

Healthy Soil Program projects RCD of Greater San Diego County

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FIRE SAFETY



SCHOOL EDUCATION



POLLINATOR SUPPORT



COMMUNITY GARDEN



CARBON FARMING

OUR PARTNERS:





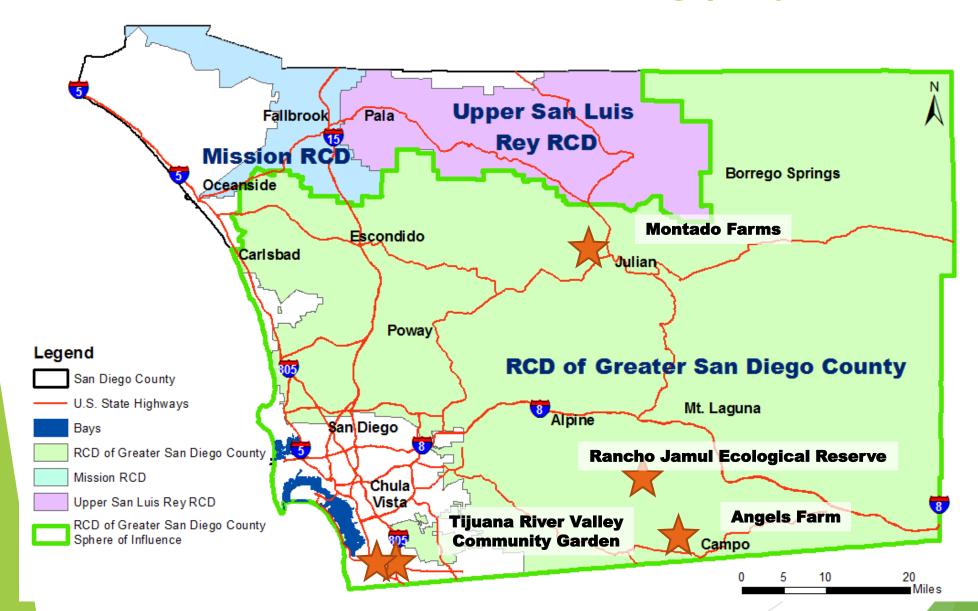






HABITAT RESTORATION

RCD related carbon farming projects





Montado Farm, Santa Ysabel

First Carbon Farm Plan in San Diego, by Dr. Chandra Richard





Tijuana River Valley, Hedgerow



One year later





Tijuana River Valley

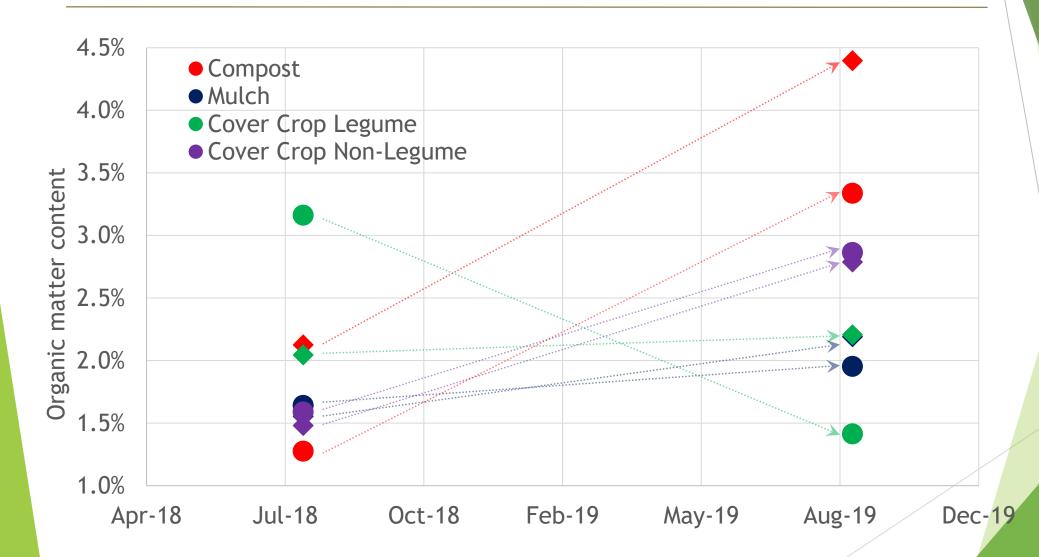
- Healthy Soils Demonstration Project grant funded by CDFA
- Started August 2018
- ► Farmed by our Head Gardener, Gregg Cady
- 3 practices (with test and control plots)

