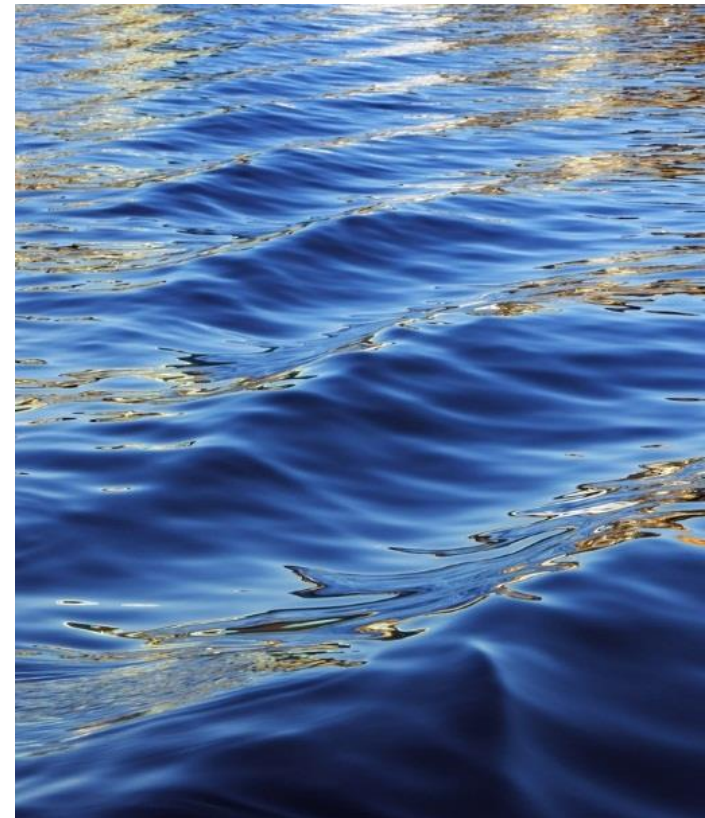




Compost and the Healthy Soil Network

Craig Kolodge Ph.D.
San Pasqual Valley Soils



Just What Do We Mean When We Describe a Soil As Healthy?

NRCS Definition:

Soil health, also referred to as soil quality, is defined as the continued capacity of soil to function as a vital living ecosystem that sustains plants, animals, and humans.

Just What Do We Mean When We Describe a Soil As Healthy?

NRCS Definition:

Healthy soil gives us clean air and water, bountiful crops and forests, productive grazing lands, diverse wildlife, and beautiful landscapes.

Soil does all this by performing five essential functions:

Just What Do We Mean When We Describe a Soil As Healthy?

NRCS Definition:

- **Regulating water**

Soil helps control where rain, snowmelt, and irrigation water goes. Water flows over the land or into and through the soil.

- **Sustaining plant and animal life**

The diversity and productivity of living things depends on soil.

Just What Do We Mean When We Describe a Soil As Healthy?

NRCS Definition:

- **Filtering and buffering potential pollutants**

The minerals and microbes in soil are responsible for filtering, buffering, degrading, immobilizing, and detoxifying organic and inorganic materials, including industrial and municipal by-products and atmospheric deposits.

- **Cycling nutrients**

Carbon, nitrogen, phosphorus, and many other nutrients are stored, transformed, and cycled in the soil.

Just What Do We Mean When We Describe a Soil As Healthy?

NRCS Definition:

- **Providing physical stability and support**
Soil structure provides a medium for plant roots. Soils also provide support for human structures and protection for archeological treasures.

Just What Do We Mean When We Describe a Soil As Healthy?

