Are livestock always bad for the planet?

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Current Diets vs Planetary Health Diet





The machines can

currently print up to 6kg of meat an hour...



BEYOND MEAT

IMPOSSIBLE





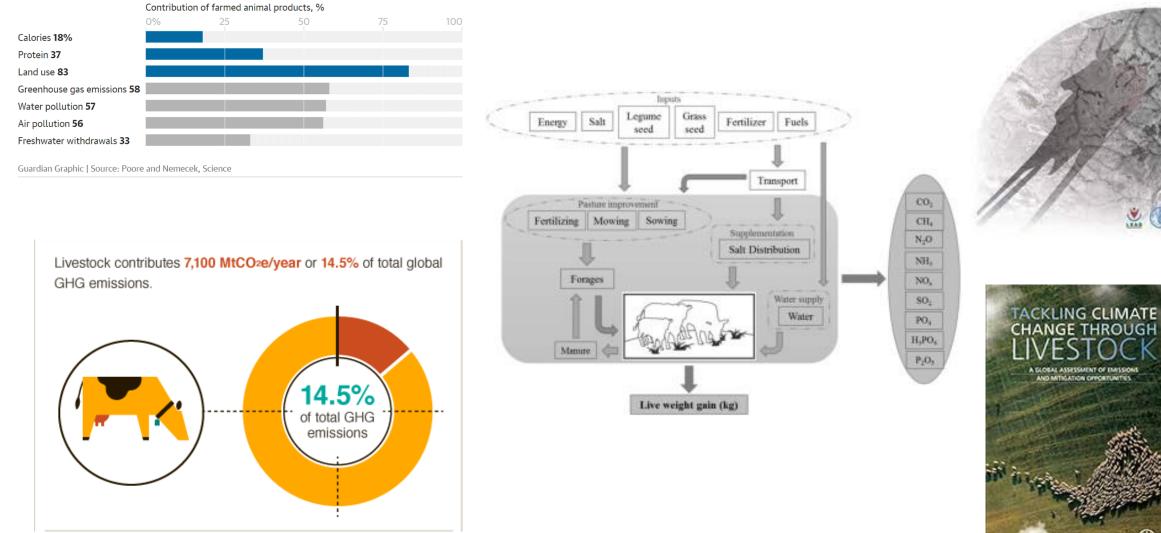








More than 80% of farmland is used for livestock but it produces just 18% of food calories and 37% of protein



livestock's long shadow



TEN GAPS AND ASSUMPTIONS IN MAINSTREAM ASSESSMENTS

Data

- Biases in the data
- Default emissions factors
- Greenhouse gas measures Systems
- Conceptualising 'efficiency'
- Livestock and the carbon cycle Spatial and temporal dynamics
- Ecosystem services
- **Baselines and alternatives**
- Alternative land uses
- Niche replacement
- Consumer choice and dietary patterns

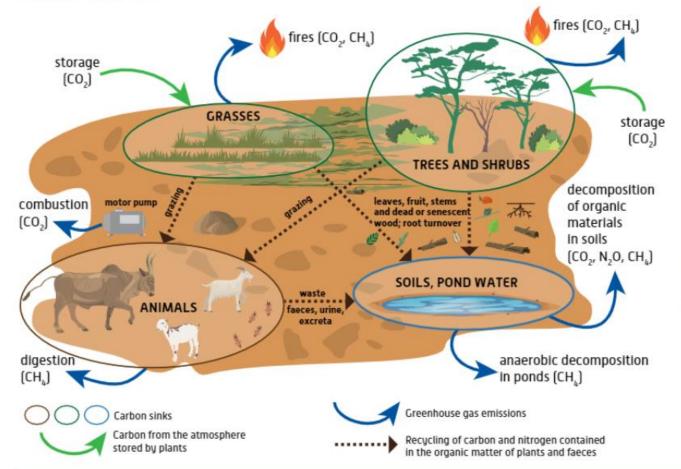




Pastoral landscapes in the Sahel: a carbon balance with unexpected potential for climate change mitigation

Mohamed Habibou Assouma – Philippe Lecomte – Christian Corniaux Pierre Hiernaux – Alexandre Ickowicz – Jonathan Vayssières

In the Sahel, pastoralism capitalises on an extreme environment. Although it is accused of emitting excessive amounts of greenhouse gases per kilogram of milk or meat produced, a research study conducted in Senegal shows that pastoral landscapes can actually have a neutral carbon balance: emissions from animals are offset by carbon sequestration in soils and plants. These findings were obtained using an original evaluation method, known as ecosystem assessment, which integrates the use of the pastoral landscape as a whole, according to the seasons and the areas grazed by herds. These findings indicate that current standards for calculating feeding behaviour and methane emissions from ruminant digestion need to be revised downwards. Other implications are possible, such as improving the carbon balance through specific local practices and promoting these areas on the carbon market. Preserving this livestock system is also one way of fostering development and ensuring greater security in these regions. Simplified model of greenhouse gas emissions and carbon storage in a Sahelian pastoral landscape: the carbon balance ecosystem approach is based on this model.





Putting pastoralists at the centre

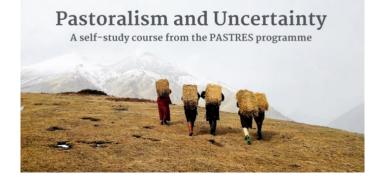
1. Focus on the production process (industrial vs. extensive pastoral production) not the product (meat and milk). **2.Improve** data/challenge assumptions in global assessments. Adopt an integrated systems approach. 3. Avoid quick-fix solutions (cultured meat, 'rewilding') and simplistic diet change recommendations. 4. Bring pastoralists into global conversations on climate change mitigation/adaptation and the future of food systems.













Pastoralism, Uncertainty, Resilience

www.pastres.org

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