



A Practical Approach to Zero Waste

Lisa Danbury, MARC SWMD (Region E)

March 4, 2011

STRIVING FOR ZERO WASTE

A goal that is ethical, economical, efficient and visionary to guide people in changing their lifestyles and practices to emulate sustainable natural cycles, where all discarded materials are designed to become resources for others to use.

Zero Waste means designing and managing products and processes to systematically avoid and eliminate the volume and toxicity of waste and materials, conserve and recover all resources, and not burn or bury them.

Implementing Zero Waste will eliminate all discharges to land, water or air that are a threat to planetary, human, animal or plant health.

U.S. MATERIAL CONSUMPTION

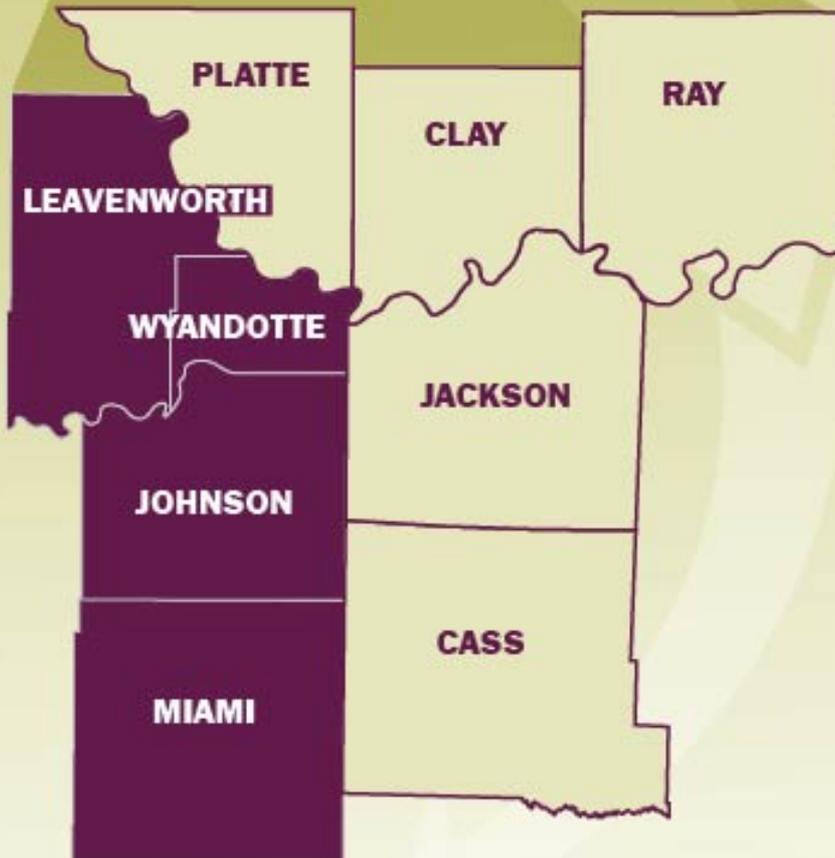
- U.S. accounts for 5% of world's population using a third of the world's resources...in the year 2000 we consumed 57% more than in 1975
- Reliance on minerals as the fundamental ingredients in manufactured products used in the U.S. equates to the extraction of 25,000 pounds of new nonfuel mineral per capita each year
- Hidden industrial material flows account for as much as 75% of materials used but do not enter the economy as commodities and are not considered part of the traditional waste stream

www.epa.gov

SUSTAINABLE MATERIALS MANAGEMENT

- Seeks most productive use of resources
- Focus on impacts and policies at all the life-cycle stages of a material or product
- Concerned with inputs/outputs to the environment and not geographically constrained
- Overall long-term system of sustainability
- Responsible parties are all those involved in the life cycle of a material or product

ABOUT THE DISTRICT



- *Solid Waste Hierarchy is still valid*
- *Focus on waste diversion of reduce, reuse, recycle, compost*
- *Extend life of natural resources for as long as possible before energy recovery or final disposal*