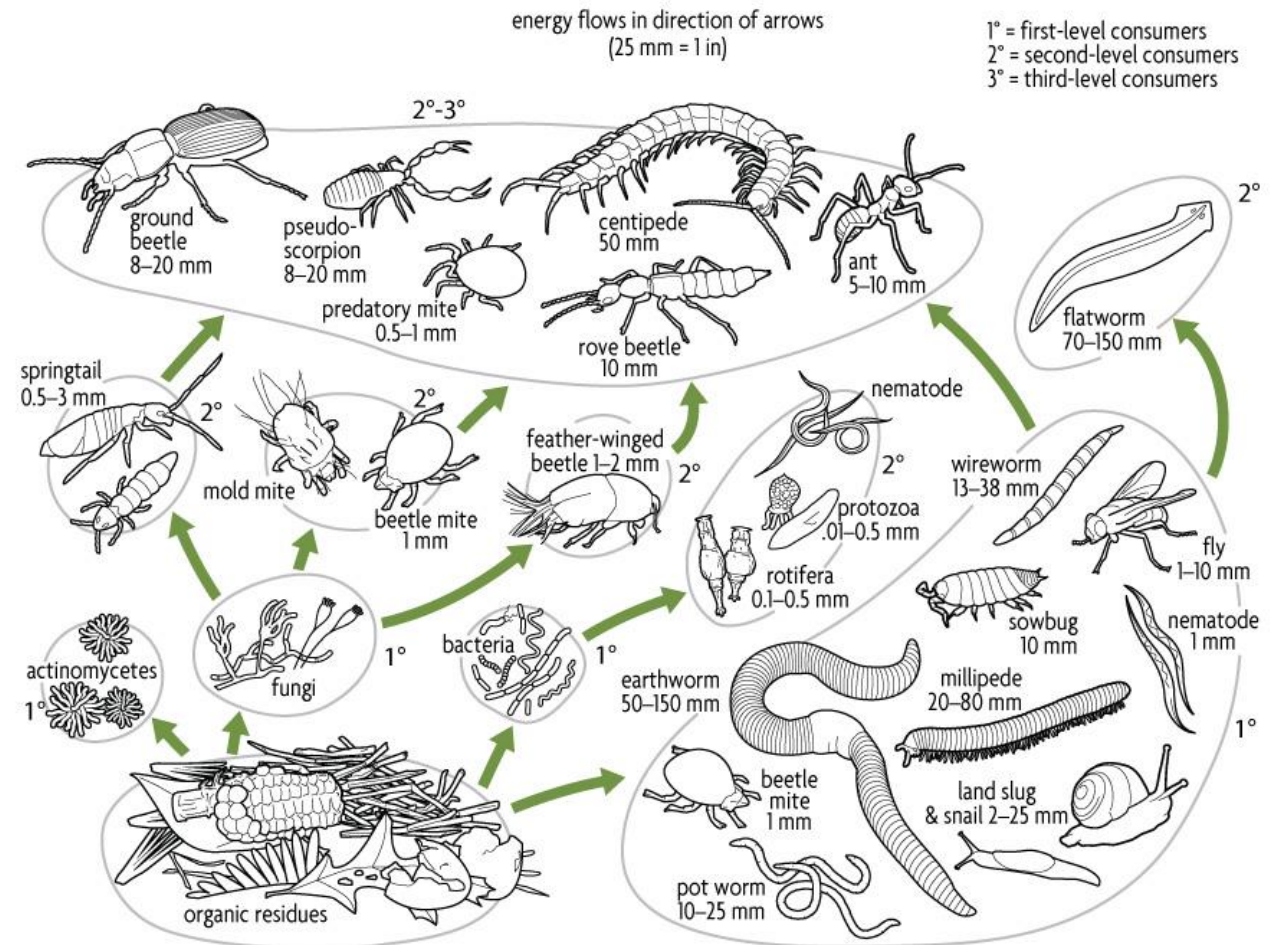
NRCS Definition:

Only "living" things can have health, so viewing soil as a living ecosystem reflects a fundamental shift in the way we care for our nation's soils.

Soil isn't an inert growing medium, but rather is teaming with billions of bacteria, fungi, and other microbes that are the foundation of an elegant symbiotic ecosystem.

The Soil Food Web (Network)

