

**Overview of  
Local Facilities**





# City of Henderson Utility Services

## *System Overview*



**The Department of Utility Services is a not-for-profit municipal utility within the City of Henderson.**

**Our mission is to provide vital water and wastewater services to our citizens while protecting the environment, health and prosperity of our community.**



## Drinking water treatment and distribution

- Water Treatment Plant provides 13% of community's drinking water (over 3.2 billion gallons produced annually by the City)
- SNWA provides 87% of community drinking water on wholesale basis (over 21.6 billion gallons produced annually by SNWA)

## Wastewater collection and treatment

- Two Water Reclamation Facilities (7.8 billion gallons treated annually)

## Reclaimed water

- Provides landscape irrigation primarily for Henderson golf courses (2.6 billion gallons produced annually)
  - Golf courses (9), cemetery and highway median landscaping



## **\$1.5 Billion in Department Assets**

### **Water**

- 15 million gallons per day (MGD) water treatment plant
- 1,175 miles of water lines
- 45 reservoirs, 32 pump stations, 11,200 fire hydrants

### **Wastewater**

- 32 MGD Water Reclamation Facility
- 8 MGD Southwest Water Reclamation Facility
- 935 miles of wastewater collection lines
- 16 lift stations, 22,700 manholes

### **Reclaimed Water**

- 43 miles of reclaimed water lines
- 9 reservoirs, 5 pump stations



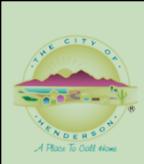
City of Henderson Water Treatment Plant (WTP)



**Kurt R. Segler Wastewater Reclamation Facility (WRF)**

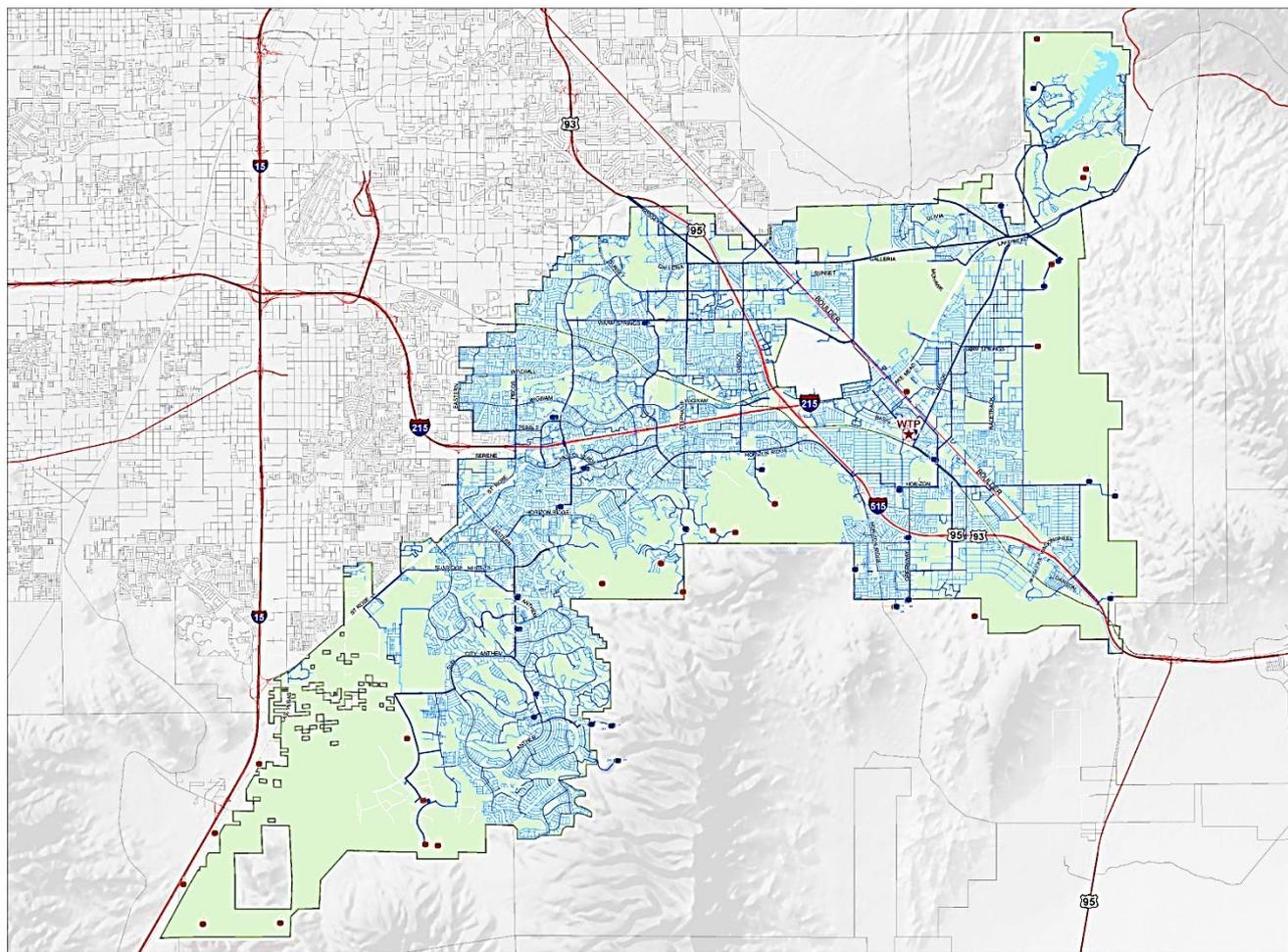


Southwest Water Reclamation Facility (SWRF)

