

Join our table to farm movement



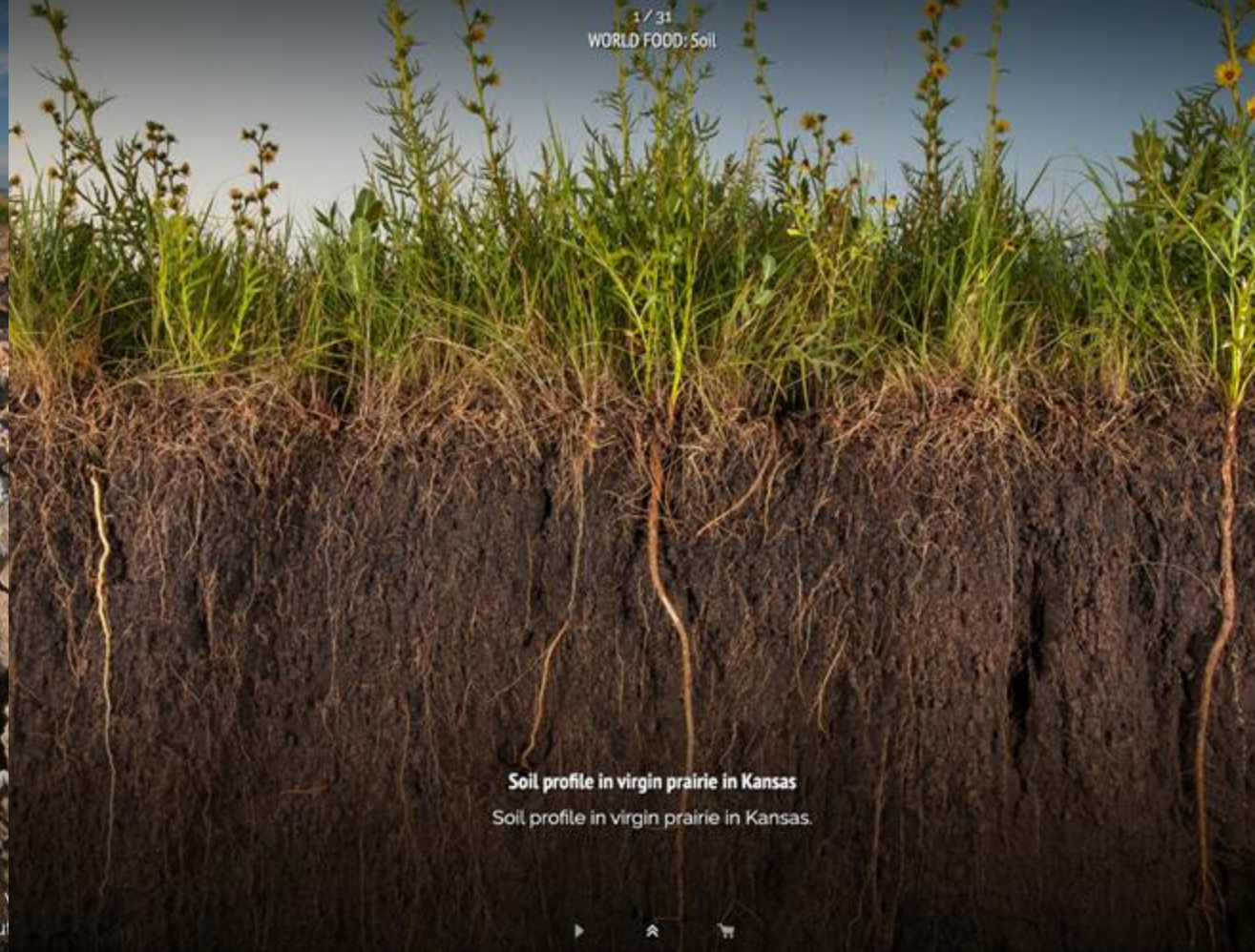
Compost & SB 1383

Jurisdictions working with Agriculture to Sequester Carbon

Leo Beckerman, Director of Operations



Zero Foodprint



"Global adoption of regenerative practices across grasslands and cropland could sequester more than 100% of current anthropogenic emissions of CO₂"

