



Challenges in Solid Waste Collections Operations

Joe Delaney
National Technical
Manager
Rehrig Pacific Company

My “Trashy” Background

- ◉ Got into Garbage in 1985 with the NYC Dept. of Sanitation Recycling Programs
- ◉ City of Pasadena 1988 – Variable can rates or Pay as You Throw
- ◉ City of Beverly Hills 1992– automated recycling and yard waste collection
- ◉ City of Santa Monica 1996 – Automated collection using CNG vehicles
- ◉ Rehrig Pacific Company North Region Municipal Manager 2004
- ◉ Rehrig Pacific Company Environmental Services Group 2007

Industry Challenges

- ◉ Need to Drive down operation costs
- ◉ Limited opportunity to increase revenues
- ◉ Customer Service must be a priority
- ◉ Be “**GREEN!**”
i.e Recycle More – Dispose Less

Better Asset Management

Carts are a part of the solution and the challenge

- Can help reduce costs
- Increase revenues
- Improve Customer service
- Positive impact on Sustainability



Top 5 Collection Issues



#1 - You Didn't Collect My Cart!

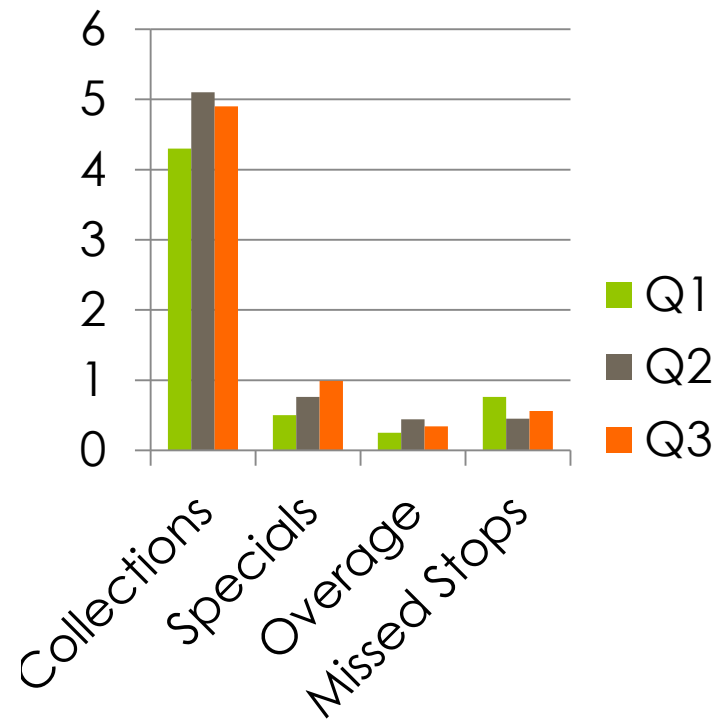
Service Verification

- Late Set outs
- Overage
- Improper set out
- Contamination



#2 - Where is my money?

- Lost Containers=
Lost revenue
- Overage
- Servicing extra
containers or larger
containers
- Servicing non-
revenue containers



#3 - Where are all my carts?



- Better Inventory Management
- Order containers as you need them
- Minimize Container Loss
- Scrap/Warranty Management

#4 - How can we Improve Operational Efficiency?

- Collection Routing efficiency
- How many carts you collect vs how many are out there
- Time between tips
- Various Collection Statistics and Data



#5 - Improve Sustainability?



- Evaluate Recycling Participation
- Reduce Fuel Usage
- Identify Contamination
- Educate Customers
- Service based on volume!

Current Technology

- Bar Codes
- RFID tags
- GPS tracking
- Asset Tracking SW
- Customer Service SW



New Technology/Directions?

- Beyond Bar Codes and Current RFID
- Creative Service Verification
- Improved Asset Management
- Volume or Weight tracking technology
- Materials recognition capability
- Improve Customer Accountability – Since the Customer is always right!



QUESTIONS?