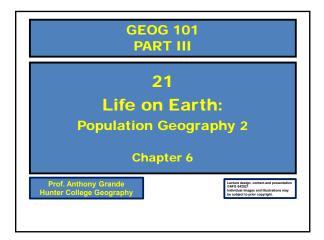
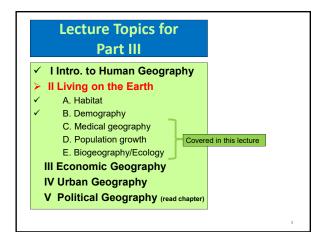
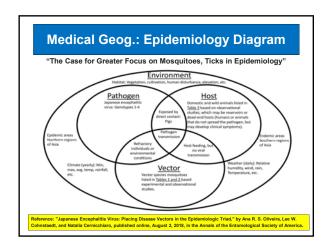
❖ Extra Credit: "Think REMINDERS Geographically" Essays from <u>any five</u> of textbook chapters Part III required essays are - O R due no later than May 13. One additional topic from the Late penalty now applies (better required essay list plus TG than a zero!) for missing Part I and chapter essays (max. 5 total). Part II essays. Last day to submit is May 12 Must submit any missing essays but it is best to do them as you by May 17, 2021 to avoid a ZERO finish reading a chapter. for missing required work. o Deadline to submit a proposal for any other form of extra credit has passed. EXAM II was April 16-19. If you missed it, please ✓ Don't wait for the night before to contact me. write them.



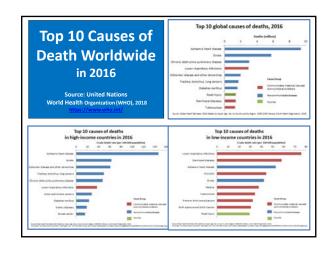


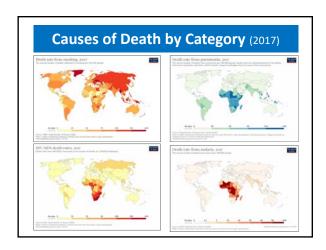
Medical Geography ❖ MEDICAL GEOGRAPHY studies the well-being of people as an aspect of habitat. - Medical characteristics are studied spatially (i.e., where they occur and how they spread). - The are correlated to conditions of site and situation as wind direction, watershed, wells and aquifers, and to routes of dispersal. ❖ EPIDEMIOLOGY: the study of the cause and control of disease.

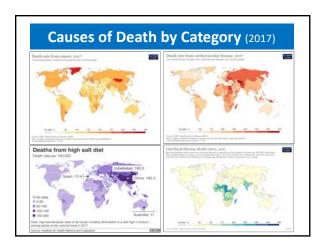


Health and Nutrition Important part of the population question. ➤ Areas with good health and nutrition can accommodate large numbers of people. ✓ They also become PULL factors (drawing more people). • Conversely, areas prone to food and water shortages or disease can experience PUSH factors, but in many cases it is just the negative version of STAY. ■ Analysis includes: ■ Food availability (type/diet/caloric value) ■ Life expectancy/infant mortality (BR/DR/wellness) ■ Disease (susceptibility/transmission/DR/social issues)









Hunger vs. Poor Nutrition

- Hunger: A feeling when one does not eat enough food to fill current physiological needs. It can be temporary or longlasting (when the person does not get enough to eat to maintain physical needs over a sustained period of time).
- > Hunger can lead to malnutrition.
- Malnutrition: any disorder of nutrition resulting from an unbalanced, insufficient or excessive diet or from the impaired absorption, assimilation or use of foods.
- Undernutrition: caused by an inadequate food supply or an inability of the body to use the nutrients in food.
- Overnutrition: excess nutrient and calorie intake over time; may be regarded as a form of malnutrition when it leads to morbid obesity.
- Chronic malnutrition: the long-term ingestion/use of less-than-required nutrient amounts; can result in physiological short-comings and vulnerability to disease and other illnesses.

MALNUTRITION

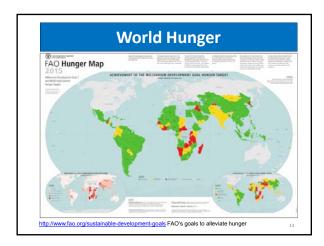
✓ Varies regionally depending on local conditions.

