

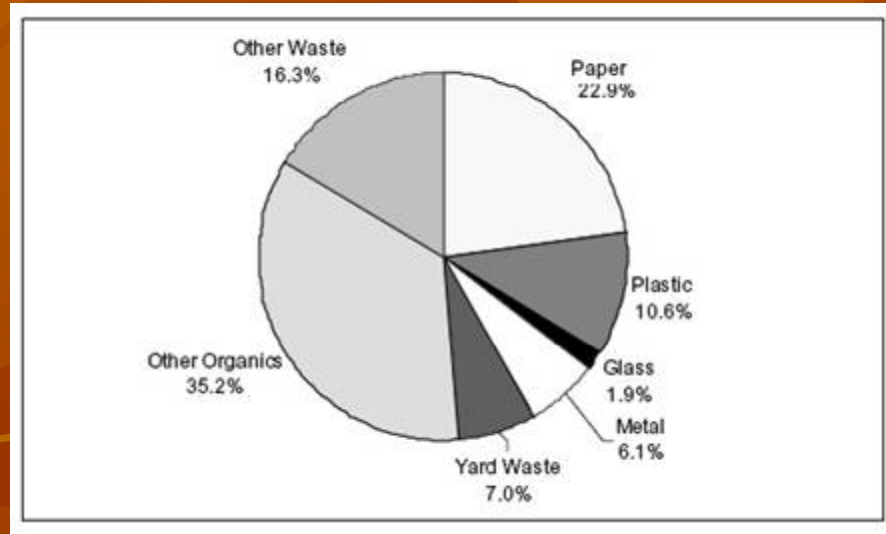
Bay-Friendly Landscaping & Gardening:

*Tools for Tackling Climate Change
in the San Francisco Area and Beyond*



STOPWASTE.ORG

Reducing the Waste Stream for Alameda County



Home Composting Program

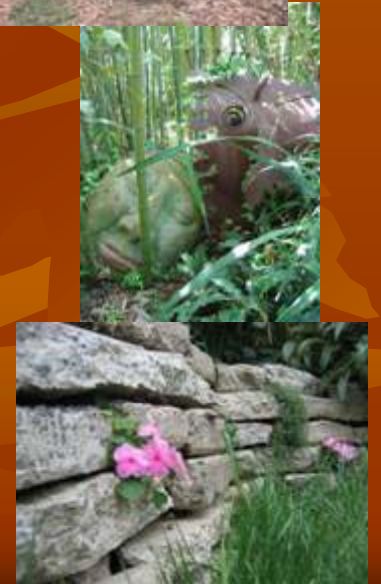
- **Compost Bin program**
 - 67,000+ bins since 1991
 - Maintain sales at 2,000 bins/year
- **Master Composter program**
 - 25 graduates in 2008
 - Almost 400 graduates since 1991
 - Over 19,000 volunteer hours and 15,000 residents reached



Bay-Friendly Landscaping & Gardening

What is it?

- Works with nature, rather than against it.
- Holistic approach – with concrete practices and multiple benefits
- Does not dictate style. Provides choice and diversity.



Bay-Friendly Principles

- Landscape Locally
- Landscape for Less to the Landfill
- Nurture the Soil
- Conserve Water
- Conserve Energy
- Protect Water & Air Quality
- Create Wildlife Habitat



Bay-Friendly Landscaping & Gardening Programs

- Member Agency Assistance
- Outreach to Landscape Professionals
- Residential Education
- Regional Approach



Member Agencies

- Model Policies & Ordinances
 - 6 adopt BFL Civic policy
- Landscape Design Review and Grant Funding
 - 17 new landscape projects
 - 7 grants awarded FY07/08
- Guidelines, Tools & Trainings
 - 60 Member Agency staff attended BFL trainings



Landscape Professionals

- Trainings for Design & Construction Professionals
 - 450 attended BFL&G conference
 - ASLA tour
- Training & Qualification of Maintenance Professionals
 - 56 graduates in 2nd year
- Guidelines and Publications
- Rater Verification



Residential Education

5 Pronged Approach

- Bay-Friendly Garden Tour
 - 30 gardens, 3,000 attendees
- Nursery Signage Program
 - 10 nurseries
- Seasonal Workshop Series
 - 24 classes, 500 attendees/yr
- Register Bay-Friendly Gardens
 - 300 total, 45 new this year
- Gardening Guide Distribution



Bay-Friendly Coalition

- More than 20 agencies support BF Principles
- Regional Sharing of Guidelines & Publications
- Replicating BF training
- Co-sponsors

Coalition helps to leverage influence regionally



Residential Food Scraps

- 14 Jurisdictions have program by 2008
- 300,000 Single Family Residences



FOOD SCRAP RECYCLING

YES	SI
ALL FOOD	TODA COMIDA
Fruits	Frutas
Vegetables	Verduras
Dairy	Productos lácteos
Breads & Grains	Panes & cereales
Meats	Carne
Seafood	Mariscos
FOOD-SOILED PAPER	PAPEL SUCIO DE COMIDA
WAXED CARDBOARD	CARTÓN ENCERADO
PLANTS	PODA DEL JARDÍN Y MADERA LIMPIA

NO
NO PLASTIC, STYROFOAM, GLASS, METAL OR LIQUIDS

HALLER LOOO
Call [HAULER NAME] if you have questions.
XXX-XXX-XXXX
www.HAULER-WEBSITE.com
Lláme a [HAULER NAME] si tiene preguntas.

