## **Art Slides**

# HUMANS IN THE LANDSCAPE: AN INTRODUCTION TO ENVIRONMENTAL STUDIES

FIRST EDITION

by

Kai N. Lee

William R. Freudenburg

Richard B. Howarth

## **Art Slides**

# **Chapter 14**

# Addressing Affluence

Kai N. Lee William R. Freudenburg Richard B. Howarth

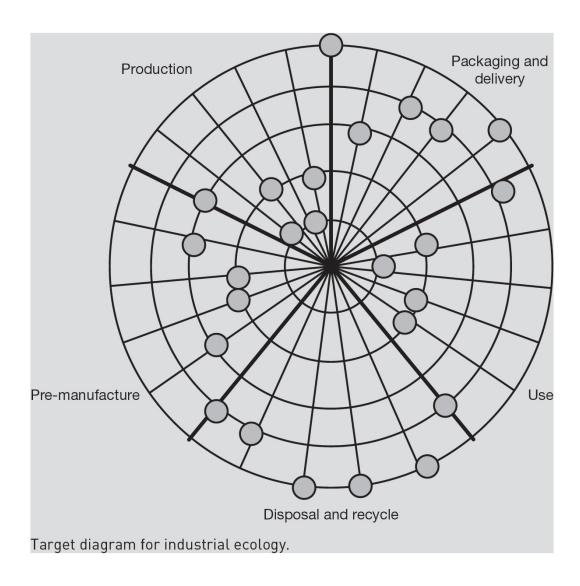
 TABLE 14.1
 U.S. CONSUMPTION PATTERNS PROJECTED TO THE WHOLE PLANET.

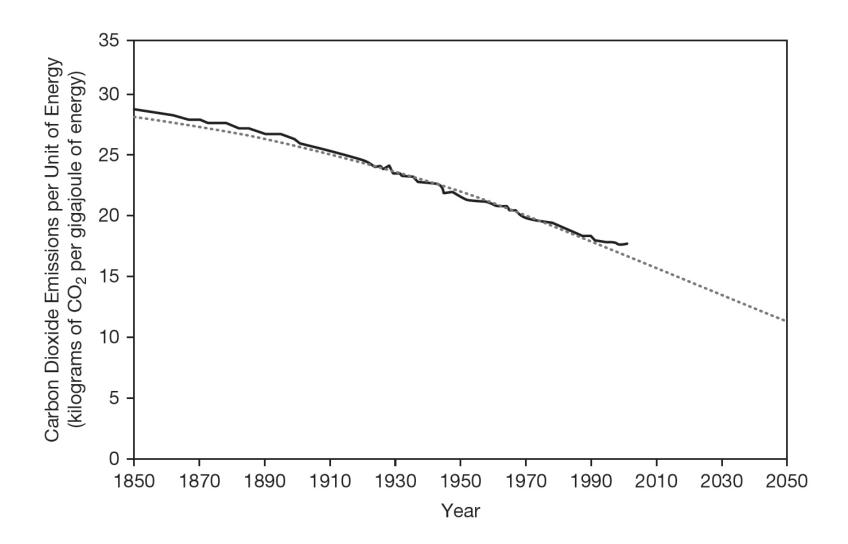
Commodity	1990 U.S. apparent consumption	1990 world	Necessary world production for world per capita consumption to equal U.S. per capita	Factor increase
	<u> </u>	production	· · · · ·	
Plastic	25.0	78.3	530.0	6.8
Synthetic fibers	3.9	13.2	82.7	6.3
Aluminum	5.3	17.8	111.5	6.3
Copper	2.2	8.8	46.0	5.2
Salt	40.6	202.3	860.7	4.3
Fertilizer (potash)	5.5	28.3	115.5	4.1
Industrial sand and gravel	24.8	133.1	525.3	4.0
Iron and steel	99.9	593.7	2,117.9	3.6
Nitrogen	18.0	107.9	381.0	3.5
Cement	81.3	1,251.1	1,723.1	1.4

