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# **WATER & SEWER INFRASTRUCTURE FUNDING PLAN**

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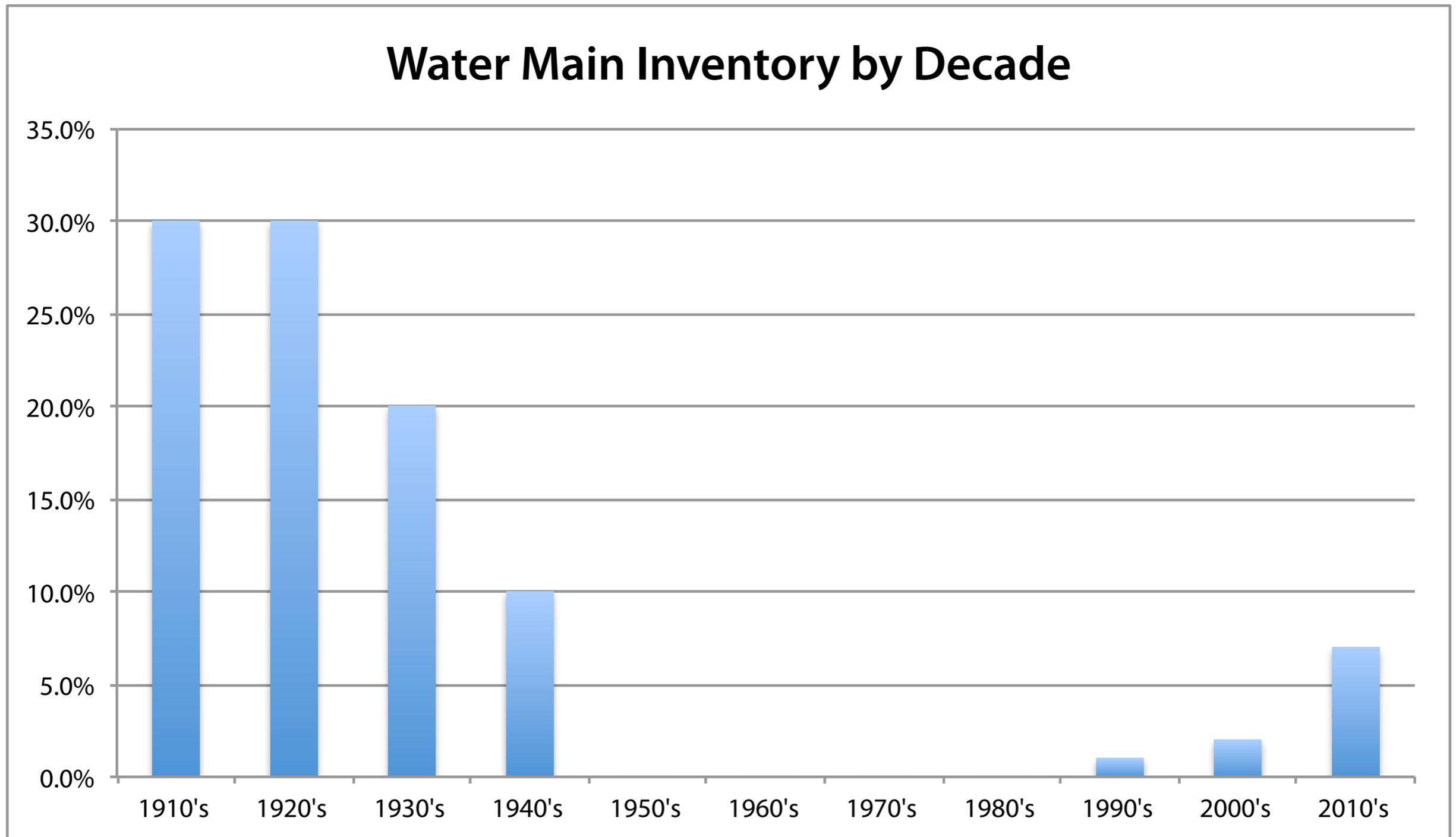
# PURPOSE OF THE FUNDING PLAN

The purpose of this funding plan is to provide the residents of Bexley with an overview of the need for a coordinated plan to repair and replace, as indicated, the City of Bexley's water and sewer infrastructure, and to provide several scenarios for such a plan.



