

Sept 18, 1986

Population Data (from Jack 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)

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II Population Increase

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

$$\text{Pop. after 30 years} = 550(1 + 0.038)^{30} = 550(1.038)^{30} = 550(3.06) = 1684$$

$$700 \text{ pop. in 30 yrs} = 2141$$

$$2) \text{ population today is } 350, \text{ pop. in 30 years} = 1071$$

$$3) \text{ population today is } 235, \text{ pop. in 30 years} = 719.1$$

$$4) \text{ population today is } 190, \text{ pop. in 30 years} = 428.$$

III Total Deaths

700	350	350
2141	1071	1684
	327	350

Population of 550

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

$$\int t^x dx = \frac{t^x}{a \log t} \quad b = 1.038, \quad a = 0.038$$

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

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FOLDER Trip to Majuro & Kili