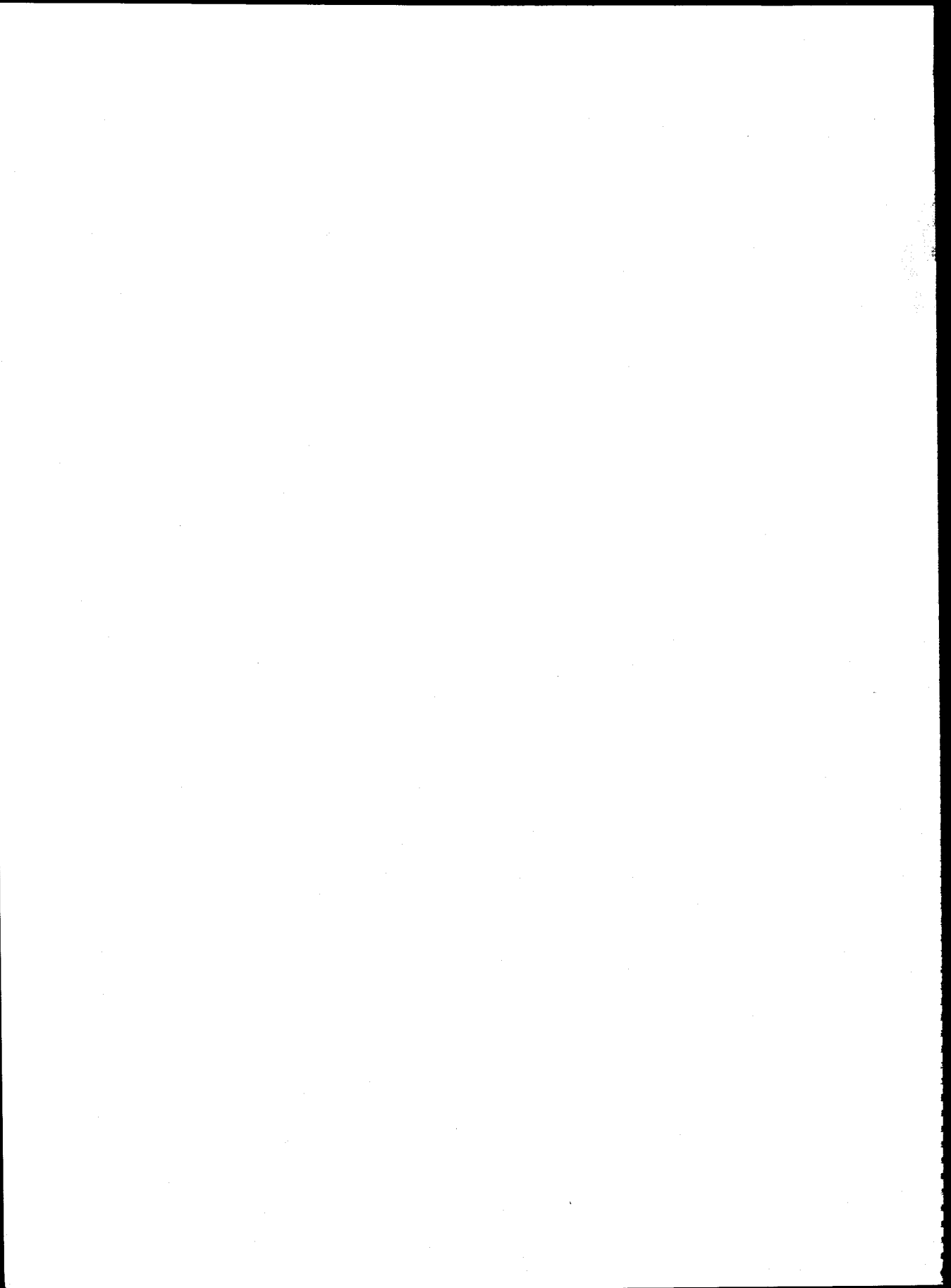


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## FOREWORD

This volume is the 22nd edition of the Annual Statistical Report prepared in booklet form.