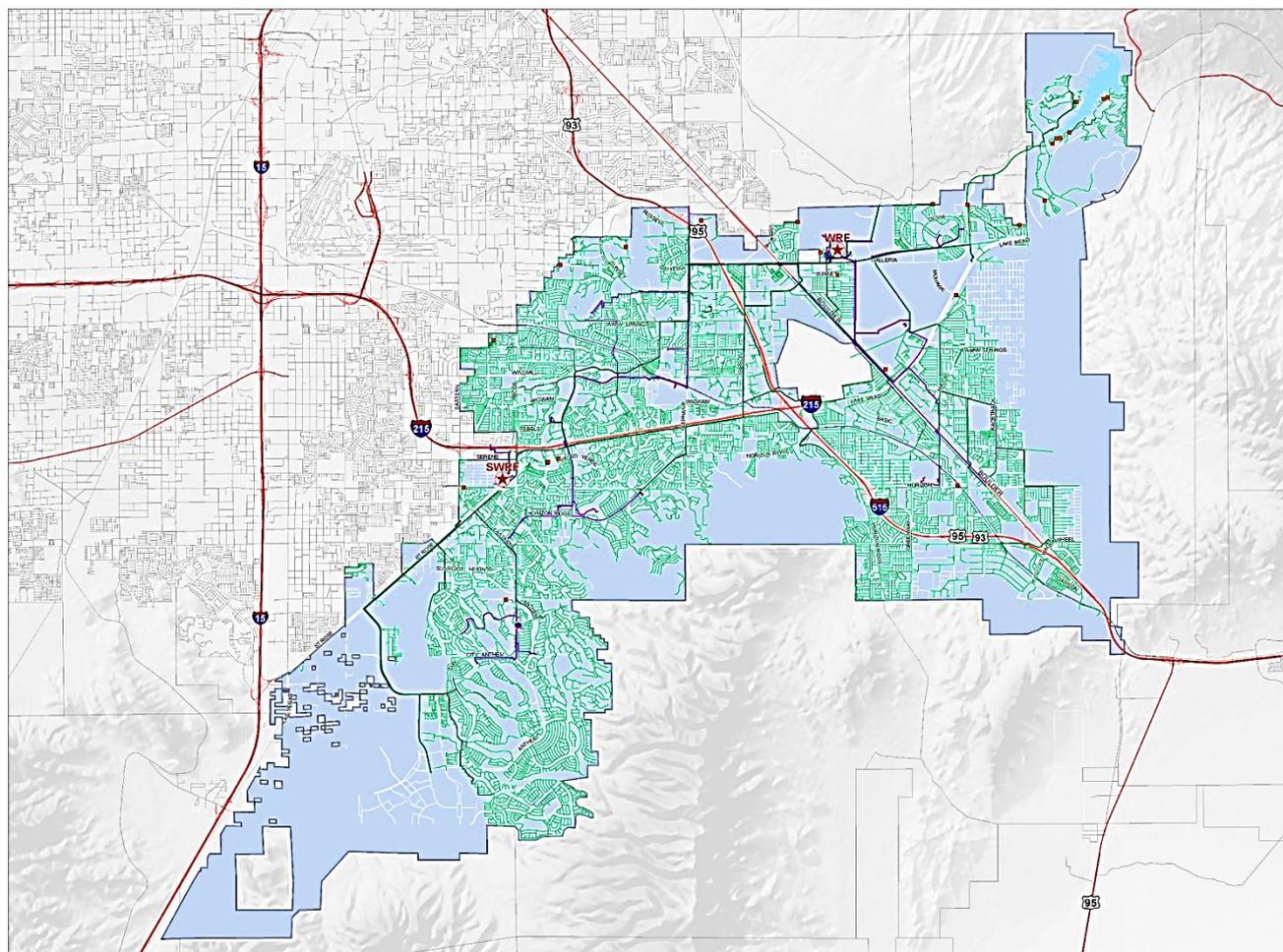


# CITY OF HENDERSON

Department of Utility Services

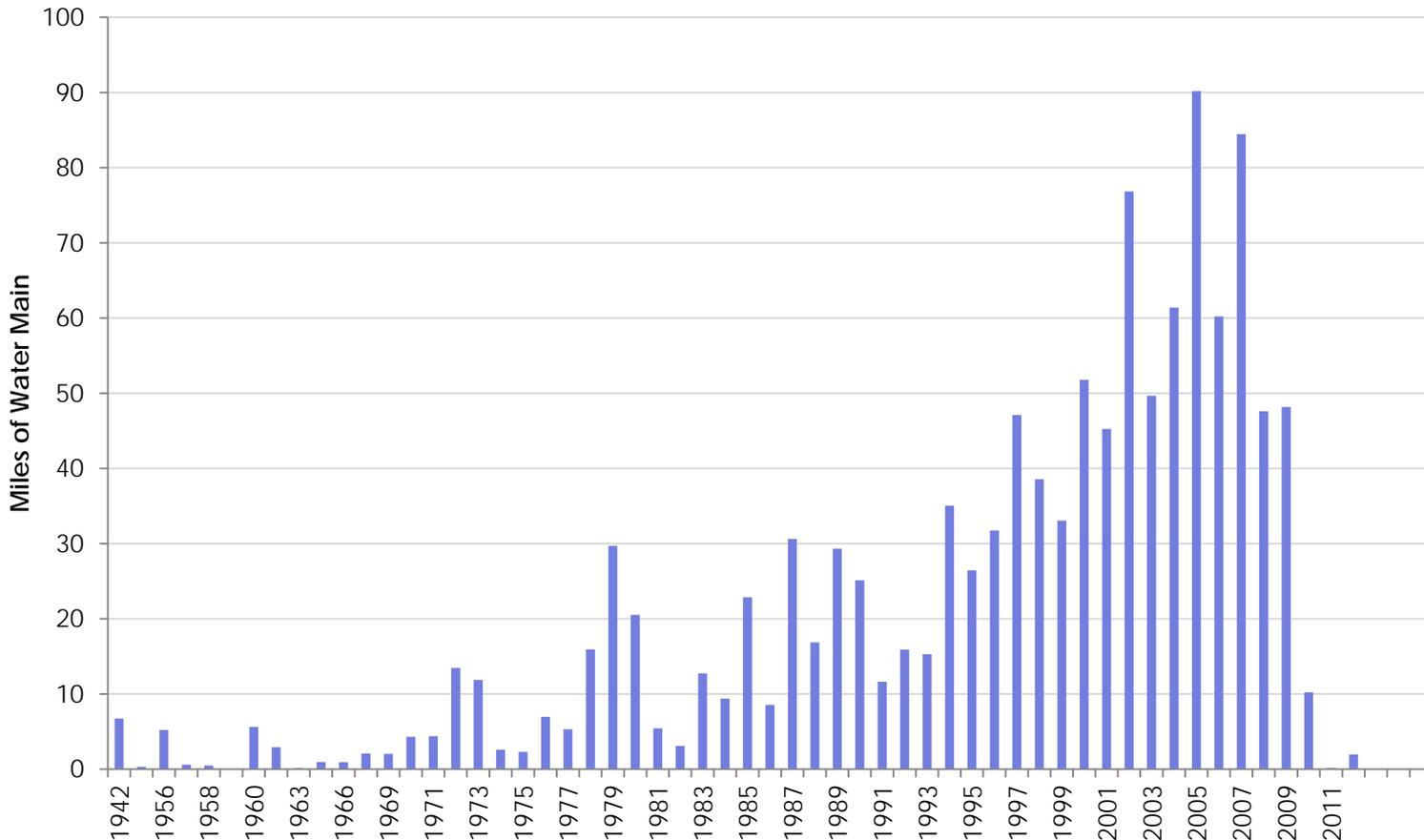


## COH Water Delivery System