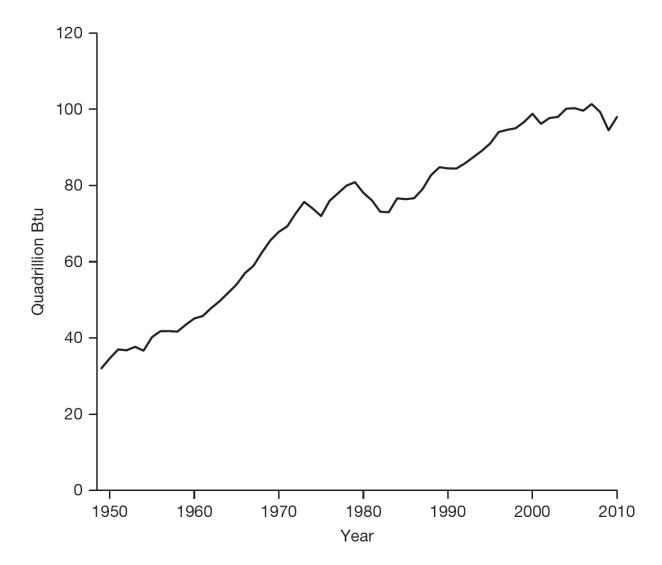
Production and consumption in millions of tons, based on U.S. Bureau of Mines data; calculations based on 1990 U.S. population of 249 million and world population of 5.3 billion.

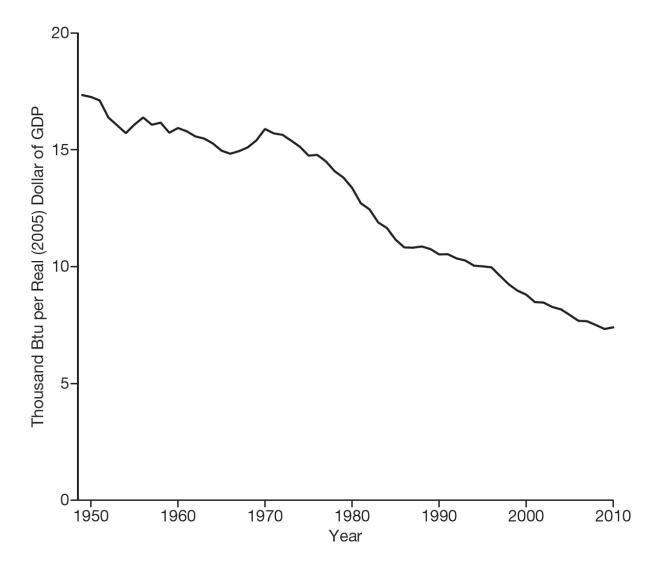
	Materials	Energy	Solid residues	Liquid residues	Gaseous residues	
Pre-manufacture						
Production						
Packaging and delivery						3. R. ALLENBY.
Use						RAEDEL AND E
Disposal and recycle						SOURCE: T. E. GRAEDEL AND B.

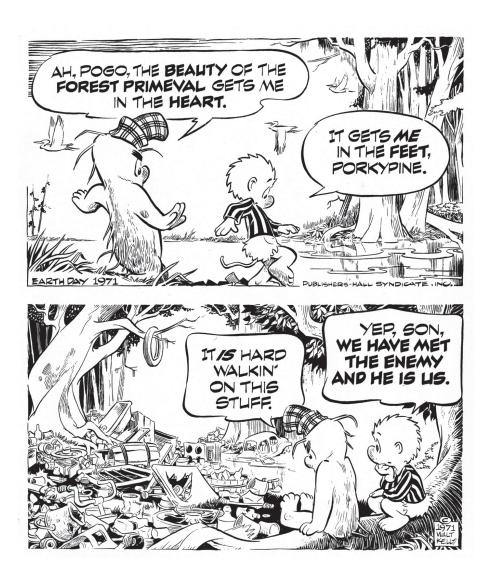
Matrix to organize discussion of industrial ecology for a product.

