
COWSPIRACY
THE SUSTAINABILITY SECRET

CLIMATE CHANGE

“Drive less”

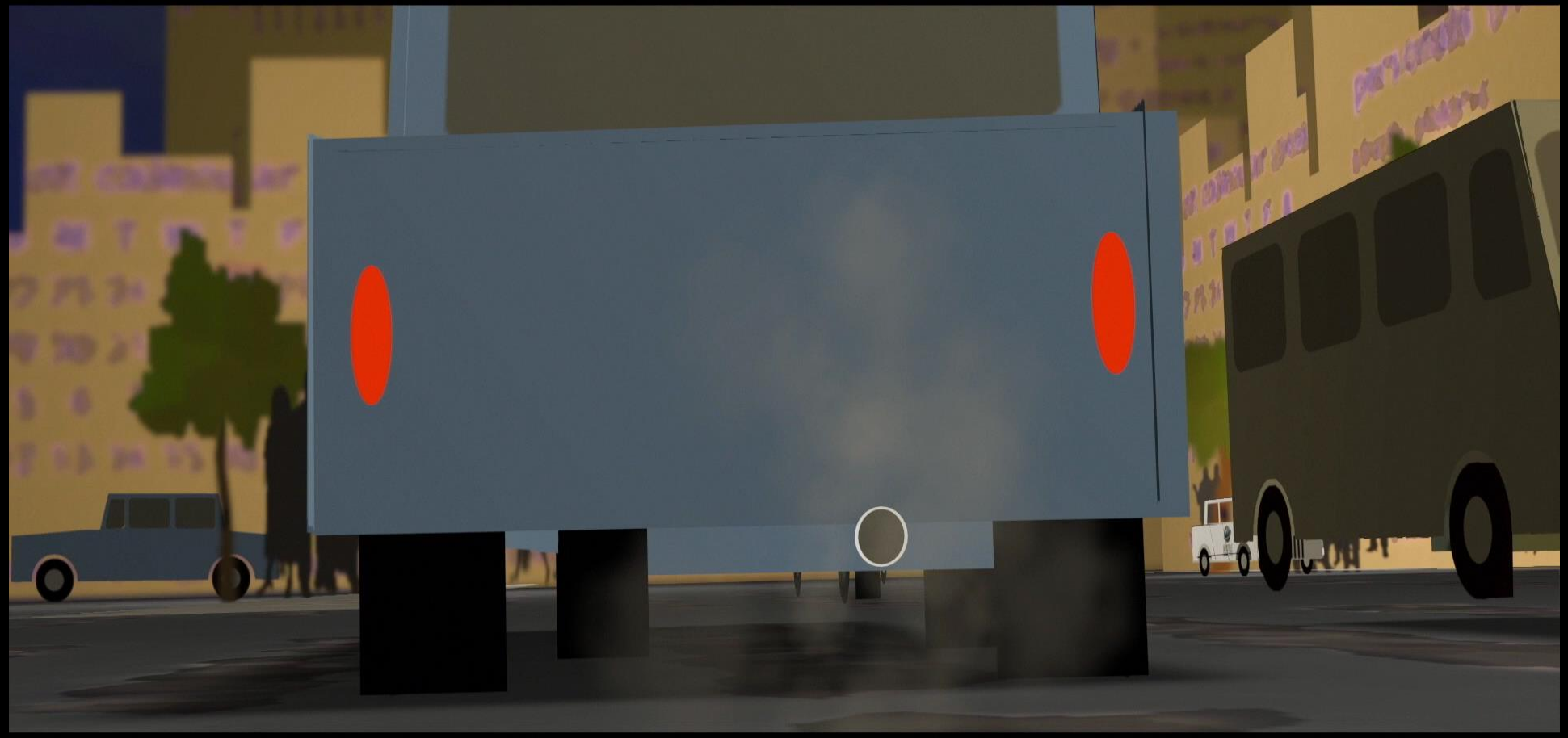
