The Y score

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Abstract In this paper, I describe the Y score which is useful in measuring several militaric outcomes. The paper ends with "The End"

Introduction

In a previous paper, I have described the calculation of a Z score to measure a state and predict trade, diplomacy and war with other states. In this paper, I describe the Y score which is useful in measuring several militaric outcomes.

The Y score

The Y score is similar to the Z score in the sense that it uses a similar functional form but differs slightly by including parameters of the military.

The Y score is given by the following formula:

$$Y = \alpha \, log \, M + \beta \, log \, (W - m) + \gamma \, log \, (P - M)$$

where

α is a score of the **military prowess** of the state.

β is a score of the **economic progress** of the state.

γ is a score of the **political stature** of the state.

M is the **size of the military** of the state.

m is the **wealth of the military** of the state.

W is the **wealth** of the state.

P is the **size of the population** of the state.

The End