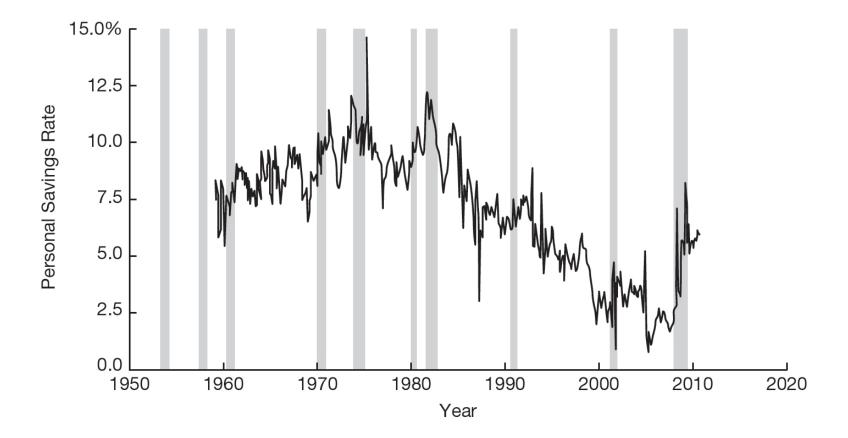




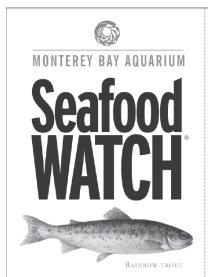












Central US

Sustainable

Seafood Guide

January 2012

#### **BEST CHOICES**

Arctic Char (farmed) Barramundi (US farmed) Catfish (US farmed)

Clams, Mussels, Oysters (farmed)

Cod: Pacific (US non-trawled) Crab: Dungeness, Stone

Halibut: Pacific (US)
Lobster: California Spiny (US)
Perch: Yellow (Lake Erie)\*

Sablefish/Black Cod (Alaska & Canada)

Salmon (Alaska wild) Sardines: Pacific (US) Scallops (farmed)

Shrimp: Pink (Oregon)
Striped Bass (farmed & wild\*)

Tilapia (US farmed)

Trout: Rainbow (US farmed)

Tuna: Albacore (Canada & US Pacific,

troll/pole)

Tuna: Skipjack, Yellowfin (US troll/pole) Whitefish: Lake (Lake Huron & Superior)\* Whitefish: Lake (Lake Michigan, trap-net)\*

#### **GOOD ALTERNATIVES**

Basa/Pangasius/Swai (farmed)

Caviar, Sturgeon (US farmed)

Clams, Oysters (wild)
Cod: Pacific (US trawled)

Crab: Blue\*, King (US), Snow Flounders, Soles (Pacific) Flounder: Summer (US Atlantic)

Grouper: Black, Red (US Gulf of Mexico)\*

Herring: Atlantic, Lake Lobster: American/Maine

Mahi Mahi (US)

Perch: Yellow (Lake Ontario & Huron)

Pollock: Alaska (US) Salmon (CA, OR, WA\*, wild)

Scallops (wild) Shrimp (US, Canada) Smelt: Rainbow Swordfish (US)\*

Tilapia (Central & South America farmed)
Trout: Lake (Lake Huron & Superior)\*

Tuna: Bigeye, Tongol, yellowfin (troll/pole)

Walleye\*

Whitefish: Lake (Lake Michigan, gillnet)\*

#### AVOID

Caviar, Sturgeon\* (imported wild)

Chilean Seabass/Toothfish\*
Cod: Atlantic (Canada & US)

Crab: King (imported)

Flounders, Halibut, Soles (US Atlantic,

except Summer Flounder)
Groupers (US Atlantic)\*
Lobster: Spiny (Brazil)

Mahi Mahi (imported longline)

Monkfish

Orange Roughy\*

Salmon (farmed, including Atlantic)\*

Sharks\* Shrimp (imported)

Snapper: Red Swordfish (imported)\* Tilapia (Asia farmed)

Trout: Lake (Lake Michigan)\*
Tuna: Albacore\*, Bigeye\*, Skipjack,

Tongol, Yellowfin\* (except troll/pole)

Tuna: Bluefin\*

Tuna: Canned (except troll/pole)

## **Art Slides**

# HUMANS IN THE LANDSCAPE: AN INTRODUCTION TO ENVIRONMENTAL STUDIES

FIRST EDITION

by

Kai N. Lee

William R. Freudenburg

Richard B. Howarth