



***AUTOMATED MSW & S.S.  
RECYCLING  
MARCH 4, 2009***

**DEPT. OF PUBLIC WORKS**

# AUTOMATED TRASH & S.S. PILOT BEGAN ON 11/3/08



REPORTED TO BOA - 1/21/09

# Where was the trial?

## Wards, Precincts and Garbage Collection Areas

City of Newton, Massachusetts

Monday  
W. Newton  
Auburndale

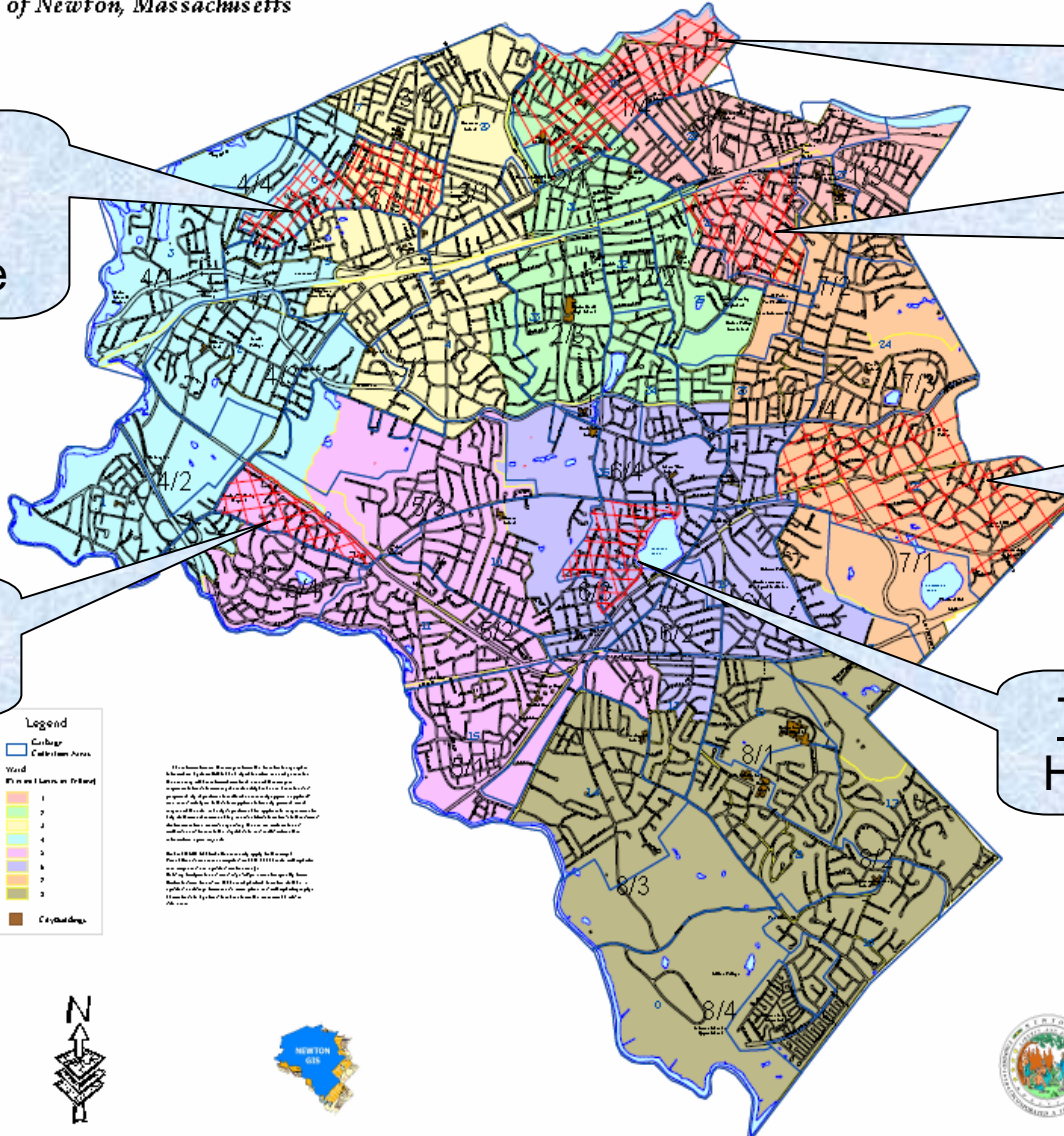
Tuesday  
Waban

Friday  
Nonantum  
Newtonville

Thursday  
Newton  
Corner

Wednesday  
Chestnut Hill

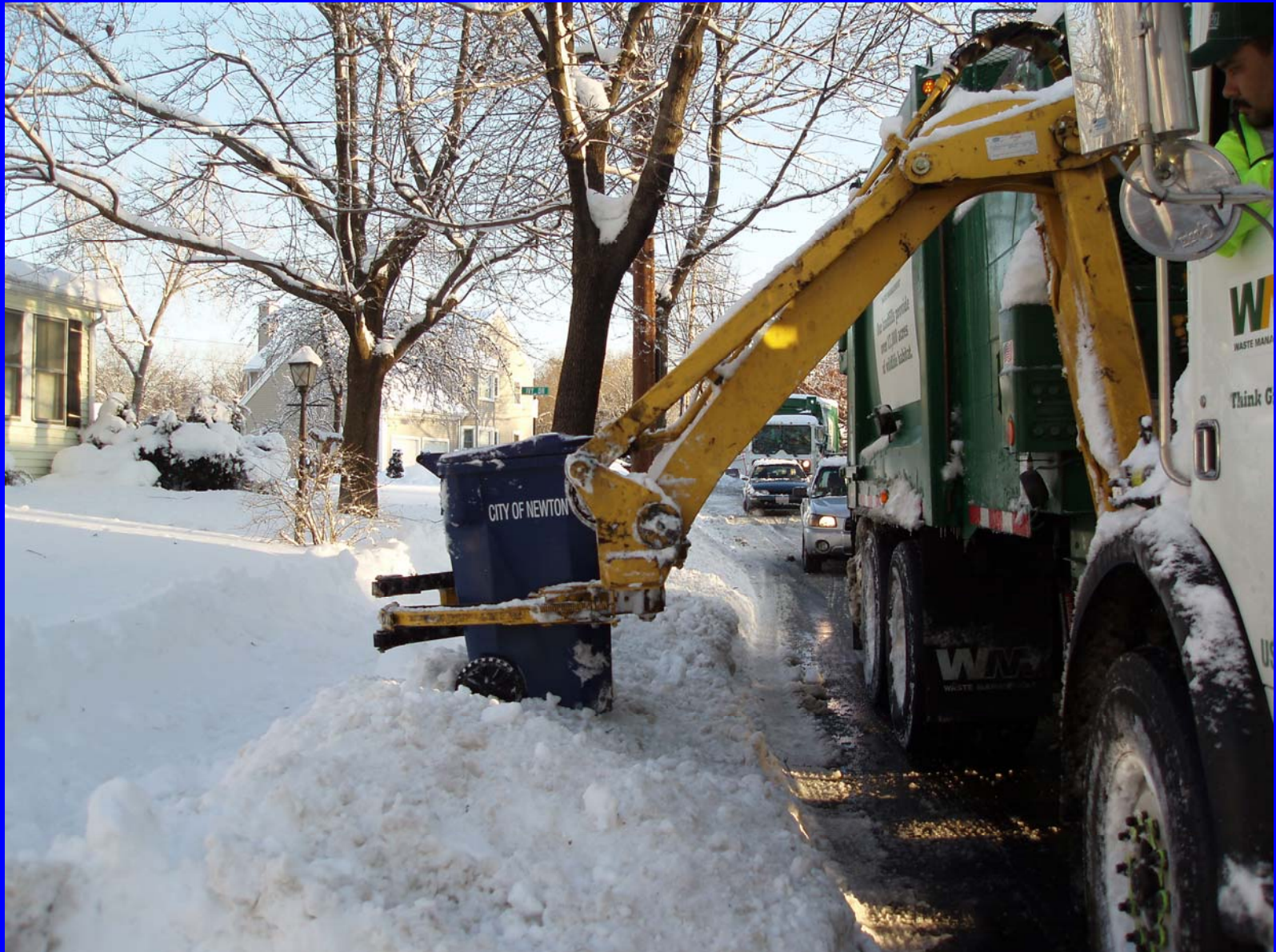
Tuesday  
Highlands



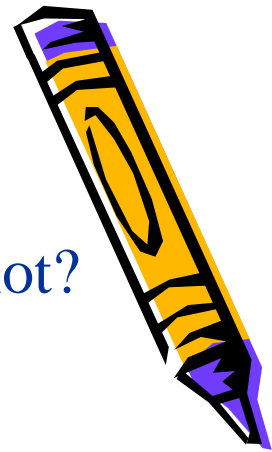
City of Newton, Massachusetts  
Ward 1  
Ward 2  
Ward 3  
Ward 4  
Ward 5  
Ward 6  
Ward 7  
Ward 8  
City of Newton



