US ERA ARCHIVE DOCUMENT

Paying for Waste Disposal



What Are the Choices?

Tax Base General Fund

Flat Fee

User Fee

(Pay-As-You-Throw)



- More garbage to collect and dispose
- Higher costs of collection services
- Limited municipal budgets
- Public-sector pressure to more cost-efficient



"3E" Benefits of Pay-As-You-Throw



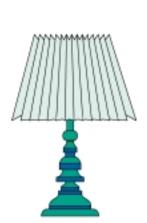
- Environmental
 Sustainability:
 Effectively promotes
 waste reduction
- **Economic Stability**: Stable revenue covers cost of services
- **Equity**: Economically fair delivery of services



How PAYT Programs Work

- Pay for MSW service based on garbage thrown out
- Pay for waste like a utility
- Residents only pay for what they use







Types of PAYT Programs



- Cans: Residents pay higher fees for larger containers
- Bags: Residents pay a fee for garbage bags





Stickers: Residents pay for stickers affixed to bags/containers



Duke University National Study

- 14 to 27% average waste reduction
- 32 to 59% increase in recycling
- 19% found slight increase in illegal dumping





\$400,000 per year



• **Littleton, NH**— (Population: 5,800)

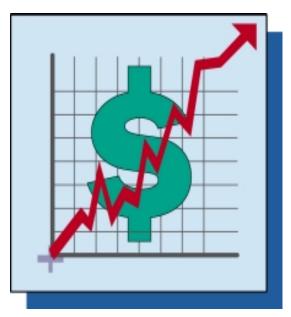
\$40,000 in extra funds with PAYT

• **Gainesville, FL**— (Population: 96,000)

\$186,200 savings

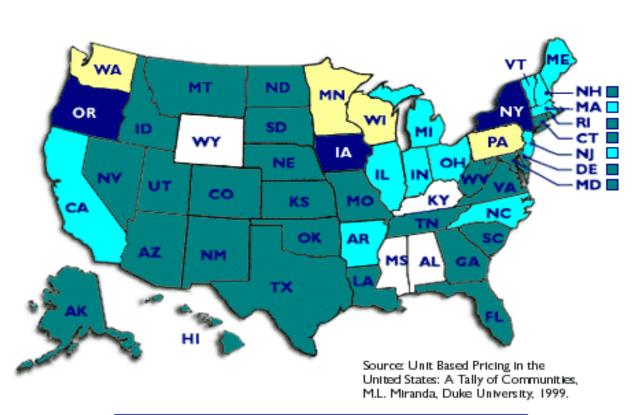
• San Jose, CA— (Population: 850,000) reduced cost by \$4 million annually

PAYT Growing in the U.S.



- More than 5,000 communities in U.S. practice PAYT
- Cities large and small, rural and urban
- More than 60 cities with populations above 100,000 practice PAYT

Map of PAYT Communities





Large Cities and PAYT

City	Population	Recycling Rate
San Jose, CA	782,248	43%
San Francisco	723,959	Approx. 33%
Portland, OR	437,319	50% (1996)
Seattle	516,259	44% (1996)
Worcester, MA	169,759	54% (1996)
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What People Say about PAYT

Approval from elected officials to environmental groups and residents

- PAYT offers "a direct economic payback to the people"—San Jose elected official
- High recycling rates in cities correlates with PAYT
- Surveys indicate residential approval
- Positive changes in consumer purchasing behavior



Lessons Learned from PAYT

- Economic incentives encourage behavioral changes
- Treating MSW services as a utility you pay for what you use
- Win-win: high recycling rate and economic stability

EPA Tools/Technical Assistance

What is EPA doing to support PAYT?

- Tool kit, PAYT Video, Fact sheets, Testimonials, Guidebook
- Technical assistance workshops in cities across the U.S.
- Website: www.epa.gov/payt

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Climate Change

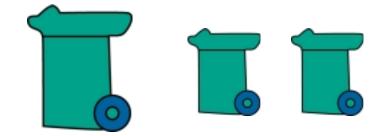
- PAYT helps reduce the greenhouse gas emissions associated with making, distributing, and disposing of products.
- If 200 more communities adopted PAYT and reduced waste by 20%, greenhouse gas emissions would be cut by 3.8 million MTCE.
- This equals taking almost 2.8 million cars off the road for almost a year.

