

Advisory Committee

Solid Waste Management Plan for Lincoln and Lancaster County (Solid Waste Plan 2040)

October 9, 2012



Solid Waste Management Plan for Lincoln and Lancaster County

 **Solid Waste Plan 2040** 

Purpose of the Plan

The Solid Waste Plan 2040 will be a guidance document, communication tool, and resource for policy decisions regarding solid waste management systems, facilities, and programs.

Agenda

1. Public Meeting Law Acknowledgement & Safety Briefing
2. Call Meeting to Order
3. Roll Call
4. Approve Meeting Minutes from September 11, 2012
5. Baseline Assessment/Survey
6. Recycling Overview
7. Recycling Topics
 - a) Residential Recycling
 - b) Commercial Recycling
 - c) Construction and Demolition Materials Recycling
8. Committee Questions and Discussions

BREAK

Agenda

BREAK

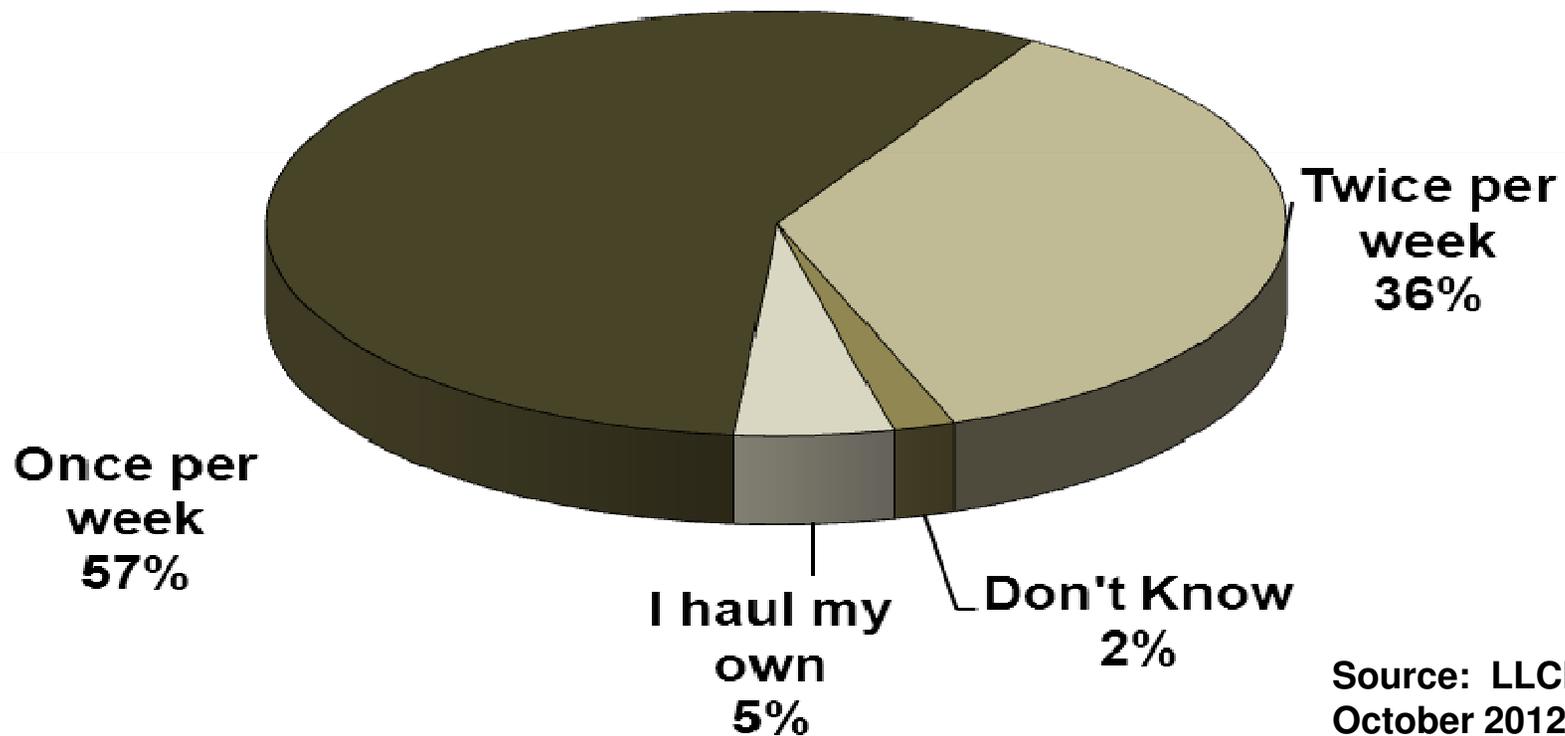
9. Recycling Topics (continued)
 - a) Recycling Incentives
 - b) Organic Waste Diversion (Composting)
10. Needs Assessment
11. Public Participation
 - a) News Release(s) / Newsletter(s)
12. Revised DRAFT Plan Goals
13. Committee Questions and Discussion
14. Next Advisory Committee Meeting
 - a) Timing, Topics and Notification
15. Public Comment (final 15 minutes)
1. Close Meeting

Baseline Assessment/Survey

- 411 Lincoln households were surveyed by phone in August 2012.
- The sample was “weighted” by LLCHD

Baseline Assessment/Survey

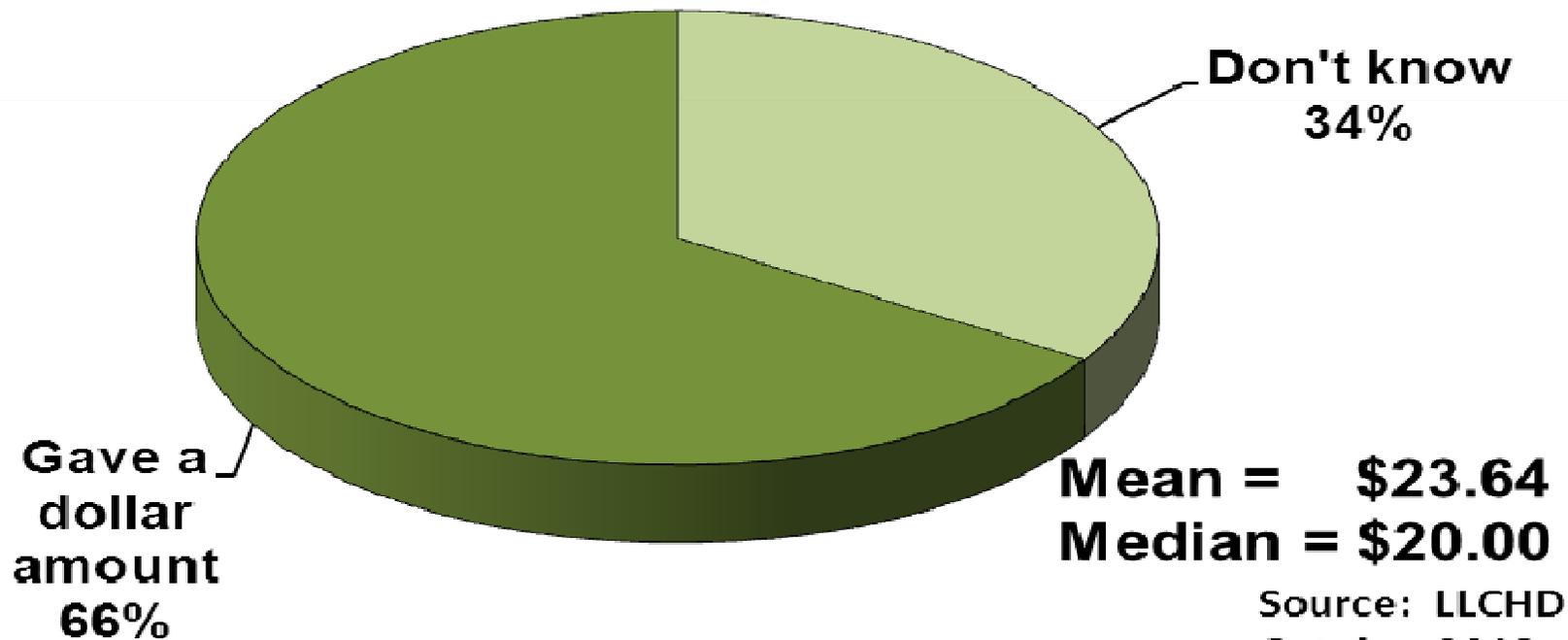
Q1. How often is your garbage collected by a private waste hauler each week?