Compost & The Soil Food Web

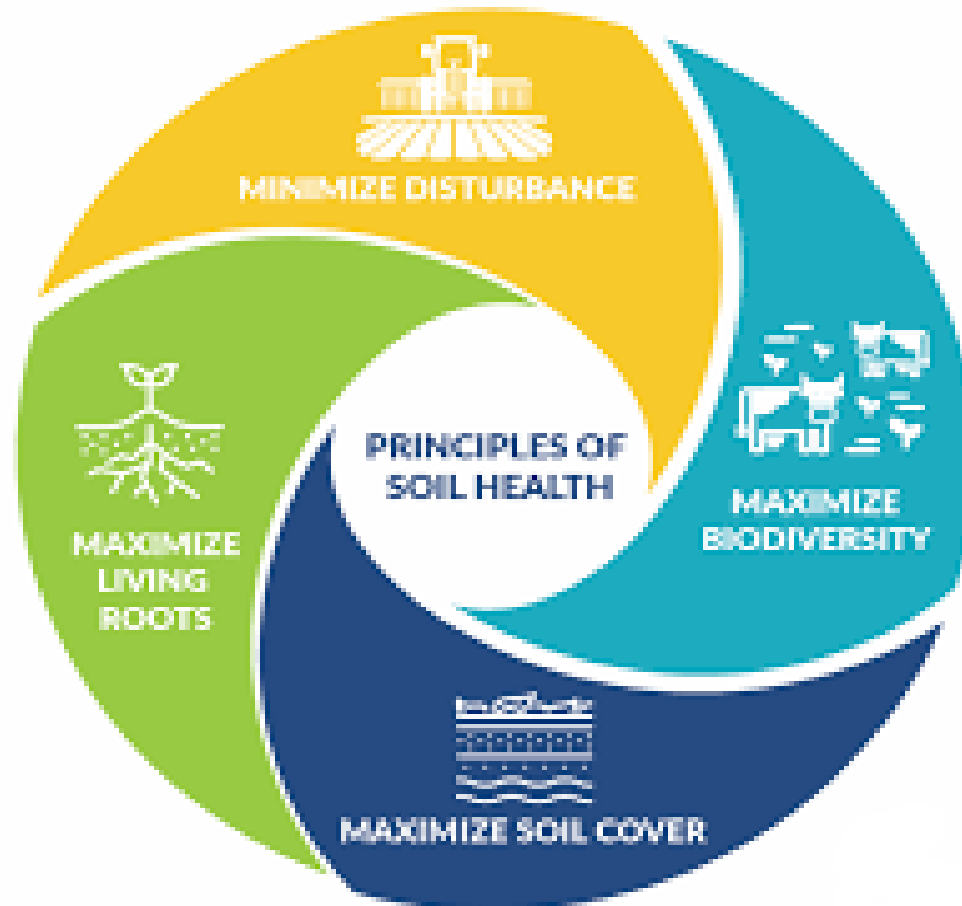


The Soil Food Web (Network)

Compost & The Soil Food Web



How Does One Create Soil Health?



How Does One Create Soil Health?

Health Principles Supporting High Functioning Living Soils

Feed

Fuel Soil Biology

Improve Resilience

Improve Soil Organic Matter (SOM)

&

Protect

Soil Aggregates

Organism Habitat

SOM

United States Healthy Soil Network

National Healthy Soil Programs

US Composting Council

Compost Research and Education Committee

USDA – National Institute of Food & Agriculture; Ag Research Service

US Carbon Cycle Science Program

National Resource Conservation Service (NRCS)