Pricing Systems

Proportional



Variable







Two-tiered/ Multi-tiered

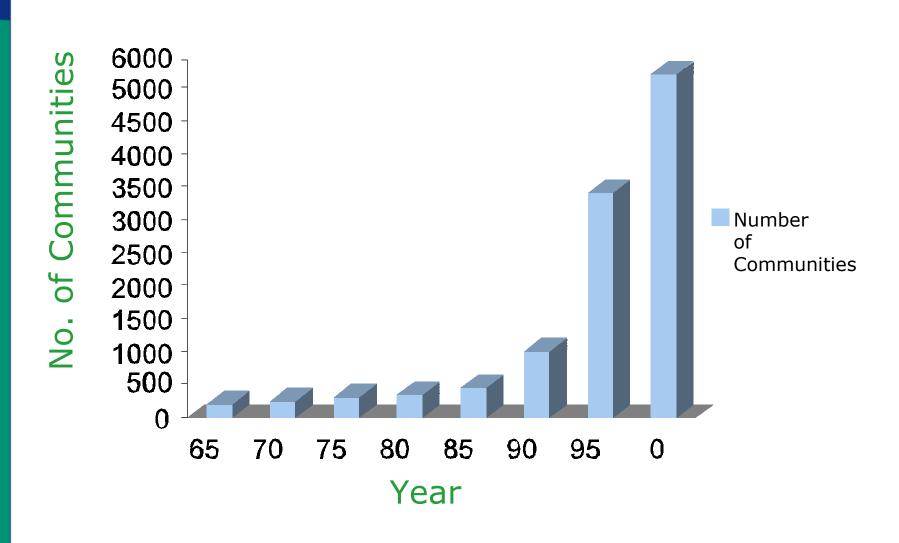


Complementary Programs

- Curbside Recycling
- Yard Trimmings and Composting
- Bulky Items and White Goods







San Jose, California

Population Start Date Prgm. Type Container 850,000 July 1993 Four-Sort Cans

- Before PAYT: Unlimited collection for \$12.50/month.
- Before PAYT: Three 32-gallon garbage cans/week.
- City reduced costs by over \$4 million/year.
- 87% of residents use the 32-gallon size container.
- Recyclables/yard trimmings double pre-PAYT level.
- Residents happy with program
 (80% approval in 1993, 90% in 1996).

San Francisco, California

Population Start Date Prgm. Type Container 723,959 1900s Variable Cans

- PAYT program one of the oldest in the country.
- 1999: City recycling rate 42%.
- "Fantastic 3" program: three 32-gallon carts.
- First program to collect food scraps at curbside.
- All apartment buildings have access to PAYT.

Seattle, Washington

Population Start Date Prgm. Type Container 516,259 1981 Variable Cans

- City offers 10, 20, 30, 60, or 90-gallon cans.
- City uses totes, semi-automated collection for containers over 30 gallons.
- 25% of resident use 20-gallon cans.
- Water/trash bills issued jointly:
 City pays for trash, shuts off water.

Austin, Texas

Population Start Date Prgm. Type Container 465,622 1991 Variable Cans

- 2000: Recycling rate 28.5%.
- 1991 (program began): Recycling rate 9.8%.
- Switch to fully automated, one-person crews.
- Residents can use 30-, 60-, or 90-gallon carts.
- Excess garbage placed in bag with \$2 sticker.
- Bags without stickers charged \$4/untagged bag.

Vancouver, Washington

Population Start Date Prgm. Type Container 69,000 1990 Variable Cans

- Second-can rate 84% greater than first can.
- 500 residents switched to the mini-can.
- Weekly recycling costs \$3.10/month.
- Set out 96 gallons of yard debris: \$5.55/month.
- City exceeded 50% recycling goal by 1995.

Portland, Maine

Population Start Date Prgm. Type Container 64,000 1999 Variable Bags

- Residents purchase bags for \$0.68 each.
- Pre-PAYT: No curbside recycling; recycling rate 7%.
- After PAYT: Recycling rate now 35%.
- Waste decreased by 80-100 tons/week.
- City set up Q&A hotline before program began.

Wilmington, North Carolina

Population Start Date Prgm. Type Container 64,513 1992 Two-tiered Cans

- Combat illegal dumping: City used newspapers, radio, and TV.
- Citizen focus groups gathered support.
- 40-, 90-gallon roll-out carts collect waste weekly.
- Biweekly pickup or stickers for overflow available.
- Increase: 10% recyclables, 40% yard debris.