

San Francisco's Food Composting Program

Jack Macy San Francisco Department of the Environment

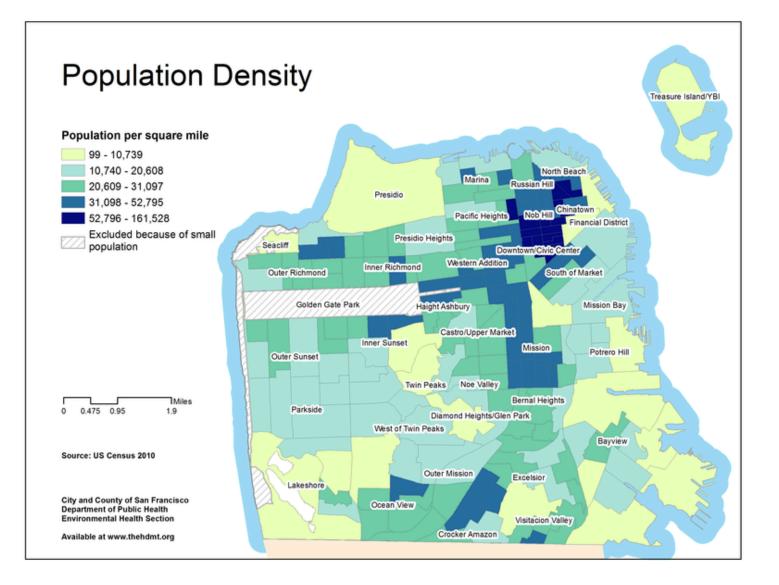
San Francisco



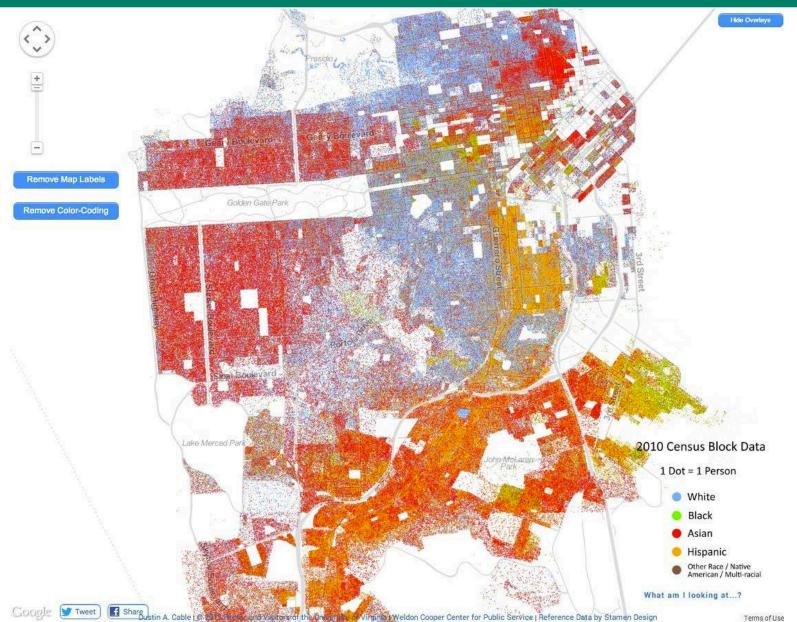


High Population Density





Multicultural and Multilingual Population







Zero Waste

To Landfill

To Incineration

Promote Highest & Best Use

Increase Consumer & Producer Responsibility



Support Highest and Best Use Programs

Food Recovery Hierarchy

Source Reduction

Feed Hungry People

Most Preterned

Feed Animals

Industrial Uses

Composting

Incineration

or Landfil

Least Proterrod

San Francisco's Approach

¥304673



ENFORCEMENT MANDATES INCENTIVES OUTREACH PROGRAMS SOLO ABONO

SFEnvironment Our home. Our city. Our planet. A Department of the City and County of San Francisco 111/11175

SF Environment 1455 Market Street, Suite 1200, San Francisco, CA 94103 SFEnvironment.org • (415) 355-3700

Strong Partnership





Recology Sunset Scavenger Golden Gate waste zero

Three Stream Collection





Collection Bin Signage





Compostables





Organics Collection: Multifamily Buildings





Food Scrap Collection is Easy.



