



# Solid Waste Master Plan

City of Joplin, MO

City Council  
Sept 6, 2022



# AGENDA



Introduction



Project Overview & Goals



Data Analysis, Current System Evaluation, & Trends



Public Engagement Results



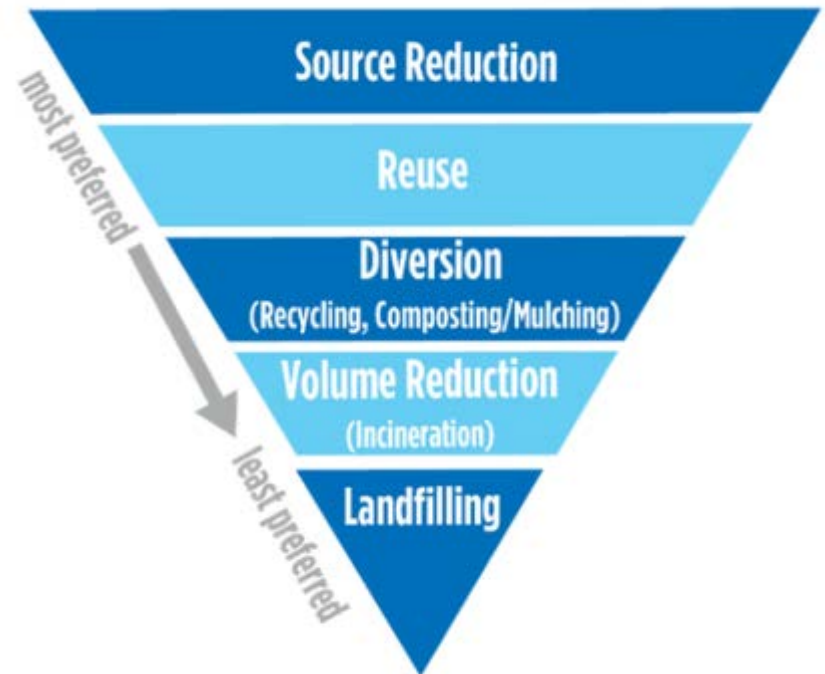
Recommendations & Next Steps

# Project Goals

## GOAL:

Develop affordable waste management methods consistent with the waste management hierarchy to achieve as much reduction, reuse and diversion from disposal as feasible