The report, required under Section 3108 of 10 Government Code Annotated, Chapter 3, shows data on Guam's births, deaths, infant and fetal deaths, marriages and divorces. It contains data compiled from certificates registered with the Office of Vital Statistics (see Appendix for certificates). The time period is based on calendar year 1991.

Records received in this office from the hospitals are carefully reviewed for inconsistencies and are queried when necessary. Statistics are compiled annually for the report and other studies when registration is complete.

It is hoped that this report will be useful to health data users. It provides its users with an overview of the health status of Guam's population. Questions and comments concerning data presented in this report should be directed to the Department of Public Health and Social Services, Office of Vital Statistics, P.O. Box 2816, Agana, Guam 96910.

In analyzing any data, the possibility of errors should not be overlooked. There are several types of errors, including errors by the informant as well as errors in processing and compilation. The most potentially dangerous error would be that of improper interpretation.

**NATALITY** - In 1991, 3921 babies were born, an increase of 71 from 1990. The crude birth rate -- the number of births per 1,000 population -- was 28.7

There were 16 live births to mothers under 15 years old and only 3 live births to mothers 45 years old and over. Women aged 15 to 44 years were responsible for 99.4 percent of all live births for the year. Teenagers -- those under the age of 20 -- accounted for 560 births or 14.3 percent of all live births. The youngest mother giving birth in 1991 was 13 years old.

Out of a total of 3921 live births, 64.4 percent were born to women receiving prenatal care in the first trimester. The percent of mothers beginning care during the second trimester was 24.5. The percentage of women giving birth and receiving no prenatal care was 3.6 percent.

Education attainment of women varied with their age. The 21.6 percent of mothers who had less than a 12th grade education in 1991 was higher than the 20.5 percent in 1990. The proportion of mothers who had completed at least 4 years of college was 8.8 percent.

Birthweights of 5 pounds 8 ounces or less are defined as low birthweight births, an indicator of prematurity. In 1991, low birthweight births accounted for 7.4 percent of all births. The 150 low birthweight births to mothers between the ages of 15 and 24 was 3.8 percent of the births.

**MORTALITY** - The number of deaths occurring in 1991 came to a total of 607, an increase of 50 from 1990. The crude death rate was 4.4 per 1,000 population as compared to 4.2 for 1990.

A total of 304 individuals who died in 1991 had been married. The percent for females was 40.3 percent, for males 56.1 percent. The proportion who were widowed at the time of death was greater for women (32.5 percent) than for men (9.6 percent).

The top three causes of death for the year were (1) diseases of the heart, (2) malignant neoplasms and (3) cerebrovascular diseases. The ranking of the first and second causes has remained the same since 1985.

The total number of infant deaths increased from 33 in 1990 to 36 in 1991. The Infant Mortality Rate was 9.2 per 1,000 live births. There were 38 fetal deaths for a rate of 9.7 per 1,000 live births.

The year ended with 16 victims of homicide, 22 suicides and 39 motor vehicle accidents. These three causes of death occurred mainly among men -- 13 cases or 81.3 percent of all homicides, 21 suicides (95.5 percent) and 29 motor vehicle deaths (74.4 percent).

**MARRIAGES** - The year ended with 1442 marriages, 9 more than 1990. The 1991 rate was 10.5 per 1,000 population.

The greatest number of marriages occurred between brides within the 20 to 24 year age group with 525 marriages (36.4 percent) and grooms within the 20 to 24 year age group with 490 marriages (34.0 percent).

In 1991, the age group 25 to 29 was the most common age group for first marriages for both brides and grooms.

**DIVORCES** - For the first time, the number of divorces granted went down, from 920 in 1990 to 855 in 1991, a decrease of 65 cases, showing a rate of 6.3 per 1,000 population. There were 21 annulments processed.

Out of the total 876 persons who were granted divorces and annulments, 670 (76.5 percent) were between the ages of 25 and 34.