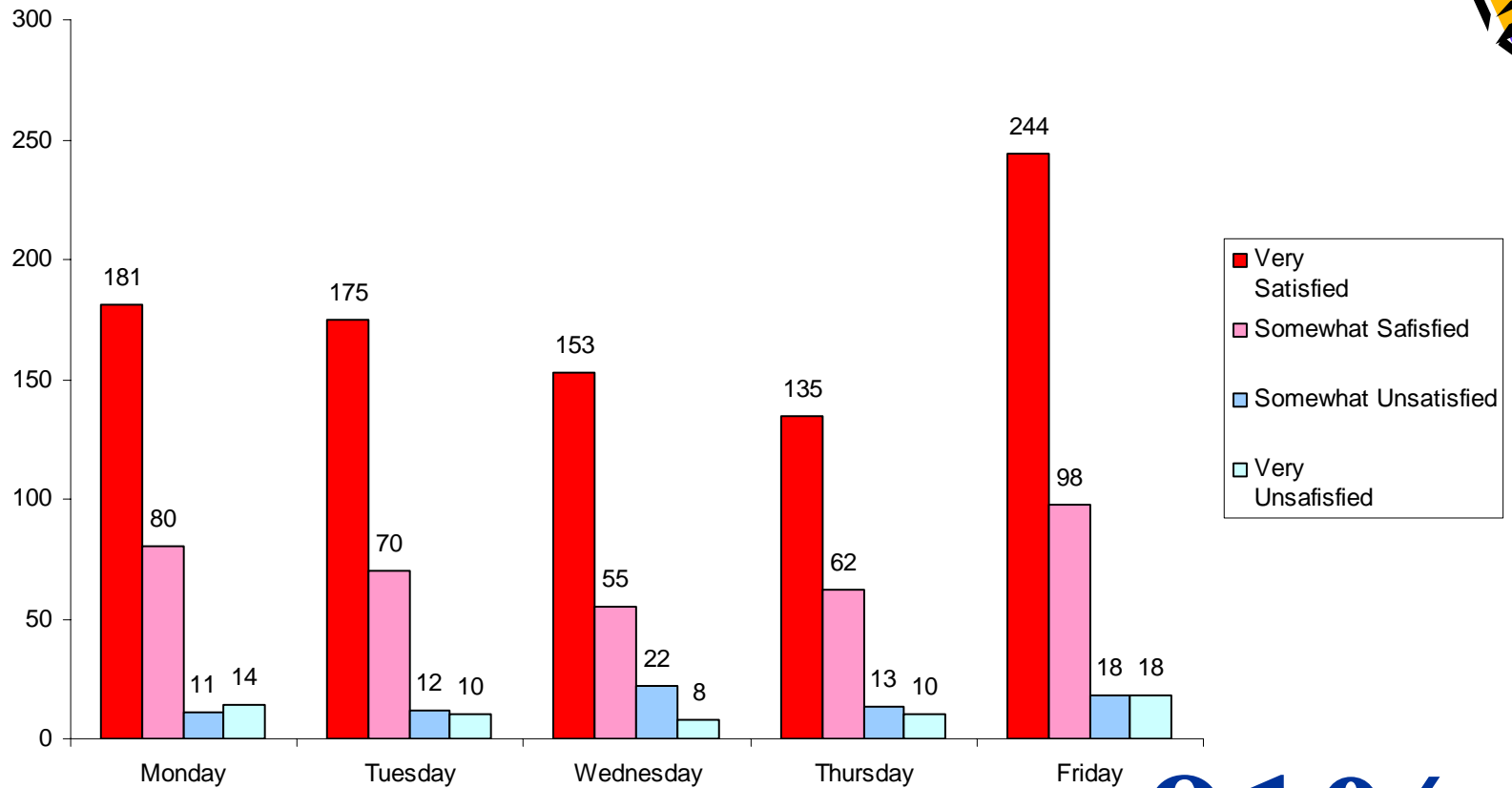
# HOW ARE WE DOING?



# SURVEY SAYS?



How satisfied are you with the automated trash collection pilot?



OVERALL SATISFIED:

91%



# PLEASE NOTE!

Pilot surveys were mailed out on 1/30/09!

RESPONSE IN FIRST WEEK: **34%**

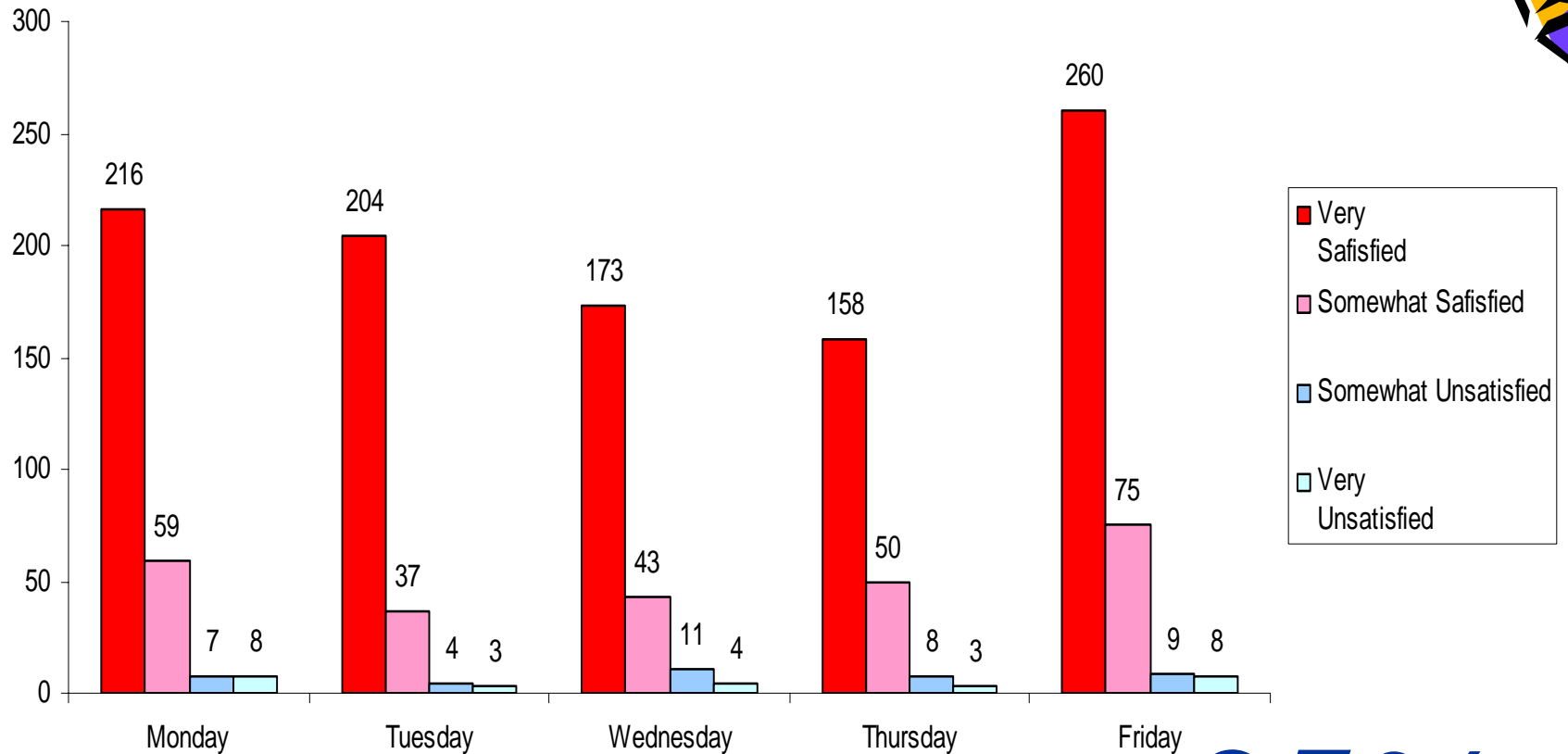
RESPONSE IN THREE WEEKS: **42%**



# BACK TO THE SURVEY...



How satisfied are you with the single stream collection pilot?

