

Sept 10, 1988

Population Data (from Jaha/Healy)

Derived from "Trust Territory of the Pacific Islands - Five Year Comprehensive Health Plan - Feb. 1979"

I. Data Base

1. Population Increase - (from Table III-1)
From 1955 to 1975 the annual rate of increase of population in the Marshall Islands averaged 3.8%

2. Annual Mortality Rate = 0.54% (average)

409919

3. Annual Birth Rate = 4.2% (average)

R

II Population Increase

1) population today is 550, what will be the population after 30 years?

$$\text{Pop. after 30 years} = 550(1 + 0.038)^{30} = 550(1.038)^{30} = 550(2.06) = 1124$$

700 pop in 30 years = 2141

2) population today is 350, pop in 30 years = 1171

3) " " " " 235, " " " " 719.1

4) " " " " 193, " " " " 428.

III Total Deaths

700	350	550
2141	1071	1684

Population of 550

$$- 550 \times 0.0054 \int_0^{30} (1 + 0.038)^x dx$$

$$\int f^{ax} dx = \frac{f^{ax}}{a \log f} \quad f = 1.038, \quad a = 0.30$$

$$550 \times 0.0054 \left[\frac{(1.038)^x}{\ln 1.038} \right]_0^{30} = 550 \times 0.0054 \left[\frac{1.038^{30} - 1}{0.03729} \right]$$

REPOSITORY P.N.N.L.
COLLECTION Marshall Islands
BOX No. 5687
FOLDER Trip to Majuro & Kili