Source: LLCHD
October 2012

Baseline Assessment/Survey

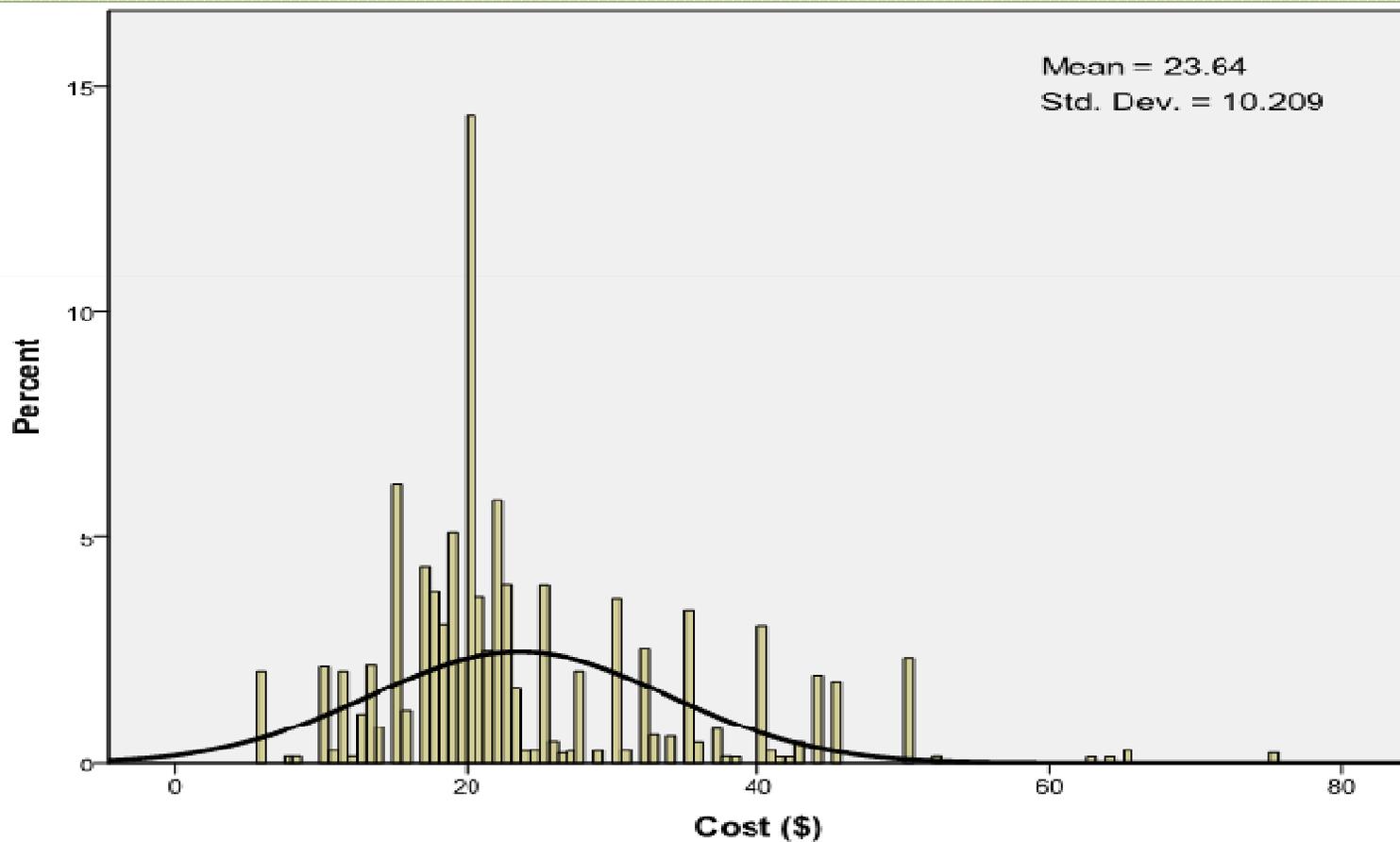
Q1a. How much do you pay per month for garbage service?



Baseline Assessment/Survey

Bell Curve of Cost for Garbage Service (weighted data)

Source: LLCHD October 2012



Baseline Assessment/Survey

Q2. Do you recycle aluminum cans, newspaper, cardboard, plastic, or tin cans?



Q2a. Do you have curbside collection of recyclables?