**WHEN GOOD
VEGGIES GO BAD,
I'M HERE FOR YOU.**



**FOOD SCRAP RECYCLING.
MAKE IT SECOND NATURE.
WWW.STOPWASTE.ORG**

**LEFTOVER,
BUT NOT
UNLOVED.**



FOOD SCRAP RECYCLING. MAKE IT SECOND NATURE.
WWW.STOPWASTE.ORG

**WHO YA'
CALLING
GARBAGE?**



**FOOD SCRAP RECYCLING.
MAKE IT SECOND NATURE.
WWW.STOPWASTE.ORG**

ORACLE

CBS OUTDOOR

Commercial Organics

- **Commercial Food Scraps**
 - Provide technical assistance to member agencies & businesses
 - Develop program to increase participation
- **Compost Facility Development**



Foodscraps Commercial & Residential Comparison

Alameda County programs:

- 20,000 tons collected annually from commercial programs
 - 10% restaurant participation
 - Ongoing technical assistance
- 20,000 tons collected annually from residential programs
 - 311,000 SF households
 - Funds for labeled kitchen pail, how-to brochure, outreach materials & regional media campaign
 - 37% participation (food scraps in green carts)

Greenhouse Gases & Connection to Bay-Friendly Landscaping

- **Carbon Dioxide, CO₂:** Transportation;
energy
- **Methane, CH₄:** Landfills
- **Nitrous Oxide, N₂O:** Fertilizers

Bay-Friendly Landscaping Measures

- BFL practices in civic landscapes
 - Landscape for less to the landfill: no plants require shearing, plants able to grow to natural size
 - Grasscycle lawn clippings and reduce green waste going to landfill
 - Conserve water through plant selection, mulch and high efficiency irrigation
 - Shade air conditioners and buildings with trees



How Bay-Friendly Landscaping Reduces Greenhouse Gas

- Less organic waste in landfill = less CH₄
- Reduced mowing/trimming = less CO₂
- Less fertilizers/pesticides = less N₂O
& CO₂
- Reduced water consumption = less CO₂

Emissions Reductions Per Acre of Bay-Friendly Landscaping

Measure	Tons eCO₂
Keep waste on site	2.5
Avoided transportation	1.1
Reduced shearing & mowing	0.2
Reduced water needs	0.2
Total	4

Assumptions Used

- 8 tons of yard waste avoided annually per acre with less shearing, reduced lawn size and grasscycling.
- 50% of water consumption reduced via smaller lawn, choosing appropriate plants and using compost/mulch.
- 15 gallons of gas are consumed per acre of lawn
- A single tree can reduce air conditioning use by 300kWh

Climate Change – Bay-Friendly

Practice	Metric	CO2 Reduction
Duplex Copying	2,000 reams	1.9 tons
Recycle Plastic Film	1 ton	1.9 tons
Recycle Paper	1 ton	4.3 tons
Reusable Pallet	1 pallet	800 lbs
Recycle Cardboard	1 ton	4 tons
Compost Food	10 tons	10.9 tons
BF Landscaping	100 acres	250 tons
C&D Ordinance	200 homes	120 tons
LEED Civic Building	8,500 sf fire station	33.8 tons
GreenPoint Rated	200 new homes	500 tons

StopWaste.Org Contacts

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The screenshot shows the homepage of StopWaste.Org. The address bar displays "http://www.stopwaste.org/home/index.asp". The page features a search bar with a magnifying glass icon and a "FIND" button. The main header includes the "STOPWASTE.ORG" logo and the tagline "Reducing the Waste Stream for Alameda County". Below the header, there are several sections: "WHO WE ARE" with sub-sections for "CLIMATE CHANGE" and "ALAMEDA COUNTY HOUSEHOLD HAZARDOUS WASTE"; "SERVICES & RESOURCES FOR:" with categories for "RESIDENTS", "BUSINESS + INDUSTRY", and "SCHOOLS"; "IN THE SPOTLIGHT" with a "Recycling+Purchasing Wizard" tool; and a "FOOD SCRAP RECYCLING" section with a "BUY A DISCOUNT COMPOST BIN" button and an "ORDER A RECYCLING GUIDE" button. The footer contains copyright information: "© 2008 Alameda County Waste Management Authority & Alameda County Source Reduction and Recycling Board".