Compost Mulch Legume cover crop Non-legume cover crop



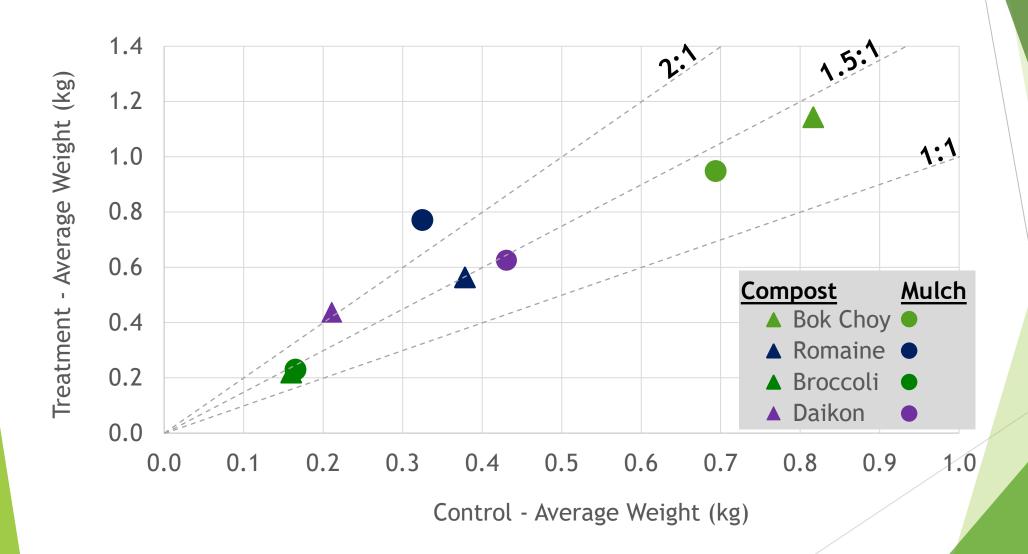


Increased soil organic matter in most fields



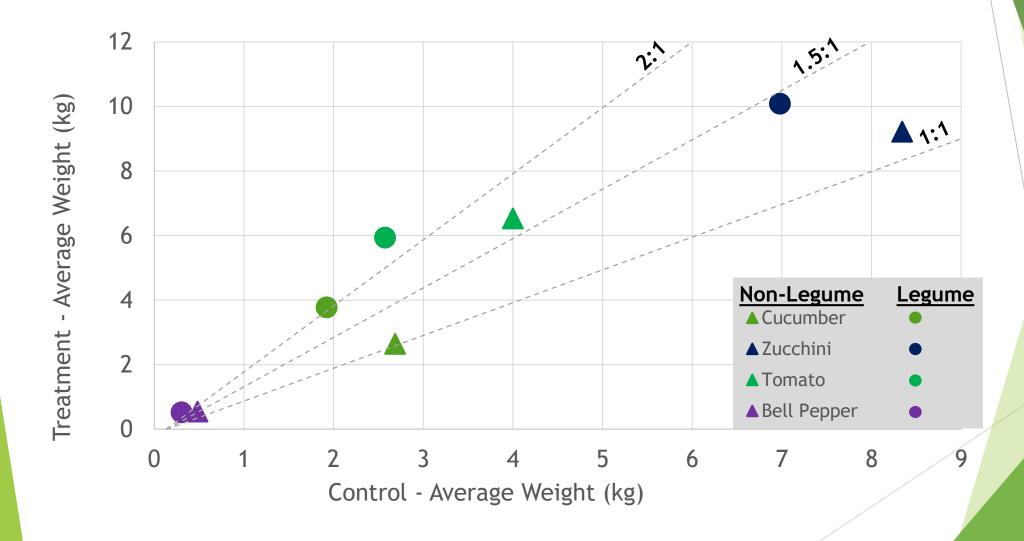


Crop yields - compost & mulch





Crop yields - cover crops





Rancho Jamul Ecological Reserve

- Healthy Soils Demonstration Project grant funded by CDFA, 2019
- Prescribed grazing