## Waste Management Hierarchy



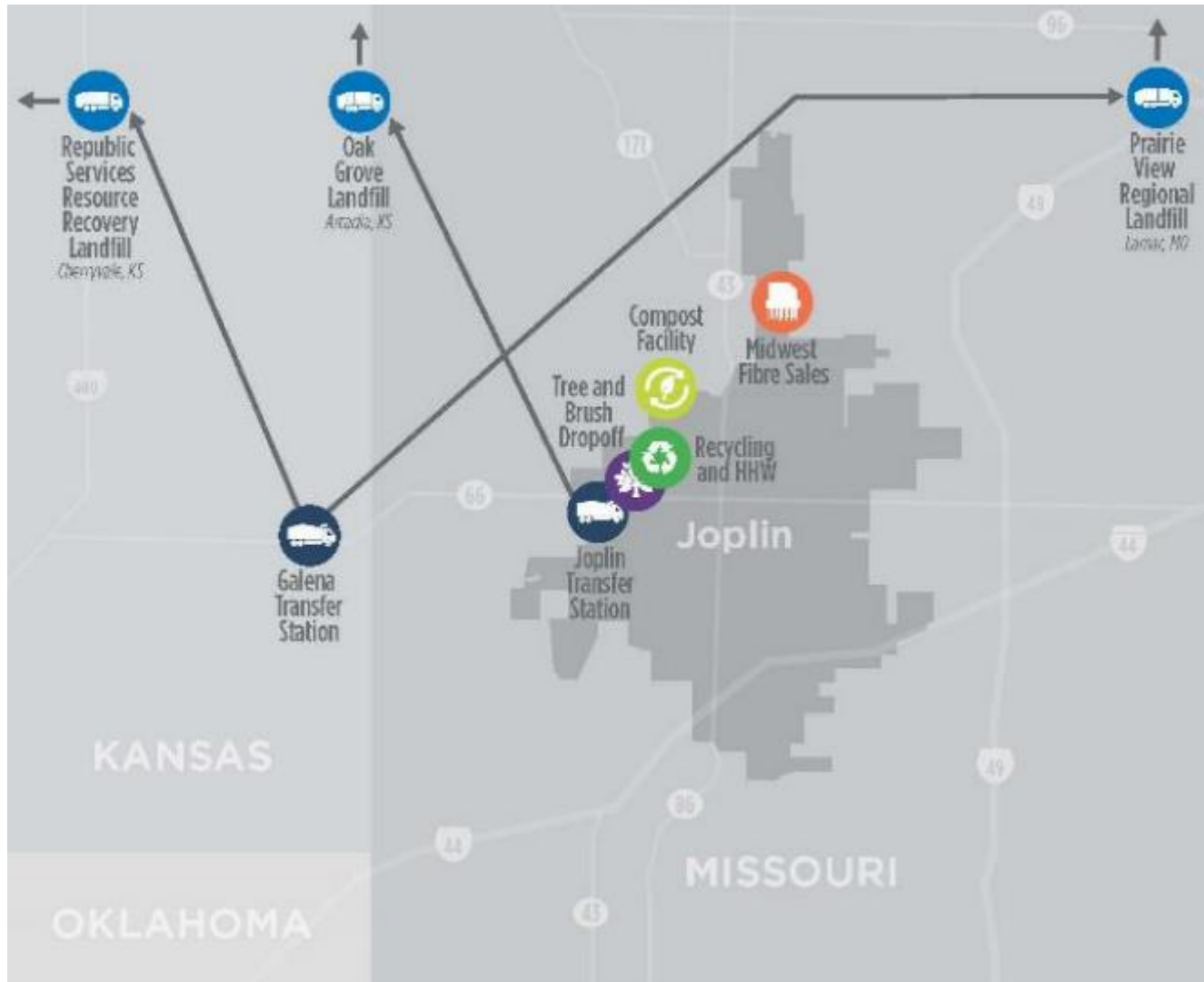
# Project Overview & Status Update

- ▶ Kickoff in Dec 2021
- ▶ Review of Current System
- ▶ Evaluation of Options
- ▶ Stakeholder Engagement
  - Solid Waste Advisory Commission
  - Community Survey
  - Public Open House
  - 2<sup>nd</sup> Public Engagement Proposed – Sept. 15 “Third Thursday”
- ▶ Finalizing Solid Waste Master Plan & Implementation Plan