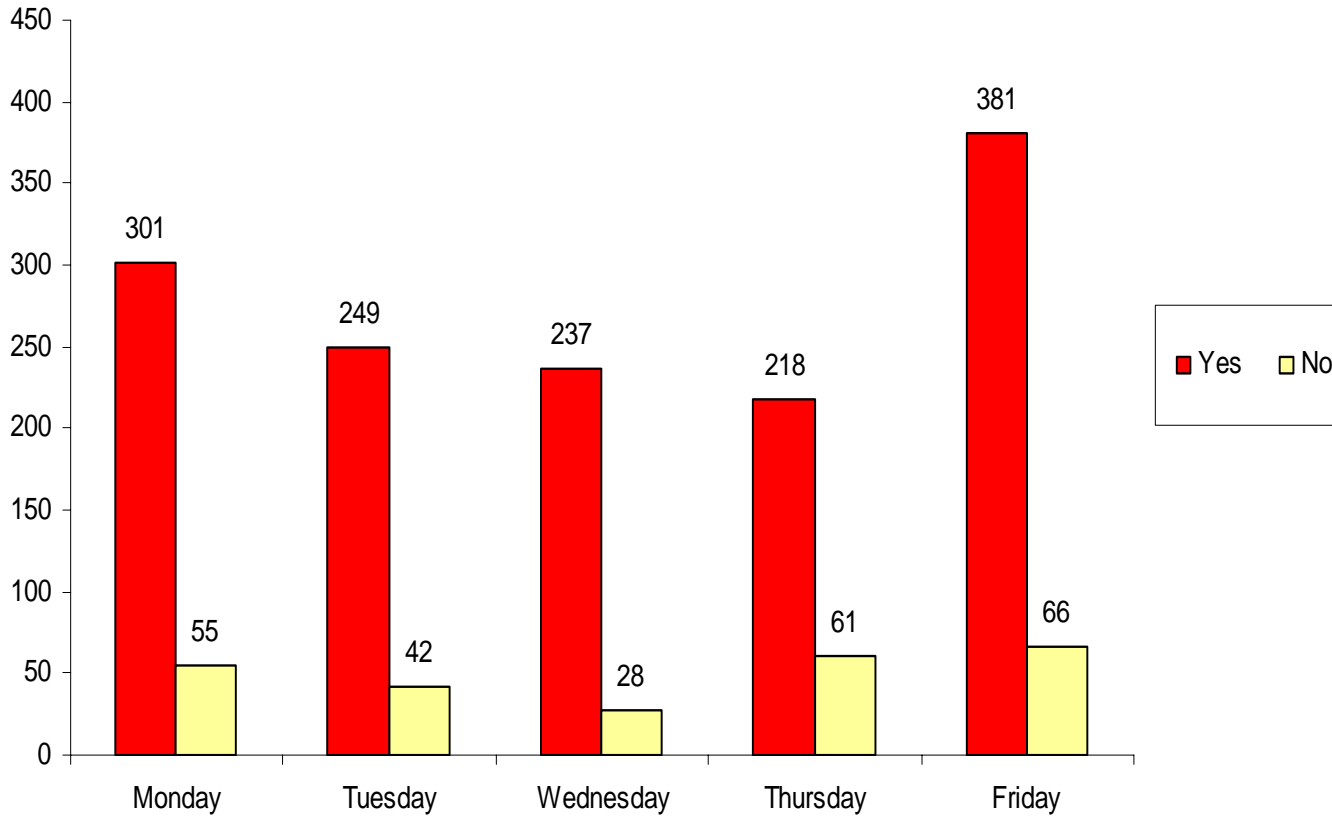


OVERALL SATISFIED:

95%

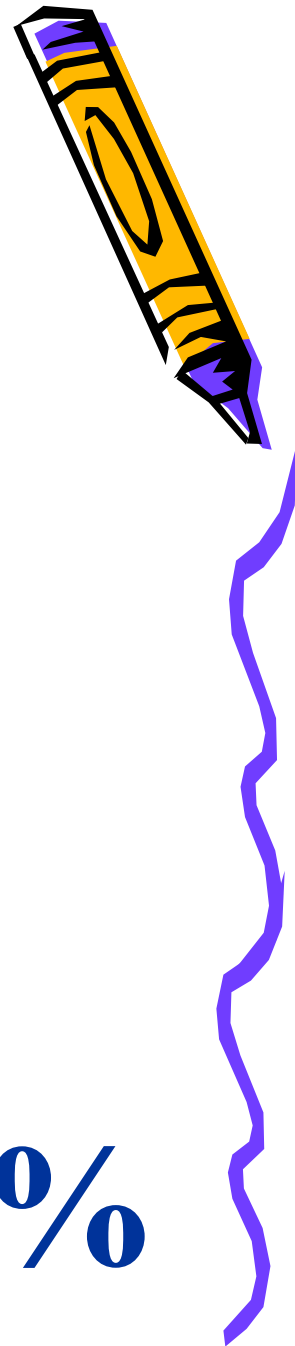


# Are you pleased with your wheeled cart?



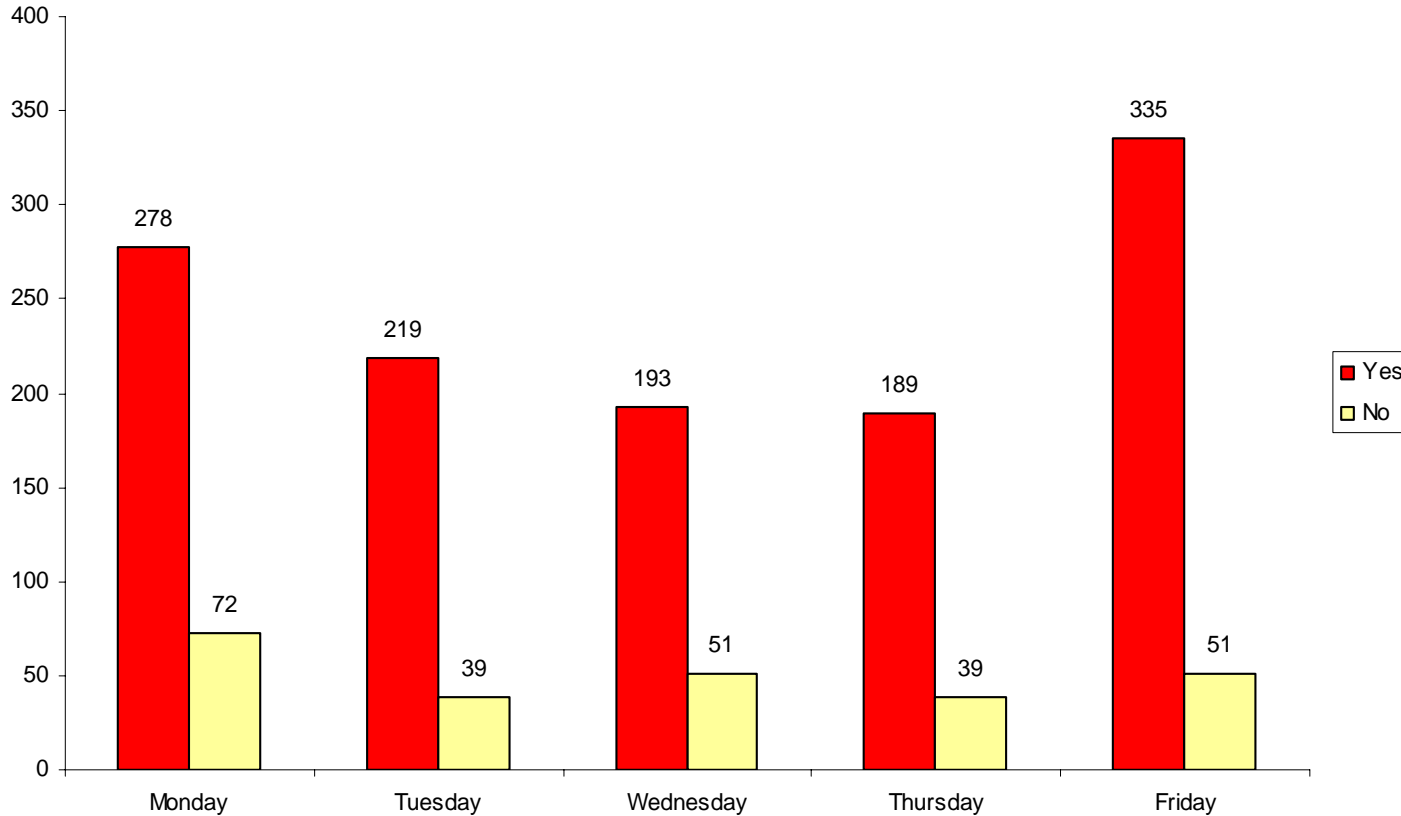
YES:

85%





# Did your cart hold your weekly household trash?

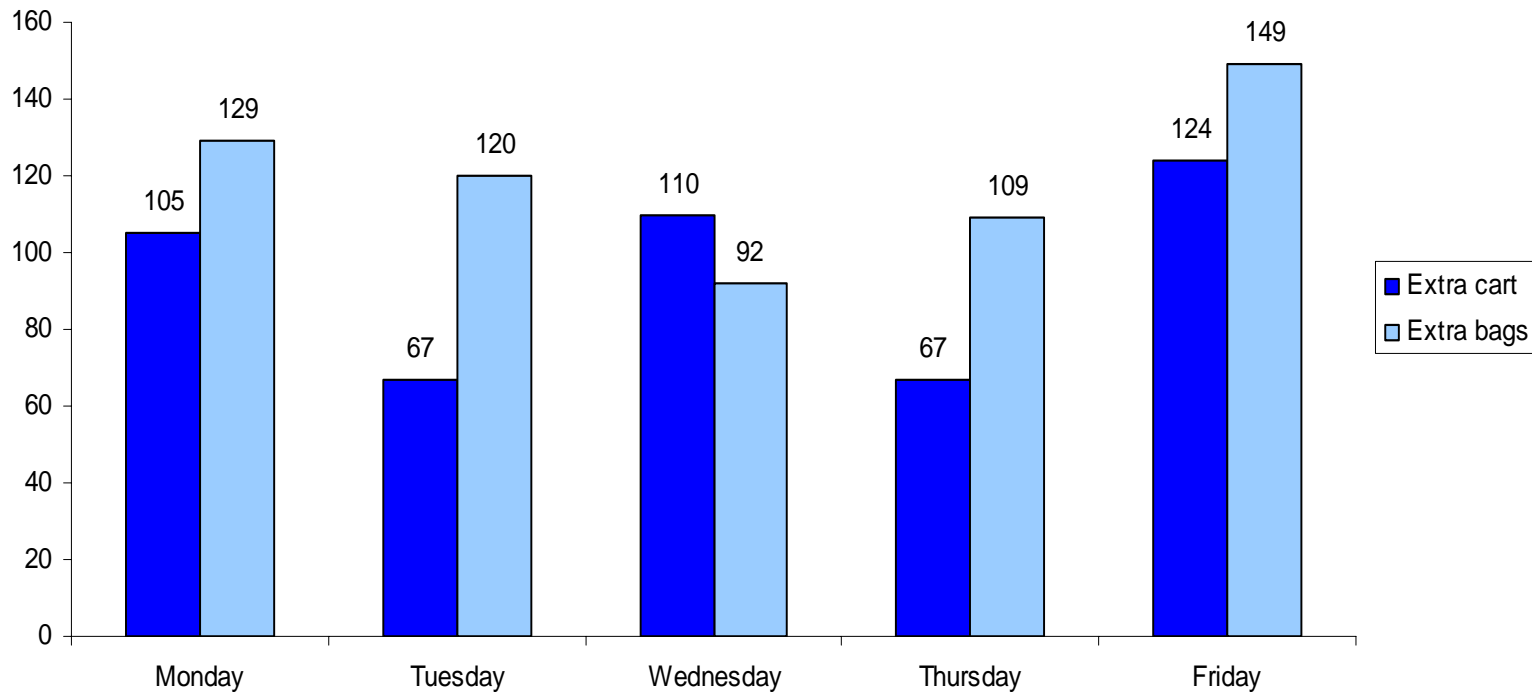
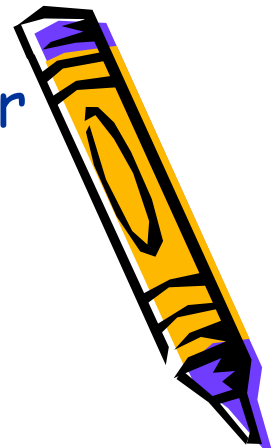