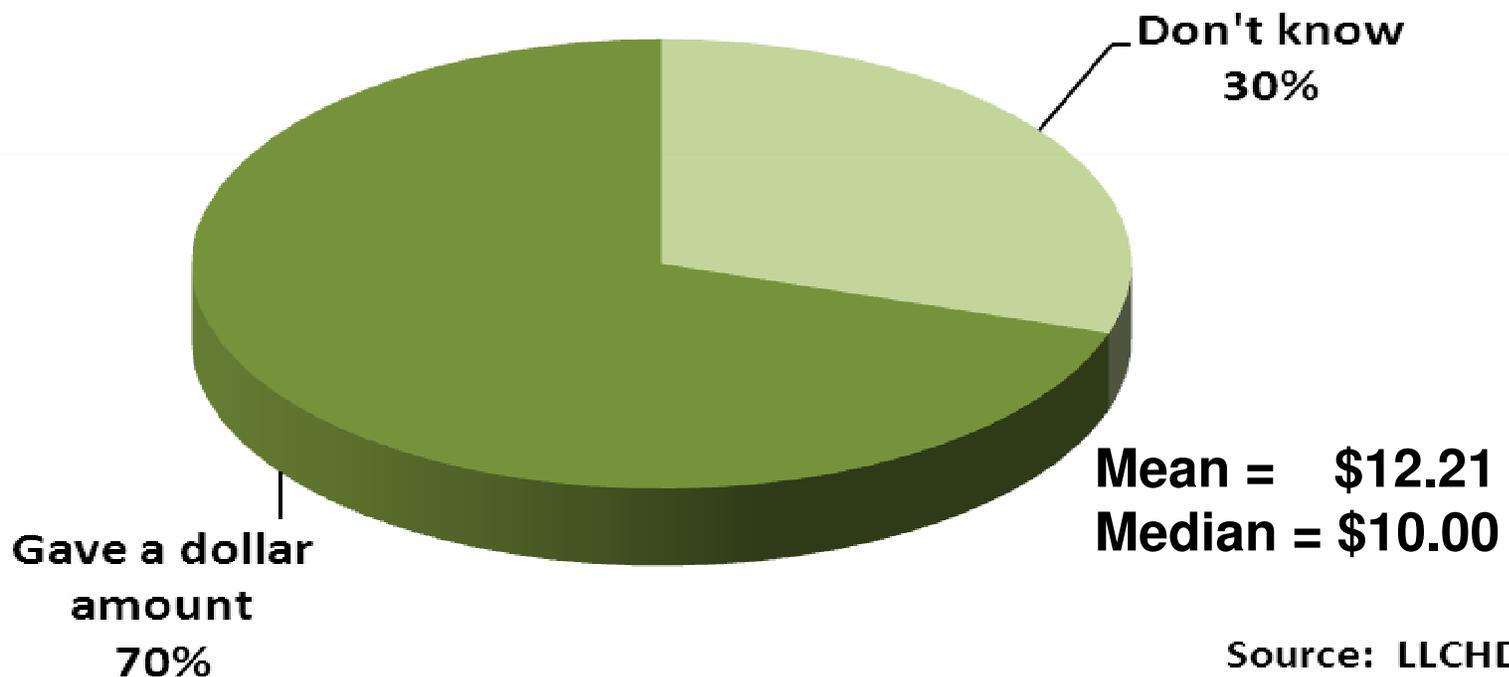


Thus, about **24%** of households **have curbside** collection of recyclables.

Source: LLCHD
October 2012

Baseline Assessment/Survey

Q2a.a. How much do you pay per month for curbside recycling?

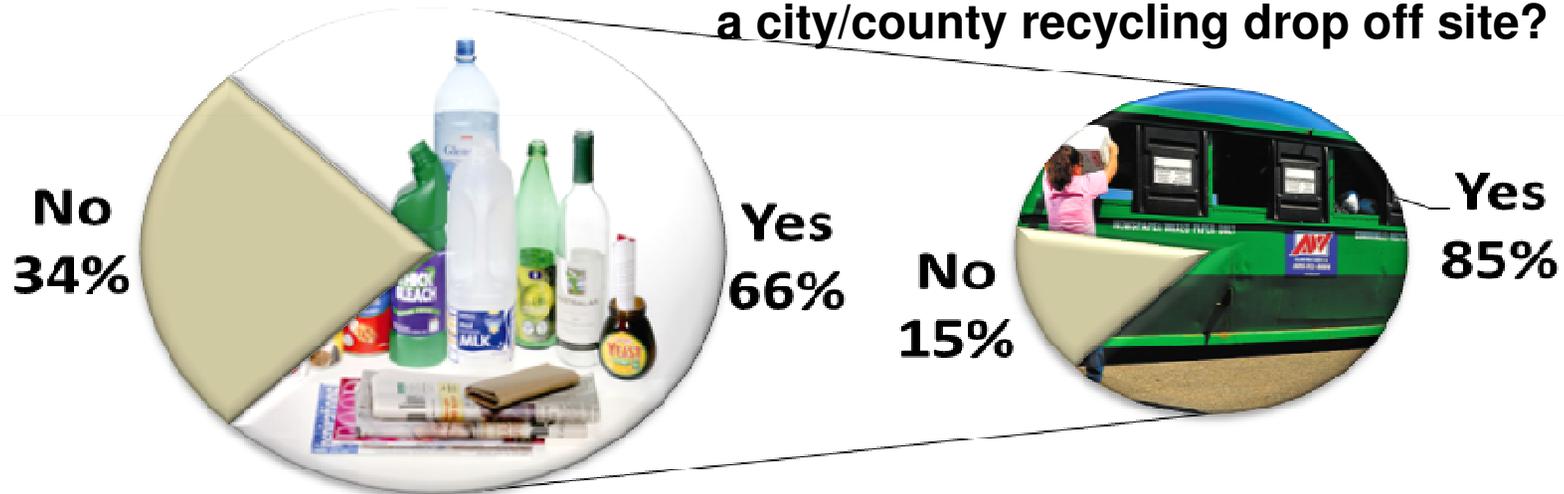


Source: LLCHD
October 2012

Baseline Assessment/Survey

Q2. Do you recycle aluminum cans, newspaper, cardboard, plastic, or tin cans?

Q2b. Do you take your recyclables to a city/county recycling drop off site?



Thus, about **56%** use city/county recycling drop off sites.