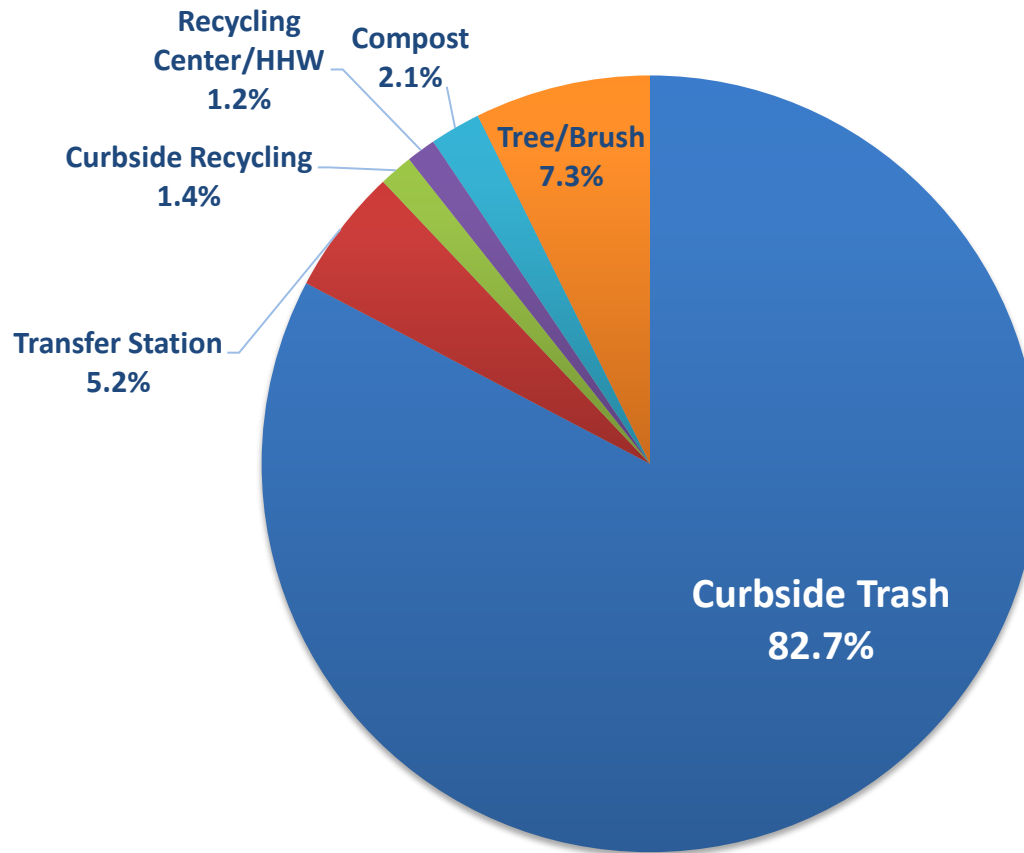


DATA ANALYSIS,  
SYSTEM EVALUATION,  
& TRENDS

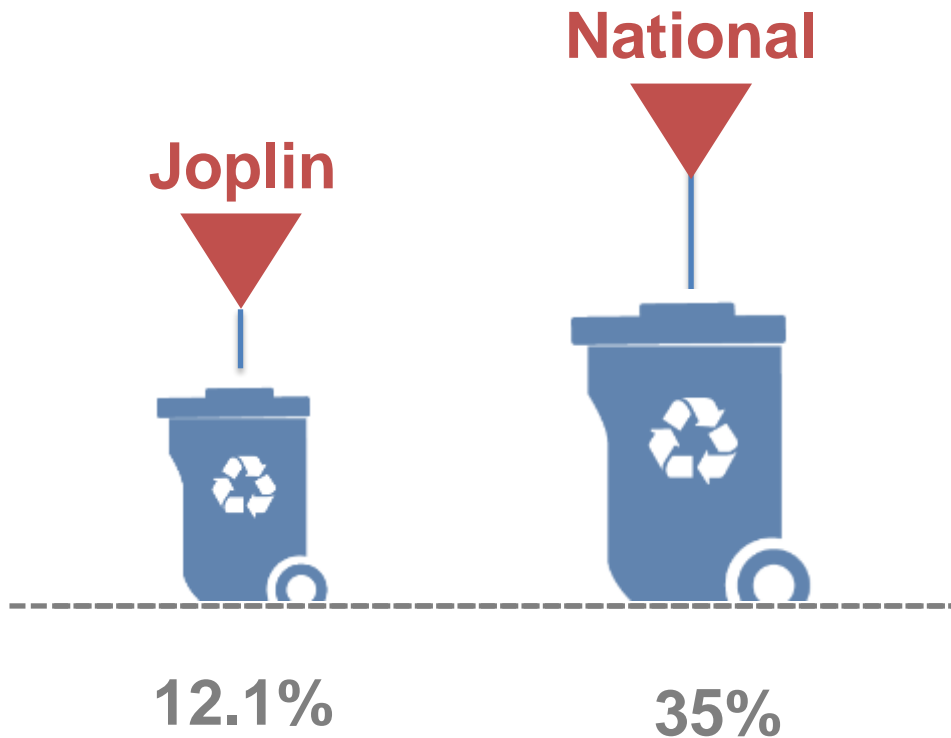
# Solid Waste Facilities Utilized by Joplin