YES:

83%



If program expanded and there was an allowance for extra trash collection for a fee, how would you prefer to prepare the extra trash?



**EXTRA BAGS:**

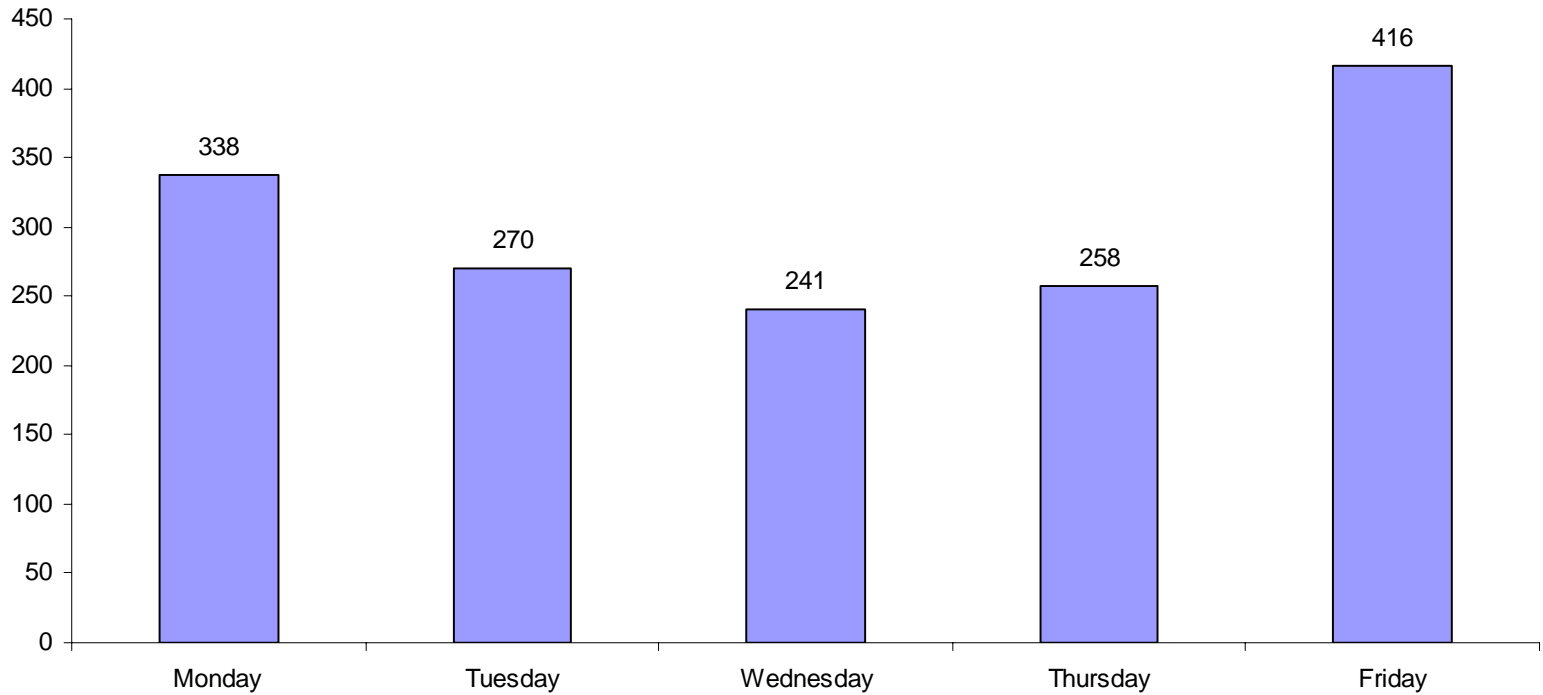
**56%**

**EXTRA CARTS:**

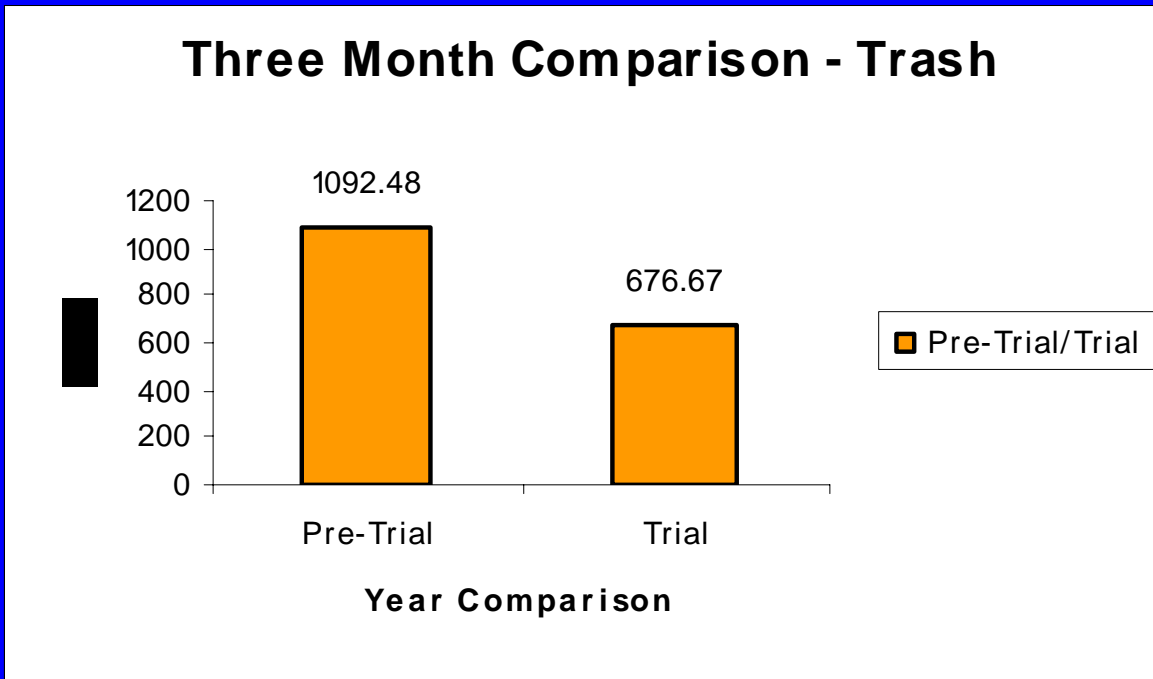
**44%**



# What is your trash collection day?



# WHAT ABOUT TRASH REDUCTION (IN PILOT)?

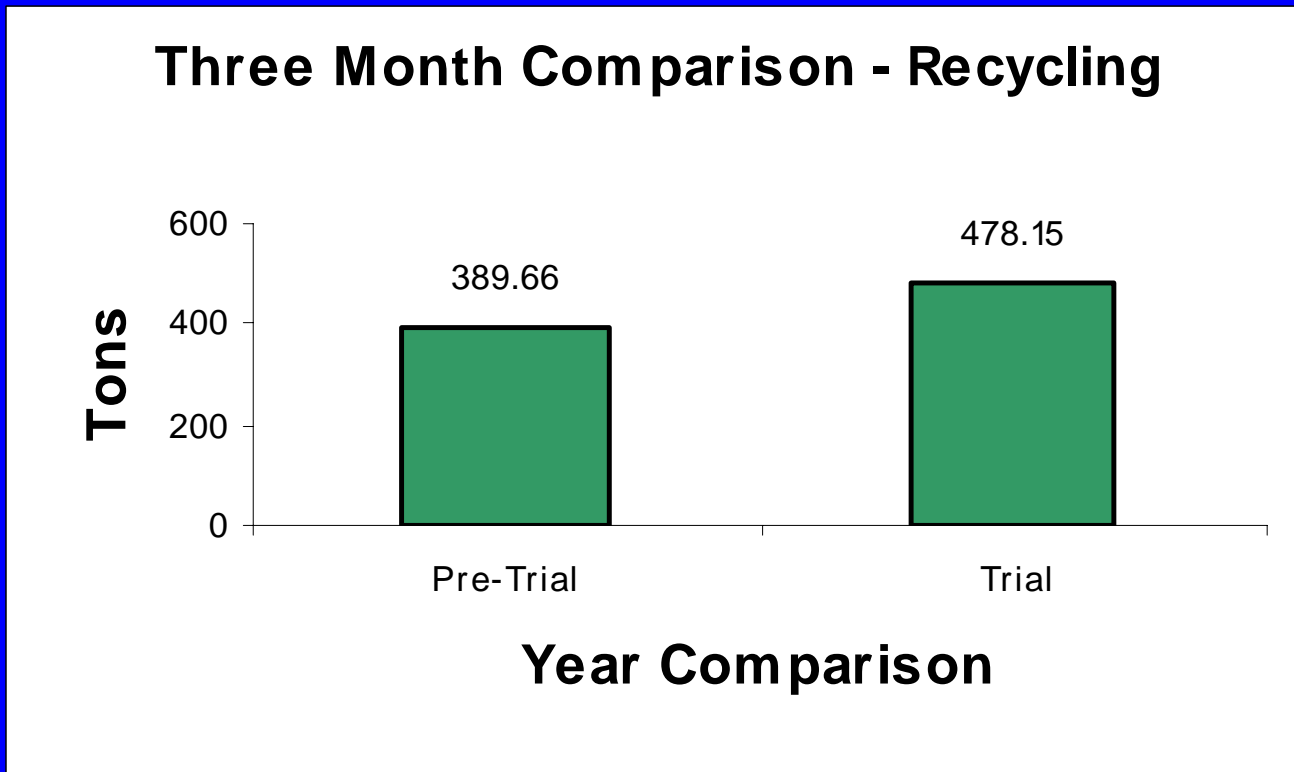


**-38%**

**PRE-PILOT (NOV., DEC., JAN.) TOTAL: 1093 TON**

**DURING PILOT (NOV., DEC., JAN.) TOTAL: 677 TON**

# RECYCLING VOLUMES (IN PILOT):

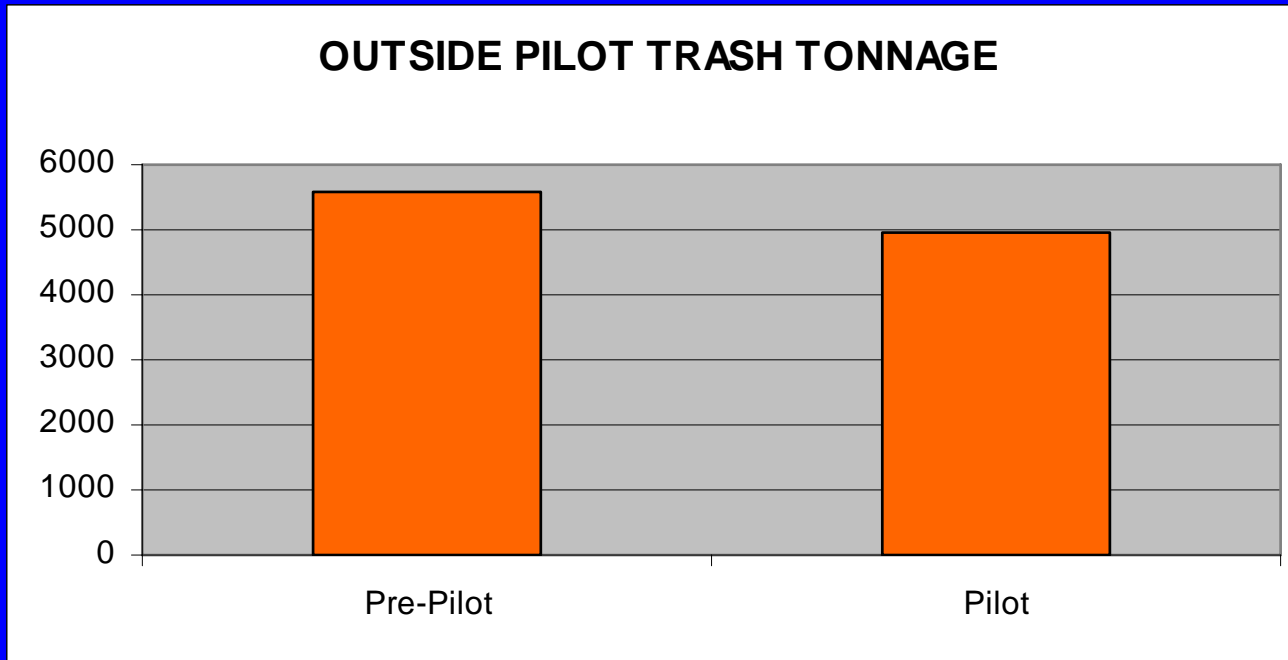


**+23%**

PRE-PILOT (NOV., DEC., JAN.) TOTAL: 390 TON

DURING PILOT (NOV., DEC., JAN.) TOTAL: 478 TON

# WHAT IS THE ECONOMY AFFECT?



**-11%**

PRE-PILOT (NOV., DEC., JAN.) TOTAL: 5,591 TON

