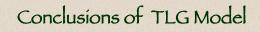


- ➤ Natural Resource Use
- Industrial Output
- ► Pollution

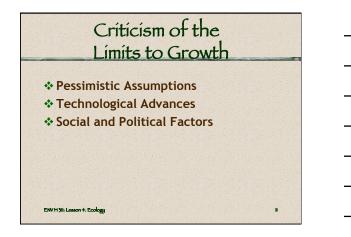
```
ENVH 311: Lesson 4. Ecology
```



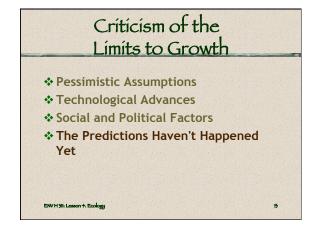
9

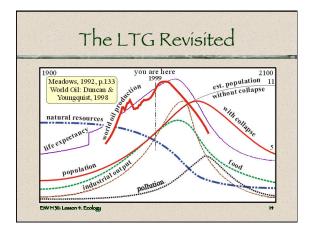
- Within 100 years, society will run out of non-renewable resources leading to a precipitous collapse of the economic system decreased food production and increasing death rate.
- A piecemeal approach to solving the problem will not work
- Overshoot and collapse can only be avoided by limiting population and pollution.
  EW1136: Lesson +: Ecology

ENV H 311: Intro. to Environmental Health

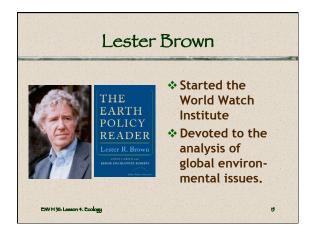


The Optimist's View ... 200 years ago almost everywhere human beings were comparatively few, poor and at the mercy of the forces of nature, and 200 years from now, we expect, almost every-where they will be numerous, rich and in control of the forces of nature [p. 1]. • Kahn H. The Next 200 Years: A Scenario for America and the World, 1976. ENVH 311: Lesson +. Ecology 12











## Global Food Production \* World-wide, most suitable land is already under cultivation \* Arable land in many countries is already under pressure due to soil degradation (erosion), deforestation and desertification.

 Effects of over-harvesting: may exceed reproductive rate

17

19

\* Effects of habitat destruction

## ENVH 311: Lesson 4. Ecology



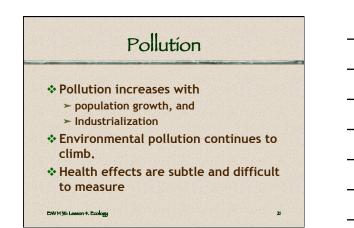
## Water

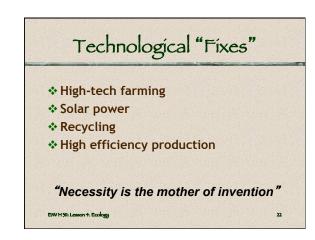
- Only 10,000 km<sup>3</sup> out of 40,000 km<sup>3</sup> of fresh water is accessible.
- 3,000 km<sup>3</sup> is polluted

ENVH 311: Lesson +. Ecology

- and undrinkable
- Current use ~ 4,000 km<sup>3</sup>
- In many places water tables are falling
- Desalinization of sea water is possible but requires energy

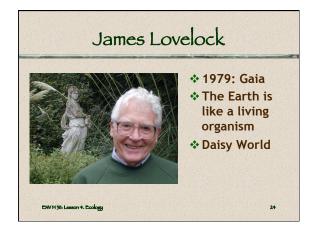






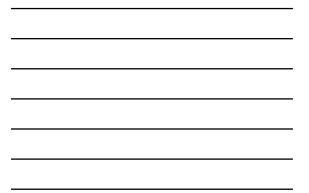
Coincidently						
Return Links to Course Home Pages ENVL 445 ENVL 445	<section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>					

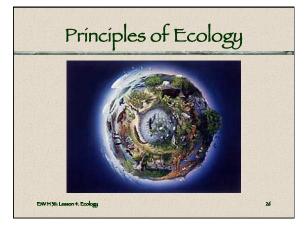




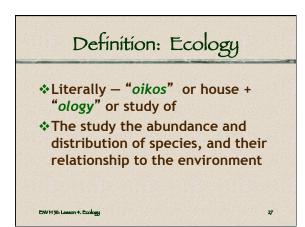










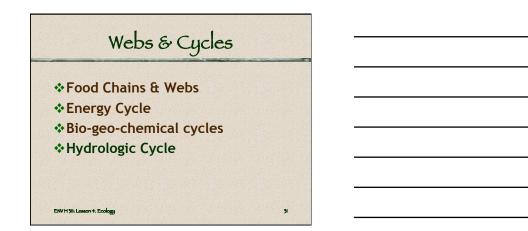


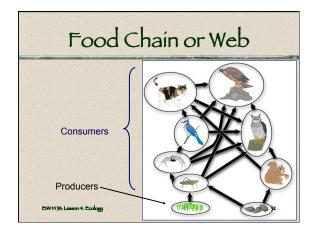
## What to Look For ...

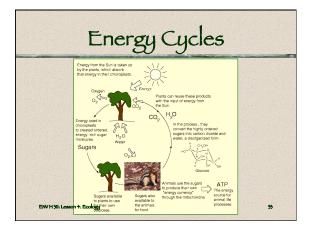
- Ecosystems, biomes & habitats
- Determining or limiting factors
- Biotic communities
- Biologic succession

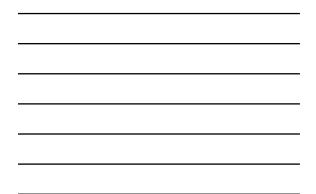
ENVH 311: Lesson +. Ecology

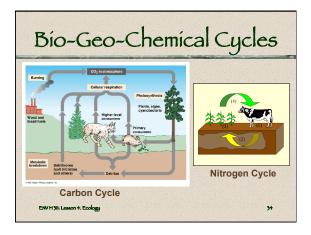
- Food chains or webs
- Bio-geo-chemical cycles



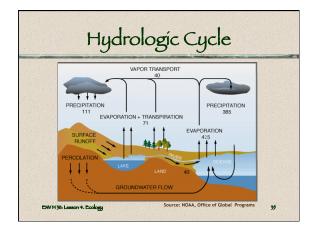






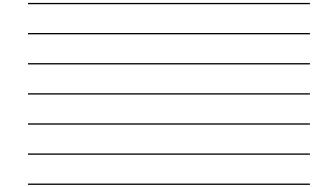












	World Population	
12000 -		
10000 -		
(in 1000 -	Population Industrialized	
Population (In millions)		
opulatio		
2000 ·		
0 -	٢٠ ٩٠ ٩٠ ٩٠ ٩٠ ٩٠ ٩٠ ٩٠ ٩٠ ٩٠ ٩٠ ٩٠ ٩٠ ٩٠	
	Year	