Source: LLCHD
October 2012

Baseline Assessment/Survey

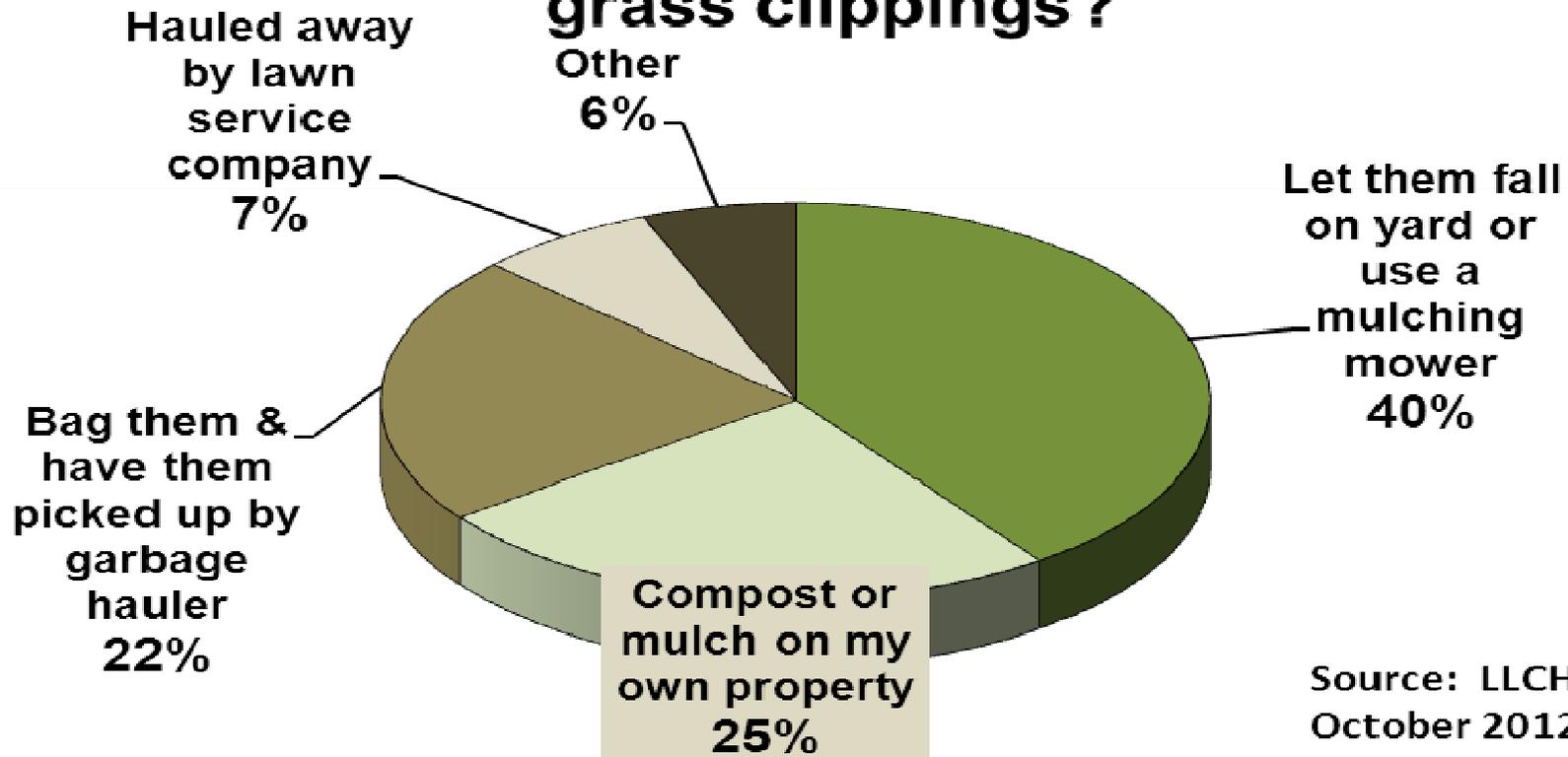
Q2d. Do you think curbside collection of recyclables should be offered to every home in Lincoln as part of the basic garbage collection services?



Source: LLCHD
October 2012

Baseline Assessment/Survey

Q3. When your yard is mowed, which one of the following happens to the grass clippings?



Source: LLCHD
October 2012

Baseline Assessment/Survey

Q4. When you have leaves to get rid of in the fall, what do you do with the leaves?



Baseline Assessment/Survey

Q5. The health department holds at least six household hazardous waste collection events each year. Have you ever taken household hazardous waste to one of these events?



Source: LLCHD
October 2012

Baseline Assessment/Survey

Q6. Do you think a building should be constructed to accept household hazardous waste year round?