DURING PILOT (NOV., DEC., JAN.) TOTAL: 4,965 TON

# OVERALL THOUGHTS ON THE SURVEY



THANK YOU FOR REQUESTING THE PILOT!

IT SHOWS THAT THE CITIZENS  
ARE FIRMLY BEHIND THE PROGRAMS

# SO WHAT'S THE PLAN?



UNANIMOUSLY  
SUPPORTED  
BY SOLID  
WASTE  
COMMISSION

IMPLEMENT AUTOMATED TRASH & AUTOMATED  
SINGLE STREAM RECYCLING CITY-WIDE



# SO WHAT'S THE PLAN CONT.'D?



UNANIMOUSLY  
SUPPORTED  
BY SOLID  
WASTE  
COMMISSION

64 GAL. CART FOR TRASH

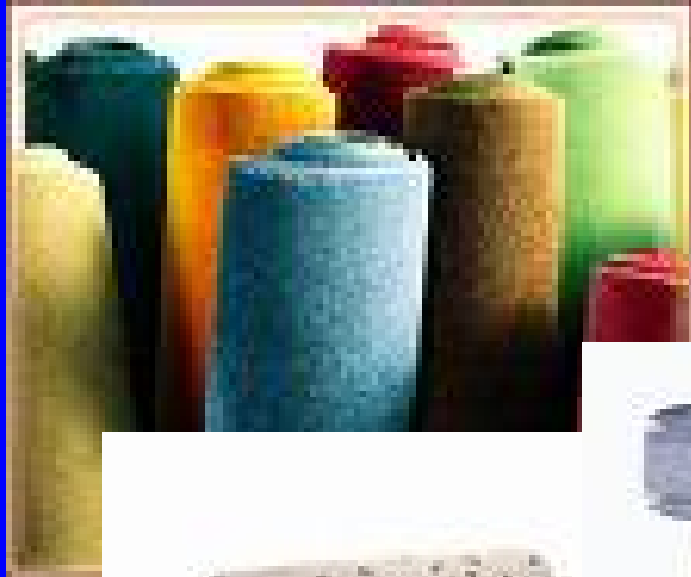
35 GAL. CART FOR TRASH IF REQUESTED

64 GAL. CART FOR RECYCLING

EXTRA 64 GAL RECYCLING CART IF WARRANTED

(NO CHARGE)

# SO WHAT'S THE PLAN CONT.'D?



## BULKY WASTE & CLEANOUTS

UNANIMOUSLY  
SUPPORTED  
BY SOLID  
WASTE  
COMMISSION



CALL AHEAD TO SCHEDULE PICKUP  
(NO CHARGE)