Fifty eight divorces and annulments or 6.6 percent were dissolved under one year of marriage.

**Legend:**

|      |  |
|------|--|
| FSM  | Federated States of the Micronesia which includes the islands of Chuuk, Kosrae, Pohnpei and Yap States |
| RMI  | Republic of the Marshall Islands   |
| CNMI | Commonwealth of the Northern Mariana Islands which includes the islands of Saipan, Tinian and Rota     |
| PI   | Philippines  |
| GMH  | Guam Memorial Hospital   |
| NRMC | Naval Regional Medical Center  |

## SUMMARY

### Definitions

Since this report uses various terms and technical connotations, it is necessary to define them to aid the reader in correctly interpreting the data. The following terms and notes are listed to help:

|                                  |  |
|----------------------------------|--|
| <b>Birth Weight</b>              | Weight of fetus or infant at time of delivery.   |
| <b>Live Birth</b>                | The complete expulsion or extraction from its mother of a product of human conception, irrespective of the duration of pregnancy, which, after such expulsion or extraction, breathes or shows any other evidence of life such as beating of the heart, pulsation of the umbilical cord or definite movement of the voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached. |
| <b>Gestational Period</b>        | Number of weeks elapsed between the first day of the last menstrual period and date of delivery.   |
| <b>Live-Birth Order</b>          | Order number is equal to number of previous live births plus current birth.  |
| <b>Low-Weight</b>                | Birth wherein the weight is equivalent to 2,500 grams or less (5 lbs., 8 ozs.) regardless of the period of gestation.  |
| <b>Fetal Death</b>               | Death prior to the complete expulsion or extraction from its mother of a product of human conception, irrespective of the duration of pregnancy; the death is indicated by the fact that after such expulsion or extraction the fetus does not breathe or show any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles.                |
| <b>Infant Death</b>              | Death occurring to an individual of less than one year of age.   |
| <b>Maternal Death</b>            | Death wherein the physician has designated a maternal condition as the underlying cause of death.  |
| <b>Neonatal Death</b>            | Death occurring to an infant less than 28 days of age.   |
| <b>Occurrence</b>                | Place where the event actually occurred.   |
| <b>Natural Increase</b>          | The excess of births over deaths.  |
| <b>Perinatal Death</b>           | Neonatal deaths plus fetal deaths  |
| <b>Postneonatal Death</b>        | Death of a live born infant 28 to 364 days of age.   |
| <b>Underlying Cause of Death</b> | That condition giving rise to the chain of events leading to death.  |

Rates

|                                |  |
|--------------------------------|--|
| Crude Birth Rate               | $\frac{\text{Total live births} \times 1,000}{\text{Total populations}}$                               |
| Illegitimacy Rate              | $\frac{\text{Total illegitimate births} \times 1,000}{\text{Total live births}}$                       |
| Crude Death Rate               | $\frac{\text{Total deaths} \times 1,000}{\text{Total Population}}$                                     |
| Crude Rate of Natural Increase | $\frac{\text{Live births minus deaths} \times 1,000}{\text{Total population}}$                         |
| Crude Divorce Rate             | $\frac{\text{Total divorces} \times 1,000}{\text{Total population}}$                                   |
| Infant Mortality Rate          | $\frac{\text{Deaths under one year of age} \times 1,000}{\text{Total live births}}$                    |
| Fetal Mortality Rate           | $\frac{\text{Total fetal deaths} \times 1,000}{\text{Total live births}}$                              |
| Neonatal Mortality Rate        | $\frac{\text{Deaths less than 28 days} \times 1,000}{\text{Total live births}}$                        |
| Perinatal Mortality Rate       | $\frac{\text{Total perinatal death} \times 1,000}{\text{Total live births plus fetal deaths}}$         |
| Marriage Rate                  | $\frac{\text{Total marriages} \times 1,000}{\text{Total population}}$                                  |
| Fertility Rate                 | $\frac{\text{Total live births} \times 1,000}{\text{Female population 15 to 44}}$                      |
| Maternal Mortality Rate        | $\frac{\text{Total maternal deaths} \times 1,000}{\text{Total live births}}$                           |
| Low Weight Birth Rate          | $\frac{\text{Total live births weighing less than 5 lbs 8ozs} \times 1,000}{\text{Total live births}}$ |