# Joplin Residential MSW Generation and Diversion 2021



# Diversion Rate Benchmarking & Opportunities



**Diversion Rate**

## Opportunities

- ▶ Curbside recycling
- ▶ Yard waste composting
- ▶ Examine waste going to landfill to estimate potential for increased recycling



# Current System and Municipal Trends

	Joplin Residential Collection Services	Municipal Trends
Trash	<ul style="list-style-type: none"> <li>Weekly collection, 96-gal automated cart, unlimited</li> </ul>	<ul style="list-style-type: none"> <li>Weekly collection, automated carts, volume-based pricing</li> </ul>
Recycling	<ul style="list-style-type: none"> <li>Bi-weekly collection, opt-in with 96-gal cart, not aligned with trash day</li> </ul>	<ul style="list-style-type: none"> <li>Weekly collection, automated carts, included in base service with education</li> </ul>
Yard Waste	<ul style="list-style-type: none"> <li>Collected weekly with refuse; seasonal city collection of leaves for composting</li> </ul>	<ul style="list-style-type: none"> <li>Weekly yard waste collection for composting</li> </ul>
Bulky Item	<ul style="list-style-type: none"> <li>Weekly unlimited collection, some limitations</li> </ul>	<ul style="list-style-type: none"> <li>Separate programs with limits on collection frequency and quantities</li> </ul>

