Let's put the industrial revolutions and the agriculture topics in dialogue with each other. Although one was about the development of the factory system of production and the other about changes in our farming practices, there are a host of common features that prevailed in both of these momentous changes in our economy and, thus, the ways we interact with our environment and the ways we relate with each other

What are some of these common features?

Common Features

- Mechanization of production
- Technologies and new inputs

 environmental pollution
- Increased production driving consumption of goods
- Fossil fuels as basis of production and thus profits
- Changes in social relations (class structure)
 - -new inequalities
 - -workers in pollution zones (sacrifice zones)
 - -environmental injustices

Industrialization of agriculture \(\subseteq \text{wage laborers for factory system} \)

Why war? **United States as Imperial Power** control over labor and resources Tropical agricultural companies and mining **Environmental and social impacts** role of US military: invasions and occupations War and environmental destruction **Environmental** warfare Examples from 1930s China War and new machines/technology (industrial revolutions) Examples of mass environmental destruction War technology and other economic activities Examples US Dept of Defense and climate change Vietnam war and environment



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How and why has warfare become more destructive of humans and environments?

- War as control over livelihoods, of means of subsistence
- Industrial revolution
 machinery and chemicals that could be used in war, designed for war
- War as state of exception, immense destruction possible
- Examples of industrialization of warfare





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Examples of war technology and research being recycled for other economic activities

- Pesticides and fertilizers
- Dynamite
- Sonar and GPS
- bulldozers



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The United States, Agent Orange, Napalm, and the Vietnam War

1959-1975

Vietnamese and national Liberation

US, anti-communism and the Cold War

US invasion and bombing

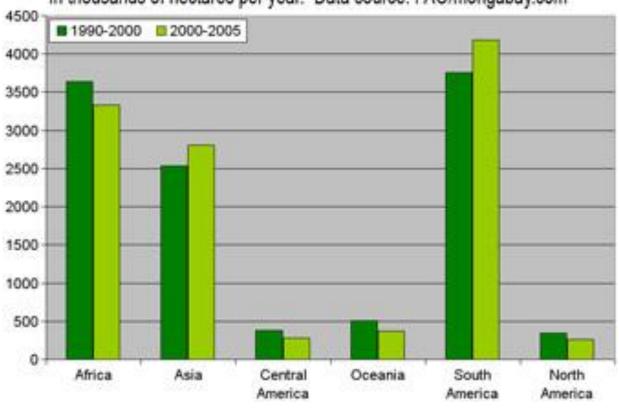
https://www.nytimes.com/video/us/100000002872288/agent-orange.html

- 1. Air Pollution
- 2. Water Pollution
- 3. Deforestation
- 4. Soil depletion and contamination
- 5. 6th Extinction
- 6. Environmental Injustice

All these environmental problems are aggravated by climate change



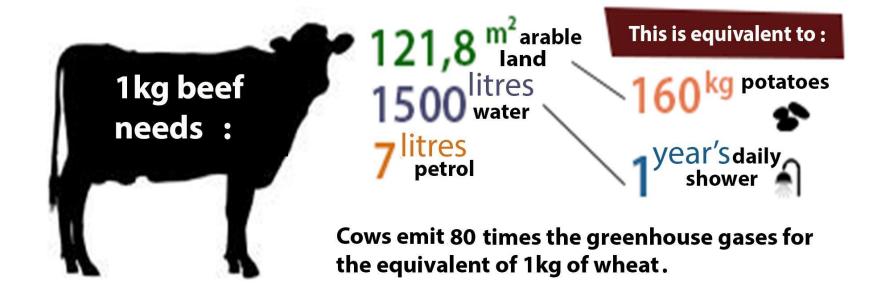
TROPICAL DEFORESTATION BY REGION, 1990-2000 & 2000-2005 In thousands of hectares per year. Data source: FAO/mongabay.com

