



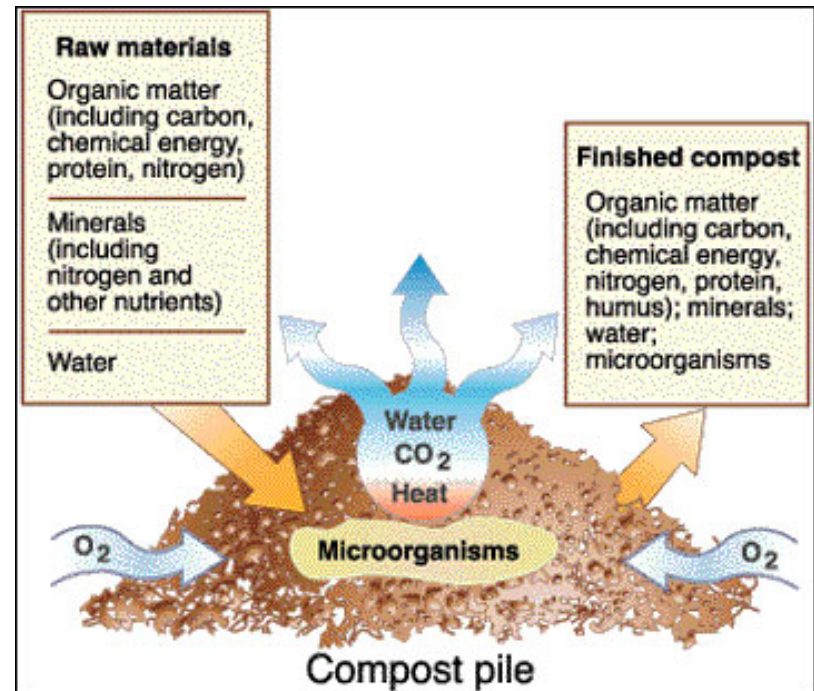
San Francisco Composting

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Green Design and the City



Why a Municipal Composting Program?

- Reduce carbon emission
- Create marketable products
- Growing medium for local agriculture
- Avoids landfilling
- Save \$ and emissions from transportation
- Anaerobic digestion for energy production
- Closed loop



<http://extension.missouri.edu/explore/images/g06956figure01.jpg>

Materials Currently Disposed



San Francisco's "Fantastic Three"



Composting Collection



全部食物

水果、蔬菜、肉類、家禽、海鮮、骨頭、米飯、豆類、麵粉類、麵包和乳酪、剩飯剩菜、蛋類

被食品弄髒的紙類

波蘭紙皮盒、餐巾、紙巾、紙碟、咖啡濾紙、茶袋、木質和紙木屑、牛皮紙袋

植物

花卉剪枝、樹枝、樹葉、草、黃樹乳膠草

All Food

fruits, vegetables, meat, poultry, seafood, shellfish, bones, rice, beans, pasta, bread, cheese and eggshells.

Other Compostables

waxed cardboard, napkins, paper towels, paper plates, paper milk cartons, tea bags, coffee grounds/filters, wooden crates, sawdust.

Plants

floral trimmings, tree trimmings, leaves, grass, brush, weeds.



Toda Comida

frutas, verduras, carnes, maiscos, crustáceos, huesos, arroz, frijoles, pastas, pan, quesos, cáscaras de huevo.

Papel Manchado por Comida

cartón encerado, servilletas, platos y toallas de papel, filtros y posos de café, recipientes de cartón para leche, bolsas de té, cajas de madera, aserrín.

Plantas

recortes de flores y árboles, hojas, césped cortado, malezas, hierbas.



Only BPI labeled compostable bags accepted

No!

plastic bags/wrap/straws, styrofoam, bottles and cans, aluminum foil, liquids, hazardous waste

不收!

塑膠袋、保鮮膠紙、飲筒、泡沫膠、樽和罐、鋁箔、液體、有害物品

¡No!

bolsas/vermutos/paños de plástico, espuma de poliestireno, botellas y latas, papel de aluminio, líquidos, desechos peligrosos



Golden Gate Disposal & Recycling Company
SUNSET SCAVENGER COMPANY
SUNSET GATE DISPOSAL & RECYCLING COMPANY
Printed in the United States of America



Printed on 30% post-consumer recycled paper



YOUR COLLECTION DAY IS:

你的收集日期是：

EL DÍA DE RECOLECCIÓN ES

Containers must be on the curb, at a loading dock or otherwise accessible on collection day.

這隻箱必須放在路邊、可卸車位或

碼頭等可以方便收集的位置

Los recipientes deben colocarse en el bordillo o en una zona de carga o en un lugar accesible.

Questions?

Sunset Scavenger Company

415-330-1300

www.sunsetscavenger.com

Golden Gate Disposal & Recycling Company

415-626-4000

www.goldengatedisposal.com

What is composted?

All food (even meat and dairy), Food soiled paper (plates, cartons, waxed cardboard), Plants

What is not allowed?

Styrofoam, plastic bags, plastic flower pots or trays, diapers, kitty litter or animal feces, rocks, stones, or dirt

Schools



Residential



Commercial



Jepson Prairie Organics



"Compost Process," [Jepson Prairie Organics](http://www.jepsonprairieorganics.com/compostprocess.htm), <http://www.jepsonprairieorganics.com/compostprocess.htm>

The Composting Process



~3 months to completion



The Final Product

- Four Course Compost (organic)
- City Clean Compost (organic)
- JPO Container Mix
- Topsoil

- \$7-10/cubic yard



Costs

Table 7: Sunset Scavenger[®] Equipment Costs (for City of San Francisco Residential Program)

Equipment Item/Service	Unit Cost
Dual compactor vehicle	\$192,000
Organics collection vehicle	\$142,000
32-gallon container	\$35
64-gallon container	\$41
2-gallon kitchen pail	\$3.50 to \$4
Container delivery with outreach materials (\$/cart)	\$2 to \$3

"Innovations: Case Studies: Curbside Recycling, the Next Generation,"
California Integrated Waste Management Board, www.ci.oakdale.mn.us

Successes...

- 75-90% waste reduction in restaurants
- 75,000 households participating
- 23% increase in sales of compost
- Other cities adopting this model

But...

- No apartment buildings involved
- Still have large amounts landfilled
- Make it mandatory
- More tangible benefits