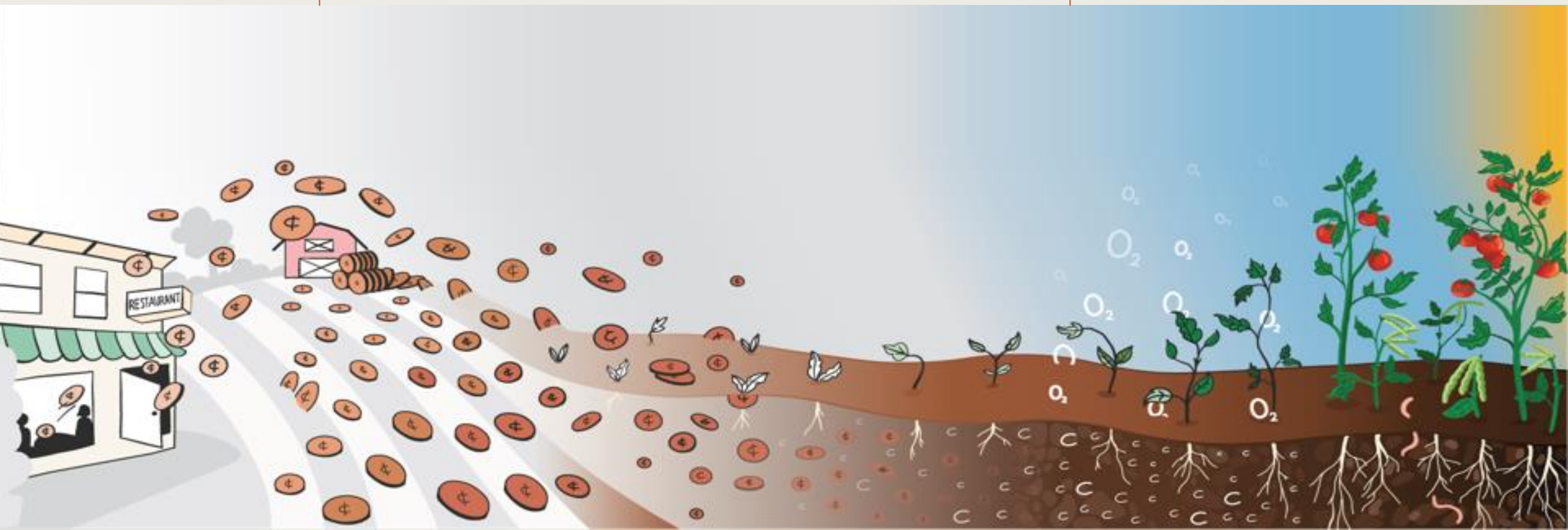
Source: Regenerative Agriculture and the Soil Carbon Solution;
Jeff Moyer, Andrew Smith, PhD, Yichao Rui, PhD, Jennifer Hayden, PhD The Rodale Institute

Theory of Change

A few cents per purchase

Adds up to big investments in soil and more acres of regenerative farming.

This improves our food and restores our climate.