# Joplin Residential Recycling Participation

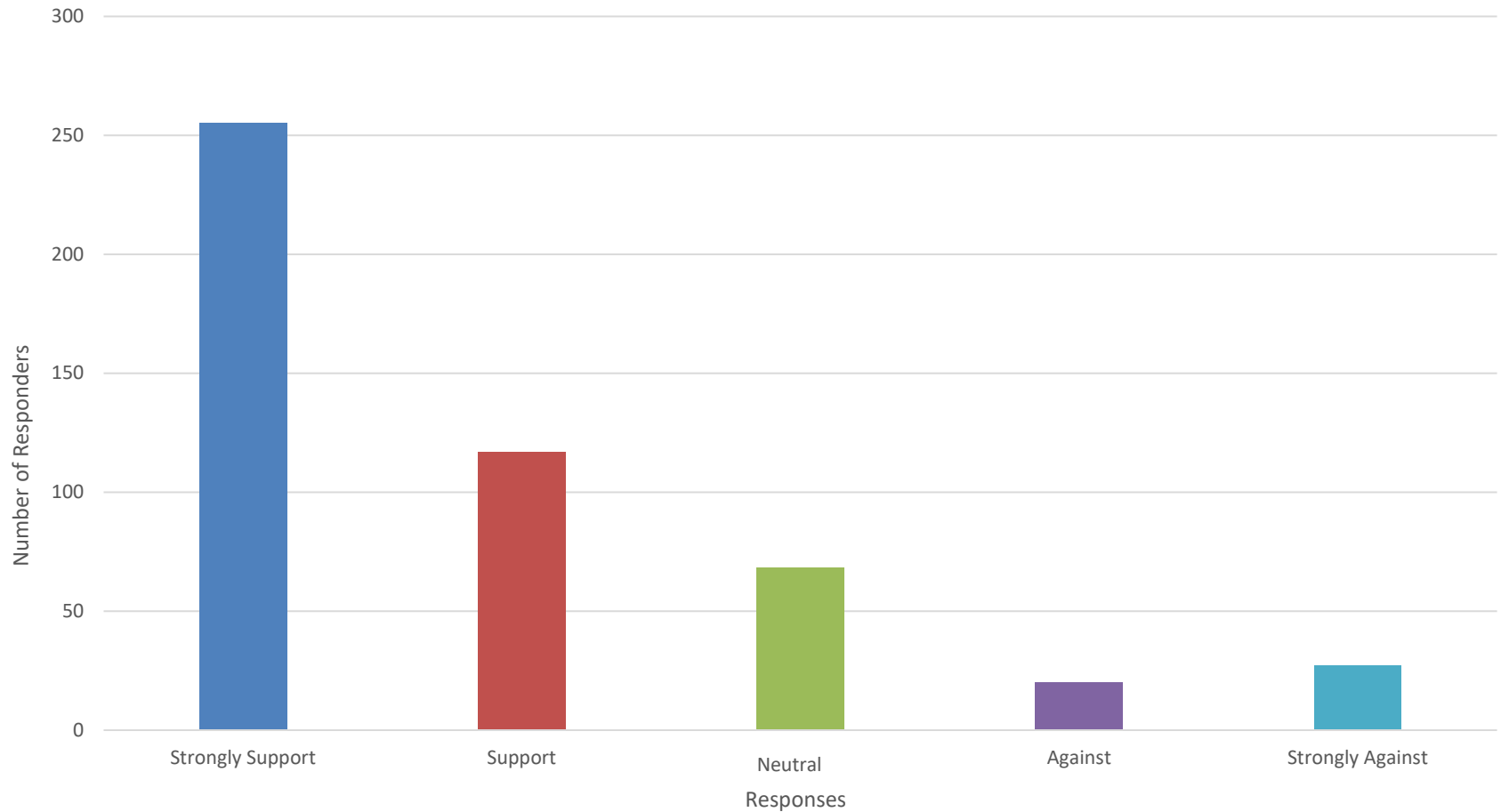
RESIDENTIAL CUSTOMER COUNTS (Monthly Average)			
Year	Refuse	Recycling	Recycling Participation Rate
2017	16,679	1,341	8.0%
2018	16,671	1,471	8.8%
2019	16,744	1,593	9.5%
2020	16,871	1,628	9.7%
2021	17,304	1,713	9.9%

**National average curbside participation rate in recycling of 72% with curbside service (source Recycling Partnership 2020)**