Converting Trash Chutes



B

C



Targeted Door-to-Door Outreach





Commercial Collection With Many Bin Types





Wholesale to Retail to Food Service to All





Food Service: Back-of-the-House



Thursday Copyright Brad Wenner

Restaurant Staff





Food Service: Front-of-the-House





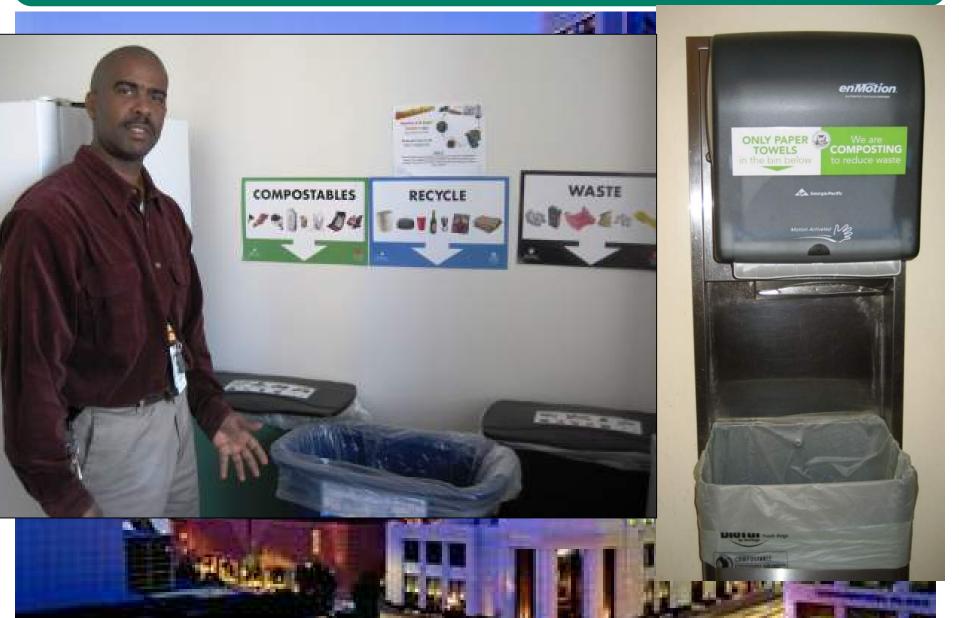






Office Buildings





City Department & Commercial Assistance







Presentations



Audits





Containers, Signs and Stickers

Monitoring

Efficient Collection Infrastructure





San Francisco Schools





Special Events





Web Resource: Custom Sign maker









Composting Benefits In Billing Newsletter



RECOLOGYSF.

Recology Sunset Scavenger and Recology Golden Gate, your local recycling companies

- **1 RECYCLE**
- 2 COMPOST

3 TRASH

Our top 10 reasons to compost

1 Compost is a good alternative to chemical fertilizers because compost doesn't pollute groundwater, wells, or waterways.

Compost keeps organic materials out of landfills, which reduces methane gas emissions.

E: Compost sequesters carbon deep in the soil, especially when used to grow cover crops like mustard or beans.

7: Compost promotes healthy microbial activity in soil, providing micronutrients to plant roots and discouraging soil diseases.

Compost improves soil structure, thereby protecting topsoil from erosion.



Soils fed with compost retain more rainwater, conserving this precious resource.

4: Compost helps grow plants rich with nutrients that sustain your good health.

3: It's easy and satisfying.

Compost collection programs support green jobs.

1: Composting turns food scraps into fruits, vegetables, and fine wines. Bon appetite!

Share your top reasons to recycle and compost at RecologySF.com/ContactUs



Outreach Campaigns

We compost in the Richmond because we want to be better than the Sunset.*

CLEARCHANNEL

1-1-1-1



*Toss in the leftover broccoli. Healthy competition can be good for the planet.