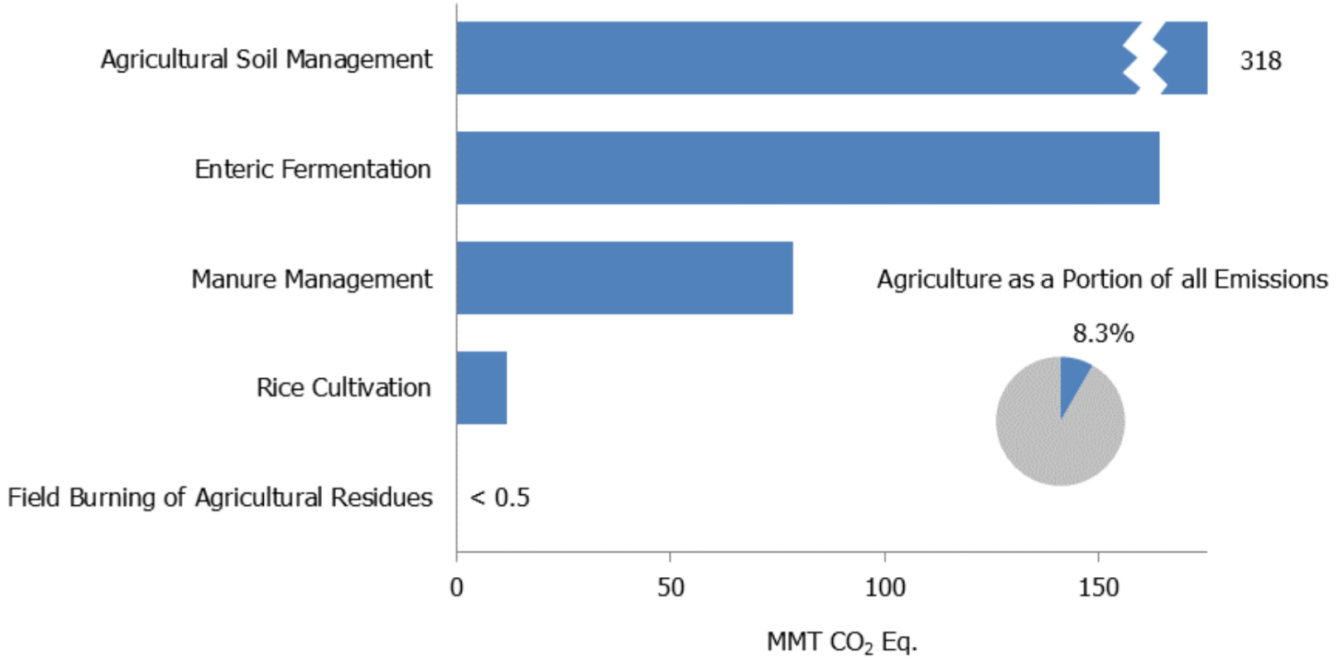
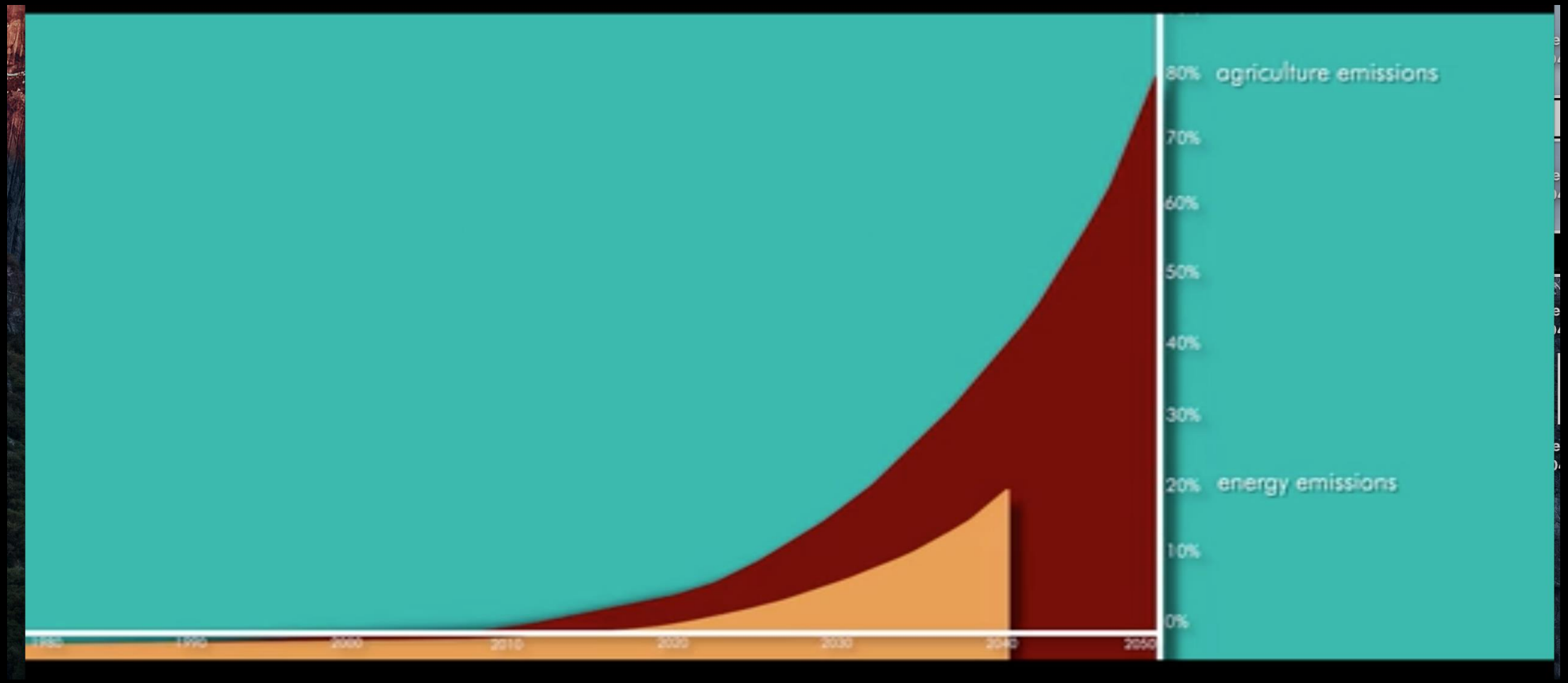