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Summary of Vital Events, Guam: 1989 - 1991.

| Event           | 1989    |       | 1990    |       | 1991    |       |
|-----------------|---------|-------|---------|-------|---------|-------|
|                 | Number  | Rate  | Number  | Rate  | Number  | Rate  |
| Live Births     | 3,565   | 27.1  | 3,850   | 28.9  | 3,921   | 28.7  |
| Legitimate      | 2,325   | 652.2 | 2,336   | 606.8 | 2,364   | 602.9 |
| Illegitimate    | 1,240   | 374.8 | 1,514   | 393.2 | 1,557   | 397.1 |
| Deaths          | 544     | 4.1   | 557     | 4.2   | 607     | 4.4   |
| Infant Deaths   | 44      | 12.3  | 33      | 8.6   | 36      | 9.5   |
| Neonatal Deaths | 25      | 7.0   | 25      | 6.5   | 23      | 5.9   |
| Maternal Deaths | 0       | 0     | 0       | 0     | 1       | 0.3   |
| Fetal Deaths    | 35      | 9.8   | 29      | 7.5   | 38      | 9.7   |
| Marriages       | 1,371   | 10.4  | 1,433   | 10.8  | 1,442   | 10.5  |
| Divorces        | 1,147   | 8.7   | 920     | 6.9   | 855     | 6.3   |
| Population *    | 131,619 |       | 133,152 |       | 136,773 |       |

Birth and death rates per 1,000 population. Infant, neonatal, maternal, and fetal death rates per 1,000 live births.

\* Population estimates by the Bureau of Planning.

Births and Deaths and Resultant Natural Increase, Guam: 1968 - 1991

| Year | Births | Deaths | Natural Increase |
|------|--------|--------|------------------|
| 1968 | 2512   | 356    | 2156             |
| 1969 | 2699   | 421    | 2278             |
| 1970 | 2875   | 355    | 2520             |
| 1971 | 3068   | 364    | 2704             |
| 1972 | 3206   | 409    | 2797             |
| 1973 | 3234   | 435    | 2799             |
| 1974 | 3226   | 449    | 2777             |
| 1975 | 3163   | 441    | 2722             |
| 1976 | 3048   | 466    | 2582             |
| 1977 | 3007   | 380    | 2627             |
| 1978 | 2905   | 424    | 2481             |
| 1979 | 2950   | 377    | 2573             |
| 1980 | 3003   | 422    | 2581             |
| 1981 | 3008   | 406    | 2602             |
| 1982 | 2992   | 443    | 2549             |
| 1983 | 3184   | 462    | 2722             |
| 1984 | 3067   | 450    | 2617             |
| 1985 | 3197   | 441    | 2756             |
| 1986 | 3309   | 451    | 2858             |
| 1987 | 3355   | 486    | 2869             |
| 1988 | 3548   | 492    | 3056             |
| 1989 | 3565   | 544    | 3021             |
| 1990 | 3850   | 557    | 3293             |
| 1991 | 3921   | 607    | 3314             |

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Births and Deaths and Rates Per Thousand Population, Guam: 1973 - 1991