Climate Benefit *Per Dollar*

COST

f_x Total Cost
\$16,000.00
\$19,900.00

CARBON BENEFIT

# Total CO2e	\$ P
18.0	1195.00
63.0	931.24

=

\$ PER TON CO2e

f_x Climate ROI
\$13.39
\$21.37



L. Name	Practices	Total Cost	Practice Cost	Total Acres	Total CO2e	TAP	TAP cost	Climate ROI
delante S...	Compost Application, Mulching, Tree/Shrub Establishment	\$16,000.00	\$14,000.00	18.0	1195.00	UCANR	\$2,000.00	\$13.39
Lundi Farm	Compost Application	\$19,900.00	\$19,900.00	63.0	931.24	UCANR	\$0.00	\$21.37
lickert Ra...	Range Planting	\$24,500.00		200.0	500.00	Point Blue Conservation	\$0.00	\$49.00
vergreen	Compost Application, Cover Crops			50.0	435.83	San Diego RCD	\$3,000.00	\$57.39
erucchi R...	Compost			25.0	431.63	Gold Ridge RCD	\$4,100.00	\$66.26
asbar Far...	Compost			540.0	369.00	Dixon RCD	\$500.00	\$67.91
indrose ...	Compost			44.0	196.09	Upper Salinas-Las Tabl	\$2,000.00	\$72.42
indrose ...	Compost			47.0	216.32	Upper Salinas-Las Tabl	\$2,000.00	\$74.89
lacci Dal...	Riparian			16.0	253.31	Sonoma RCD	\$3,000.00	\$78.95
onoma C...	Hedgerow			3.2	315.00	California Land Trust In	\$0.00	\$79.37
arnecke ...	Conservation			50.0	260.23	Sonoma RCD	\$5,000.00	\$90.47
hite Buff...	Compost A			20.0	47.40	UCANR	\$0.00	\$105.06
odega Pa...	Compost A			255.8	244.64	Gold Ridge RCD	\$4,100.00	\$118.81
un Track...	Cover Crop			32.2	37.00	Point Blue Conservation		\$118.92
olorio's F...	Compost A	\$2,301.00	\$2,301.00	6.0	18.80	Monterey RCD	\$0.00	\$122.39

**EXCERPT FROM
CA GRANT
DATABASE
(SORRY TO GET IN THE WEEDS!)**

- Over \$2 million
- 120 carbon farming projects
- 7000 acres
- 50,000 tons of CO2e sequestered

Step 3: Select a NRCS Conservation Practice Standard, Conservation Practice Implementation, and Payment Scenario associated with conservation planning objectives that best describe your project. You may add multiple practices, including from different agricultural systems, by returning to Step 2

- Conservation Practice Standard (CPS)**
- Compost Application (CPS 808)
 - Hedgerow Planting (CPS 422)
 - Prescribed Grazing (CPS 528)
 - Range Planting (CPS 550)
 - Riparian Forest Buffer (CPS 391)
 - Silvopasture (CPS 381)
 - Tree/Shrub Establishment (CPS 612)
 - Windbreak/Shelterbelt Establishment (CPS 380)

- Conservation Practice Implementation**
- Compost (C/N > 11) Application to Grazed Grassland
 - Compost (C/N > 11) Application to Grazed, Irrigated Pasture

- Payment Scenario**
(Note: Payment Scenarios may have different payment rates but do not affect GHG reductions)
- Compost from certified composting facility
 - On-farm produced compost



Screen Capture from
COMET-Planner.com

Restore CA's actual
compost application
project at Tresch
Dairy in Sonoma.

Approximate Carbon Sequestration and Greenhouse Gas Emission Reductions and Payments Associated with Selected Conservation Practices*

(Metric Tonnes CO₂ equivalent per year) [Info]

NRCS Conservation Practices (Click Practice Name for Documentation)	Enter Unit Value (acres or feet)	Carbon Dioxide	Nitrous Oxide	Methane	Total CO ₂ - Equivalent	Estimated HSP payment dollars for the Project Term
[Info] Sonoma, CA Compost Application (CPS 808) - Compost (C/N > 11) Application to Grazed Grassland - Compost from certified composting facility [delete]	23 Acre(s)	100	-1	0.1	N.E.**	\$27,600.00
Total		100.00	-1.00	0.10	99.10	\$27,600.00

*Negative values indicate a loss of carbon or increased emissions of greenhouse gases
 **Values were not estimated due to limited data on reductions of greenhouse gas emissions from this practice
 ***Final payment may be different than estimated payment, pending application review and approval

Download Results

A New California Law Will Create a Lot More Compost—but Will it Make it to Farmland?

A lack of uniform rules and the state's past missteps could keep farmers from getting access to 'brown gold'—and the many climate and farm benefits it offers.