# WHAT TO DO ABOUT EXTRA TRASH?

## REMEMBER THE NUMBERS!



SELL BAGS IN  
NEIGHBORHOOD  
STORES

UNANIMOUSLY  
SUPPORTED  
BY SOLID  
WASTE  
COMMISSION

YEARLY FEE  
FOR AN  
EXTRA CART

# DID SWC RECOMMEND ANYTHING ELSE?

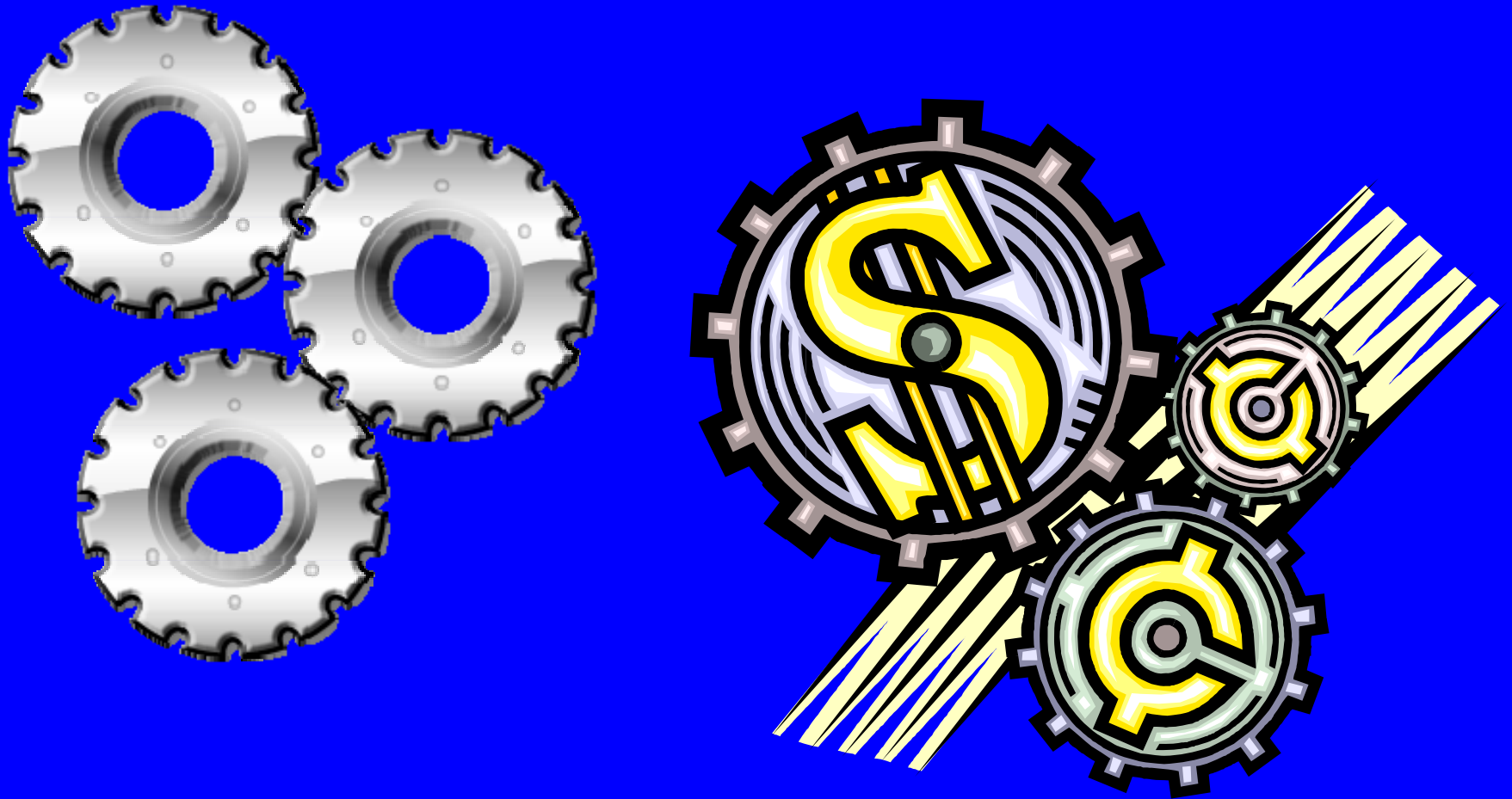


NEGOTIATE A 5 YEAR CONTRACT WITH WMI  
BUT RESERVE THE RIGHT TO BID IF NEGOTIATIONS FAIL.

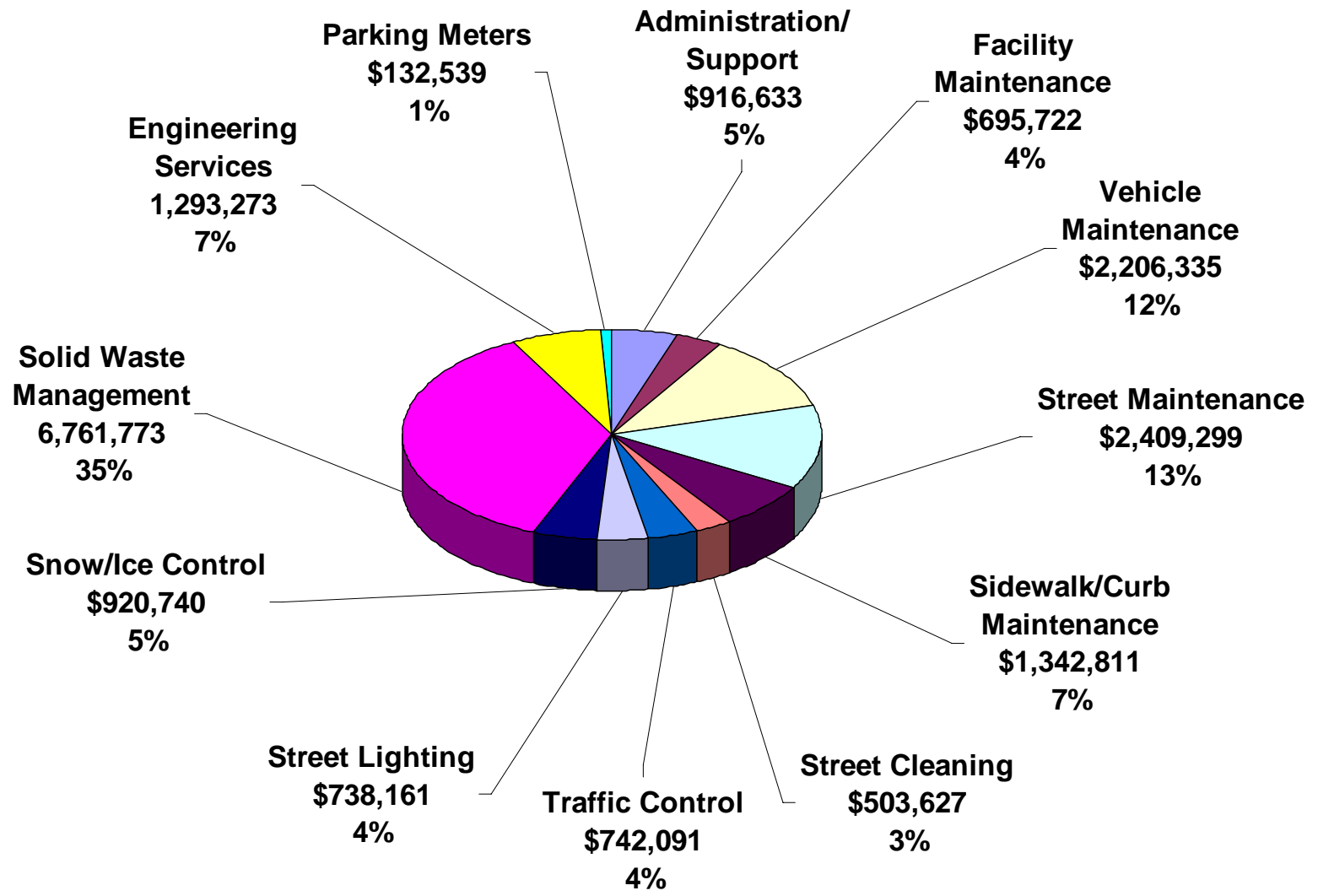
# WHY?

- WMI knows us.
- Newton is a complicated community to learn.
- We have a 21 year successful relationship with WMI.
- The residents of Newton EXPECT good service.
- Trash and recycling missed pickups at .08% of a total 3,000,000 annual stops.
- Trash & rec. is one of the highest rated city provided services.
- WMI has deep resources when we need them.
- We CAN negotiate good pricing!
- If we do not negotiate with WMI we will not be able to take advantage of the potential FY10 savings.

LET'S SHIFT GEARS ...



...AND TALK SOME \$ AND CENTS



# ENVIRONMENTAL AFFAIRS BUDGET

- FY'09 BUDGET - \$6,761,773
- FY'10 BUDGET -STATUS QUO, STAY  
W/CURRENT CONTRACT- \$6,941,399
- DIFFERENCE: +\$179,626

+2.6%





# ENVIRONMENTAL AFFAIRS BUDGET

- FY'09 BUDGET - \$6,761,773
- FY'10 BUDGET – STATUS QUO, STAY W/CURRENT CONTRACT - \$6,941,399
- FY'10 BUDGET – “IMPLEMENT CHANGES BUDGET” - \$5,865,777
- DIFFERENCE FROM '09 – -\$895,996
- DIFFERENCE FROM '10 “STATUS QUO”

**-\$1,075,622 -13% -15%**



# PLEASE NOTE:

- PREVIOUS BUDGETS ASSUME  
A 7/1/09 START
- IF WE MOVE WE COULD BEGIN  
ON 10/1/09
- EVERY MONTH PRIOR TO 10/1 THAT  
PROGRAM IS IN EFFECT, SAVES:



\$90,000



# ANOTHER NOTE:



COMPOSTING @ RUMFORD

# COMPOSTING @ RUMFORD

- We currently compost up to 8,000 tons of material.
- We currently truck about 5,000 tons of residential yard waste to Norton.....



BAD FOR OUR PLANET!!!!

