

ANNUAL GROWTH RATE

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- Change in number of individuals in a population per unit time

- World-1.05-Highest-Lebanon -5.99, India-1.19 or 1.2

- $AGR = CBR - CDR / 10$ • Growth ratio = $AGR \times 100$

- Positive growth ratio- population is increased

- Negative growth ratio- population is decreased

- Zero growth ratio- population remains the

same

POPULATION GROWTH MODEL

- Logistic growth model • Malthusian growth model-

- Rule of 70-if growth is measured annually thanAGR interpretation

- 0.5 % growth- results in doubling of population every 140 years

- 1% growth- results in doubling of population every 70 years

- 1.2 growth- results in doubling of population every 60

years

- 1.5% growth- results in doubling of population every 50 years
- 2% growth results in doubling of population every 35 years& so on

AGR INTERPRETATION

- $<0.5\%$ -slow growing population
- $0.5-1\%$ -moderately growing population
- $1-1.5\%$ -rapidly growing population
- $1.5-2\%$ -very rapidly growing population
- $>2\%$ -explosively growing

population

- Exponential growth - Rapid growth in population that leads to misbalance in birth & deaths