BY GOSIA WOZNACKA • MARCH 2, 2022

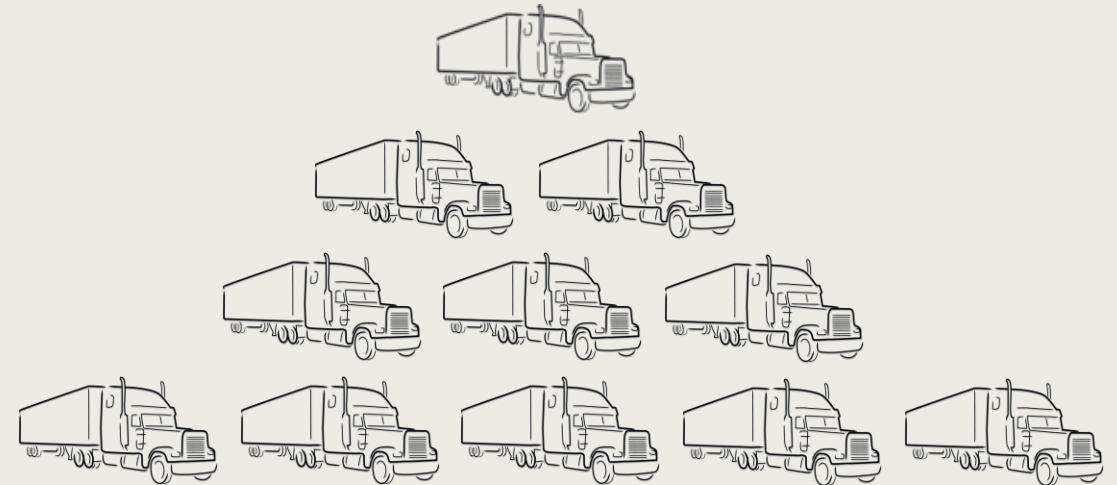


A pile of compost in the farm field at Shone Farm, a teaching farm at Sonoma State University in California. (Photo by Emma K. Morris)

Compost: A Primary Solution

- Estimated ~90 New facilities across CA
- Increase in supply of ~5M tons per year
- Annual procurement requirements ~1.8M tons

That's 90,000 Truckloads!!





Where to PUT IT ALL?

“If compost were applied to a 25% of CA’s rangeland, the soil could absorb 75% of CA’s yearly GHG emissions”*

24,000,000 Acres of Farm Land

*Source: Dr. Whendee Silver, UC Berkeley

Procurement Costs

True Costs:

- Compost: \$25/ton
- Freight and Spreading: \$50/ton
- Real world costs average \$50-\$100/ton of compost

Compost Connector Costs:

- Flat per ton fee to jurisdiction
- Real world costs shared between ZFP, farmer, other grant programs (Healthy Soils, USDA, etc)
- **Cost Saving to Jurisdiction**





Looking for compost?

Search by address or location



Compost Connector

Prior to placing your order:



Fill out the form on our website and sign your contract



Login to your portal to reserve compost credits and secure your rate



You will have 90 days to place your order and submit documentation

Upon placing your order:



Make arrangements with your chosen facility and pay for your compost order



Take two photos of the compost delivery or spreading



Upload photos and invoice to your portal and receive your reimbursement



Enter a new claim at any time through your portal

Compost Request Database

Geolocation + Cost Share + Practice Standard Compliance

Business Name	CA County	Land Type	Tons	Month	CalRecycle Facility	Cost Share/Freight
Rojas Tepetitla Orga...	Monterey	Annual crops...	100.0	December...	Central Coast Compost L	I will pay for 100% of the freight c
Sol Seeker Farm	Monterey	Rangeland (...)	240.0	October (...)	Central Coast Compost L	I will pay for 100% of the freight c
off-beet farm	Solano	Annual crops...	56.0	April (abril)	Cold Creek Compost, Inc	I can pay part of the freight cost a
Happy Goat Inc.	Mariposa	Rangeland (...)	600.0	Septembe...	Highway 59 Compost Fac	I will pay for 100% of the freight c
Suncatcher Farm	Sonoma	Annual crops...	200.0	March (ma...	Recology Jepson Prairie t	I can pay part of the freight cost a
Wilkinson Acres LLC	Solano	Annual crops...	60.0	February (...)	Recology Jepson Prairie t	I can pay part of the freight cost a
Our Global Family F...	San Luis Obis...	Annual crops...	2.0	April (abril)	Composting Facility (Alta	I will make arrangements to picki
Shepherdess Land ...	Ventura	Perennial cro...	100.0	October (...)	Agromin Ag. Composting	I can pay part of the freight cost a
West East Herbal Pl...	Sonoma	Perennial cro...	3.0	Septembe...	West Marin Compost	I will make arrangements to picki
Live Oak Farm	Sonoma	Annual crops...	50.0	January (e...	Cold Creek Compost, Inc	I can pay part of the freight cost a

