

A close-up photograph of a pond filled with lily pads. The lily pads are in various shades of green and brown, some showing signs of decay. A single, vibrant pink lotus flower is in bloom in the center-right of the frame. The water is dark and reflects the surrounding foliage.

29 DAYS: Responses to a Finite World

Environmental Policy...

Public Health:

Managing microecology

Resource Conservation:

Protecting regeneration

Industrial Regulation:

Confronting externalities

Lenses on history...

ECOLOGY

PERCEPTION

VALUES

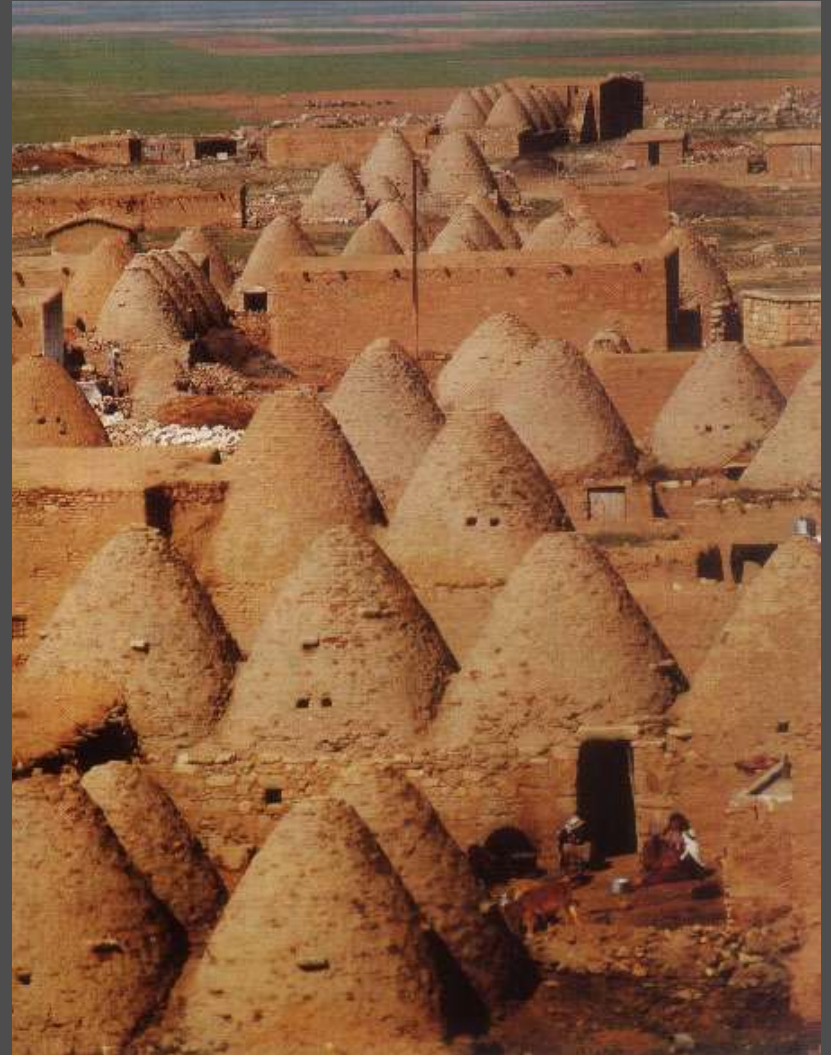
CAPACITY

SETTLEMENT: concentrating demand

500,000 BCE: Fire is domesticated

10,000 BCE: Wheat agriculture, pigs, goats are domesticated

3,500 BCE: First Mesopotamian cities, centralized irrigation

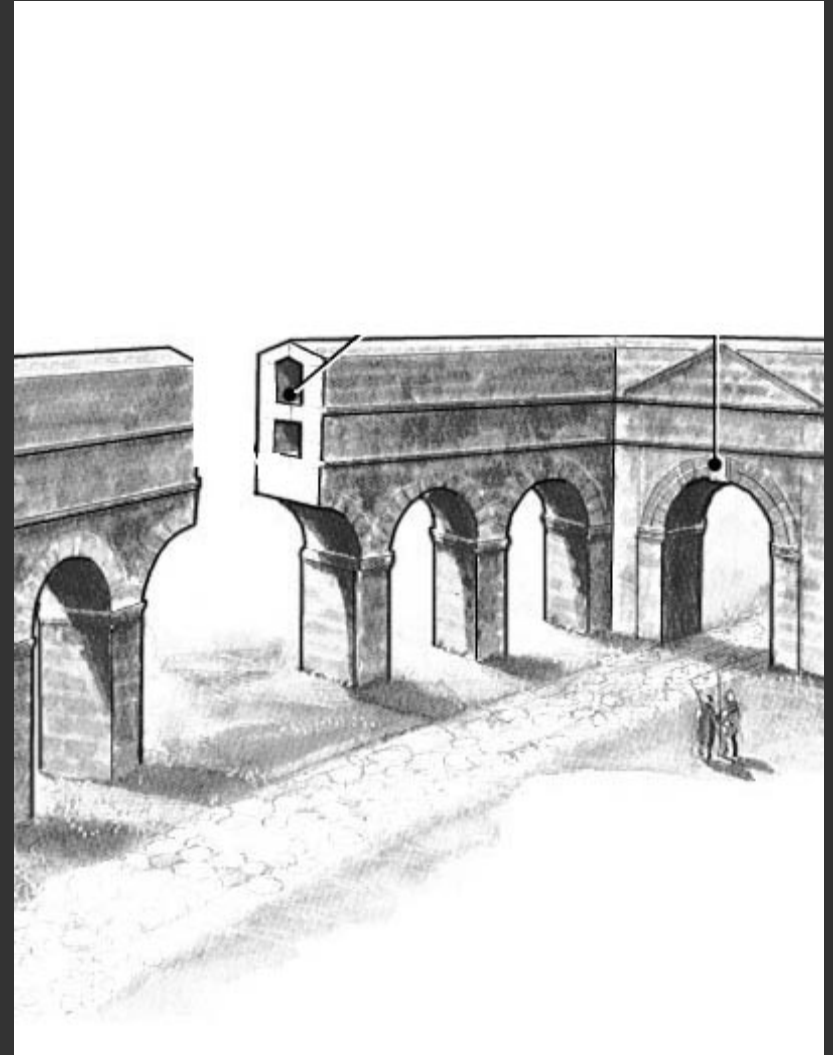


Public Health: managing microecology

2,500 BCE: Hygiene
laws in Babylon, Israel

2,500 BCE: Municipal
sewer in Mohenjo Daro

312 BCE - 455 CE:
Roman aqueducts

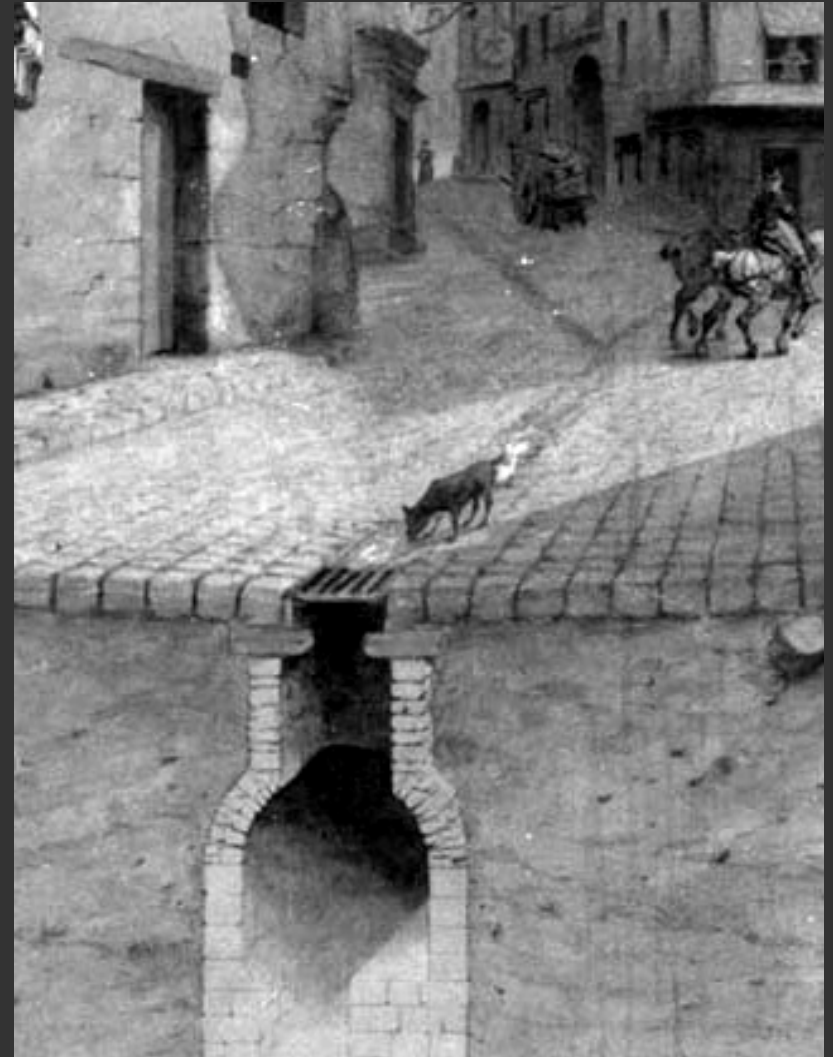


Public Health: managing microecology

1370: Paris' first
underground sewer

1800: Construction of