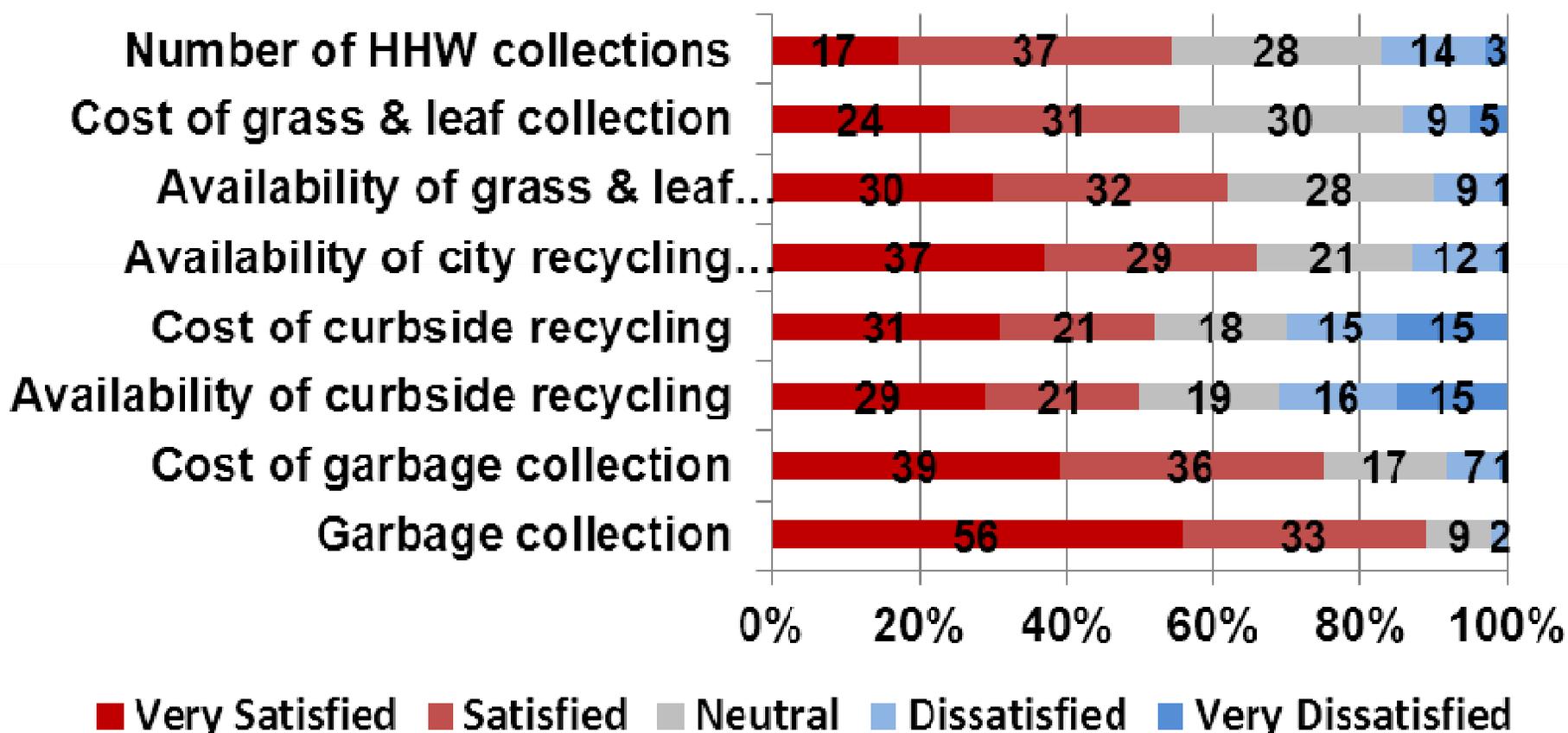


Source: LLCHD
October 2012

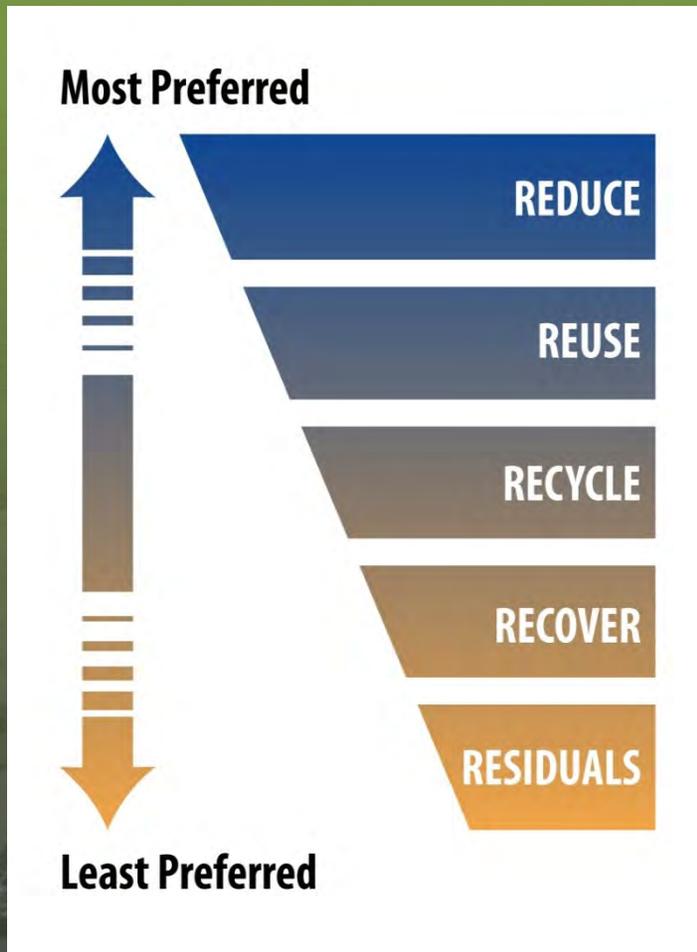
Baseline Assessment/Survey

Q7. How satisfied are you with the following services

Source: LLCHD 10/12



Recycling Topics



- Overview
- Residential Recycling
- Commercial Recycling
- Construction & Demolition Materials Recycling
- Recycling Incentives
- Organic Waste Diversion (Composting)

Recycling - Overview

RECYCLE

- 1) Collecting materials
- 2) Sorting and processing into raw materials that can be used to produce new products
- 3) Purchasing recycled product

- Objectives:
 - Turns materials that would otherwise become waste into valuable resources

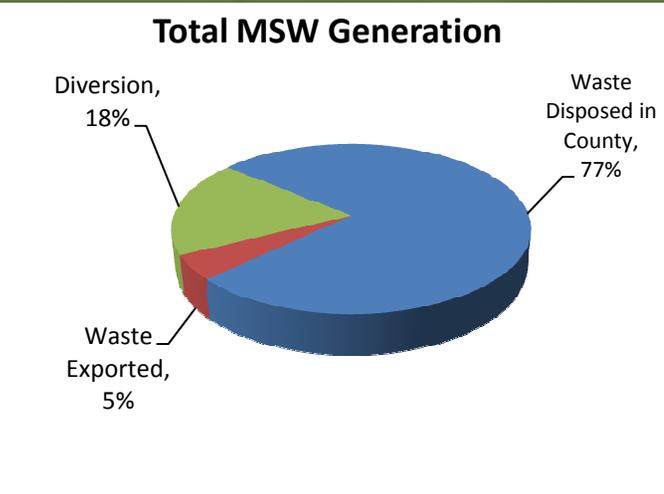
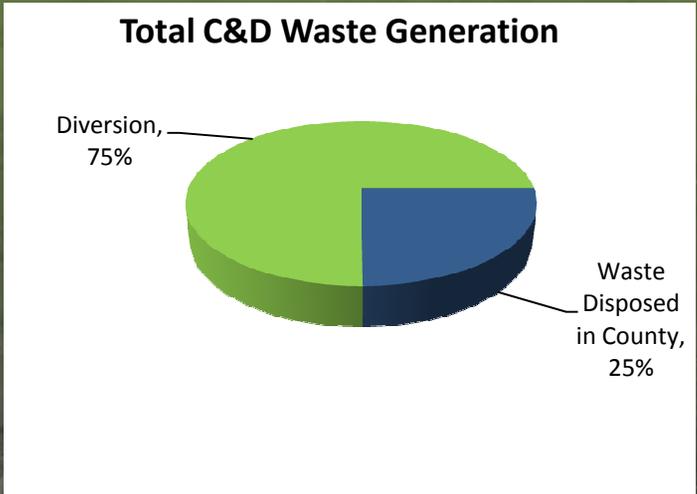
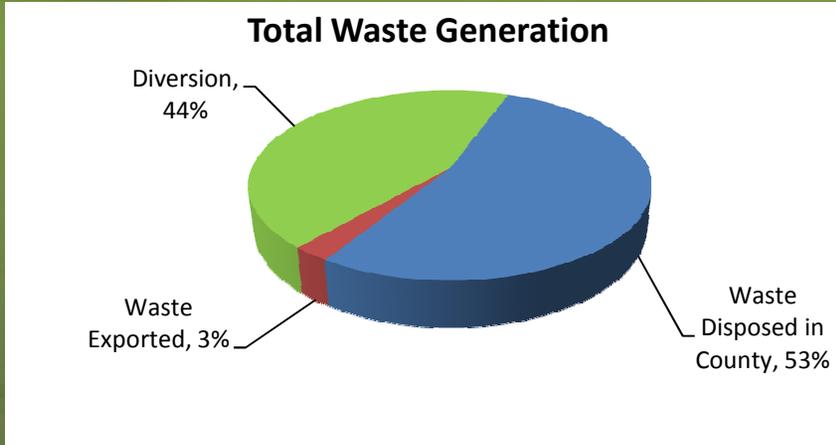


Markets are Key to Success

Solid Waste Includes

- Total Waste
 - Municipal Solid Waste (MSW)
 - Residential
 - Commercial (multi-family, businesses, industry and institutions)
 - Recycled and Composted (Residential & Commercial)
 - Construction and Demolition (C&D) Waste
 - C &D Waste Disposed
 - C &D Waste Recycled/Diverted
 - Diversion