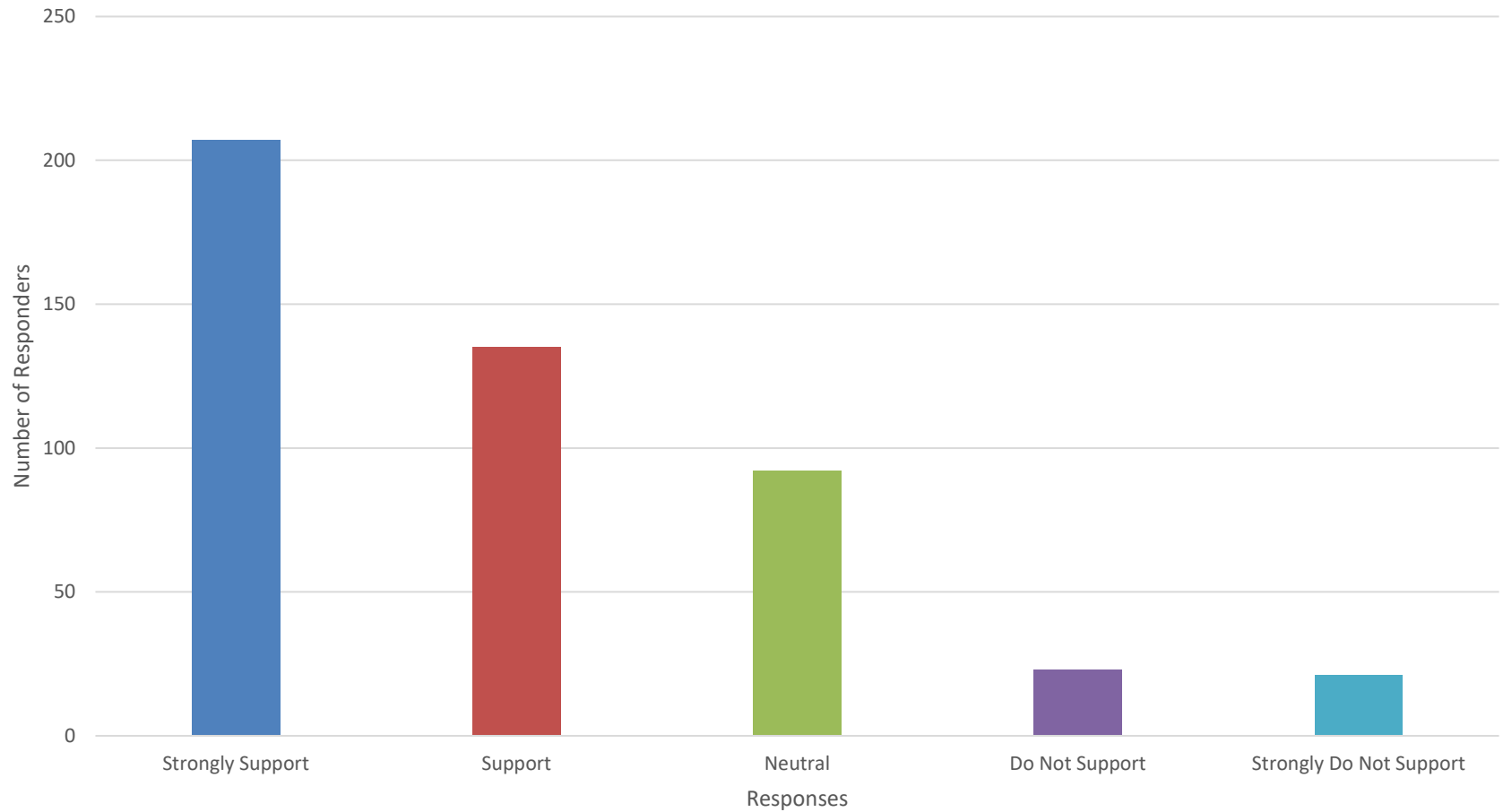


# SURVEY RESULTS