| Year | Births | Rate | Deaths | Rate | Population |
|------|--------|------|--------|------|------------|
| 1973 | 3,234  | 30.9 | 435    | 4.2  | 104,572    |
| 1974 | 3,226  | 29.2 | 449    | 4.1  | 110,294    |
| 1975 | 3,163  | 29.8 | 441    | 4.1  | 106,310    |
| 1976 | 3,048  | 27.3 | 466    | 4.2  | 111,599    |
| 1977 | 3,007  | 26.3 | 380    | 3.3  | 114,236    |
| 1978 | 2,903  | 24.9 | 424    | 3.6  | 116,741    |
| 1979 | 2,950  | 28.1 | 377    | 3.6  | 105,000    |
| 1980 | 3,003  | 28.4 | 422    | 4.0  | 105,830    |
| 1981 | 3,008  | 28.4 | 406    | 3.8  | 105,830    |
| 1982 | 2,992  | 27.5 | 443    | 4.1  | 108,700    |
| 1983 | 3,184  | 28.9 | 462    | 4.2  | 110,000    |
| 1984 | 3,067  | 25.6 | 450    | 3.8  | 119,899    |
| 1985 | 3,197  | 26.6 | 441    | 3.7  | 120,229    |
| 1986 | 3,309  | 26.7 | 451    | 3.6  | 123,845    |
| 1987 | 3,355  | 26.3 | 486    | 3.8  | 127,510    |
| 1988 | 3,548  | 27.4 | 492    | 3.8  | 129,306    |
| 1989 | 3,565  | 27.1 | 544    | 4.1  | 131,619    |
| 1990 | 3,850  | 28.9 | 557    | 4.2  | 133,152    |
| 1991 | 3,921  | 28.7 | 607    | 4.4  | 136,773    |

## Ten Leading Causes of Death, Guam: 1981 - 1991.

| Cause of Death   | Code Number* | 1991 R | 1990 R | 1989 R | 1988 R | 1987 R | 1986 R | 1985 R | 1984 R | 1983 R | 1982 R | 1981 R |
|--|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| All Causes   |              | 607    | 557    | 544    | 492    | 486    | 451    | 441    | 450    | 462    | 443    | 406    |
| Disease of the Heart                                     | 390-429      | 125    | 121    | 123    | 128    | 109    | 140    | 110    | 113    | 137    | 116    | 96     |
| Neoplasms  | 140-239      | 75     | 83     | 66     | 91     | 66     | 57     | 66     | 60     | 60     | 64     | 58     |
| Cerebrovascular Disease                                  | 430-438      | 52     | 34     | 30     | 28     | 36     | 31     | 31     | 30     | 22     | 25     | 31     |
| Other Disease of the<br>Central Nervous<br>System ALS/PD | 332-3352     | 17     | 9      |        |        | 13     | 10     | 17     | 15     | 24     | 12     | 7      |
| Diabetes Mellitus  | 250          | 30     | 31     | 33     | 26     | 19     | 16     | 22     | 30     | 15     | 17     | 11     |
| All Other Accidents                                      | E826-E949    | 33     | 26     | 38     | 18     | 30     | 4      | 21     | 23     | 18     | 16     | 26     |
| Chronic Liver Disease<br>and Cirrhosis                   | 571          | 16     | 10     | 19     | 17     | 7      |        |        | 11     | 9      | 15     | 14     |
| Motor Vehicle Accident                                   | E810-E825    | 39     | 4      | 34     | 16     | 26     | 31     | 21     | 25     | 29     | 31     | 21     |
| Pneumonia  | 480-487      | 17     | 8      | 24     | 19     | 21     | 26     | 19     | 17     | 17     | 10     | 9      |
| Suicide  | 950-959      | 22     | 7      | 16     | 14     | 15     | 12     | 11     |        |        | 9      | 10     |
| Homicide   | E960-E978    |        | 16     | 10     | 16     | 12     | 10     | 12     | 18     | 7      | 16     | 12     |
| Perinatal Conditions                                     | 760-779      |        | 16     | 9      |        |        | 7      | 9      | 9      | 10     | 12     | 10     |
| Congenital Anomalies                                     | 740-759      |        |        |        |        |        |        | 12     | 11     | 121    | 136    | 116    |
| All Others   |              | 181    | 149    | 146    | 119    | 139    | 102    | 111    | 116    | 121    | 136    | 116    |

\* International Classification of Diseases, Ninth Revision

R Top ten ranking in that year.





# **NATALITY STATISTICS**

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Department of Public Health & Social Services