...es composting the  
...thereby saving \$ and  
...ed compost material

“BLACK GOLD”



# WHAT ARE OTHER CITIES DOING?

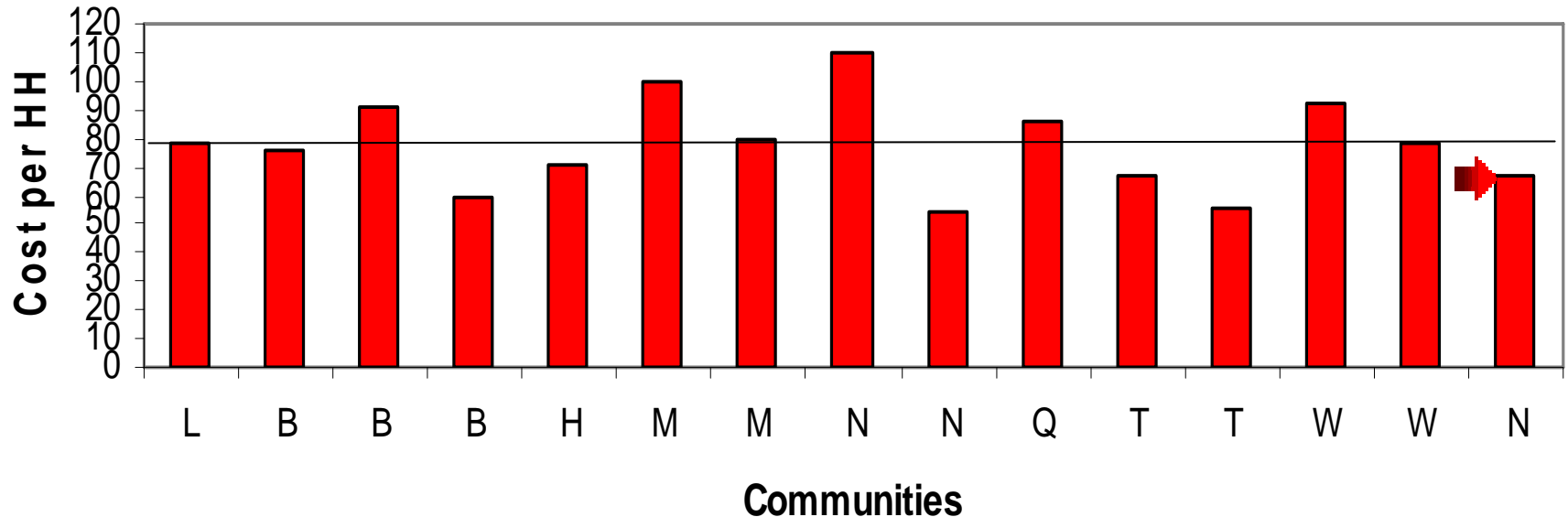
➤ Billerica	auto trash	2008	\$76 / hh	Allied+
➤ Braintree	man. trash	2008	\$91 / hh	Capital*
➤ Burlington	auto trash	2008	\$59 / hh	Allied+
➤ Holden	auto trash	2007	\$71 / hh	Casella
➤ Lexington	man. trash	2007	\$77 / hh	JRM
➤ Mansfield	auto trash	2007	\$100 / hh	WMI
➤ Middletown	auto/PAYT	2007	\$79 / hh	WMI
➤ Norwood	auto trash	2008	\$110 / hh	WMI
➤ North Attl.	man./PAYT	2008	\$54 / hh	WMI
➤ Quincy	man. trash	2008	\$86 / hh	Capital*
➤ Tewksbury	auto trash	2008	\$67 / hh	Allied+
➤ Tyngsboro	auto trash	2008	\$55 / hh	Allied+
➤ Watertown	man. trash	2008	\$92 / hh	Allied
➤ Weymouth	man. trash	2008	<u>\$78 / hh</u>	Capital*
➤ Average:			\$78 / hh	
➤ Newton Negotiations -			<b>\$67/hh</b>	<b>WMI</b>

# WHAT ARE OTHER CITIES DOING?

➤ Billerica	man. / dual	2008	16%	\$62 / hh	Allied+
➤ Braintree	man. / ssr	2008	30%	\$48 / hh!!!	Capital*
➤ Burlington	man. / dual	2008	23%	\$82 / hh/bi	Allied+
➤ Holden	auto / ssr	2007		\$72 / hh/bi	Casella
➤ Lexington	man. / dual	2007		\$77 / hh	JRM
➤ Mansfield	auto / ssr	2008	53%	\$58 / hh	WMI
➤ Middletown	auto/ssr	2007		\$71 / hh	WMI
➤ Norwood	auto / ssr	2008		\$56 / hh/bi	WMI
➤ North Attl.	auto / ssr	2008	30%	\$44 / hh	WMI
➤ Quincy	man. / ssr	2008	21%	\$28 / hh!!!	Capital*
➤ Tewksbury	man. / dual	2008	12%	\$74 / hh/bi	Allied+
➤ Tyngsboro	man. / dual	2008	33%	\$126 / hh/bi	Allied+
➤ Watertown	man. / dual	2008	20%	\$26 / hh	Allied
➤ Weymouth	man. / ssr	2008	24%	<u>\$54 / hh/bi</u>	Capital*
➤ Average:				\$63 / hh	
➤ Newton Negotiations -				<b>\$54/hh</b>	<b>WMI</b>

# WHAT ARE OTHER CITIES DOING?

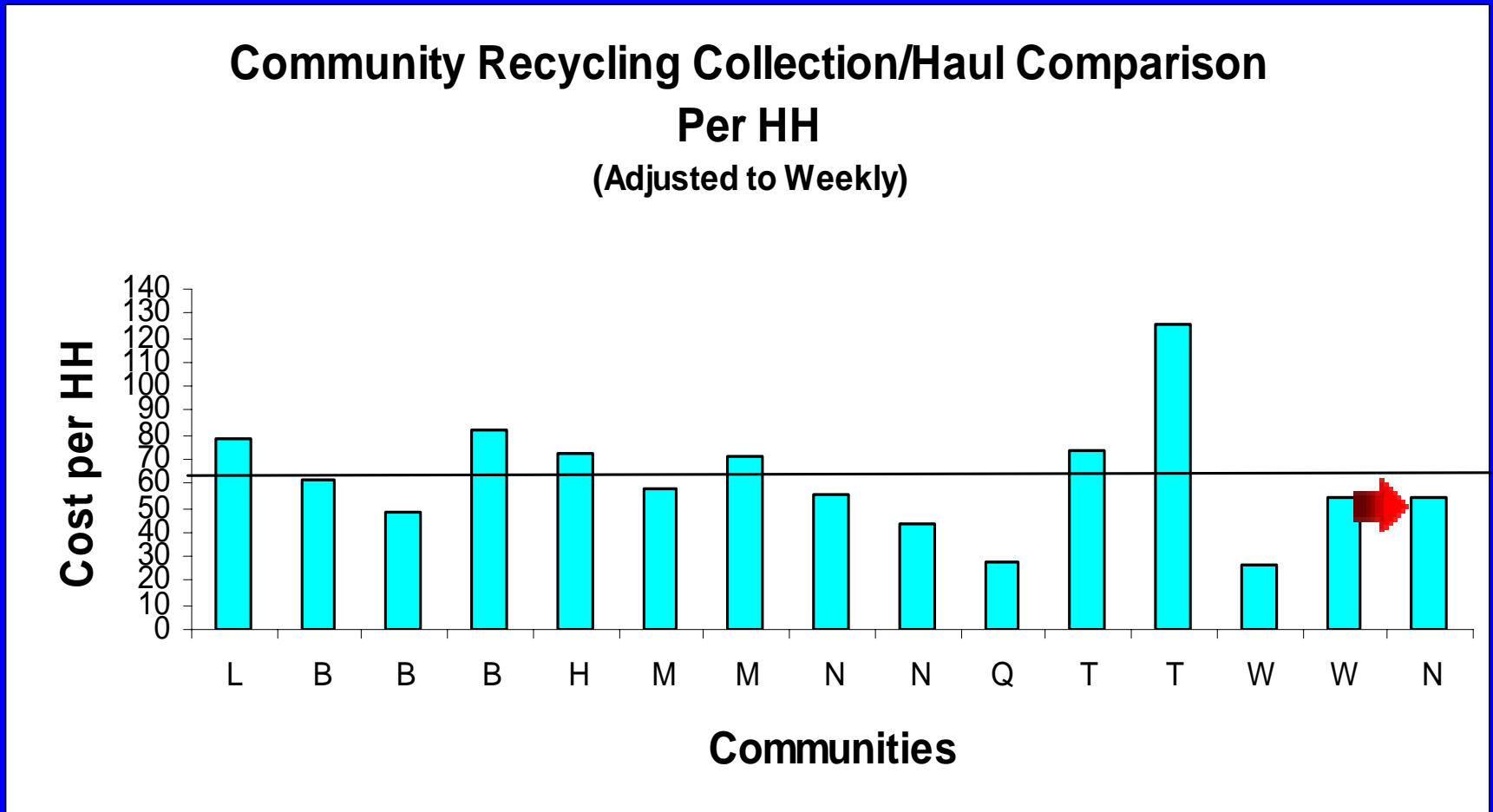
## Community Trash Collection/Haul Comparison Per HH