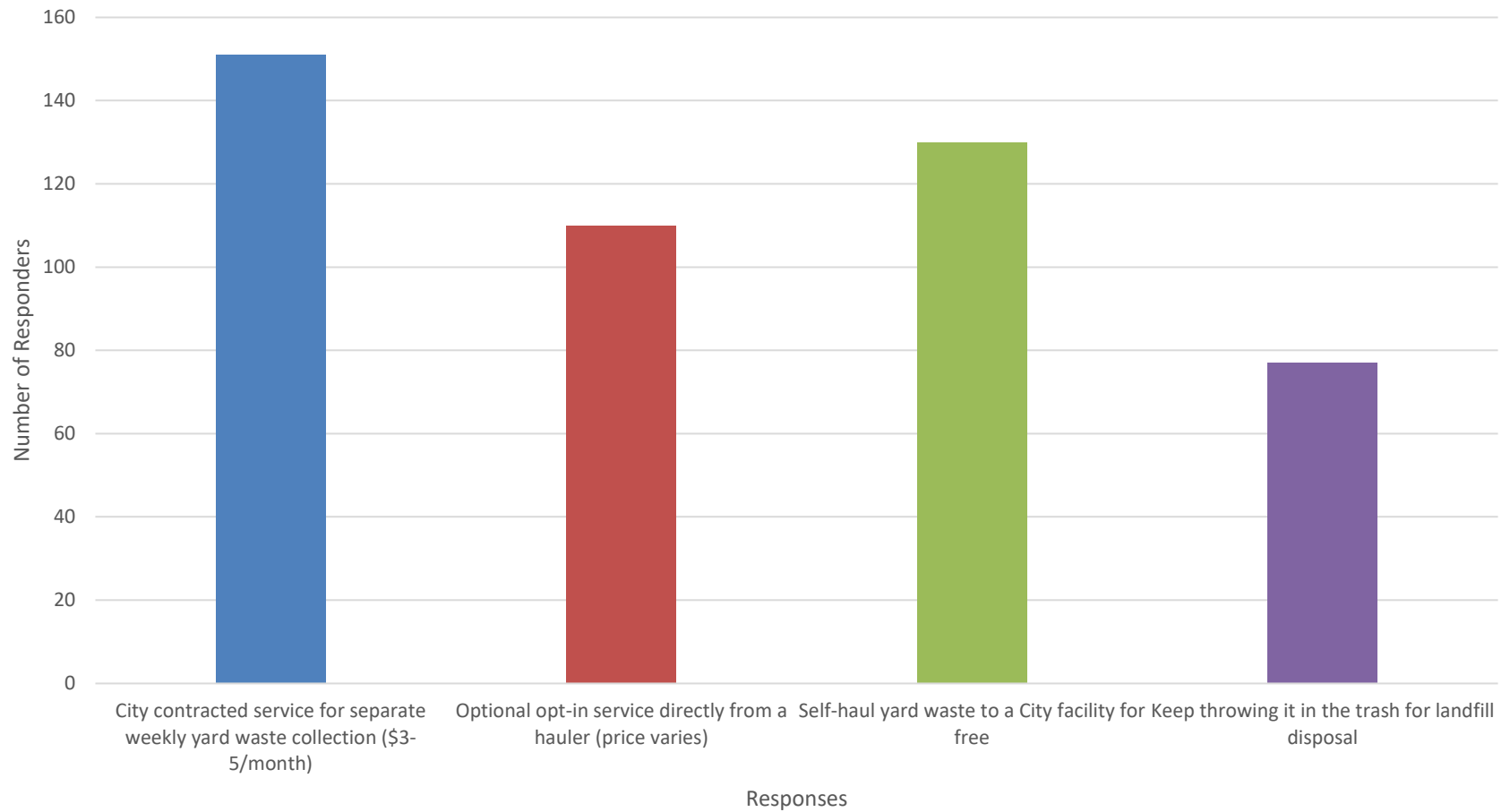
# Level of Support for City-Wide Curbside Recycling