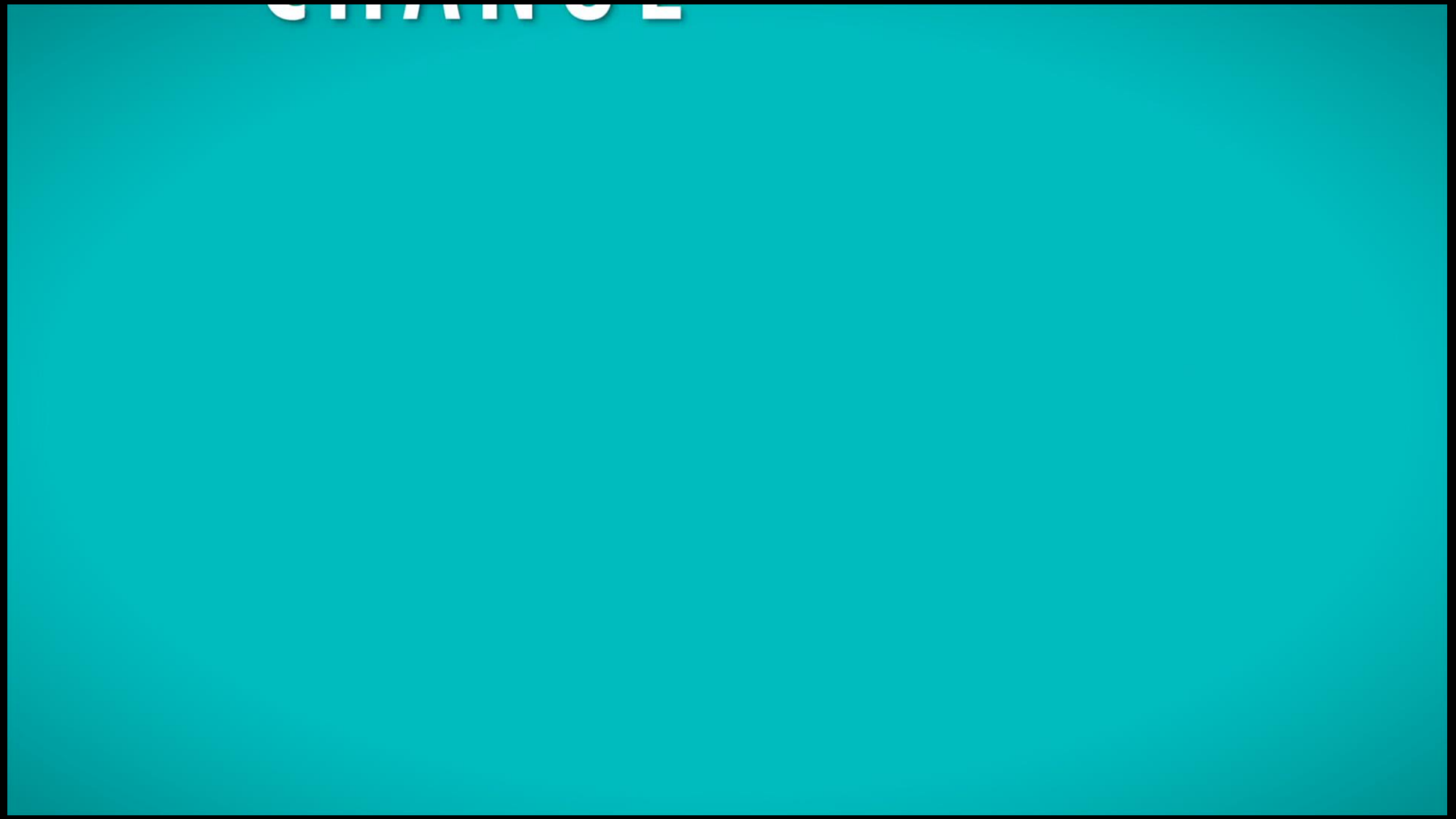
Figure 5-1: 2014 Agriculture Chapter Greenhouse Gas Emission Sources (MMT CO_2 Eq.)