# INFRASTRUCTURE BACKGROUND

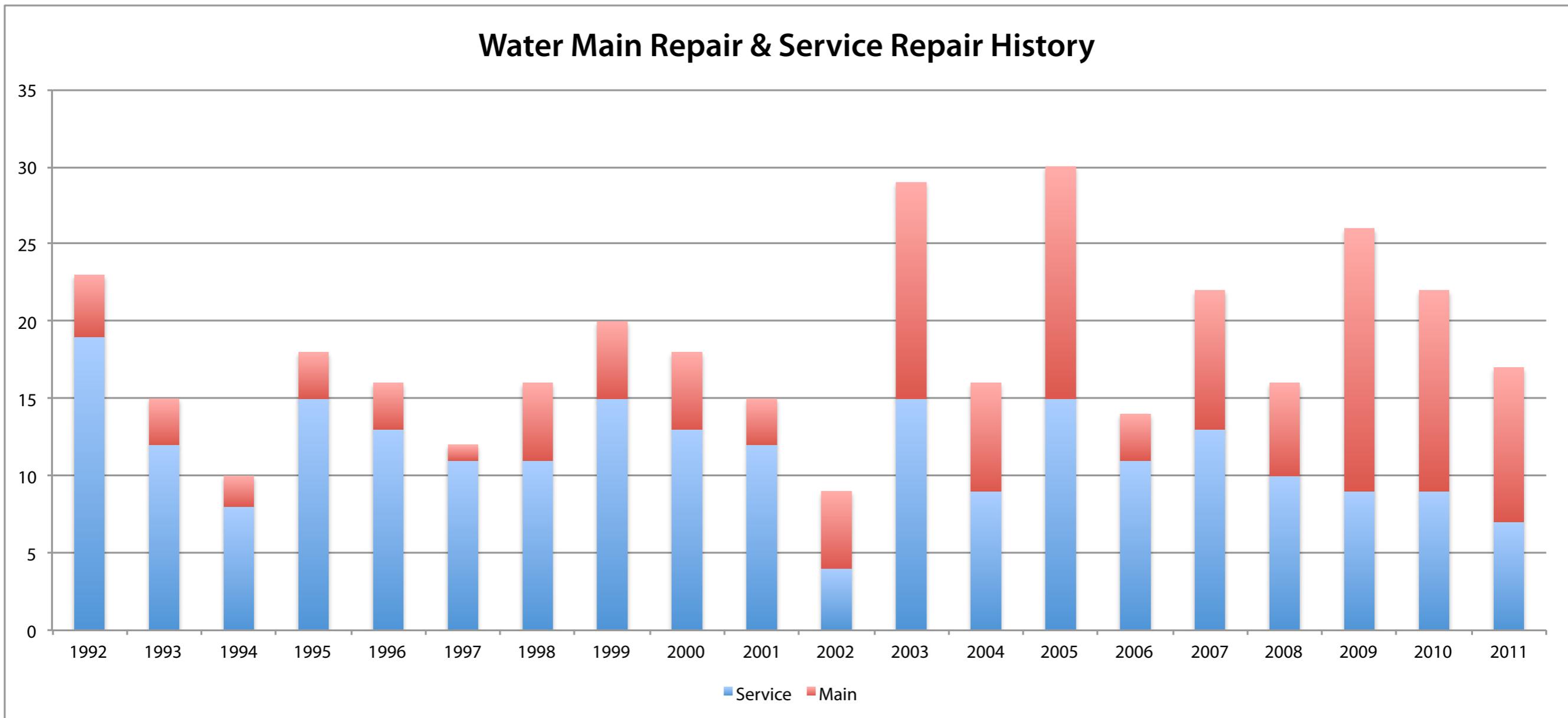
## Water Main Inventory by Decade





# INFRASTRUCTURE BACKGROUND

## Water Main Repair & Service Repair History





# INFRASTRUCTURE BACKGROUND





# REPAIR/REPLACEMENT COSTS

## Bexley Water/Sewer Repair and Replacement Cost Estimates and Infrastructure Assessment

Infrastructure Component	Replacement Cost	Repair Cost	Total Units*	Units/Physical Condition									
				Excellent	%	Good	%	Fair	%	Poor	%	Critical	%
Water Distribution	\$33,250,000	\$30,090,000	243	14	5.8%	0	0.0%	0	0.0%	229	94.2%	0	0.0%
Wastewater Collection	\$63,500,000	\$13,250,000	254	2	0.8%	3	1.2%	24	9.9%	225	92.6%	0	0.0%
Stormwater Collection	\$33,300,000	\$14,230,000	222	0	0.0%	2	0.8%	11	4.5%	209	86.0%	0	0.0%
<b>Totals</b>	<b>\$130,050,000</b>	<b>\$57,570,000</b>											

source: Koch Engineering  
 \* Units are 1,000 linear feet



# REPAIR/REPLACEMENT COSTS

## Current cost estimates:

Water Line Replacement: \$33,250,000

Sanitary Sewer Repair: \$13,250,000

Storm Sewer Repair: \$14,230,000

**Total: \$60,730,000**



# FUNDING SCENARIOS

## Scenario One: Water/Sewer Replacement/Repair Over 30 Years

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2013 Quarterly Water/Sewer Average Capital Fee per Household: 8.74%