Angels Farm, Campo

- Healthy Soils Incentives Program, funded by CDFA
- Started in 2018

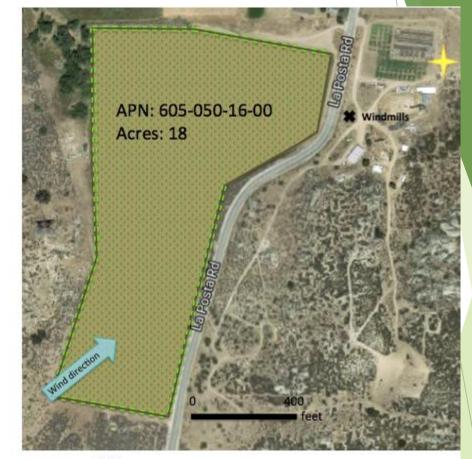






Angels Farm, Campo

- Implemented practices:
 - Legume cover crops
 - Compost application
 - Hedgerow
- Alterations were made to the hedgerow plan
- Mistakes were made regarding the compost application





Field 1:

Replacing synthetic fertilizer with compost, CN >11 18 acres, Sequestering 77 metric tonnes CO₂ E per year



Field 1:

Legume cover crop, 18 acres, Sequestering 5 metric tonnes CO₂ E per year



Field 2:

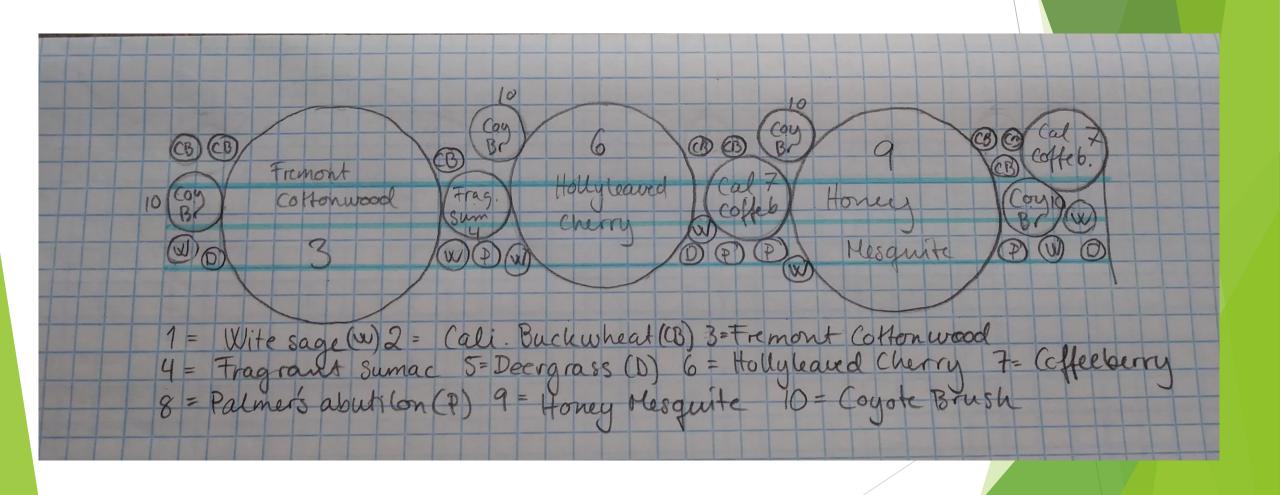
Hedgerow, 3,405 feet, 0.63 acres Sequestering 5 metric tonnes CO₂ E per year