✓ It can be mapped and studied spatially in relation to global, regional and/or local environmental issues: climate change, water supply, soil fertility, severe weather, etc.

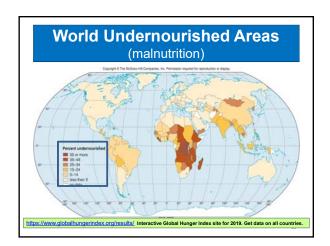
https://www.wordbunger.org/hung.grand-nutrition-facts/

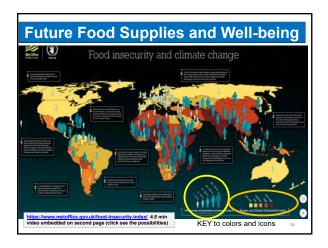
Spatial Aspects of Malnutrition

DIAGRAMING









Geographical Issues Facing Food Supplies and the Well-being of People

PHYSICAL ENVIRONMENT CHANGES

- 1. Worldwide mean temp. is increasing.
- Regional mean precipitation will vary off the norm (some higher/some lower).
- 3. Increase in carbon dioxide levels will effect crop growth.
- Drought, heat waves and severe flooding will reduce crop yield.
- Heavy rainfall and flooding will devastate food storage/distribution.
- Melting glaciers will first cause valley
- flooding, then water shortages.
- Tropical storms will be more frequent, intense and destructive.
- 8. Sea level will rise, flooding farm land.

EFFECT ON PEOPLE

- Very high percent of world's people live/farm in river deltas/ coastal plains which are the first to be impacted by sea level rise and salt water intrusion.
- About 15% of world's people live and farm in glacier meltwater-fed river valleys
- river valleys.

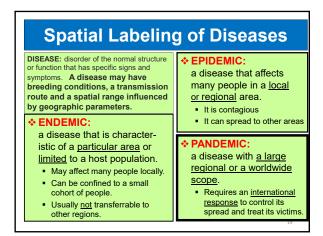
 Over 80% of the world's agricul-tural land is rain-dependent.
- About 50% of the world's food supply comes from irrigated land
- 220+ mil people are affected by severe weather events each yr.

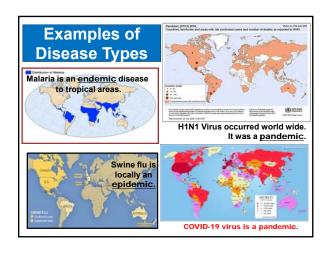
Decreased food supplies will result in changes in health and nutrition.

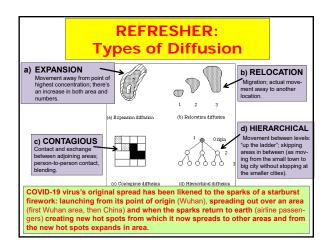
Medical Definition of Disease

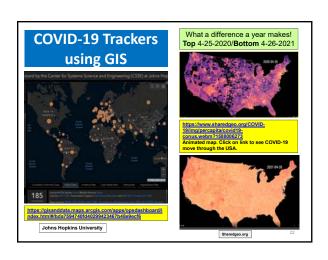
- DISEASE: An <u>impairment</u> of the normal state of the living human, animal or plant body or its parts that <u>interrupts/modifies the performance of vital</u> <u>functions</u>, and is typically <u>manifested by</u> <u>distinguishing signs and symptoms</u>.
 - Also called a SICKNESS or ILLNESS
- > It is a response to:
 - √ environmental factors (as malnutrition, hazards, climate);
 - √ specific infective agents (as worms, bacteria, or viruses);
 - √ inherent defects of the organism (as genetic anomalies);
 - ✓ or combinations of these factors.