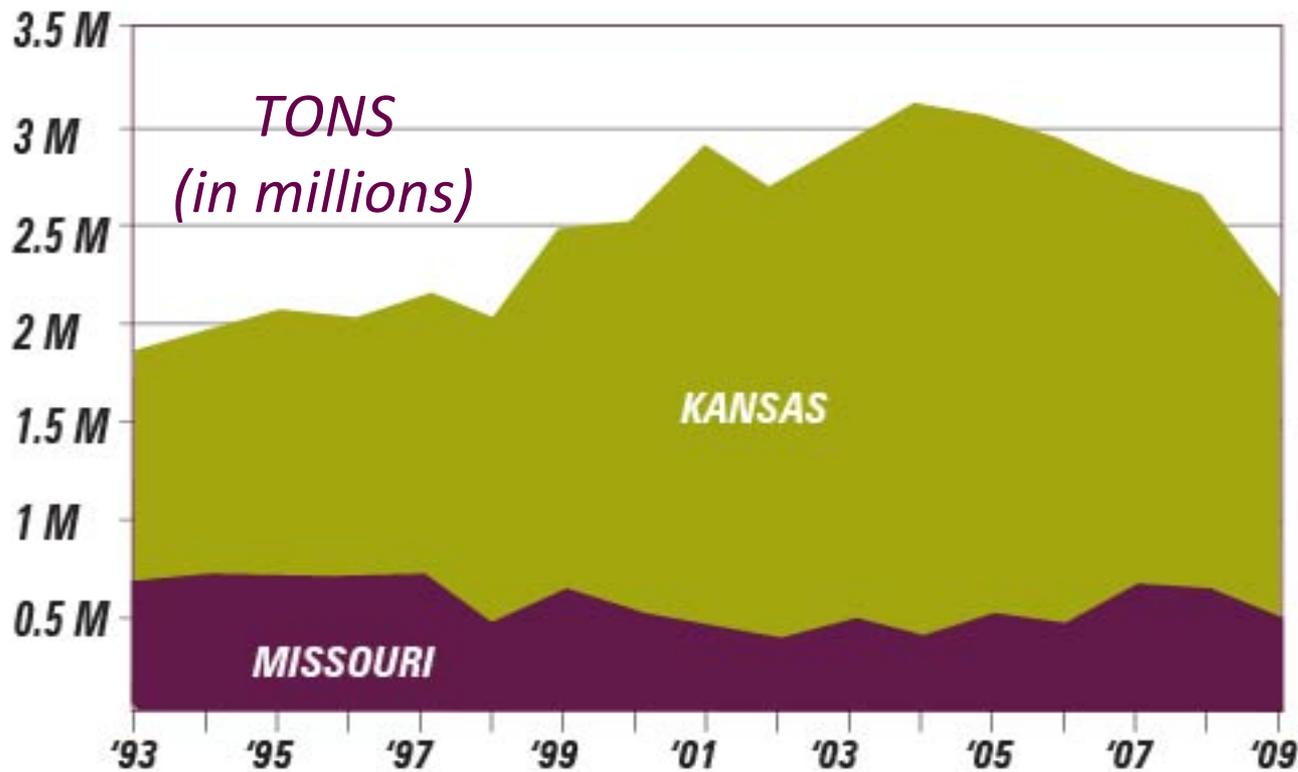
ABOUT THE DISTRICT

Waste (Resource) Management



ABOUT THE DISTRICT

Regional Waste Flows



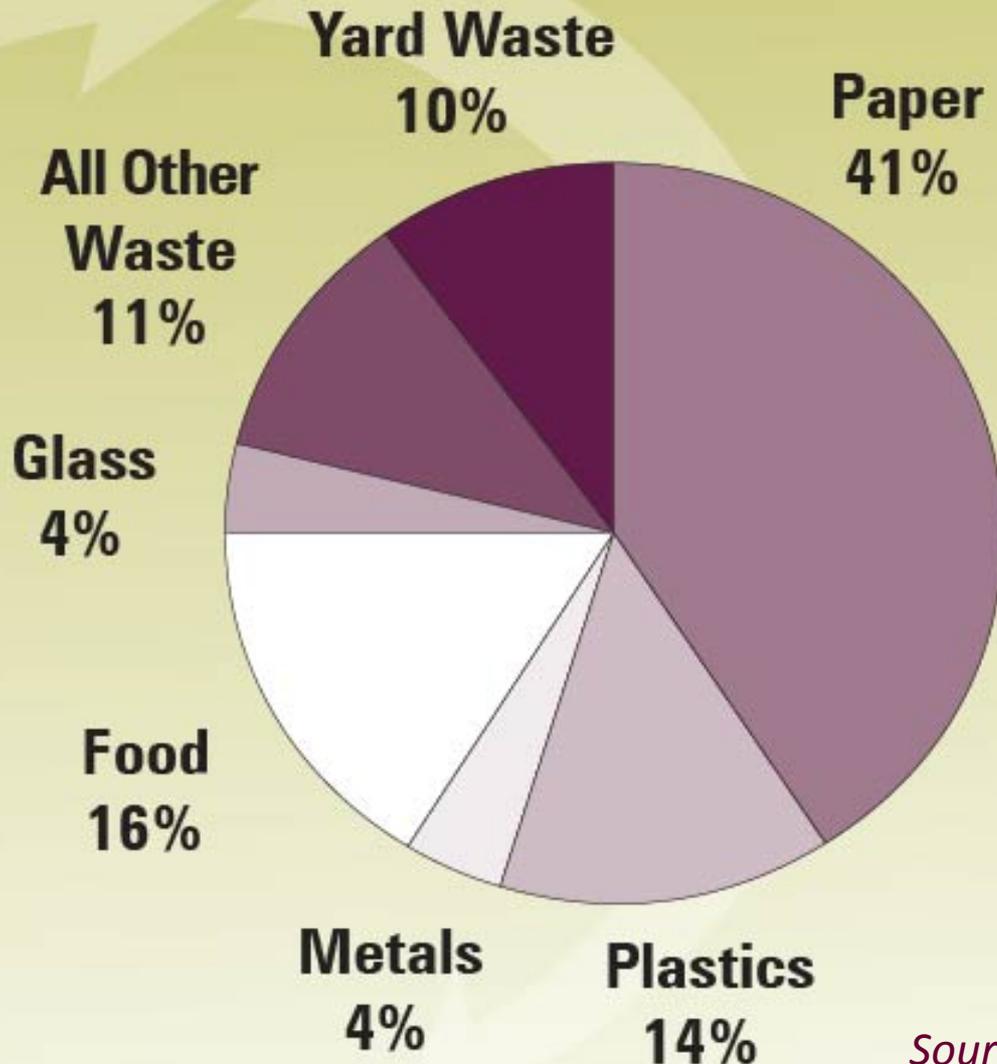
Primary Source of District Funds

Missouri
Solid Waste
Management
Fund

\$2.11 Fee

YEAR

ABOUT THE DISTRICT



What are we throwing away?

Municipal Solid Waste Stream:

- Residential
- Commercial
- Institutional

Source: Missouri/Kansas waste sorts results

DISTRICT VISION:



80%
WASTE
DIVERSION
BY
2023

SUSTAINABLE SOLID WASTE MANAGEMENT

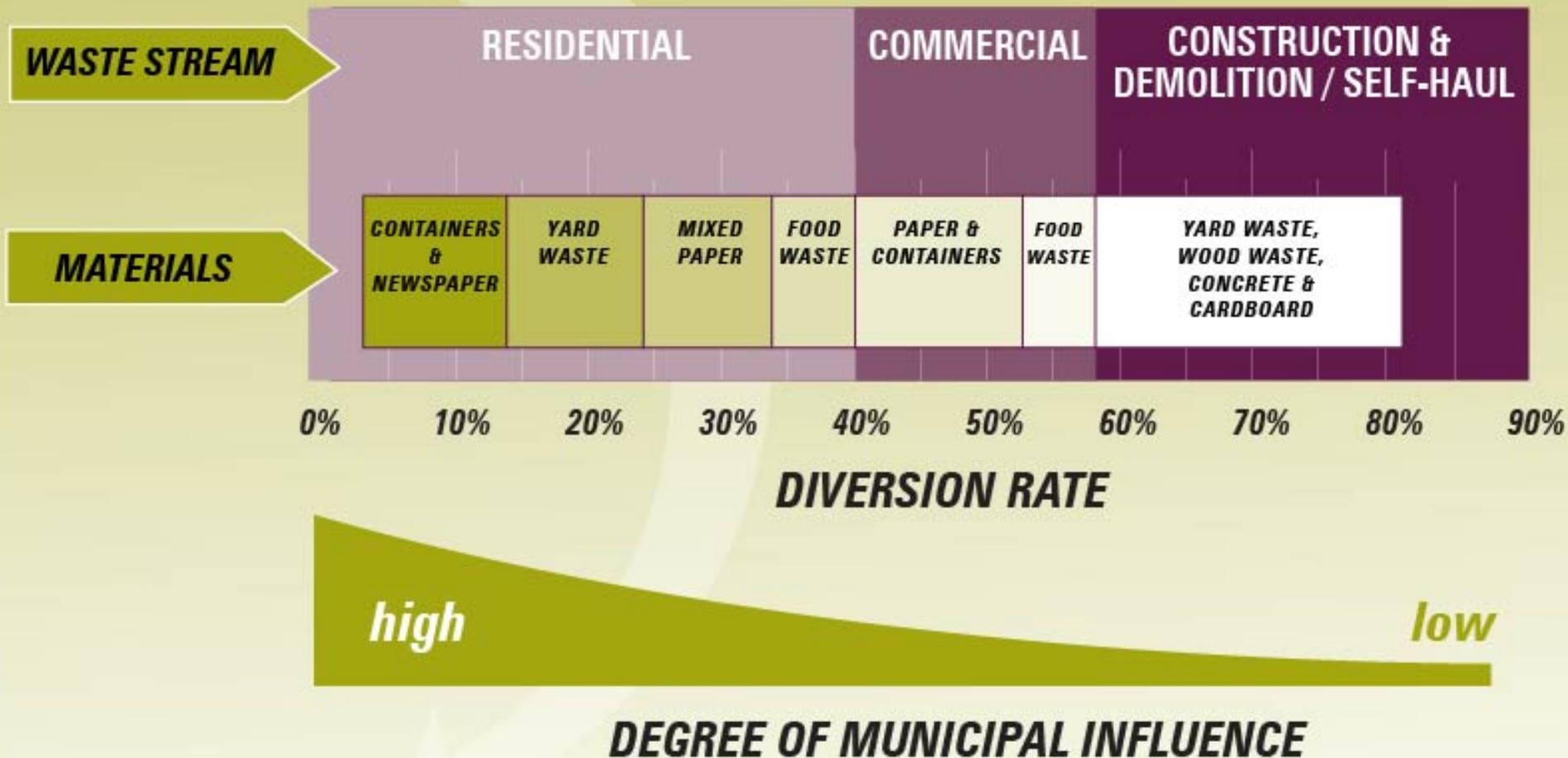
*Keeps our communities
clean and healthy*

*Supports and grows
our local economy*

*Protects our
environment*



SUSTAINABLE SOLID WASTE MANAGEMENT



80x2023 ROAD MAP



PHASE ONE

40% Diversion by 2013

ACCESS and PARTICIPATION



PHASE TWO

60% Diversion by 2018

REUSE and

GREEN BUILDING INCENTIVES



PHASE THREE

80% Diversion by 2023

WASTE PREVENTION and

ORGANICS RECYCLING



PHASE ONE OBJECTIVES

40% Diversion by 2013

ACCESS and PARTICIPATION

- Residents and businesses practice waste reduction and use services
- More residents and businesses are familiar with and use RecycleSpot.org
- Local governments take ownership of their role in solid waste management



PHASE ONE OBJECTIVES

40% Diversion by 2013

ACCESS and PARTICIPATION

- Local governments adopt green procurement policies
- Region has a better assessment of diversion infrastructure and end markets
- All audiences understand the connections among waste, resource conservation and economic development

KEY AUDIENCES



- **Public:** residents, businesses, institutions



- **Local Government:** elected officials, municipal staff



- **Resource Management Industry:** waste, recycling and reuse companies

PUBLIC MESSAGES:

- *Divert waste: reduce, reuse, recycle*
- *Use existing services*
- *Visit RecycleSpot.org*

LOCAL GOVERNMENT MESSAGES:

- *Promote access to core services*
- *Educate and inform residents*
- *Lead by example*
- *Monitor, measure and evaluate program successes*

INDUSTRY MESSAGES:

- *Offer diverse services*
- *Invest in infrastructure and technology*
- *Collaborate with cities and counties*

DISTRICT OUTREACH INITIATIVES

Ways to deliver information, resources, messages



- **RecycleSpot.org**



- **Recycling Challenge for Local Governments**



- **Recycling Roundtables**

PUBLIC

RECYCLESPO.T.org

is where we're driving the public for info on services and regional waste issues



LOCAL GOVERNMENT

RECYCLING CHALLENGE

- District provides outreach materials, opportunities, resources for local governments
- Cities and counties use tools to communicate with their constituents



INDUSTRY PARTNERS

RECYCLING ROUNDTABLE

Local government staff, waste industry representatives and community organizations can network and learn in an informal setting



Future Considerations

- How do we measure our success?
- What are the sources of good data?
- How do we use this data for future planning and policy decision making?
- Do we need to reconsider the state goal?



Thank you.