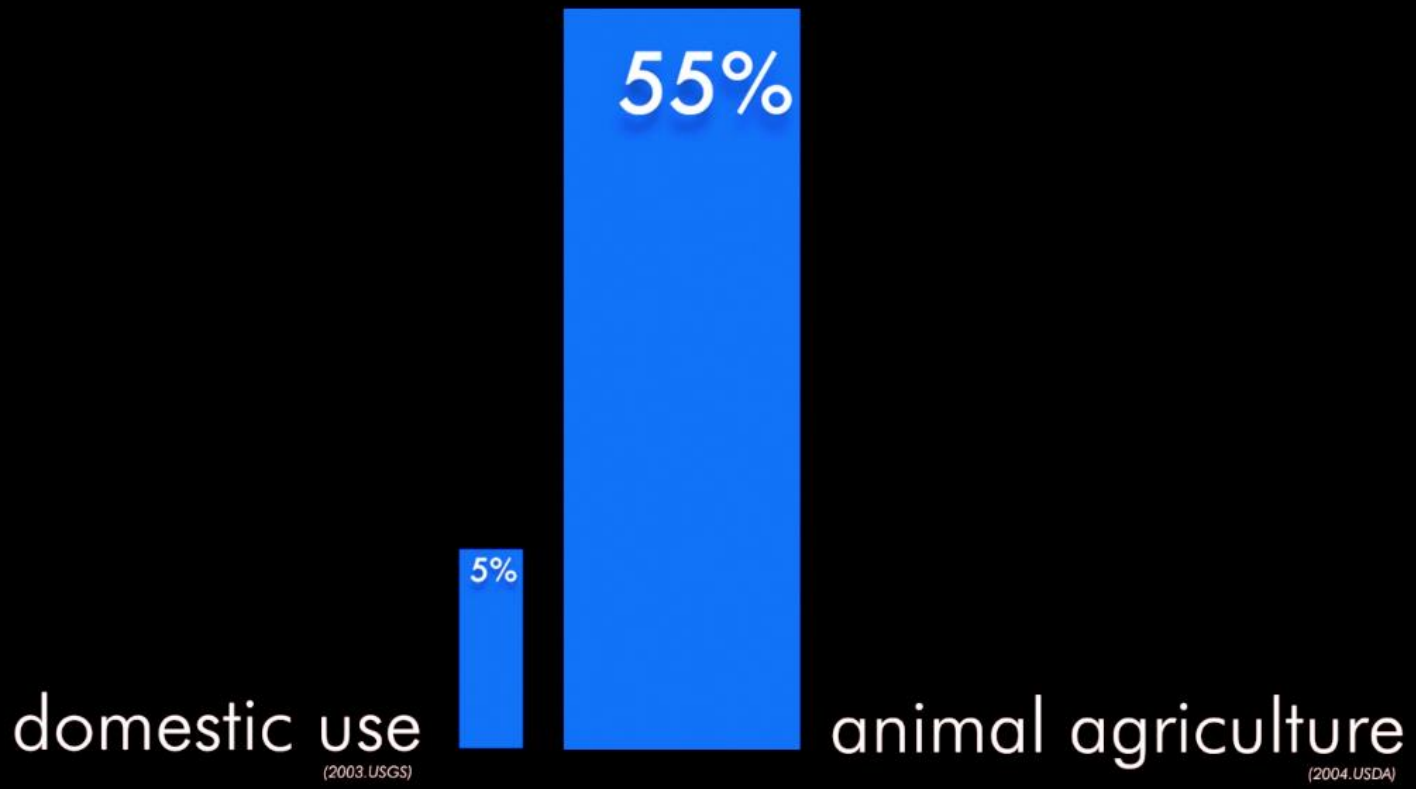


CH_4 and N_2O impacts (IPCC 2014)

- Methane 86x GWP of CO2, 20ytf
- Nitrous Oxide 298x GWP of CO2
- Did not take into account transportation or refrigeration.


80%
agriculture emissions
70%
60%
50%
40%
30%
20%
energy emissions
10%
0%




55%
5%
domestic use
(2003.USGS)
animal agriculture
(2004.USDA)