Reporting

Compost Connector Portal Example

Hide fields Filter Group Sort



<input type="checkbox"/>	Farm Name	Project Completion Date	Invoice from supplier	Tons Procured	True Cost	Modeled CO2e	County
1	Sample Farm	6/6/2022		64.38	\$4,008.22	35.0	San Mateo
2	Apple Farm	5/30/2022		30.46	\$1,305.05	21.0	San Diego
3	Ray Ranch	4/8/2022		113.41	\$6,577.78	216.0	San Mateo
4	Love Farm	6/9/2022		221.44	\$9,214.56	Application rate is outside of...	Santa Cruz
5	Organic Farms	6/14/2022		10.00	\$650.00	5.0	Santa Clara
6	Sun Ranch	4/18/2022		9.00	\$900.00	Application rate is outside of...	Monterey
7	Tall Oaks	5/4/2022		75.60	\$3,980.00	Application rate is outside of...	Sonoma
8	Ethic Apples	5/18/2022		3.67	\$406.20	Application rate is outside of...	Sonoma
<input type="checkbox"/>	Ray Catcher Farm	5/20/2022		189.00	\$10,070.00	Application rate is outside of...	Sonoma
10	Blessed Ranch	6/17/2022		16.65	\$1,152.75	17.0	Riverside
11	Dynasty Orchards	5/24/2022		614.25	\$27,500.00	1056.0	Solano
12	Rescue Ranch	5/19/2022		195.52	\$14,233.86	Application rate is outside of...	Yolo
13	Wine Vineyards, LLC	6/1/2022		553.30	\$40,280.24	720.0	Mendocino

EAR Report

SB 1838 Implementation Record Tool guide.

Sample County Contract # 12345, Task order #0012

Project Name	Date	Product	Quantity	Unit	Direct Procurement or Direct Service Provider?	Direct Service Provider Name	Product Supplier Name	Product Supplier Location	Product Supplier Contact Information	Details of Product Use	Location of Product Application	Invoice or Receipt File Location
Sample Farm	6/6/22	Compost	64.4	Tons	Direct Service Provider	Zero Foodprint	Central Coast Compost LLC	1206 Shore Rd. Hollister, 95023	(831) 809-6900	Regenerative Agriculture	San Mateo, CA	All documentation in Zero Foodprint Report
Apple Farm	5/30/22	Compost	30.5	Tons	Direct Service Provider	Zero Foodprint	San Pasqual Valley Soils	15777 Old Milky Way San Diego, 92027	(760) 746-4769	Regenerative Agriculture	San Diego, CA	All documentation in Zero Foodprint Report
Ray Ranch	4/8/22	Compost	113.4	Tons	Direct Service Provider	Zero Foodprint	Central Coast Compost LLC	1206 Shore Rd. Hollister, 95023	(831) 809-6900	Regenerative Agriculture	San Mateo, CA	All documentation in Zero Foodprint Report
Love Farm	6/9/22	Compost	221.4	Tons	Direct Service Provider	Zero Foodprint	Z-Best Composting Facility	980 State Hwy. 25 Gilroy, 95020	(408) 313-0444	Regenerative Agriculture	Santa Cruz, CA	All documentation in Zero Foodprint Report
Organic Farms	6/14/22	Compost	10	Tons	Direct Service Provider	Zero Foodprint	Central Coast Compost LLC	1206 Shore Rd. Hollister, 95023	(831) 809-6900	Regenerative Agriculture	Santa Clara, CA	All documentation in Zero Foodprint Report
Sun Ranch	4/18/22	Compost	9	Tons	Direct Service Provider	Zero Foodprint	Central Coast Compost LLC	1206 Shore Rd. Hollister, 95023	(831) 809-6900	Regenerative Agriculture	Monterey, CA	All documentation in Zero Foodprint Report
Tall Oaks	5/4/22	Compost	75.6	Tons	Direct Service Provider	Zero Foodprint	Recology Jepson Prairie Organics Composting Fac	6426 Hay Road Vacaville, 95687	(707) 678-4718	Regenerative Agriculture	Sonoma, CA	All documentation in Zero Foodprint Report
Ethic Apples	5/18/22	Compost	3.7	Tons	Direct Service Provider	Zero Foodprint	Grab N' Grow	2759 Llano Road Santa Rosa, 95407	(707) 575-7275	Regenerative Agriculture	Sonoma, CA	All documentation in Zero Foodprint Report
Ray Catcher Farm	5/20/22	Compost	189	Tons	Direct Service Provider	Zero Foodprint	Recology Jepson Prairie Organics Composting Fac	6426 Hay Road Vacaville, 95687	(707) 678-4718	Regenerative Agriculture	Sonoma, CA	All documentation in Zero Foodprint Report
Blessed Ranch	6/17/22	Compost	16.7	Tons	Direct Service Provider	Zero Foodprint	"Agriscapc, Inc."	37760 Borel Rd. Murrieta, 92563	(951) 696-0651	Regenerative Agriculture	Riverside, CA	All documentation in Zero Foodprint Report
Dynasty Orchards	5/24/22	Compost	614.3	Tons	Direct Service Provider	Zero Foodprint	Recology Jepson Prairie Organics Composting Fac	6426 Hay Road Vacaville, 95687	(707) 678-4718	Regenerative Agriculture	Solano, CA	All documentation in Zero Foodprint Report
Rescue Ranch	5/19/22	Compost	195.5	Tons	Direct Service Provider	Zero Foodprint	"Cold Creek Compost, Inc."	6000 Potter Valley Road Ukiah, 95482	(707) 485-5966	Regenerative Agriculture	Yolo, CA	All documentation in Zero Foodprint Report
Wine Vineyards, LLC	6/1/22	Compost	553.3	Tons	Direct Service Provider	Zero Foodprint	"Cold Creek Compost, Inc."	6000 Potter Valley Road Ukiah, 95482	(707) 485-5966	Regenerative Agriculture	Mendocino, CA	All documentation in Zero Foodprint Report