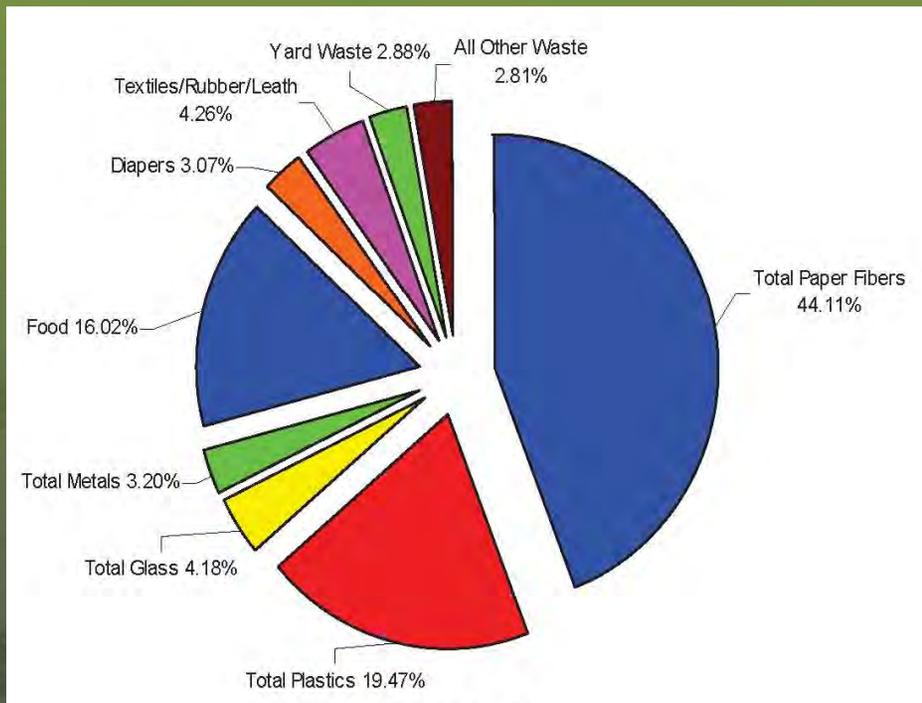
Disposal and Diversion - 2011



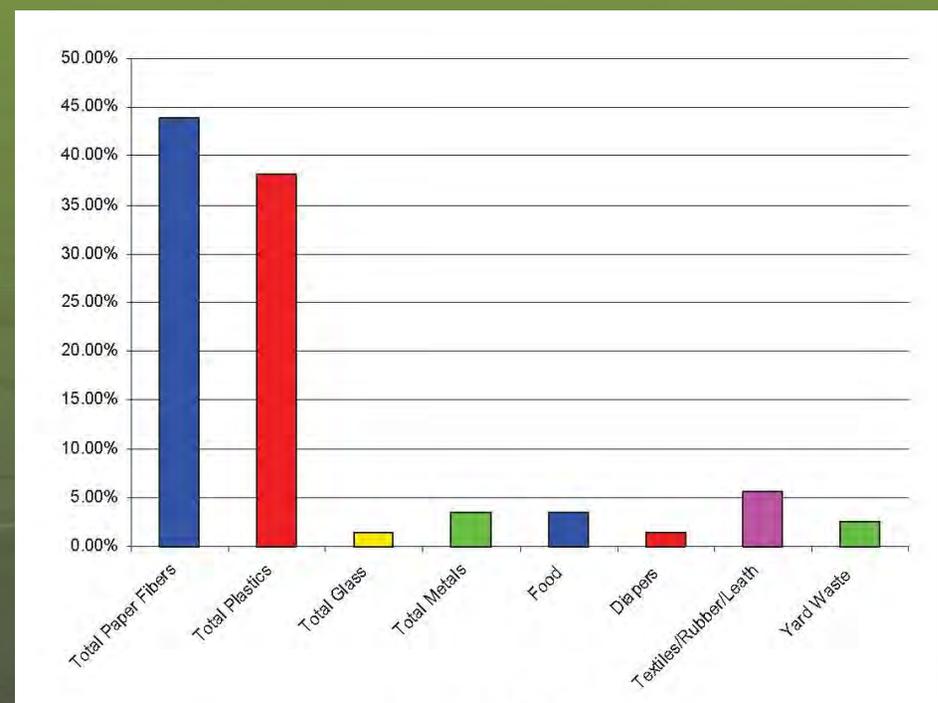
Diversion % includes Yard Waste

Composition (from NDEQ Study)

RECYCLE



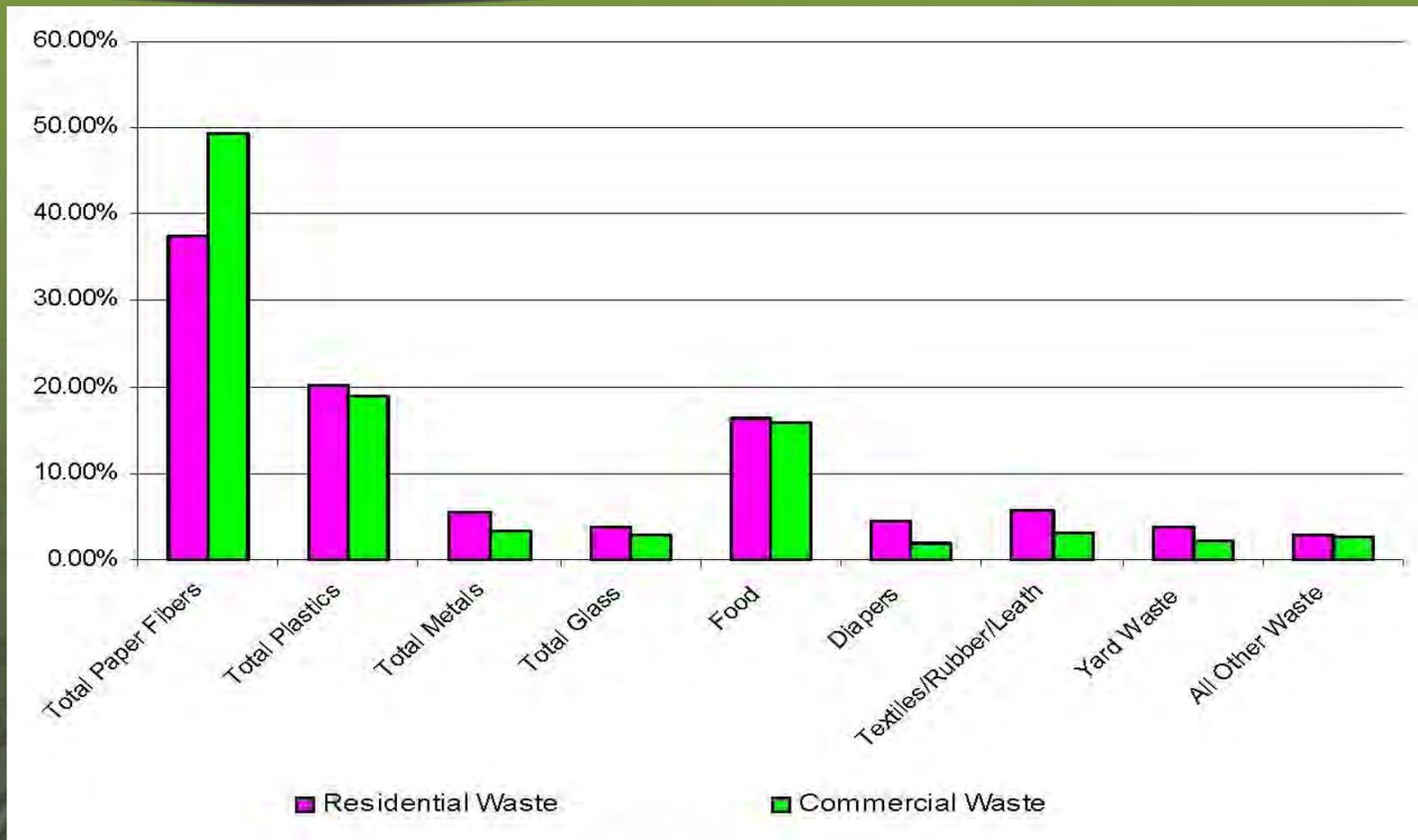
Distribution by Weight



Distribution by Volume

Composition (from NDEQ study)