Acres USA

Soil Health Institute

Kiss the Ground

Farmers for Soil Health

Rodale Institute

Soil Health Partnership

California's Healthy Soil Network

Principles Associated with High Functioning Networks

Leadership - **ACP**

Financial Support (Funding) – **CDFA; CalRecycle**

Sharing Information & Resources – **UCANR/UCCE; NRCS/RCD's**

Regular & Consistent Communication – **To Be Determined**

Common Goals – **To Be Determined**

Purpose of the Healthy Soil Summit

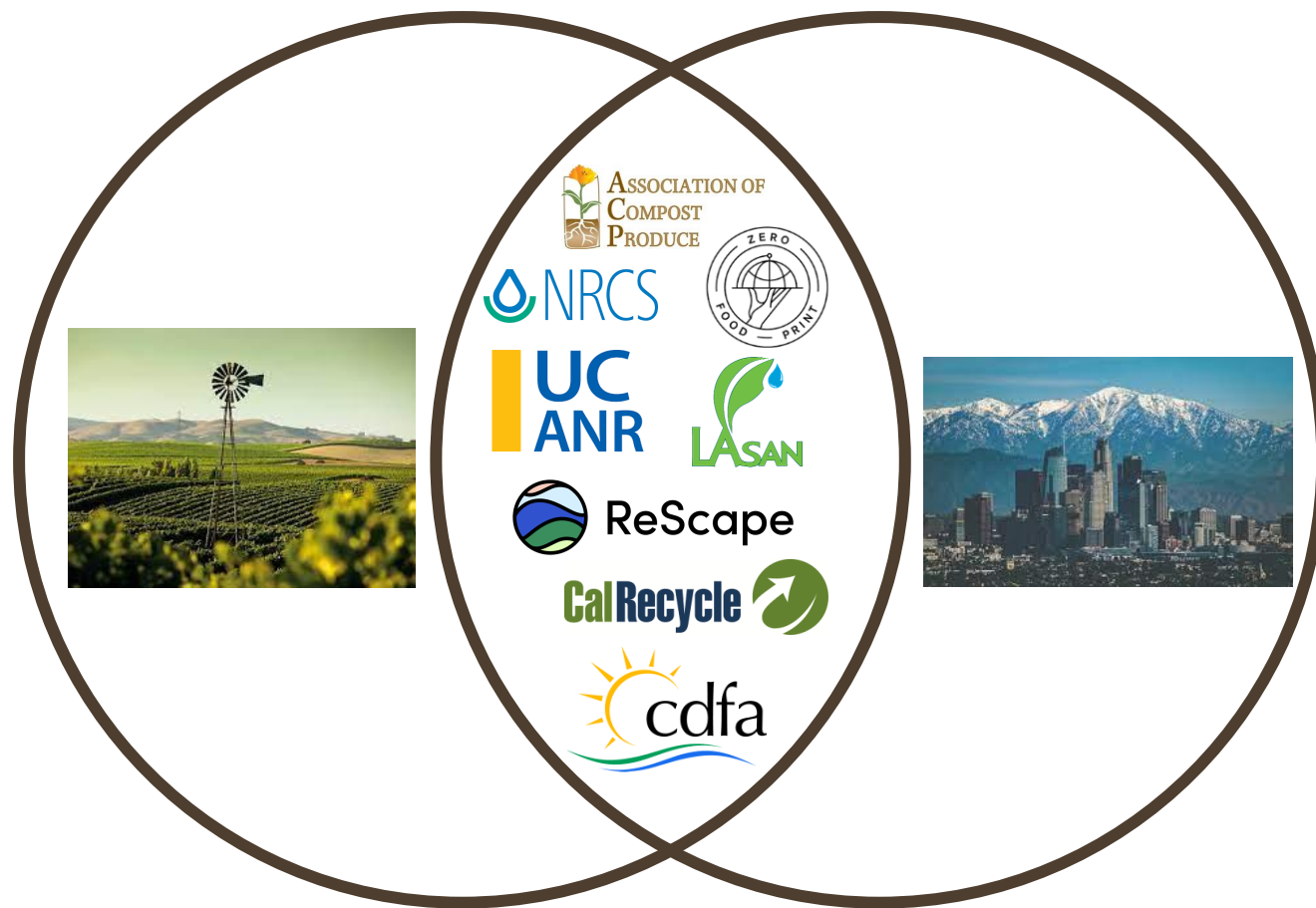
California Big Picture:

- Organics recycled, tested, diverted and applied instead of the landfilled to reduce SLCP (SB 1383)
- Majority goes to creating compost.

Current Need:

Bring together organizations with common goals to:

- Build an equitable regenerative “soil health-building” industry in California.
- Provide a vehicle for building a science/market-driven regenerative soil-health industry in California.



Healthy Soil Summit

Vertical & Horizontal Collaboration in California

Tuesday, May 3, 2022 – 8:30 am to 1:00 pm

A virtual [zoom](#)  Meeting

Eight Healthy Soil Organizations, Collaborating to build a better California, from the ground up.



California's Healthy Soil Network

California Statewide Healthy Soil Programs

CDFA Healthy Soil Program - Incentive & Demo Grant Programs

Resource Conservation Service (RCD's)/NRCS

University of California ANR/UCCE - Healthy Soils Program

CalCAN – California Climate & Agriculture Network

City of Los Angeles – Healthy Soils Strategy Document

Association of Compost Producers (ACP)

Zero Foodprint

RescapeCA

CalRecycle

Questions for each presenter:

After a brief intro to your organization address 4 questions:

How does your organization define "Healthy Soil"?

How do you promote and/or produce healthy soil in California and connect it to SB 1383 implementation goals?

What is your current relationships with one or more of the other organizations at this Summit?