Annual Increase: 6.25%

Gross Proceeds Including Bond Receipts from Year 30: ±\$51,000,000

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## Scenario Two: Water/Sewer Replacement/Repair Over 40 Years

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2013 Quarterly Water/Sewer Capital Surcharge: 6.56%

Annual Increase: 5%

Gross Proceeds Including Bond Receipts from Year 30: ±\$51,000,000

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# FUNDING SCENARIOS

## Scenario One: Water/Sewer Replacement Over 30 Years

Quarterly Water/Sewer Combined Bill	# of Households	% of Households	Year 1 % Add-on	Year 1 Capital Surcharge, in \$ Terms	
				Low	High
Less than or equal to \$100	731	17.0%	8.74%	\$0.00	\$8.74
\$101 to \$150	846	19.7%	8.74%	\$8.83	\$13.11
\$151 to \$200	793	18.4%	8.74%	\$13.20	\$17.49
\$201 to \$250	660	15.4%	8.74%	\$17.57	\$21.86
\$251 to \$300	473	11.0%	8.74%	\$21.94	\$26.23
\$301 to \$400	446	10.4%	8.74%	\$26.32	\$34.97
\$401 to \$500	147	3.4%	8.74%	\$35.06	\$43.71
\$501 to \$750	123	2.9%	8.74%	\$43.80	\$65.57
Greater than \$750	80	1.9%	8.74%	\$65.66	
<b>Totals:</b>	<b>4,299</b>	<b>100.0%</b>			



# FUNDING SCENARIOS

## Scenario Two: Water/Sewer Replacement Over 40 Years

Quarterly Water/Sewer Combined Bill	# of Households	% of Households	Year 1 % Add-on	Year 1 Capital Surcharge, in \$ Terms	
				Low	High
Less than or equal to \$100	731	17.0%	6.56%	\$0.00	\$6.56
\$101 to \$150	846	19.7%	6.56%	\$6.62	\$9.84
\$151 to \$200	793	18.4%	6.56%	\$9.90	\$13.11
\$201 to \$250	660	15.4%	6.56%	\$13.18	\$16.39
\$251 to \$300	473	11.0%	6.56%	\$16.46	\$19.67
\$301 to \$400	446	10.4%	6.56%	\$19.74	\$26.23
\$401 to \$500	147	3.4%	6.56%	\$26.29	\$32.79
\$501 to \$750	123	2.9%	6.56%	\$32.85	\$49.18
Greater than \$750	80	1.9%	6.56%	\$49.74	
<b>Totals:</b>	<b>4,299</b>	<b>100.0%</b>			



# FUNDING SCENARIOS

## Scenario Three: Water/Sewer Replacement Over 40 Years @ 10%

Quarterly Water/Sewer Combined Bill	# of Households	% of Households	Year 1 % Add-on	Year 1 Capital Surcharge, in \$ Terms	
				Low	High
Less than or equal to \$100	731	17.0%	10.00%	\$0.00	\$10.00
\$101 to \$150	846	19.7%	10.00%	\$10.10	\$15.00
\$151 to \$200	793	18.4%	10.00%	\$15.10	\$20.00
\$201 to \$250	660	15.4%	10.00%	\$20.10	\$25.00
\$251 to \$300	473	11.0%	10.00%	\$25.10	\$30.00
\$301 to \$400	446	10.4%	10.00%	\$30.10	\$40.00
\$401 to \$500	147	3.4%	10.00%	\$40.10	\$50.00
\$501 to \$750	123	2.9%	10.00%	\$50.10	\$75.00
Greater than \$750	80	1.9%	10.00%	\$75.10	\$0.00
<b>Totals:</b>	<b>4,299</b>	<b>100.0%</b>			



# WHAT OTHER CITIES ARE DOING

<b>City</b>	<b>Special Infrastructure Fee</b>	<b>Amount</b>
Columbus	Storm water Utility; Clean River Surcharge; ERU Charge to Member Communities	Varies - can be in excess of 20% of the bill
Gahanna	Storm water Utility; Capital Improvements	\$12 per quarter for storm water; \$7.03 per 1,000 CF for capital
Reynoldsburg	Storm water Utility	\$6 per quarter