# Level of Support for Separate Collection of Yard Trimmings

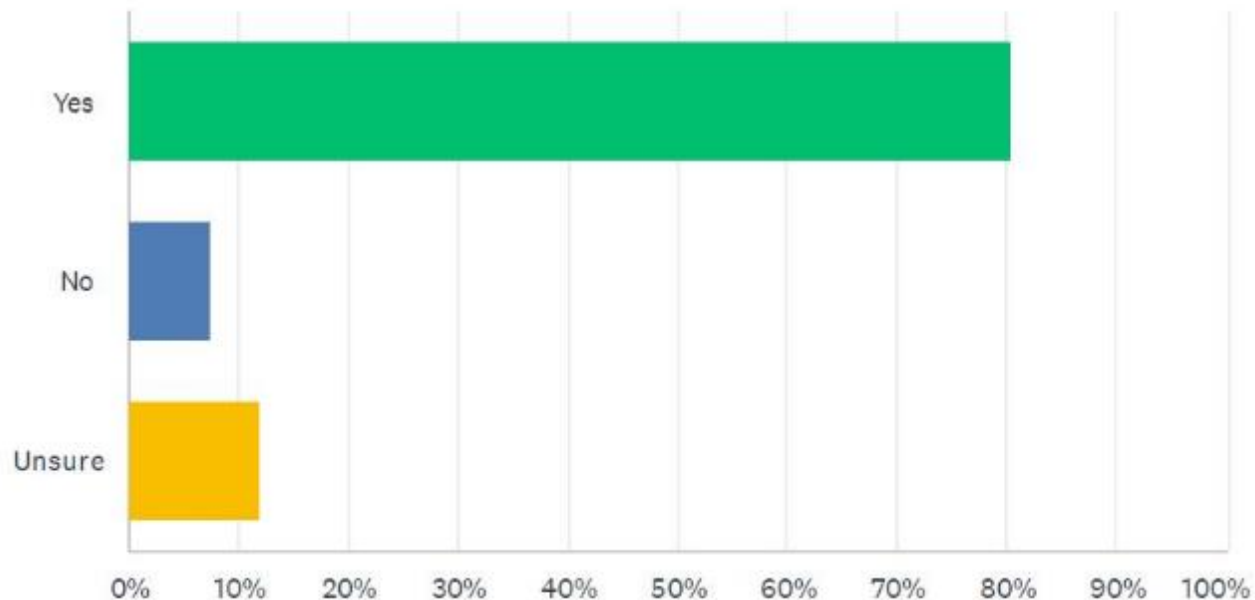


# Preferred Management of Yard Trimmings



## Q23 Do you support the City of Joplin setting goals to reduce waste, minimize consumption, conserve water use, and diversify renewable energy use?

Answered: 476 Skipped: 70



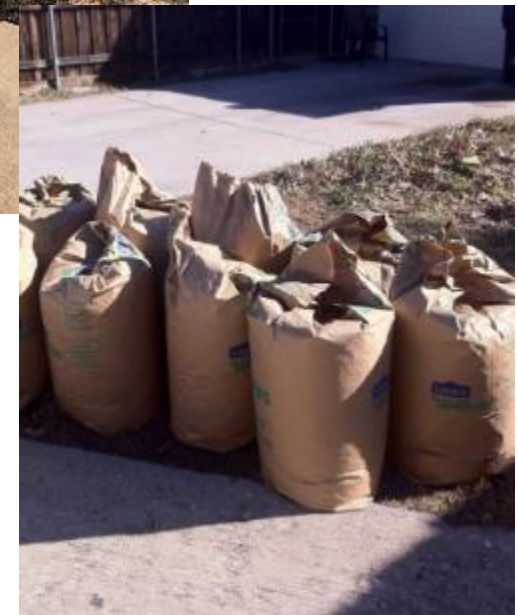


# RECOMMENDATIONS & NEXT STEPS



# Residential Curbside Services

- ▶ Include recycling in City contract for all
  - Weekly service, aligned with trash day
- ▶ Bulky item frequency reduced (monthly or quarterly) and limit quantities
- ▶ Modified PAYT: Charge for additional trash carts
- ▶ Require yard waste to be bagged in paper/Kraft bags
- ▶ Restrict yard waste from trash disposal
  - Provide subscription yard waste service option



# City Services

- ▶ Improve education and outreach about City services
- ▶ Continue to offer the discounted/subsidized drop off through a transfer station
- ▶ Co-locate all three services to one site (Lone Elm)
  - City owned property and existing infrastructure
  - Customer convenience of dropping off multiple materials in one location
  - Increased accessibility and hours of operation (Tree Limb Drop Off)
  - Opportunity to expand services
  - Opportunity to improve facilities
  - Potential revenue for City (i.e. baling recyclables, charging for commercial organics, sale of compost)

# Next Steps

## ▶ **Share Plan Recommendations with the Community**

- “Third Thursday” – September 15

## ▶ **Finalize the Solid Waste Master Plan**

- Draft anticipated for City review September 30

## ▶ **Financial Analysis of Co-locating City Services**

- Capital and Operational Opinion of Costs
- Draft anticipated for City review September/October

## ▶ **Energy Efficiency and Diversification Evaluation**

- Draft anticipated for City review September/October

## ▶ **Presentation to City Council**

- October TBD

# QUESTIONS

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