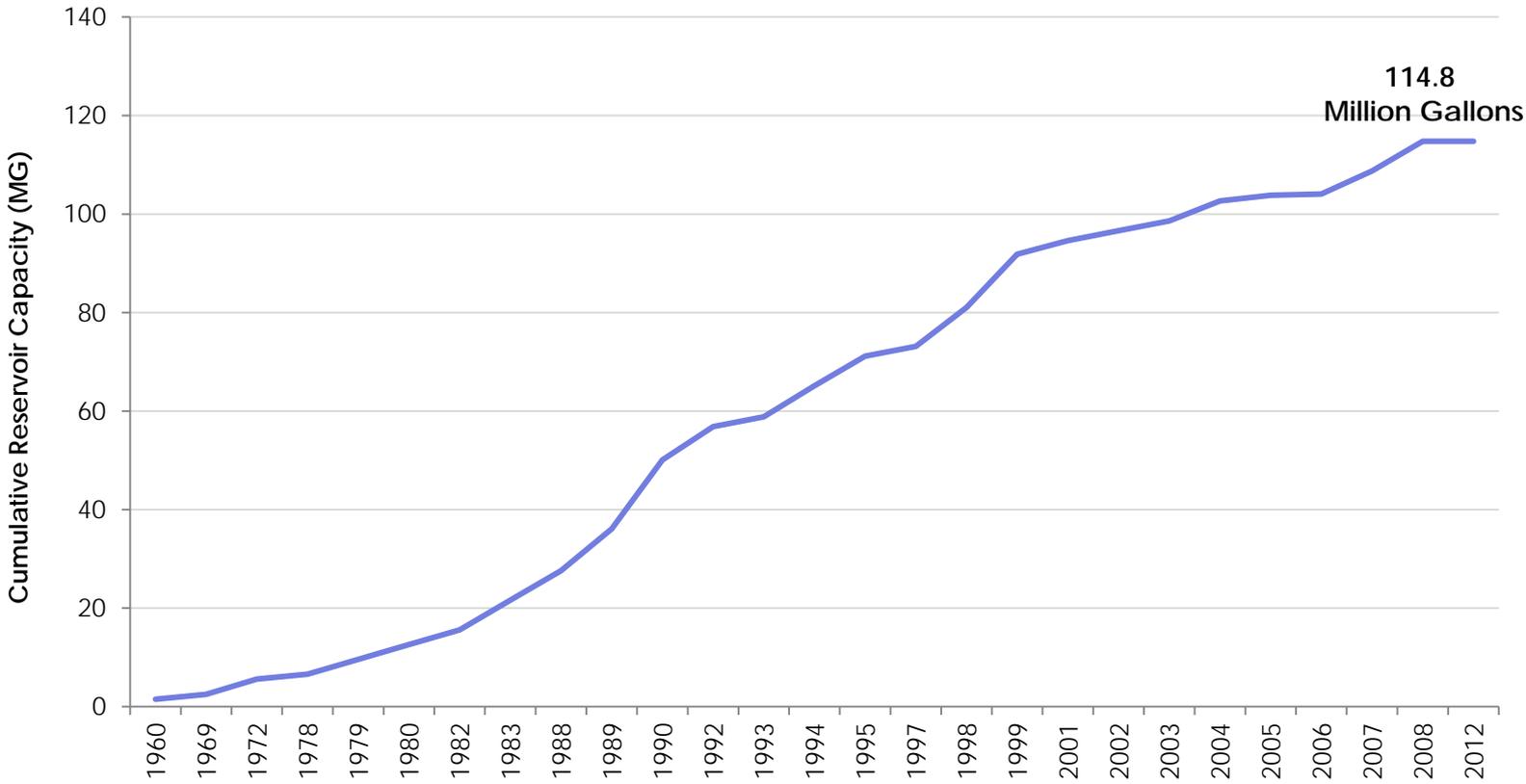


**COH Wastewater Collection System**

Throughout the 1990s, pipeline installation increased to accommodate growth within the city.