85% of all irrigated land in Colorado is for livestock

89% of CO water consumption is for Agriculture

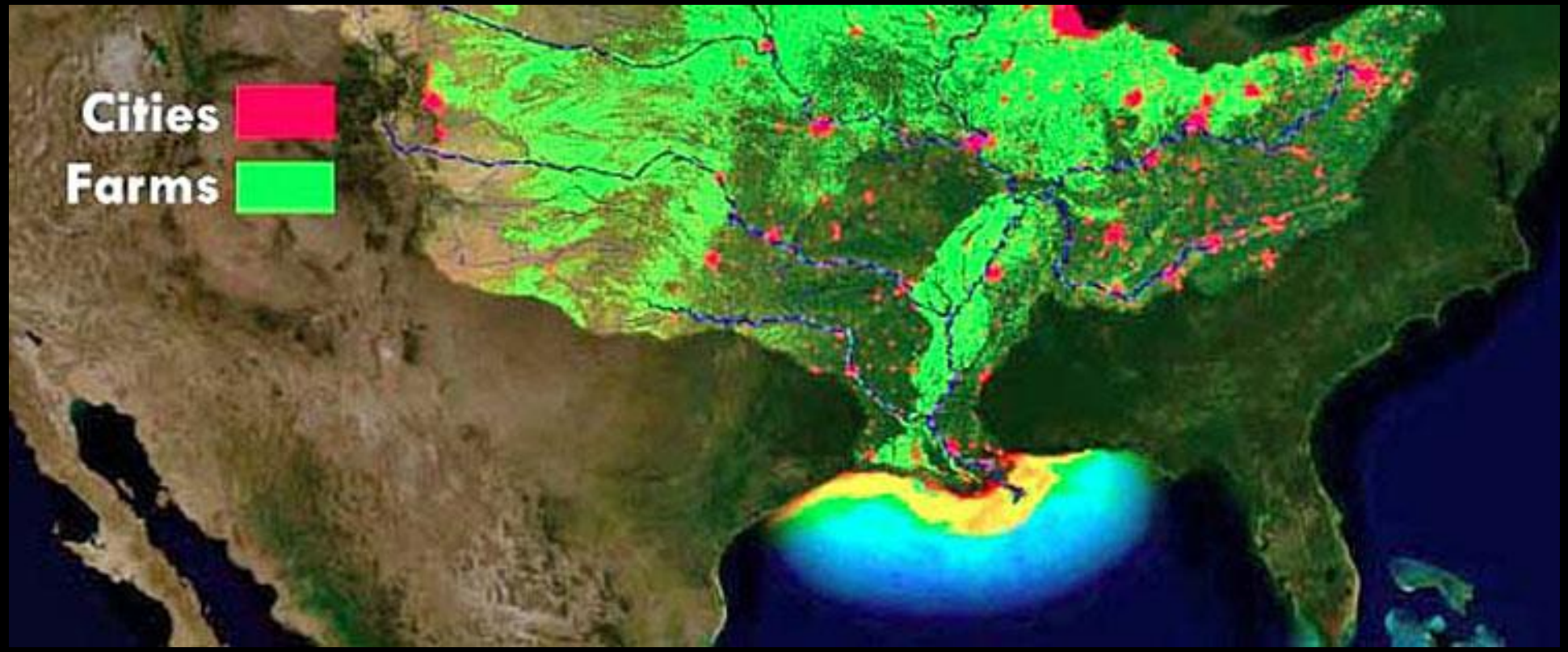
Denver only uses 2% of the states water (1/4 of CO population)


When showering, make it a
Quickie.
Shorten showers – save 2.5 gallons per minute.
We're in a drought!
Hetch Hetchy water –
too good to waste.
sfwater.org/conservation
San Francisco
Water Power Sewer