Climate *Benefits*



Example County Compost Procurement

November 1, 2021- December 31, 2021

Powered by Zero Foodprint

Executive Summary: Using funds supplied by Example County, Zero Foodprint was able to supply two farms with compost totaling nearly 570 tons spread over 119 acres. This will sequester 1,597 tons of CO2 equivalent over three years.

Tons of Compost Procured:
569.7

Total Acres Treated:
119.1

Total Modeled Climate Benefit:
1597 Metric Tons CO2e

Compost Attributable to The County:
569.7 Tons/1139.4 Cubic Yards

Modeled Climate Benefit Attributable to The County:
1597 Metric Tons CO2e

Project Names
Example Farm - 234.0 tons Example Orchard - 335.7

Practices
Compost Application Perennial Crop
Compost Application Rangeland (CDFA 5-8 tons/acre)

Compost Producer(s)
Central Coast Compost LLC
Recology Jepson Prairie Organics Composting Fac



**SONOMA CLIMATE
MOBILIZATION**
RESILIENT · EQUITABLE · TRANSFORMATIVE



STRATEGY
Adopted March 2021



Strategy 9. Scale Up the Infrastructure for Sequestration

Goal: Build the physical, social, and economic capacity for successful carbon sequestration.

Objectives:

- 9.1 Create a “sequester local” program to help Sonoma County businesses reinvest carbon-offset dollars within the community.
- 9.2 Secure permanent Resource Conservation District funding for scaling carbon farming, starting with \$2 million and increasing to \$20 million per year within the next ten years.
- 9.3 Scale up the infrastructure necessary to fully implement Carbon Farm Plans.
- 9.4 Develop a comprehensive residential carbon gardening education campaign.
- 9.5 Develop a carbon sequestration training for landscape professionals, and County and municipal parks and recreation staff.
- 9.6 Use policies, civic incentives, and educational efforts to take action and build civic engagement toward achieving Sonoma County’s ambitious climate action goals.

Potential implementation partners:

- Sequester local program: REcology, Zero Foodprint, Zero Waste Sonoma, and local businesses
- Secure permanent RCD funding: Resource Conservation Districts, Zero Foodprint, REcology, and Sonoma County

Procurement as Climate Action.



THANK YOU

Leo Beckerman

LEO@ZEROFOODPRINT.ORG



Zero Foodprint