**Avg. - \$78/hh**

**Newton - \$67/hh**

# WHAT ARE OTHER CITIES DOING?

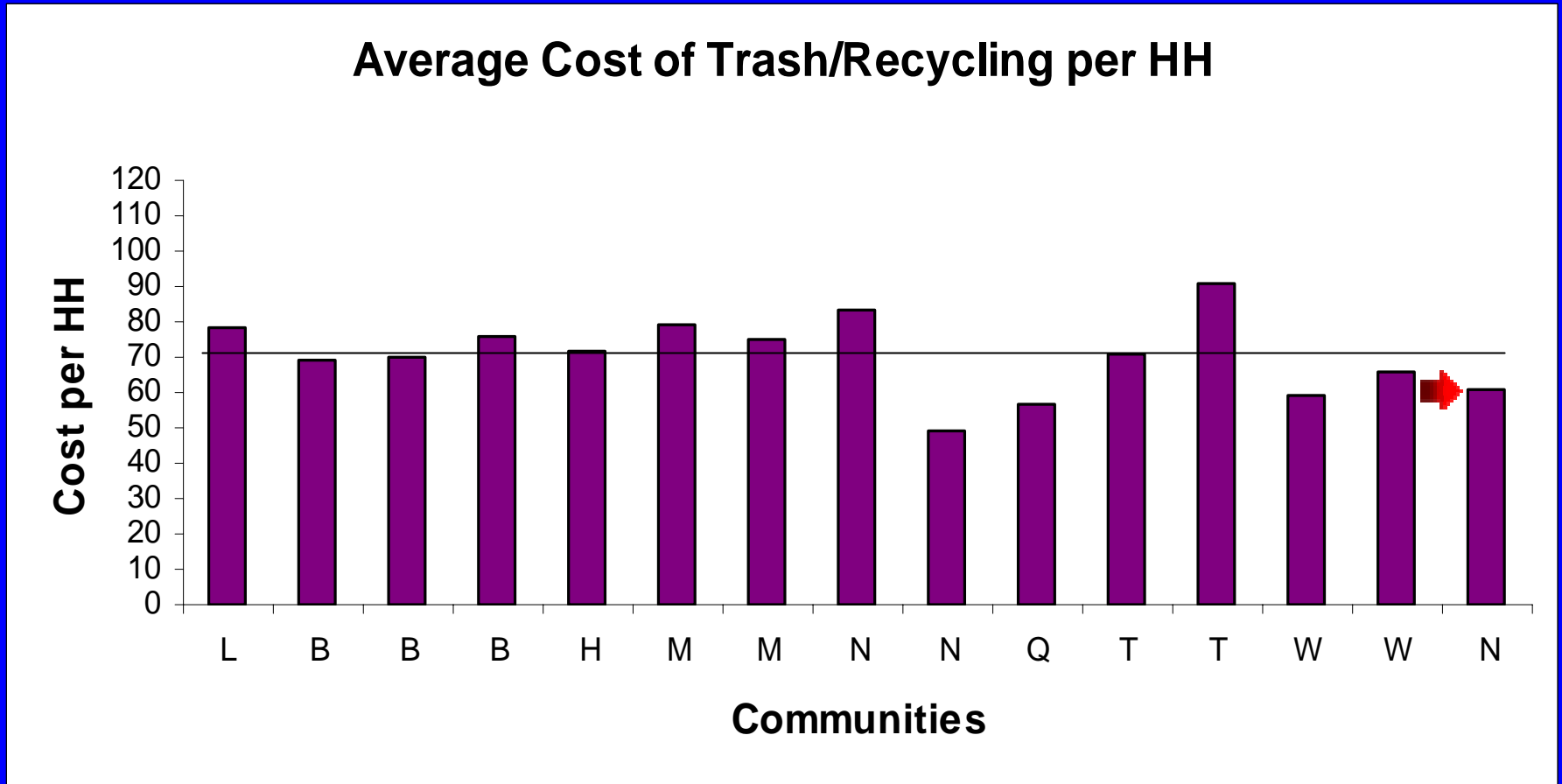


**Avg. - \$63/hh**

**Newton - \$54/hh**



# WHAT ARE OTHER CITIES DOING?



**Avg. - \$71/hh**

**Newton - \$61/hh**

# SO TO WRAP UP!

- 1) The trial is working!
- 2) Great response to our survey!
- 3) 91% overall satisfaction with automated trash!
- 4) 95% overall satisfaction with s.s. recycling!
- 5) Have options for people with extra trash.
- 6) Option for smaller cart size.
- 7) 38% reduction in trash volume!
- 8) 23% increase in recycling!
- 9) \$1.1 million in budget savings next year!
- 10) More efficiently handle our compost!



SO WE ASK, PLEASE SUPPORT OUR PROGRAM!!!!

# THANK YOU!

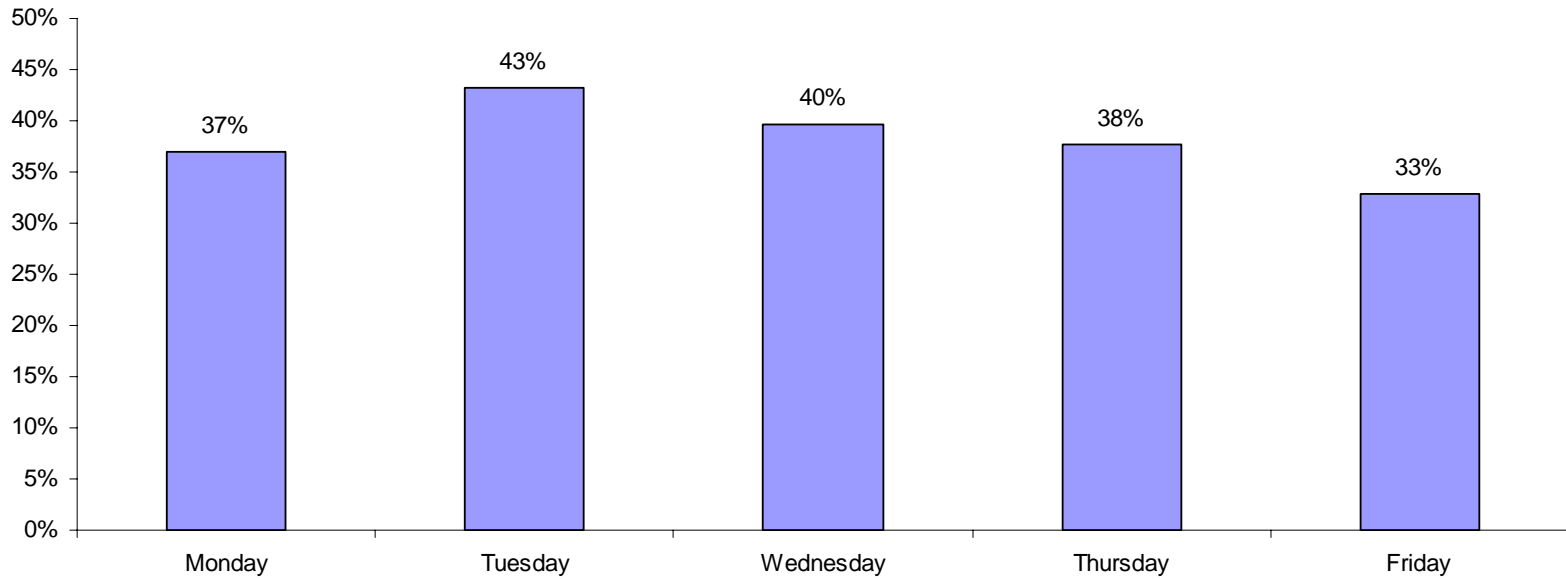


# Percent returned by day



Percent Returned

38 % Average



# TRASH CARTS

<b>Principal</b>	<b>Term</b>	<b>Interest</b>
<b>2,560,250</b>	<b>10.00</b>	<b>3.50%</b>

<b>Year</b>		<b>Principal Payment</b>	<b>Interest Payment</b>	<b>Total</b>
<b>1.00</b>	<b>2,560,250</b>	<b>256,025</b>	<b>89,609</b>	<b>345,634</b>
<b>2.00</b>	<b>2,304,225</b>	<b>256,025</b>	<b>80,648</b>	<b>336,673</b>
<b>3.00</b>	<b>2,048,200</b>	<b>256,025</b>	<b>71,687</b>	<b>327,712</b>
<b>4.00</b>	<b>1,792,175</b>	<b>256,025</b>	<b>62,726</b>	<b>318,751</b>
<b>5.00</b>	<b>1,536,150</b>	<b>256,025</b>	<b>53,765</b>	<b>309,790</b>
<b>6.00</b>	<b>1,280,125</b>	<b>256,025</b>	<b>44,804</b>	<b>300,829</b>
<b>7.00</b>	<b>1,024,100</b>	<b>256,025</b>	<b>35,844</b>	<b>291,869</b>
<b>8.00</b>	<b>768,075</b>	<b>256,025</b>	<b>26,883</b>	<b>282,908</b>
<b>9.00</b>	<b>512,050</b>	<b>256,025</b>	<b>17,922</b>	<b>273,947</b>
<b>10.00</b>	<b>256,025</b>	<b>256,025</b>	<b>8,961</b>	<b>264,986</b>
		<b>2,560,250</b>	<b>492,848</b>	<b>3,053,098</b>

**assumes cost of totter = 47.50**

**# of totters = 53,900.00**