When you're through with that apple, we'd love the core.

By putting food scraps in your green cart, you help San Francisco reach its goal of zero waste and fight global warming.

SFEnvironment.org

Where you toss food scraps makes a world of difference





Start composting today.

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Facing the C

aftermath

A great recycling moment

Recycling changes emirginity

Use the blue contine on Rottle cape & contribute the Cont Use the green cot for: Tipor picket & labours

Bus Shelter: We compost to help gardens



*Toss in the leftover pizza. Local gardens will thrive with the compost generated from the green bin.

USE THE

Bus Sign: Protecting future generations



Chinese Business Composting Campaign





Environment Now In Person Outreach







Incentives: Pay As You Throw Service Rates



Save by reducing trash service



Commercial Diversion Discount

Service Provider Incentive to Decrease Disposal

Side Loading Toter Collection





Dedicated Organics Transfer Station





650-700 tpd of Compostables



- > 5% Apartment
 - > 75% Commercial
 - > 2/3 rd (>400 tpd) food scraps
- > Contamination 2-5%

Recology's 4th Generation Composting Facility

Photo courtesy of Recology

Receive, Shred, Screen and Sort





Plastic Bags Primary Contaminant



Copyright Brad Wenner

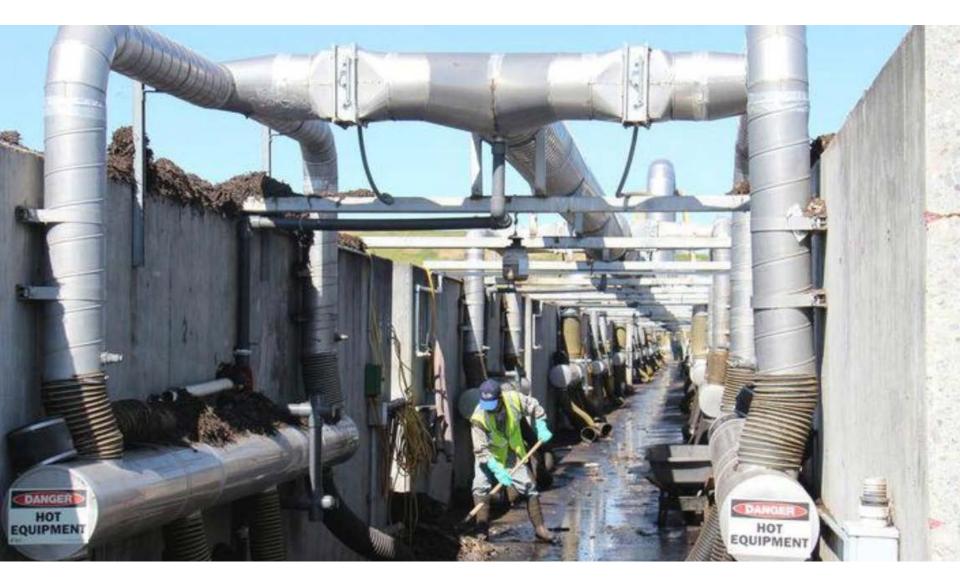
Composting Piles Forced Aerated 30 Days





Aeration System Pulls Air From Piles





Air From Piles Through Hardwood Biofilters





Compost Screened: <3/8", < 1.5" & >1.5"