**Reservoir capacity was also increased to accommodate additional demands.**





## Water and Sewer Enterprise Funds:

- No revenue derived from the City's General Fund (separate from City's General Fund)
- Financed and operated in a manner similar to private business enterprises
- All costs (operational and capital) are funded by user charges and system development charges (connection fees) and a portion of the water and wastewater ¼ cent sales tax
  - Costs of providing services to the public are financed primarily through user charges
  - System Development Charges have historically funded new infrastructure
- User charge revenues are collected via monthly bills and system development charge revenue is collected as part of the new development process.



## Henderson Rate Setting:

- The Henderson City Charter (Chapter 266, Article II, Sections 2.270 and 2.280) allows the City to collect revenue and provide for operations of the water and sewer utilities within the city.
- Before raising rates, the City of Henderson prepares a water and wastewater financial analysis.
- Henderson City Council approves all rate increases, typically over a two-meeting, 30-day process. (Henderson City Charter, Chapter 266)



**As a public agency, the City of Henderson is required by law to inform the public of any changes to rates:**

- **Business/trade association notifications (NRS 237.080)**
  - Notification of trade and business associations that are likely to be affected at least 15 working days before rates hearing.
  - Notifications are printed in local newspapers.
- **Business Impact Statements (NRS 237.090)**
- **Nevada's Open Meeting Law (NRS 241.020)**
  - Agendas posted at least three days in advance in public places
  - Posted on website
  - Provided to those who request notification
  - Posted in locations throughout city

**Public input is welcomed throughout rate processes; Henderson often utilizes citizen committees for feedback.**

**85,000 accounts**

**Average Single Family Residential Bill\*: \$67.09**  
*(including SNWA pass through charges)*

Metered water charges =	\$24.44
Service Charge =	11.70
SNWA Regional Charges =	<u>9.30</u>
Total Water-related Charges:	\$45.44
Average sewer bill =	\$21.65
<b>TOTAL UTILITY BILL</b>	<b>\$67.09</b>

\*Based on a 3/4" meter and 14,000 gallons per month



# CITY OF HENDERSON

## Department of Utility Services



City of Henderson Utility Services  
 Customer Service (702) 267-5900  
 Pay your bill online: www.HendersonKnowsH2O.org

Page 1 of 1

<b>Billing Date:</b> 5/17/2012	<b>Previous Balance:</b> \$47.64
<b>Account Number:</b> [REDACTED]	<b>Payment Received:</b> -\$47.64
<b>Account Name:</b> [REDACTED]	<b>Current Charges:</b> \$51.69
<b>Service Address:</b> [REDACTED]	<b>Other Credits and Charges:</b> \$0.00
<b>Service Period:</b> [REDACTED]	
<b>Due Date:</b> 6/7/2012	<b>TOTAL AMOUNT DUE:</b> \$51.69

Thank you for using an automatic payment option.

### Special Message

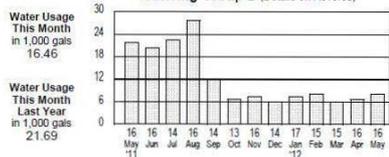
The summer watering schedule is now in effect. See back of bill for further details.

### Account Detail

<b>WATER - Res Metered Charges</b>	
3,200 gallons at \$1.46 per 1000 gallons	\$4.67
2,800 gallons at \$1.46 per 1000 gallons	\$4.09
1,188 gallons at \$1.96 per 1000 gallons	\$2.33
1,040 gallons at \$1.96 per 1000 gallons	\$2.04
WTR Service Charge	\$11.70
<b>Metered Water Services Total</b>	<b>\$24.83</b>
<b>Sewer - Residential Charges</b>	
Sewer Base Service Charge	\$4.07
Sewer Usage Charge	\$17.58
<b>Sewer Services Non Metered Total</b>	<b>\$21.65</b>

### Water Usage

Watering Group B (Details on Reverse)



<b>Regional Charges</b>	
SNWA Commodity	\$2.47
SNWA Infrastructure	\$2.67
SNWA Reliability Surcharge	\$0.07
<b>Regional Charges Total</b>	<b>\$5.21</b>

<b>Charges Due by 6/7/2012</b>	<b>\$51.69</b>
<b>Balance Forward Due Immediately</b>	<b>\$0.00</b>
<b>Total Amount Due</b>	<b>\$51.69</b>

### Consumption Detail

Location	Meter #	Svc Type	Meter Size	Previous Read	Current Read	Units of Consumption	1000 Gallons
200049100	07724377	WTR	3/4	3494	3505	11	8,228

IGESP#5:T017:000496:001:0000:COH-100

See reverse for convenient payment options. If mailing please allow 5 days.



City of Henderson - Utility Services  
 PO Box 95011  
 Henderson, NV 89009-5011  
 ELECTRONIC SERVICE REQUESTED

Account Number: 4300140000
<b>Do Not Pay:</b> \$51.69
Total Amount will be deducted from your account on 6/7/2012.

CITY OF HENDERSON UTILITY SERVICES  
 PO BOX 95011  
 HENDERSON, NV 89009-5011

8301000004300148580607120000051694

### City of Henderson Potable Water Volume Charge (Residential Metered Charges)

Residential customers are charged for water usage via a four-tiered inclining block rate structure. As the usage block increases, the unit price or rate for the block increases.

