



Composting

An Introduction

Hawaiian Earth Recycling

Blane Yoshimura

Hawaiian Earth Recycling



About Us

Green, Wood, and Food waste Recycling Company

- ▶ *Menehune Magic* Soil Amendments
- ▶ Naturally revitalizing our land since 1993
- ▶ We recycle over 140,000 million pounds of green waste per year into OMRI certified compost.
- ▶ Hawaii soils are starving for organic matter!!!



Compost - Defined

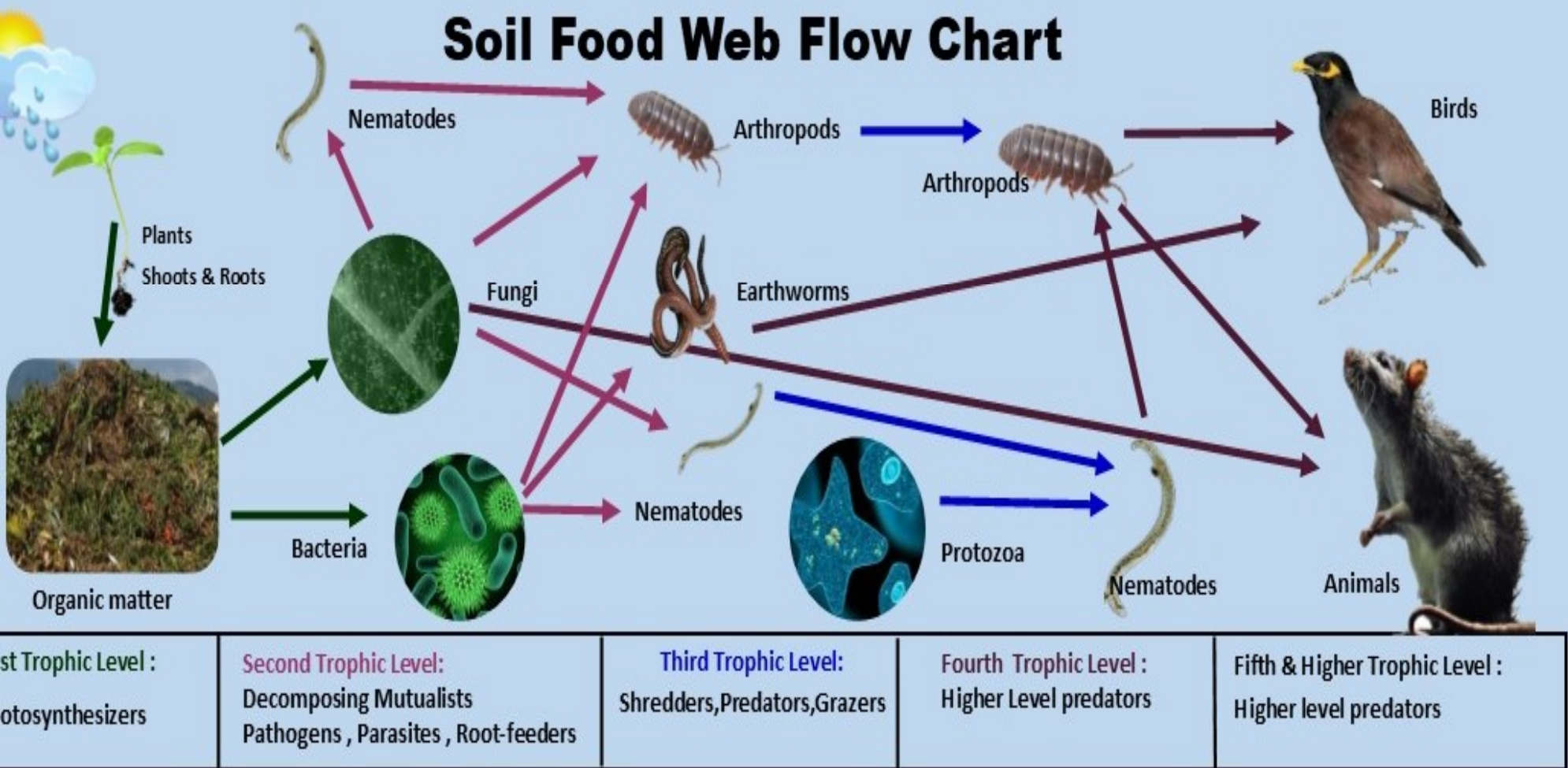
Compost - is the product manufactured through the controlled aerobic, biological decomposition of biodegradable materials.

The product has undergone mesophilic and thermophilic temperatures, which significantly reduces the viability of pathogens and weed seeds, and stabilizes the carbon such that it is beneficial to plant growth.

Compost is typically used as a soil amendment, but may also contribute plant nutrients.