Turned Windrow Curing 30 Days



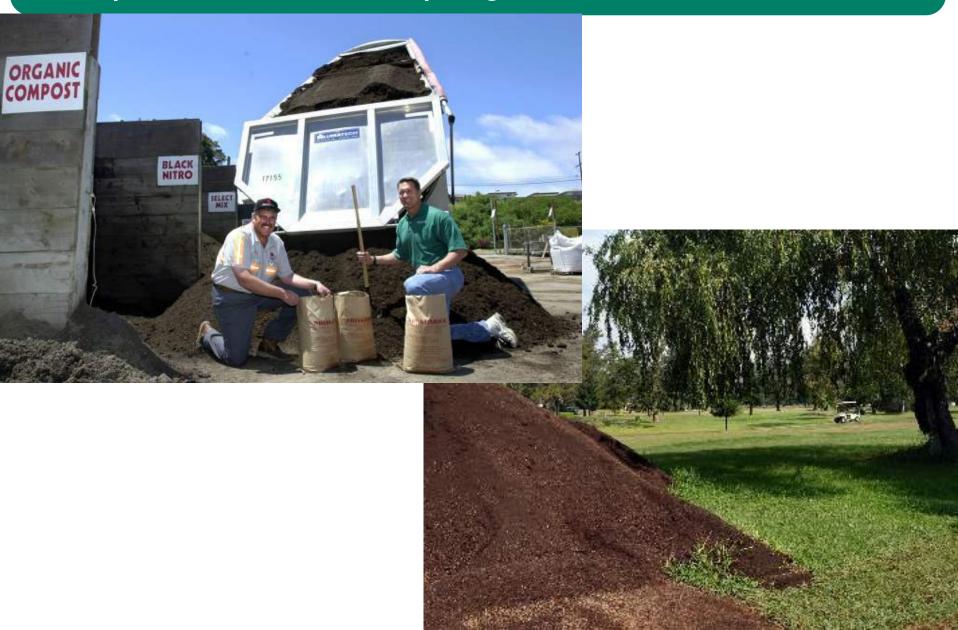
Organic Grower Approved Compost

Photo courtesy of Recology

Custom Blending For Organic Markets



Compost For Landscaping & Golf Courses



Farms & Vineyards Primary Compost Market



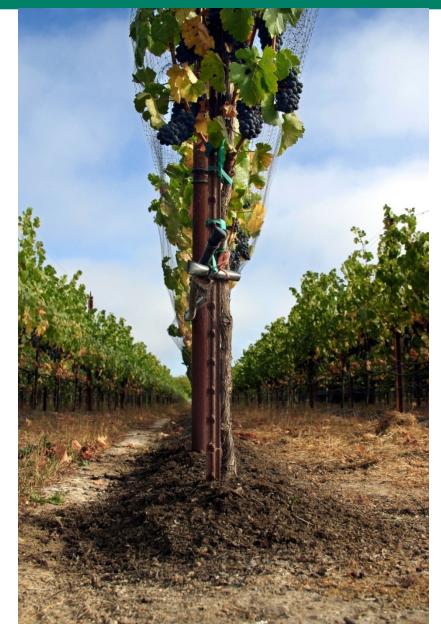


Compost for Fruit and Nut Orchards



Compost Use At Vineyard: Base of Vine







Compost Use at Vineyards





Roots Pull Carbon from Air & Put in Soil





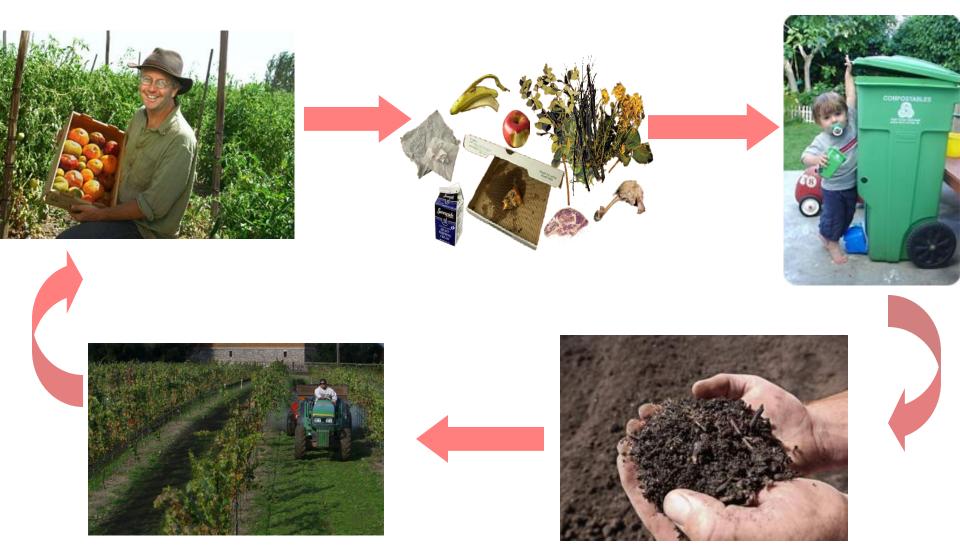
Compost for Rangeland Carbon Farming





Carbon and Nutrient Loop





Mandatory Composting & Recycling (2009)





All persons must separate their refuse into recyclables, compostables and trash.