Rate Tier (in gallons) (SFR ¾" or less)	Per 1000 gallons
First Tier (up to 6,000)	\$1.46
Second Tier (6,001-16,000)	\$1.96
Third Tier (16,001-30,000)	\$2.57
Fourth Tier (over 30,000)	\$3.63

### City of Henderson Monthly Water Service Charges

Monthly water service charges assist in paying fixed expenses associated with operating and maintaining the public water system. The monthly water service charge for a ¾" or less single family residential (SFR) account is \$11.70 per month, and increases based on meter size.

### City of Henderson Sewer Basic Service and Sewer Usage Charges

Basic sewer service charges assist in paying fixed expenses associated with operating and maintaining the municipal sewer system. The sewer usage charge is based on water consumption. SFR accounts are charged a flat monthly rate of \$21.65, which is comprised of the base service charge and usage charge.



# CITY OF HENDERSON

## Department of Utility Services



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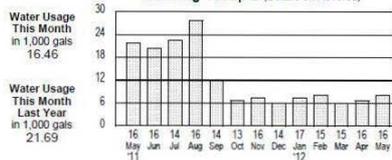
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Watering Group B (Details on Reverse)



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(QESP)45:T017:000436:001:0000:COH-100

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CITY OF HENDERSON UTILITY SERVICES  
 PO BOX 95011  
 HENDERSON, NV 89009-5011

83010000043001485806071200000051694

### SNWA Regional Commodity Charge

Calculated at \$0.30 per 1,000 gallons of water consumed. The funds that are collected are used to improve water quality and enhance the reliability of the water system. This charge became effective on Nov. 5, 1996.

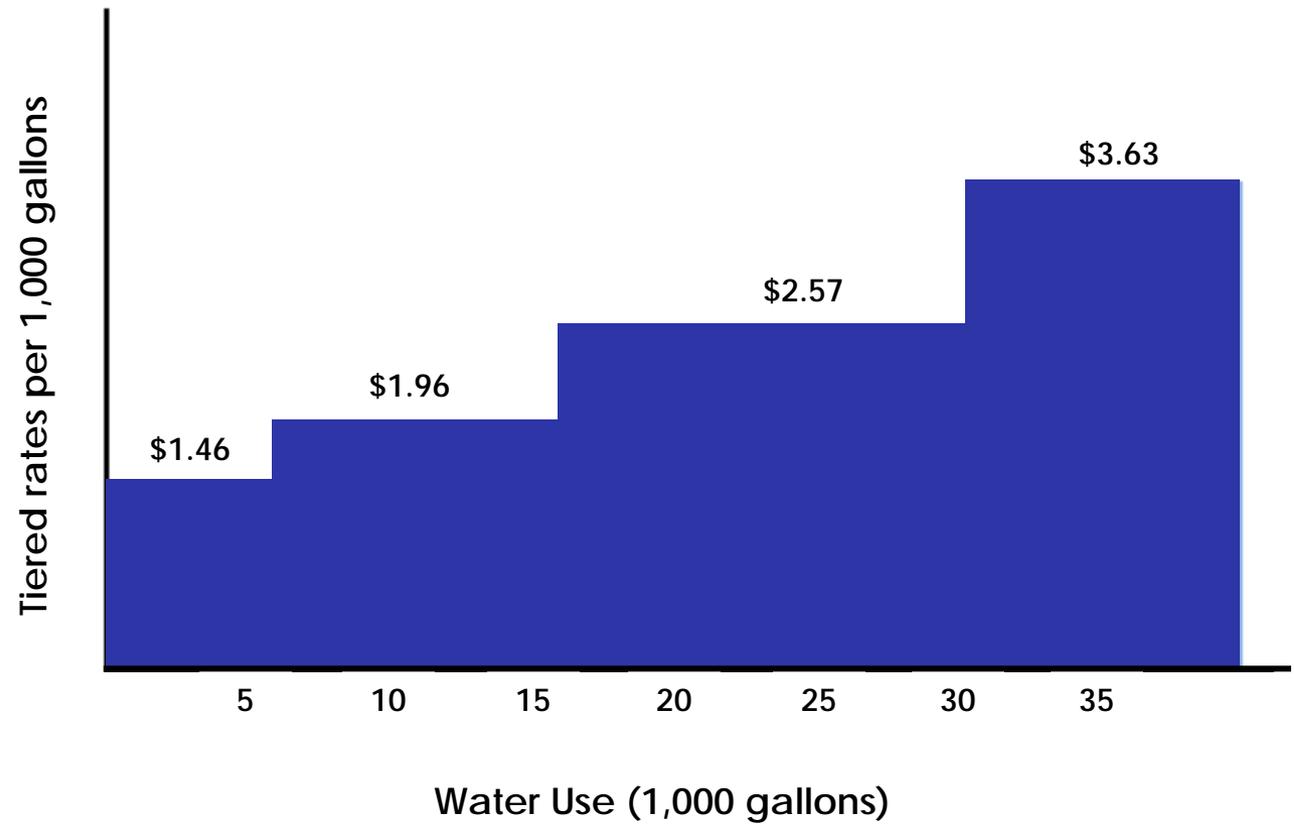
### SNWA Reliability Surcharge

Calculated as a percentage of the collective total of your monthly water service charge, volume charge and regional commodity charge. The current percentage rate applied on monthly bills is 0.25 percent for residential customers and 2.5 percent for all others. This charge became effective on March 1, 1998.