London sewer begins

1915: Baltimore sewer
project begins



Public Health: internationalizing efforts

1907: International
Public Hygiene Office
forms in Paris

1948: World Health
Organization forms

2001: Global Fund to
Fight AIDS, TB and
Malaria is established



**UNITED NATIONS
SPECIAL SESSION
ON HIV/AIDS**

Global Crisis—Global Action

25-27 June 2001 New York

Resource Conservation: protecting regeneration

350 BCE: Greek city-states protect forests and regulate wood use

1066: English Forest Laws restrict hunting

1300: French Forest Code protects trees for Navy ships



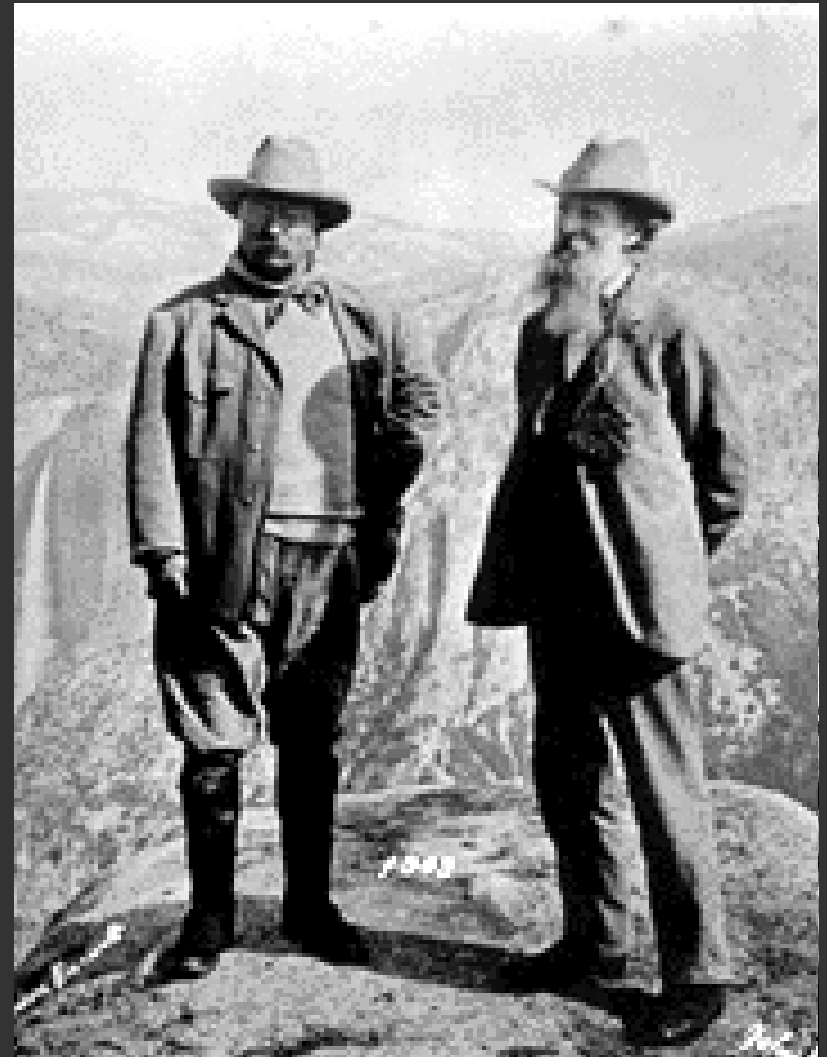
Resource Conservation: protecting locales

1832: Catlin proposes
idea of national parks

1872: Yellowstone is
the first National Park

1906: Natl Monuments
and Antiquities Acts

1907: Denver land-
owner protests



Resource Conservation: internationalizing protections

1918: US-Canada
Migratory Bird Treaty

1973: 80 countries
sign CITES treaty

1982: UN World
Charter for Nature

1992: Convention on
Biological Diversity



INDUSTRIAL PROCESSES: minerals, metallurgy, pollution

3,000 BCE: Large-scale lead smelting

100 BCE: Greeks identify lead poisoning

1854: Tetraethyl lead gas additive invented

1936: 90 percent of US gas contains TEL



Industrial Regulation: local legacies

1922: League of Nations bans lead paint

1924: New York bans sale of TEL gasoline

1972: EPA begins leaded gas phase-out

2000: EU bans leaded gasoline



Industrial Regulation: growing externalities

1306: Coal burning
limited in London

1881: US municipal
smoke abatement laws

1947: LA Air Pollution
Control District forms

1963: First Clean Air
Act passes Congress



Industrial Regulation: global accumulation

1824: Fourier writes
on greenhouse effect

1894: Arrhenius on
 CO_2 and global warming

1988: Congress hears
of global warming

1997: Kyoto Treaty
adopted by 121 nations



Patterns in Time...

Ecology, Perception,
Values, Capacity

Expansion:

Institutions and growth

Participation:

Liberalization and civil society

Inclusion:

Specific to general to abstract

“That which is not good
for the beehive cannot
be good for the bees.”

Marcus Aurelius,
Meditations

kcousins@gvpt.umd.edu