How do we make the creation of Healthy Soil a higher environmental, infrastructure and investment priority in California?

Healthy Soil Summit Program – Panel

11:40 AM	Eight Person Panel - Next Steps Coordination	Panel Participants
	Moderator:	Zahra Kelly, Chair of ACP Education Workgroup
	CDFA	Grace Chen, Ph.D.
	CalRecycle	Heather Williams
	NRCS	Tony Rolfes, State Soil Scientist
	UCANR/UCCE	Oli Bache
	ACP	Craig Kolodge, ACP Board Member
	LA San	Michael Martinez, LACompost.org
	Zero Foodprint	Anthony Myint
	RescapeCA	Sarah Gronquist

12:50 PM Adjourn

Bioresources

- Compost, and other bioproducts

Organics Residual Bioproduct Categories

- Mulch



- Compost



- Biofertilizer



- Biochar



- Animal Feed



- Electricity



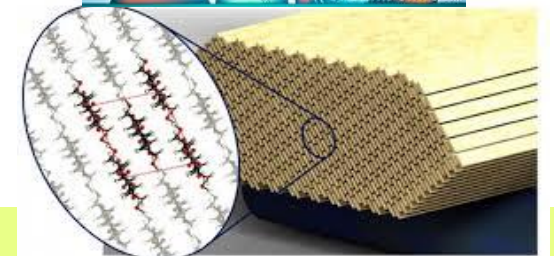
- Biofuels



- Chemicals



- Product Materials

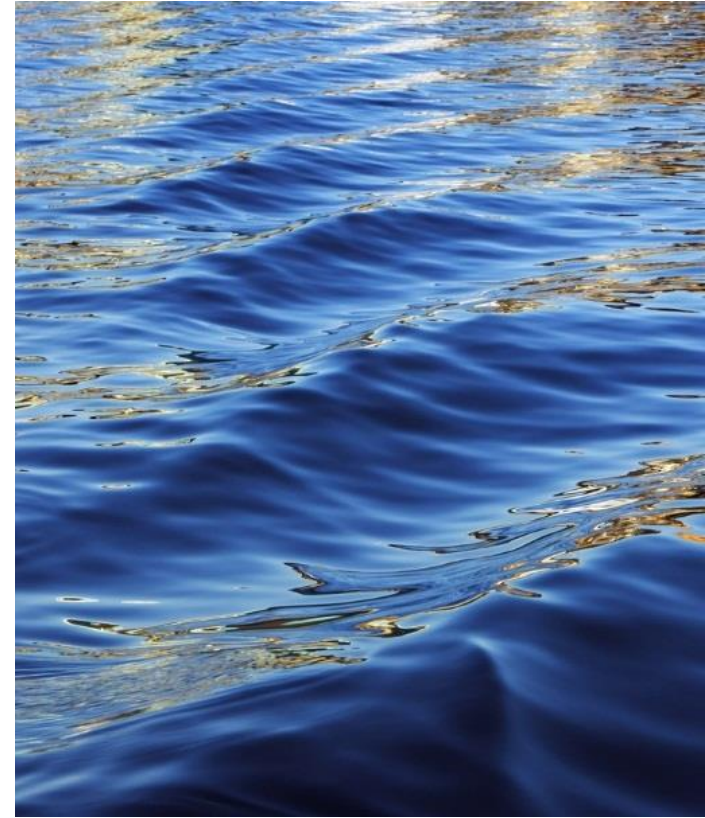


First Step Toward Building a “California Healthy Soil Network”

Recognize the critical and essential link between Compost, healthy soil, clean water and a climate-smart atmosphere.



Without a Clear and Stronger Commitment to Building Healthy Soil With Compost, We Will Not Achieve the Goals of SB1383



A Collaborative and
Consistent Effort
Towards Building a
“California Healthy
Soil Network” Is
Necessary For The
Success of SB1383



We have a California
Air Quality Resources
Board, A Water Board
.... But No Healthy
Soil Board ... Why
Not?

All Three Are Inextricably
Linked ! How have we
missed and/or ignored the
connection for so long?



Please Contact Dan Noble of ACP to Further Discuss Your Support of this Initiative and How You Can Help

Dan Noble, Executive Director
Cell: 619-992-8389
danwyldernoble@gmail.com