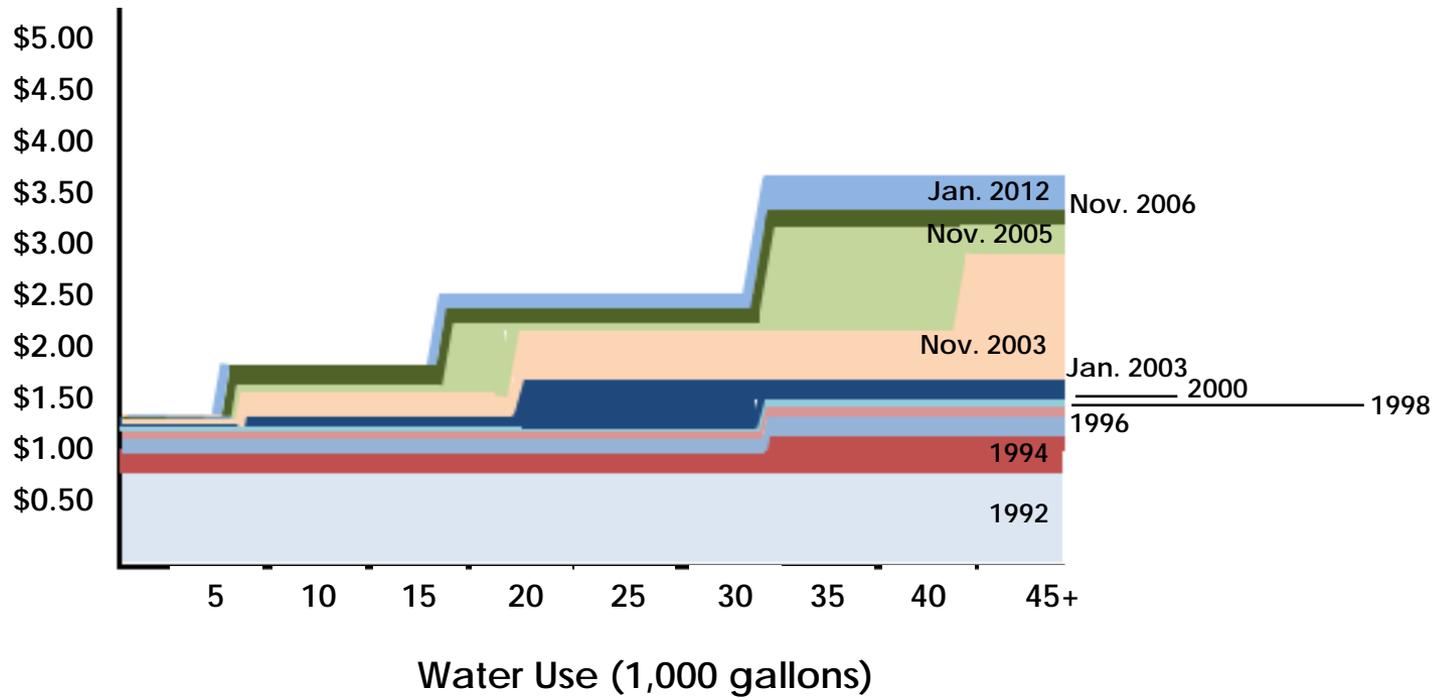
### SNWA Infrastructure Surcharge

This new charge is based on the size of a customer's water meter. For a typical single family residence, this equates to approximately \$5 per month. This charge became effective May 1, 2012 and is used to fund improvements to water treatment and transmission infrastructure, including Lake Mead Intake No. 3, which is currently under construction.