RECYCLE



Distribution by Weight

Composition – NDEQ Recycling Potential

- Paper Fiber provides the Greatest Opportunities for Recovery/Recycling
- Recycling Potential – Readily Recoverable
 - 75% of the Metals
 - 50 - 60% of Plastics
 - 27% is PET #1 and HDPE #2
- Glass presents the greatest potential for reuse
 - Given its weight and limited value, these reuse needs tend to be localized

Residential Recycling

RECYCLE

Current Systems and Diversion Rates

- Drop-off Centers – 3% of Residential MSW
- Curbside Collection – 5% of Residential MSW
- Yard Waste Composting – 10% of Residential MSW
- Buy-Back Centers – Unknown

Residential Recycling

RECYCLE

Program Options

- Drop-off centers
- Buy-back centers – not evaluated
- Curbside collection
 - Free market
 - with minimum service ordinances
 - Franchising (exclusive or non-exclusive)
 - Contracts
- Deposit/refund programs
 - Generally requires statewide program

Commercial Recycling

RECYCLE

Current System

- Drop-off Centers – Counted under Residential Waste; Participation Unknown
- Subscription and Buyback – 18 % of Commercial MSW
- Waste Audits/Education

Commercial Recycling

RECYCLE

Program Options

- New construction (infrastructure) requirements
- Refuse hauler recycling service
 - Service is offered
 - Service must be provided
- Owner/Operator commercial recycling service
 - Minimum level of recycling services
- Processing facility

Construction & Demolition Materials Recycling

RECYCLE

Current System

- C & D Processors – 75% of Total C&D Generation
- North 48th Street Construction and Demolition Waste Landfill
 - Not a Diversion Program

Construction & Demolition Materials Recycling

RECYCLE

Program Options

- Regulatory Requirements
 - Mandatory recycling plans
 - Minimum diversion requirements for demo projects
 - Incorporation into disaster response plans
- Market and Diversion Incentives
 - Modify gov't procurement/purchasing specifications
 - Require the use of recyclable materials
 - Targeted programs
 - Increased landfill fees
 - Disposal bans
- Construction Materials Recycling and Processing Centers

Committee Questions & Discussion

- Baseline Assessment Survey
- Residential Recycling
- Commercial Recycling
- Construction and Demolition Materials Recycling

Agenda

BREAK

8. Recycling Topics (continued)
 - a) Recycling Incentives
 - b) Organic Waste Diversion (Composting)
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Recycling – Incentives

RECYCLE

Current System

- Educational & Promotion
- Recycling Drop-off Centers (No charge drop-off sites)
- Waste Audits to Commercial Business
- Material Reuse (via not-for-profits)
- Subsidies (via Occupation Tax and Grants)
- Toxics Reduction through HHW (No charge) and CESQG programs (limited charges)
- Waste exchanges and reuse options
- Assistance with cleanup and mini-grants
- Take back programs by businesses

Recycling - Incentives

RECYCLE

Program Options

- Education
- **Availability/Access/Convenience**
- Fees/Rates
 - Single fee systems
 - Pay-as-you-throw (volume based rates)
- Bans, Restrictions and Mandates
 - Building Specification
 - Demolition and Deconstruction
 - Utilization of Recycled Materials
- Grants or Subsidies

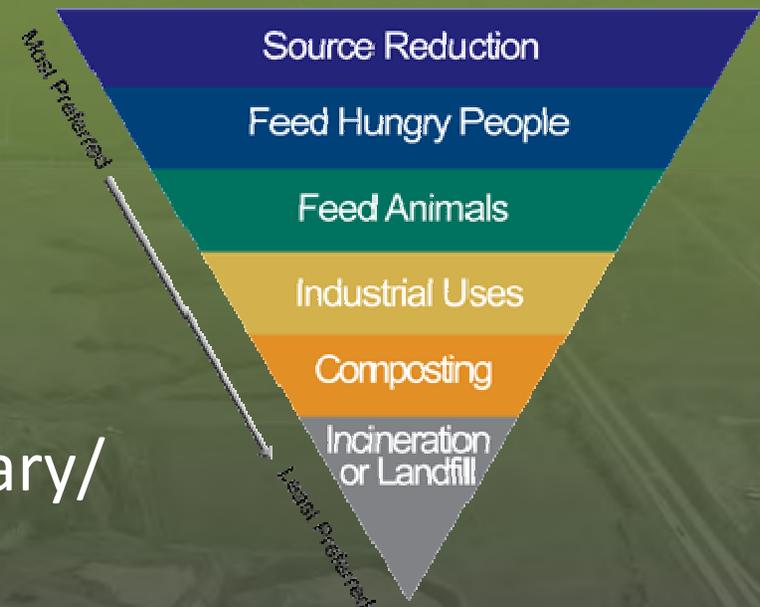
Organic Waste Diversion (Composting)

RECYCLE

Current System

- Food Programs (Source Reduction)
- Paper Fibers (Recycling)
- Yard and Wood Waste
 - Christmas Tree Recycling
 - Composting – Bluff Road
 - Drop-off – North 48th Street
 - Curbside Recycling – Voluntary/Subscription
- Livestock Waste Composting

Food Recovery Hierarchy



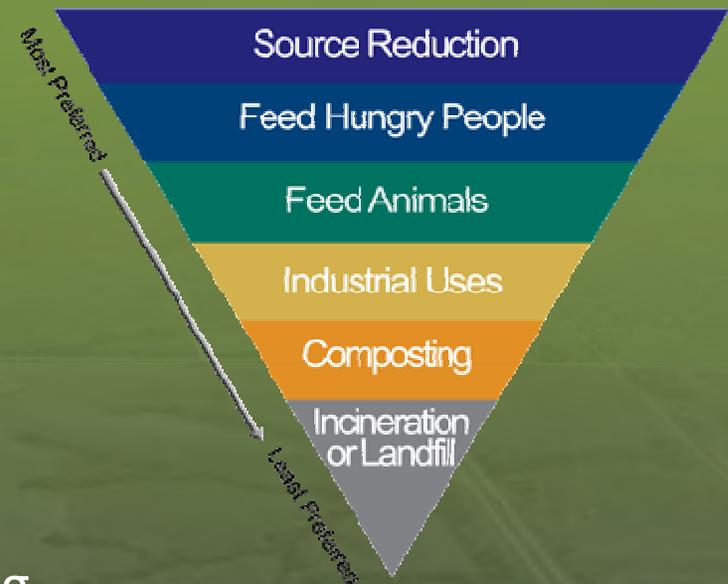
Organic Waste Diversion (Composting)