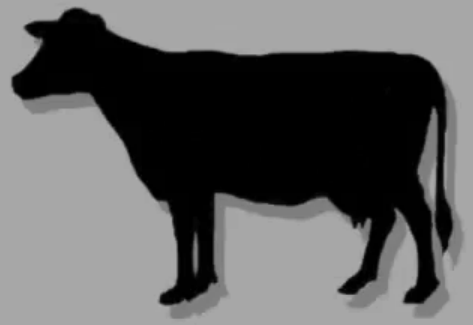
2500 liters


=
2 MONTHS
OF SHOWERING

Water Saved Per Day



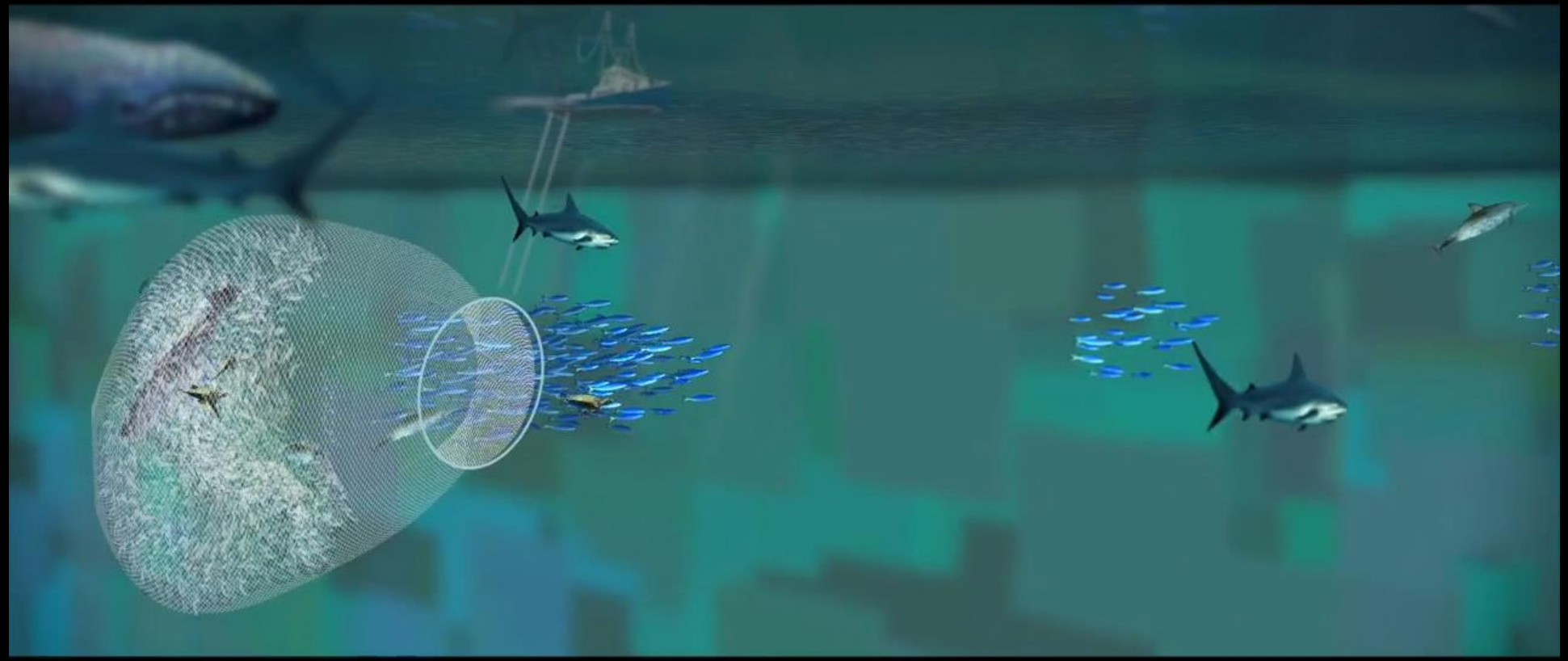
NOAA



A farm with 2,500 dairy cows produces the same amount of waste as a city of 411,000 people.

Colorado Springs, CO


3/4 of the world's fisheries are collapsing



1% of **Ocean Plastic Is** Made of Discarded **Plastic Straws**

46% of **Ocean Plastic Is** Made of Discarded **Fishing Nets**

700,000lbs of Fishing gear is dumped in the Ocean each year

BUT THAT'S JUST FACTORY FARMING.

EAT GRASS-FED BEEF…


© Sergio Ballivian

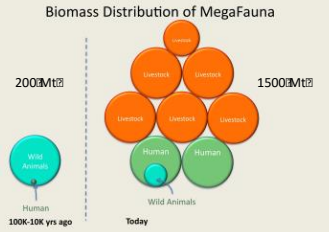
The Lifestyle Carbon Dividend:

Assessment of the Carbon Sequestration Potential of Grasslands and Pasturelands Reverted to Native Forests

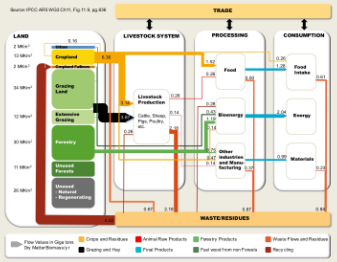
Sailesh K. Rao[1], Atul K. Jain[2] and Shijie Shu[2]
[1] Climate Healers, Phoenix, AZ, USA [2] University of Illinois, Urbana-Champaign, IL, USA

ILLINOIS

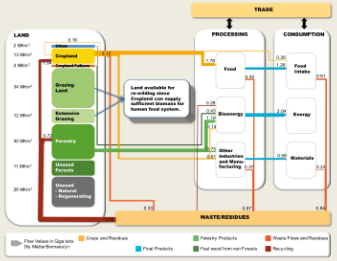
1. The Question



A lifestyle change eliminating livestock has the greatest potential for restoring biomass balance between wild megafauna and human systems

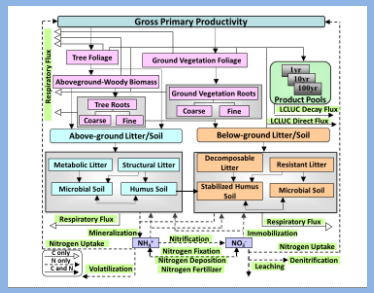


Livestock systems comprise 45% of the land area and operate at < 4% efficiency in our food system



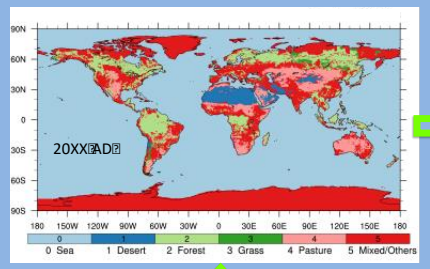
In a hypothetical land use system free of livestock, what is the carbon sequestration potential of "re-wilding" lands reverted to native forest biomes?