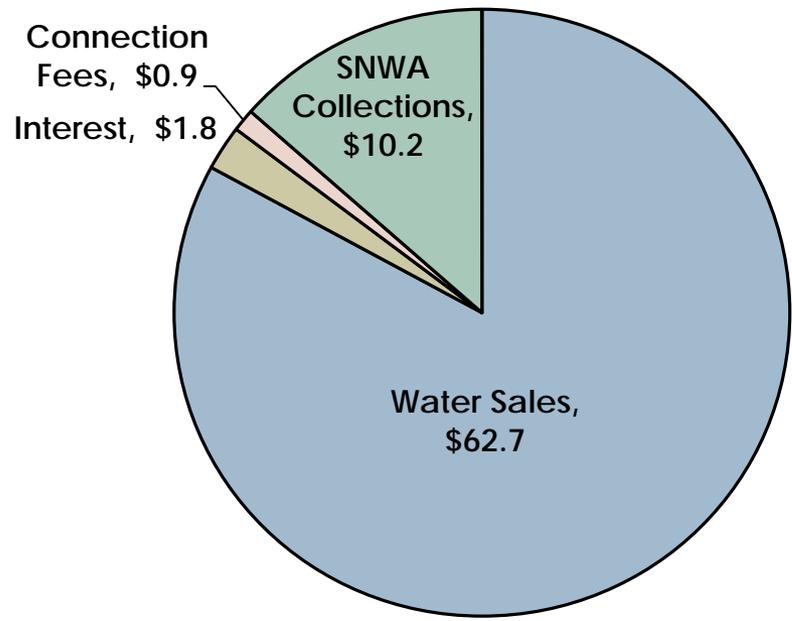
Current water rates for a ¾ -inch meter



## Historic Rate Structures

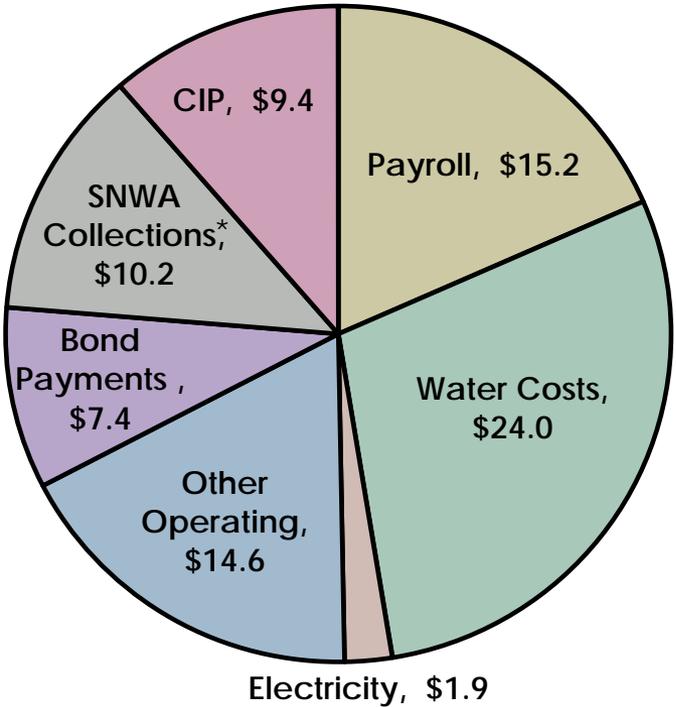


## 2012/2013 City of Henderson Sources of Funds



**Total Collections; \$75.6 million**

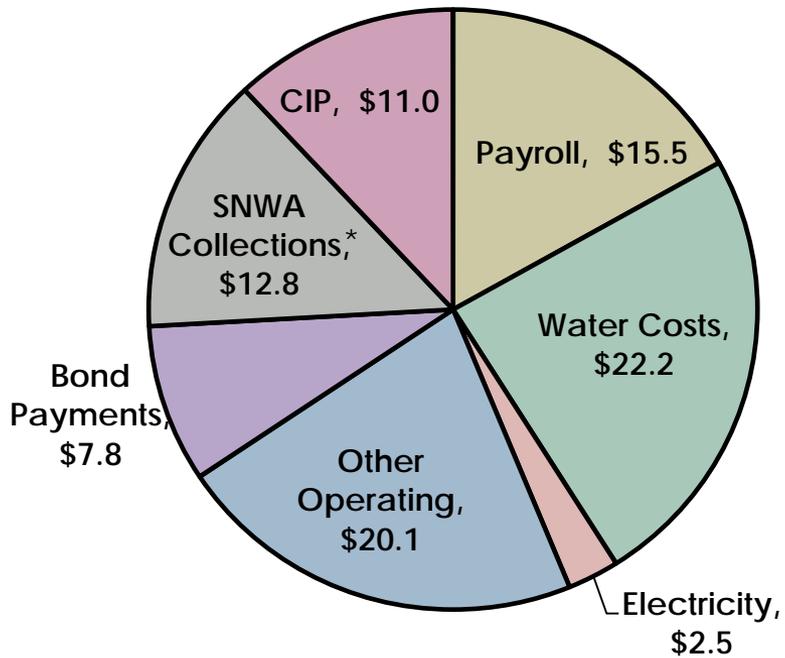
## 2012/2013 City of Henderson Uses of Funds