- ▶ Ron Alexander of R. Alexander Associates - March 2, 2018
U.S. Composting Council liaison to the American Association of Plant and Food Control Officials

Composting at a glance



The Composting Process

Process appropriate feedstock(s) [as permitted]

Construct Windrows/Heaps

Monitor decomposition

Screen for final product

Feedstocks

Raw material - recipe

Carbon to Nitrogen Ratio [aka. C:N Ratio]

- ▶ Green to Brown balance

Moisture content

Porosity / Free air space

- ▶ Amount of voids = oxygen availability

- ▶ Particle size

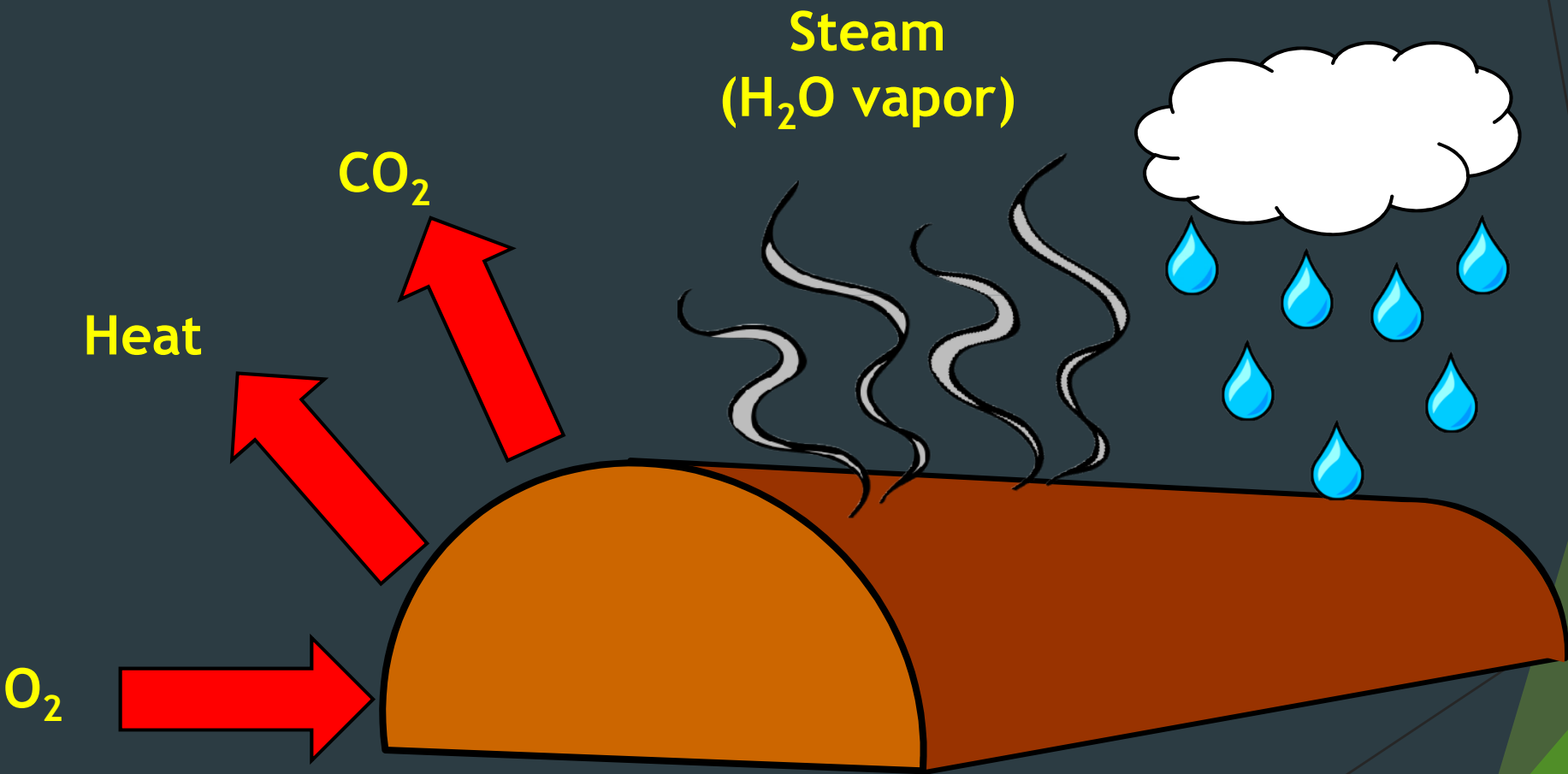
The Composting Process - *Grinding*



The Composting Process - *Windrows*



The Composting Process - Windrows



The Composting Process - *Watering*



The Composting Process - *Turning*



The Composting Process - *Monitoring*



The Composting Process - *Curing*



The Composting Process - *Screening*



Finished Product - *Soil Conditioner Compo*



Uses - Farmland Soil Restoration



Uses - *Erosion Control & Management*



Challenges



Thank You for Listening!!!



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