No person may mix recyclables, compostables or trash, or deposit refuse of one type in a collection container designated for another type of refuse.

Violations may result in loss of billing diversion discount or processing charge up to 50% of disposal or fines.

Bin Audits and Enforcement



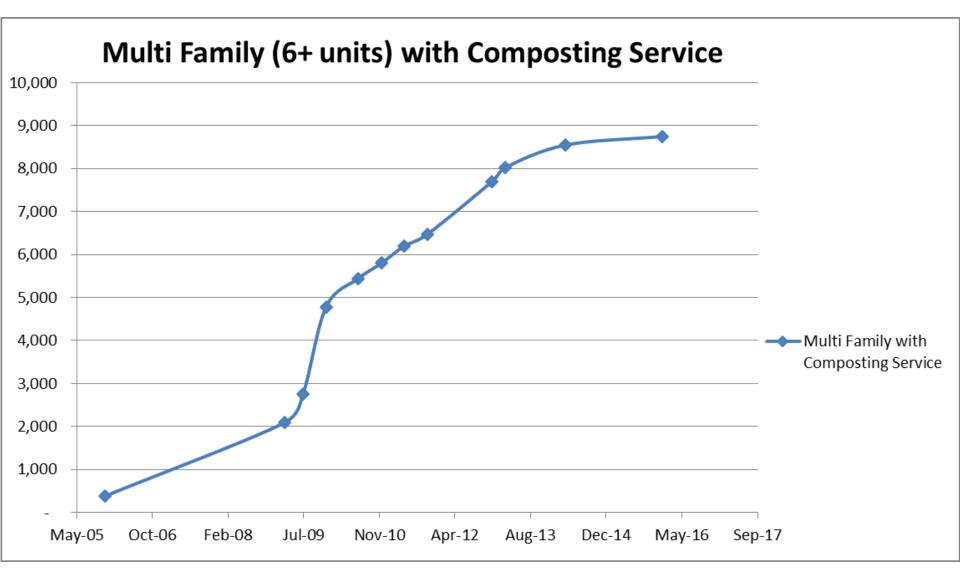


Direct Feedback Outreach

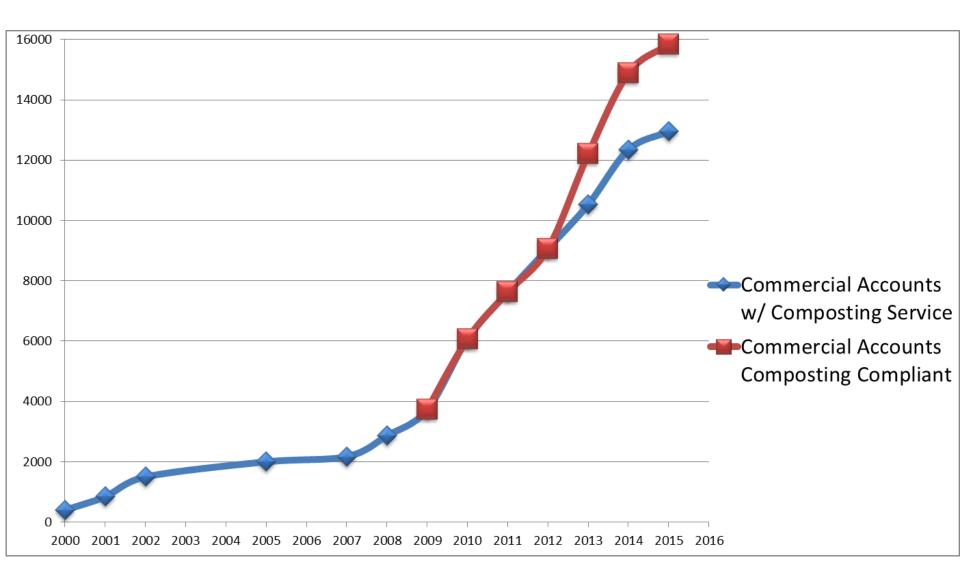




Apartment Buildings Composting



Commercial Composting Service Compliance





Mandatory Composting & Recycling

WASTEIT

99% of all locations city-wide are composting and recycling service compliant

AN609796

Residential Sector Results

- 350,000 households (~150K SF & 200K MF)
- 8760 apartment buildings (6+ units)
- 99+% have recycling
- 99+% have composting





Commercial Sector Results



- ~90,000 businesses
- 16,160 service accounts
- 99% recycling compliant