2. The Analysis

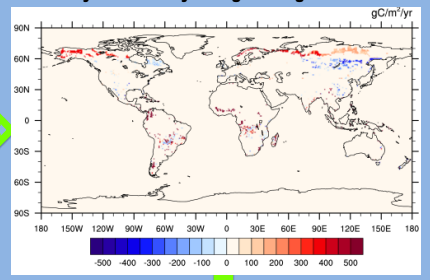


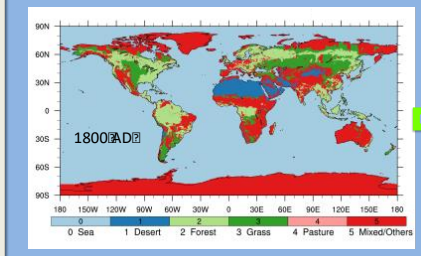
The Integrated Science Assessment Model (ISAM) was used to estimate carbon sequestration potential

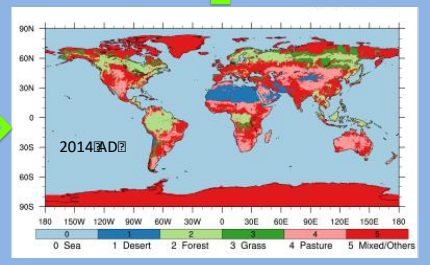
World Land Use Map after Analyzed Lifestyle Change



Net Primary Productivity change during Afforestation







Begin with 2014 HYDE Land Use Data and assume that re-wilded land reverts to native biome extant in 1800

265 GtC can be sequestered on just 19.6 MKm² of grasslands and pasture lands reverted to native forests.

This is greater than the 240 GtC added to the Earth's atmosphere since 1750!

Forest Biome	NPP KgC/m²/yr (Primary Forest)	CO2 Fertilization Factor (Primary Forest)	NPP KgC/m²/yr (Secondary Forest)	CO2 Fertilization Factor (Secondary Forest)
Tropical Evergreen	1.05	1.76	0.94	1.42
Temperate Evergreen	0.48	1.40	0.51	1.31
Boreal Evergreen	0.39	1.23	0.32	1.20
Tropical Deciduous	0.64	1.52	0.69	1.33
Temperate Deciduous	0.53	1.35	0.50	1.29
Boreal Deciduous	0.21	1.22	0.38	1.12

3. The Supporting Data

Total Area of Grasslands/Pasturelands at present: 47.3 MKm²

Carbon Sequestra; on in such lands at present: 52.8 GtC

Total Area of such lands reverted to forest biomes: 19.6 MKm²

Carbon Sequestra; on in reverted lands at present: 27.5 GtC

Carbon Sequestra; on in reverted forest biomes at maturity: 292.7 GtC

Net Carbon Sequestra; on at forest maturity: 265.2 GtC

Net Carbon Sequestra; on at forest maturity per unit area: 13.6 KgC/m²

Es; mated above ground te growth over 20 years (Silver et al.): 617 gC/m²/yr = 20 yrs = 12.3 KgC/m²

[1] Silver, W.L., D. Ostertag, R. Lindlugo, A.E. J. The Poten; al for Carbon Sequestra; on through Reforesta; on of Abandoned Tropical Agricultural and Pasture lands. Restora; on Ecology, Vol. 8, Issue 4, Pages 394-407, Dec. 2000.

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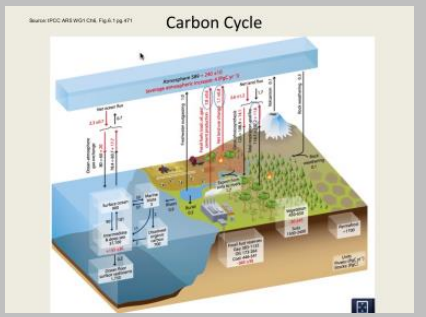
Shijie Shu, sshu3@illinois.edu, +1-(217)-721-3092



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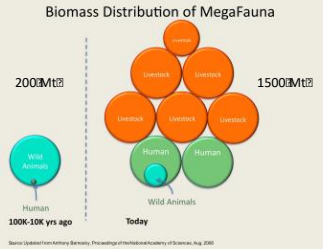

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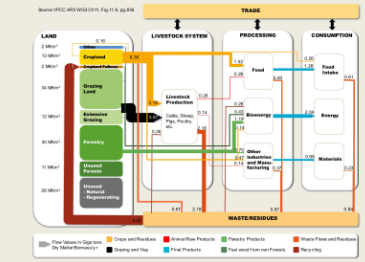

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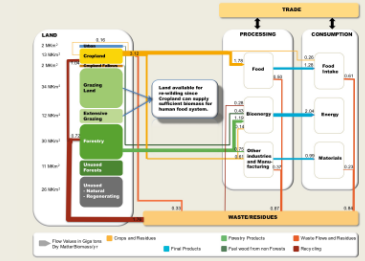

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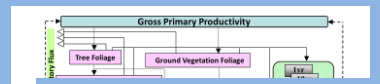

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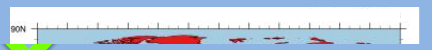

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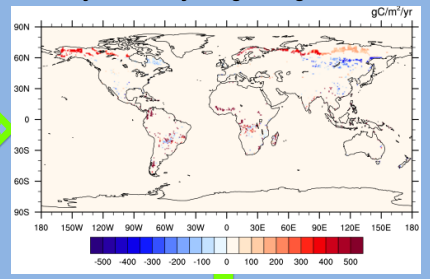