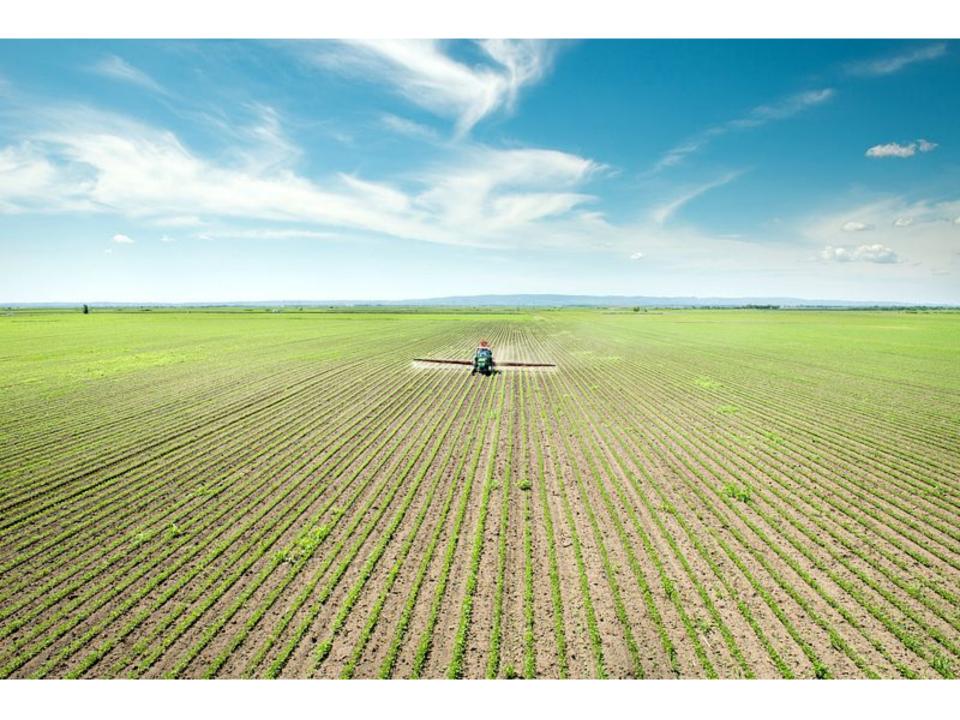


World Forest Cover, 1990-2010

Region	Total Forest Cover			
	1990	2000	2010	
	Million Hectares			
Africa	749	709	674	
Asia	576	570	593	
Europe	989	998	1,005	
North and Central America	708	705	705	
Oceania	199	198	191	
South America	946	904	864	
World	4,168	4,085	4,033	

Source: Compiled by Earth Policy Institute from U.N. Food and Agriculture Organization, Forest Resources
Assessment 2010: Global Tables (Rome, 2010), www.fao.org/forestry/fra/fra2010/en/.

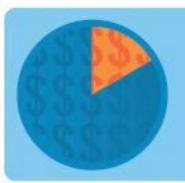






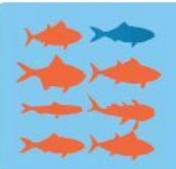
2050\

IS THE YEAR EXPERTS SAY WORLD FISHERIES EXPECT TO COLLAPSE



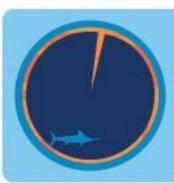
\$50B

1/5 OF FISH ARE CAUGHT ILLEGALLY RAKING IN AN EST. \$50B A YEAR



80%k

THE WORLD'S FISH STOCKS ARE ALREADY FULLY EXPLOITED



90%L

OF PREDATORY FISH: TUNA, SHARKS, SWORDFISH, COD & HALIBUT ARE GONE!



300,000

WHALES AND DOLPHINS ARE KILLED EACH YEAR VIA BY-CATCH



8M SQUARE MILES

THE GREAT PACIFIC GARBAGE PATCH IS 2X LARGER THAN THE UNITED STATES!

In your estimation, what is the most threatening environmental problem humanity faces today (apart from climate change)

- A. The 6th extinction
- B. Soil loss and pollution
- C. Environmental Injustice
- D. Deforestation
- E. Water and/or air pollution

Global Environmental Problems Climate Change

Others?