• 99% composting compliant



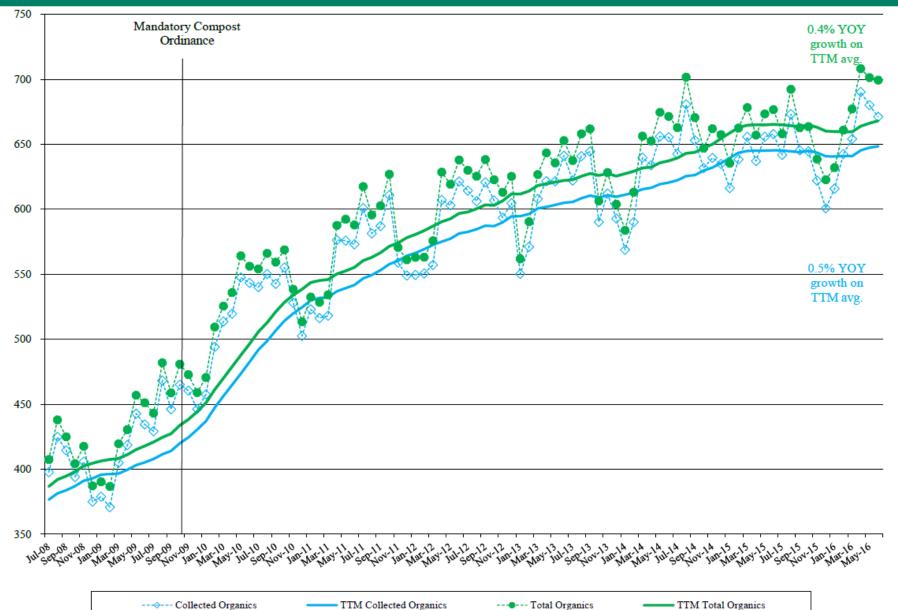






Composting Tons Collected







- Provide Convenient Comprehensive Service
- Do Outreach and Multilingual Training
- Give Financial Incentives
- Get Management Commitment
- Mandate Service and Separation
- Audit and Give Direct Feedback
- Increase Compliance with Financial Penalties
- Keep on Persisting

Next Steps

- More Outreach
- More Enforcement, Fine Tenants
- Shift from Trash to Recycling
- Process Trash to Recover Organics



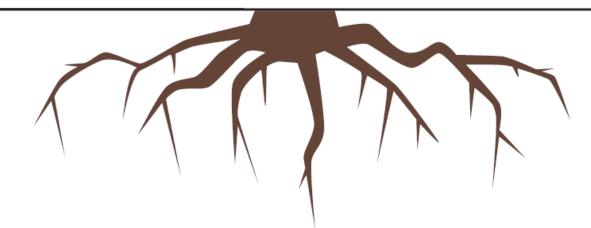






San Francisco Climate Action Strategy





The four main strategies to reach our climate goals: Zero waste to landfill 50% of trips taken by sustainable modes 100% renewable energy Protect and grow the carbon sink



Thank You!

Jack Macy

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