

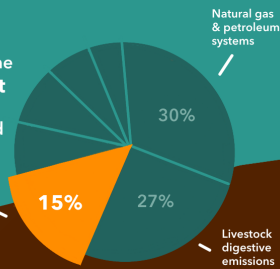
HOW COMPOSTING COMBATS THE CLIMATE CRISIS

1 AVOIDS WASTE OUTCOMES WITH HIGH EMISSIONS

Landfilling food scraps produces **20x** the CO₂e emissions (as methane) as composting

...and when used, compost's net emissions become negative!

Landfills are the **third-largest** source of human-related methane emissions in the U.S.



2 ENHANCES SOIL QUALITY

Compost increases:



Nutrients in soil

- Grows healthier, more nutritious plants & food
- Reduces use of synthetic nitrogen & fossil-fuel-intensive fertilizers

Synthetic nitrogen accounts for **80%** of human-related nitrous oxide emissions



Water holding capacity

Increases soil resiliency to extreme heat & flooding

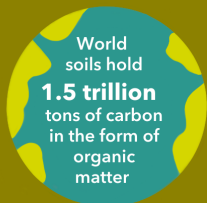


Soil aggregation

Prevents erosion & runoff, thus protecting & restoring waterways

Normally it takes **1,800 years** to build **6 inches** of topsoil but with compost, it takes only **6 months**

3 SEQUESTERS CARBON



What's one of the best ways to build soil organic matter?

Compost!

Degraded soil actually **RELEASES** carbon

But a **1-time** application of compost can make soil a carbon sink again!

Just 1 acre amended with compost can sequester up to



of a car's annual emissions

Compost also increases crop yield & vegetation, leading to even more carbon sequestration

4 BUILDS COMMUNITY RESILIENCY

Healthy soil =

- Food security
- Profitable farms
- Enhanced habitat & biodiversity
- Resilient ecosystems

Degraded soil has been linked historically to the fall of civilization!

Community composting =



- Local jobs
- Environmental education
- Community bonds & safety
- Physical activity & healthy diets
- Social inclusion & empowerment