Potential future compost facility



Angels Farm, Implementation



Final order

	Species	Total number of plants	price per plant - 1 gal containers	price
White sage	Salvia apiana	108	\$3.5	\$378
California buckwheat	Eriogonum fasciculatum	144	\$3.5	\$504
Fremont cottonwood	Populus fremontii ssp. Fremontii	18	\$3.5	\$63
Fragrant sumac	Rhus aromatic	18	\$5.25	\$94.5
Deergrass	Muhlenbergia rigens	72	\$3.5	\$252
Hollyleaved cherry	Prunus ilicifolia	18	\$10.25	\$184.5
California coffeeberry	Rhamnus californica *	36	\$4.5	\$162
Palmer's abutilon	Abutilon palmeri	72	\$5.25	\$378
Honey Mesquite	Prosopis glandulosa	18	\$5.25	\$94.5
Coyote brush	Baccharis pilularis	90	\$3.5	\$315
*may be changed to and	ther variety		Estimated total	
*may be changed to and	oniei variety		price	\$2425.5
			Cost for	
			transportation	\$125

Additional costs: plastic for weed suppression, gopher cages and irrigation



Angels Farm, Payment rates

3. Establishment of Woody Cover Practices											
Management Practice	Practice Implementation (COMET-Planner)	Scenario Name	Payment Unit	Payment Rate	Acres	Feet	# of years to implement		Grant Amount Requested	Match Amount	In-Kind Contributio n
Hedgerow Planting (CPS 422)	Replace a Strip of Cropland with 1 Row of Woody Plants	Single row with wind protection	Ft	\$5.94	0.625	3405	1	\$ 20,225.70	\$ 18,225.70	\$ 2,000.00	
	Replace a Strip of Grassland with 1 Row of Woody Plants	Single row with wind protection	Ft	\$5.94	0.000		1	\$0.00	\$0.00		

1. Soil Management Practices											
1.1 Cropland Management Practices											
Management Practice	Practice Implementation (COMET-Planner)	Scenario Name	Payment Unit	Payment Rate	Acres	Feet	# of years to implement	Total Cost of Practice	Grant Amount Requested	Match Amount	In-Kind Contributio n
	Add Legume Seasonal Cover Crop to Irrigated Cropland	General purpose	Ac	\$123.82			2	\$0.00	\$0.00		
Cover Crop (CPS 340)	Add Legume Seasonal Cover Crop to Non-Irrigated Cropland	General purpose	Ac	\$123.82	18		2	\$ 4,457.52	\$ 2,957.52	\$ 1,500.00	
	Add Non-Legume Seasonal Cover Crop to Irrigated Cropland	General purpose	Ac	\$123.82			2	\$0.00	\$0.00		
	Add Non-Legume Seasonal Cover Crop to Non- Irrigated Cropland	General purpose	Ac	\$123.82			2	\$0.00	\$0.00		
1.2 Compost Application Practices (CDFA)											
Management Practice	Practice Implementation (Compost-Planner)	Scenario Name	Payment Unit	Payment Rate	Acres	Application Rate (dry tons/acre)	# of years to implement	Total Cost of Practice	Grant Amount requested	Match Amount	In-Kind Contributio n
Compost Application to Annual Crops (CDFA)	Compost(C:N ≤11) application to annual crops		dry ton/acre	\$35.00			2	\$0.00	\$0.00		
	Compost(C:N ≥11) application to annual crops		dry ton/acre	\$35.00	18	5	2	\$ 6,300.00	\$ 4,800.00	\$ 1,500.00	

Example of the old and new payment rates

Angels Farm scenario, 18 acres

Practice	Total practice cost 2018 2 years funded, 3. year is cost share	Funds Requested 2018	NEW FUNDING, 2020 All 3 years are funded
Hedgerow	\$20,225	18,225	\$36,700
Cover crops	\$4,457	\$2,957	\$5,761
Compost	\$6,300	\$4,800	\$21,600

Now 3 years funded compared to only the two first years in previous funding cycles.



2020 application

- Simplified application process
 - New online tools
- ► Higher rates for most practice implementation
- I still anticipate challenges navigating the NRCS practice standards
- ▶ I had a lot of correspondence with the NRCS in 2018...



Demonstration projects

- Must partner with a Not-for-profit entity
- Outreach component
- Monitoring and reporting
- More staff time for implementation
 - ▶ There are no specific payment rates for practice implementation
 - ▶ We hired a farmer to implement the practices at our demo plot
 - The rancher we work with receives a monthly salary from the grant