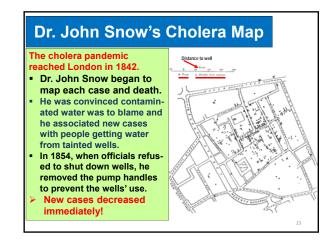
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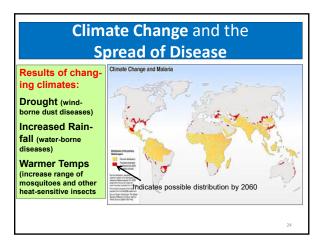


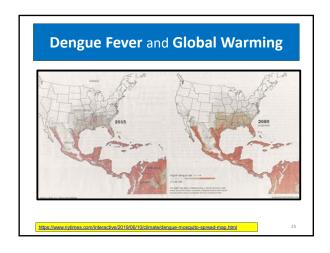


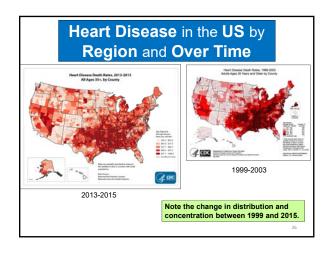


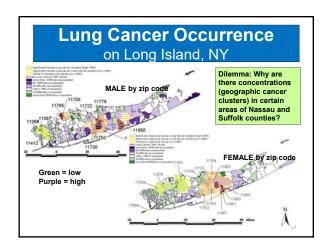


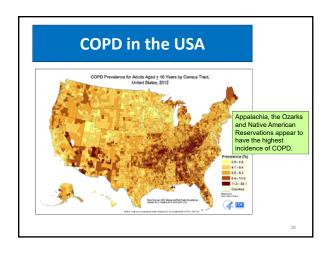


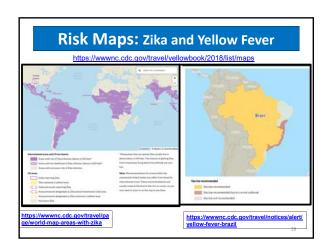


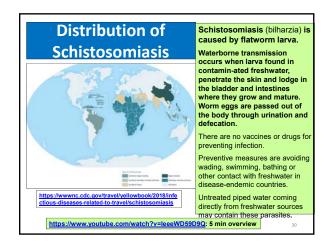






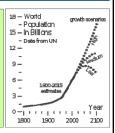






Health, Nutrition and Numbers of People

If humanity addresses and deals with this important part of the population question by making people healthier and therefore living longer --what affect will this have on the earth's ability to support its growing population?

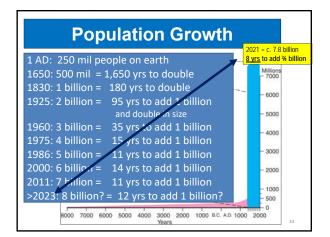


Population Growth and Overpopulation

The world needs to deal with the present rate of population growth and overpopulation.

- There is a need to either <u>increase</u> the carrying capacity of an area (habitat quality) or <u>reduce</u> the stress of a population on the habitat.
- Can this be done? How can this be done?

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Dealing with Population Growth

How can this be done?

There are 5 general scenarios:

- 1. Expand the resource base
 - 2. Emigration
 - 3. Economic change
 - 4. Education
 - 5. Natural population controls

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Dealing with Population Growth

How can this be done?

- 1. Expand the resource base (carrying capacity).
 - A. Use of technology (existing and/or new).
 - B. Creation of artificial environments.
 - C. Make new discoveries.

Dealing with Population Growth

How can this be done?

- 2. Emigration.
 - A. Encourage movement away (emigration)
 - B. Discourage in-migration (immigration)
 - C. Relocate people to other areas (transmigration)

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Dealing with Population Growth

How can this be done?

- 3. Economic change (demographic transition model)
 - A. Shift from an agrarian to an industrial economy
 - B. Shift from rural to urban settlement (may have a negative impact if cities take over farmland)
 - C. Use of technology

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Dealing with Population Growth

How can this be done?

4. Education

- A. Knowledge of the local situation
- B. Ability to read and follow instructions (male and female; understanding package labeling; employment)
- C. Training in the use of modern technology
- D. Changing the attitudes and philosophies of people (i.e., culture) regarding family size through dialogue, reasoning and teaching.

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Dealing with Population Growth

How can this be done?

- Natural population controls (involves ethical and moral issues)
 - A. Famine
 - B. Disease
 - C. War
 - D. Poverty

Should the world community help borderline areas by providing aid for hunger and disease prevention or provide rescue services after a natural disaster?

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Biogeography

☐Studies the spatial aspects of plant and animal life.

- √The relationship between a life forms and the physical environment.
- ✓ Looks at the composition of biomes, habitats, ranges, etc.
- ✓ Migrations.

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