RECYCLE

Program Options

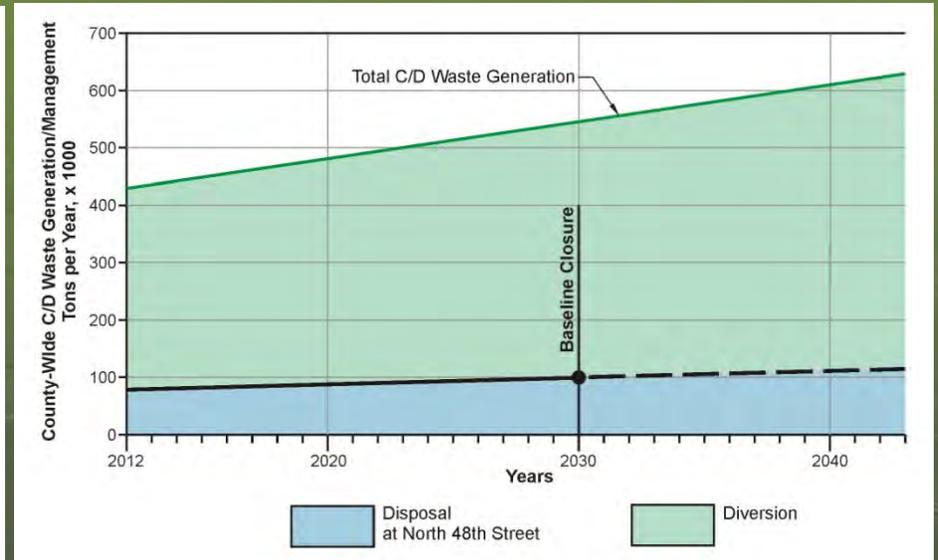
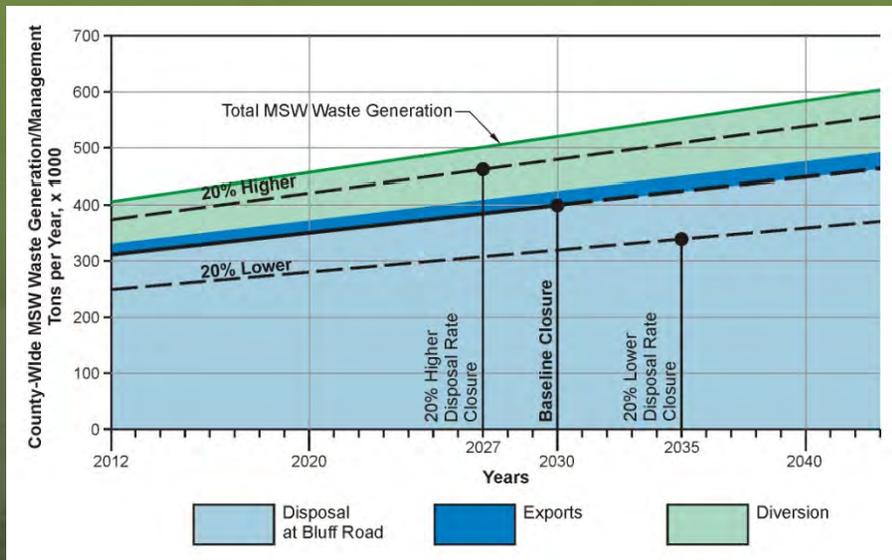
- Marketing
- Collection and Recovery
 - Wet/Dry Systems
 - Sanitary Sewer Collection Systems
- Composting or Digestion
 - Aerobic Organic Waste Composting
 - Anaerobic Organic Waste Digestion/Composting

Food Recovery Hierarchy



Needs Assessment

Landfill Site Life - Preliminary



Bluff Road

North 48th Street

Public Participation - Update

Activities since last meeting:

- City Press Release - October 5
- Newsletter - October 8

Needs Assessment - Public Participation

Open House

- Live Meeting – Nov. 13
 - 6:00 to 8:00 PM
 - Lincoln/Lancaster County Health Department
Lower Level Training Room
- On-Line Meeting – Nov. 6 through Nov. 20
 - Link will be provided on website

Needs Assessment - Public Participation

Outreach:

- Electronic Newsletter
- Press Release
- Social Media
- Toll Free Phone Line

Meeting Materials:

- Display Boards
- Comment Forms

Public Participation

Website: lincoln.ne.gov

–keyword: solid waste plan

Social Media

–Facebook

–Twitter

Information Line

(402) 441-7738

City Agencies MyInterLincoln Search Solid Waste/Recycling

CITY OF LINCOLN NEBRASKA Solid Waste Management Plan for Lincoln and Lancaster County Solid Waste Plan 2040

lincoln.ne.gov Public Work and Utilities Wastewater & Solid Wastes Recycling & Solid Waste Operations Solid Waste Plan 2040

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Solid Waste Plan 2040

The development of a comprehensive, integrated solid waste management plan was identified as a strategy in the Lincoln-Lancaster County 2040 Comprehensive Plan (LPlan 2040). The Solid Waste Management Plan (Solid Waste Plan 2040) will be a guidance document, communication tool, and a resource for policy decisions. The Public Works and Utilities Department and the Lincoln-Lancaster County Health Department will facilitate the development of the Solid Waste Plan 2040. The planning process for Solid Waste Plan 2040 includes numerous opportunities for public participation and involvement.

Next Advisory Committee Meeting:
Tuesday, October 9, 2012
2:30 p.m. to 4:30 p.m.
UNL - Lancaster County Extension Education Center
444 Cherry Creek Road

CITY OF LINCOLN NEBRASKA LANCASTER NEBRASKA CITY OF LINCOLN PUBLIC WORKS & UTILITIES LINCOLN COUNTY HEALTH DEPARTMENT

Log on to <http://lincoln.ne.gov>
Search: **Solid Waste Plan**

Solid Waste Management Plan for Lincoln and Lancaster County

Solid Waste Plan 2040

Committee Questions & Discussion

Recycling Incentives

Organic Waste Diversion (Composting)

Needs Assessment

Public Participation

Revised Plan Goals

Next Advisory Committee Meeting

Next Meeting:

November 13, 2012

2:30 pm to 4:30 pm

Lincoln/Lancaster County Health Department
Lower Level Training Room

Topic:

- Needs Assessment

Needs Assessment Open House: November 13, 2012
6:00 to 8:00 PM - Lincoln/Lancaster County Health
Department- Lower Level Training Room

Public Comment

- Guidelines:
 - State name and address
 - Limit your remarks to time allotted – 3 minutes
 - Show respect to the meeting attendees, Advisory Committee members, facilitator and presenter(s)
 - No foul language or inappropriate behavior
 - Follow standard rules of decorum