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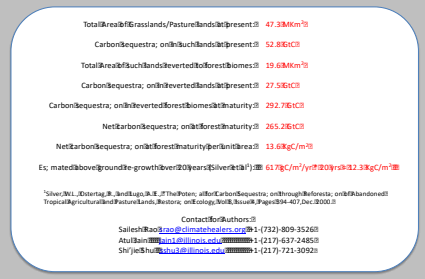
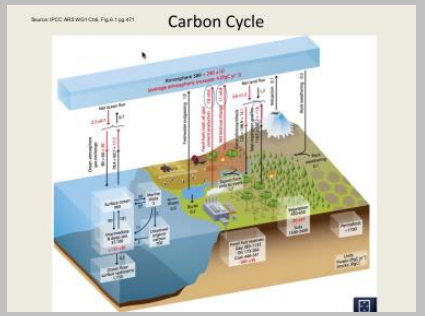




WHY DID THE US GOVERNMENT

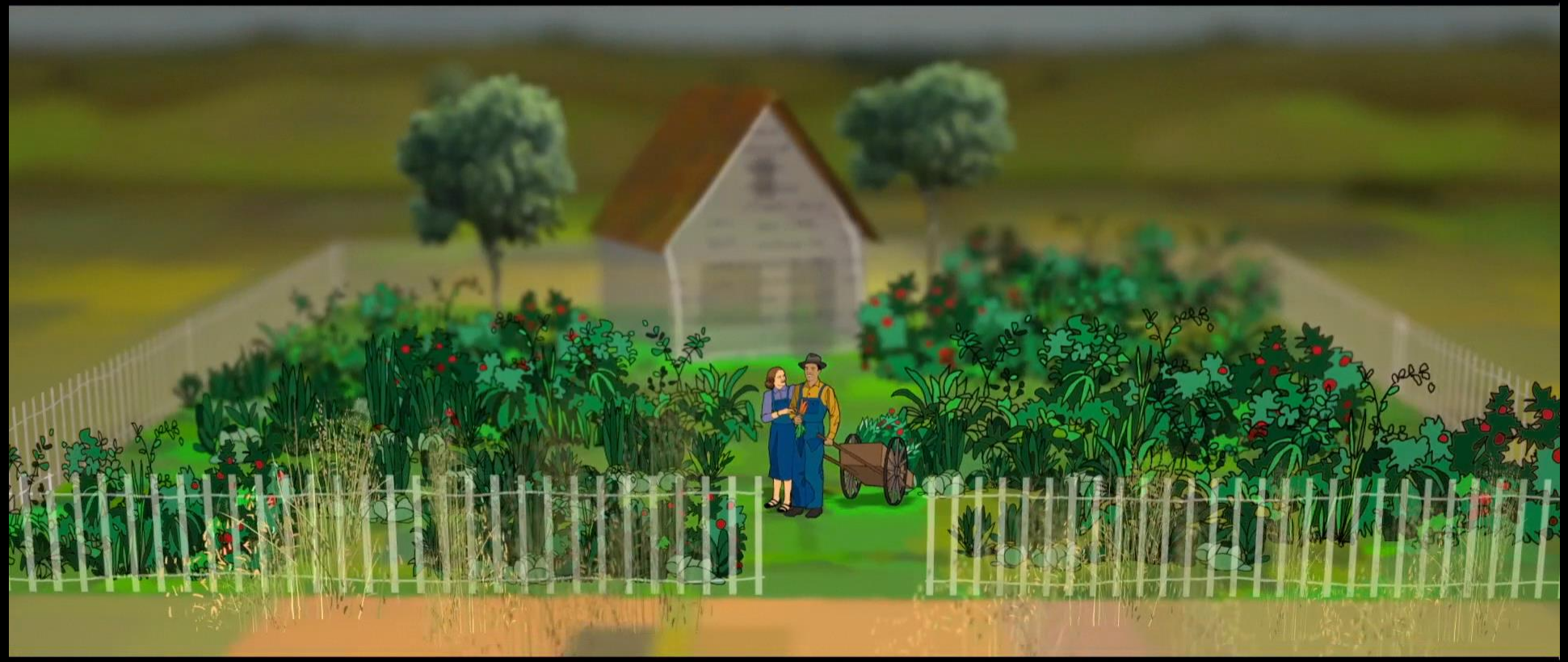
KILL 2.7 MILLION

WILD ANIMALS

LAST YEAR?

IT’S REALLY A POPULATION ISSUE..

LIVESTOCK



So why aren't we hearing about this constantly from environmental organizations?

Animal Enterprise Terrorism Act

"for the purpose of damaging or interfering with the operations of an animal enterprise."

AG-GAG LAWS

anti-whistleblower laws that apply to the ag industry


BUT THERE'S
SOMETHING
YOU
CAN DO!

WHAT YOU CAN DO?

SWITCHING TO A VEGAN DIET SAVES:

1,100 GALLONS OF WATER

30 SQ FT OF FORESTED LAND

45 POUNDS OF GRAIN

20 LBS CO_2 EQUIVALENT

AND ONE ANIMAL'S LIFE **PER DAY.**

FOR MORE INFO VISIT

www.COWSPIRACY.com