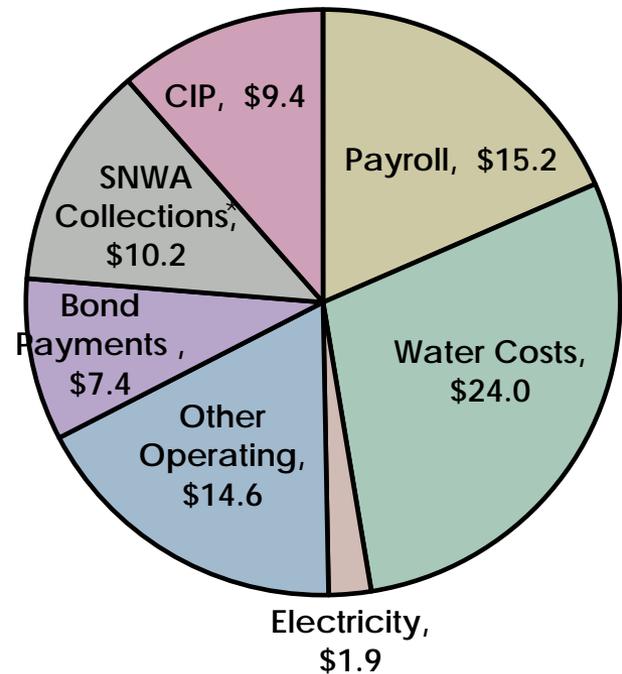
Total Uses: \$82.7 million

\*Includes Henderson new connection charges

## Use Comparisons



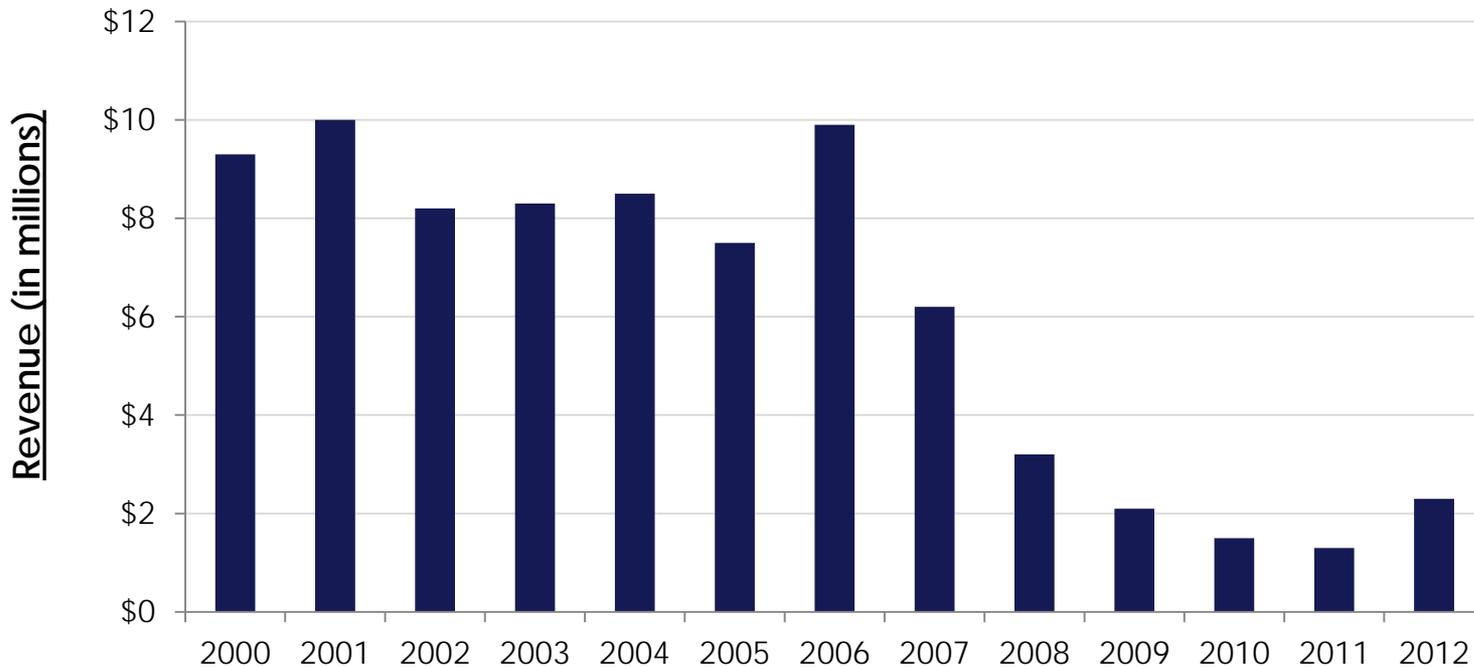
2007/2008  
Total Uses: \$91.9 million



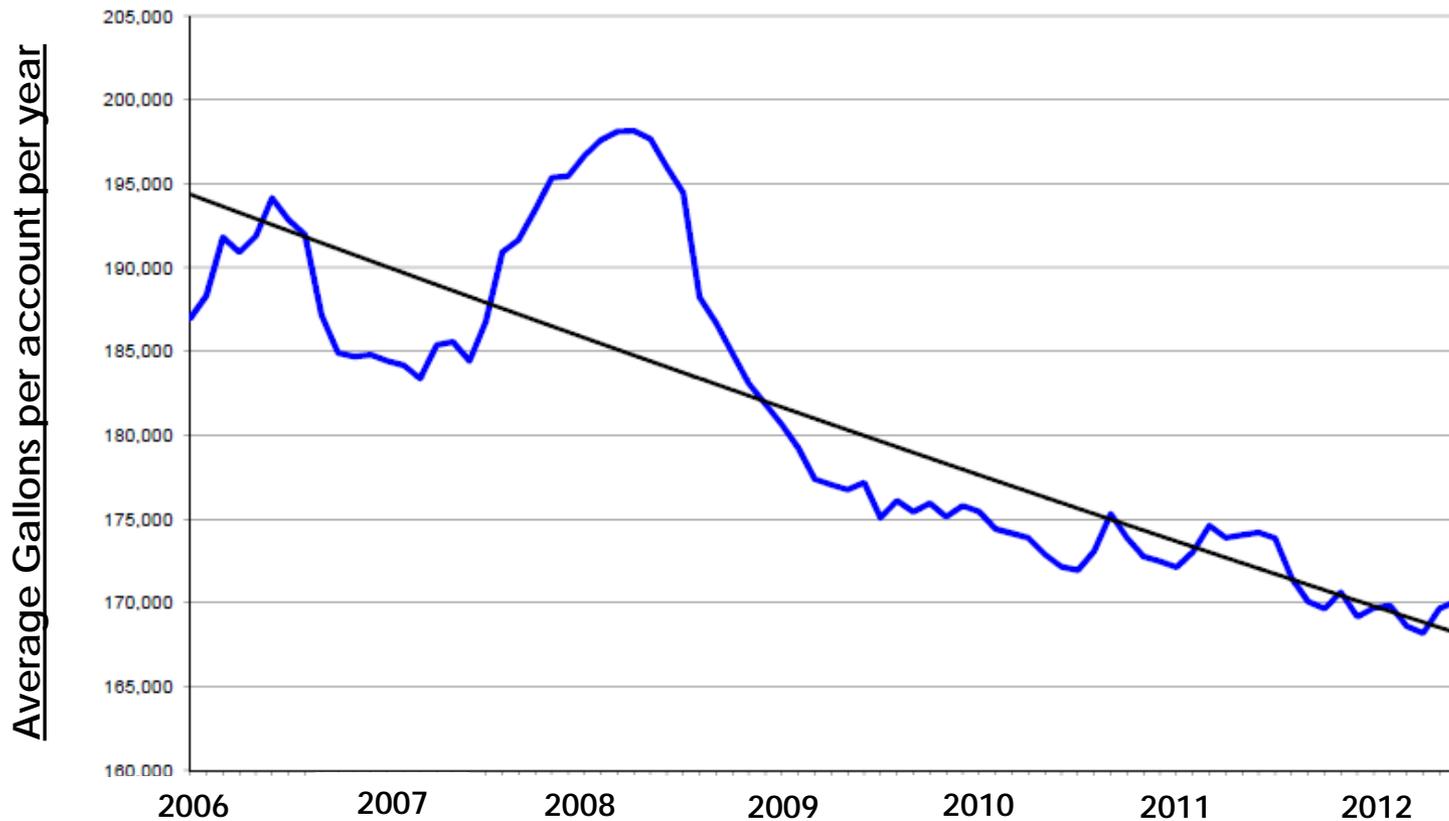
2012/2013  
Total Uses: \$82.7 million

\*Includes Henderson new connection charges

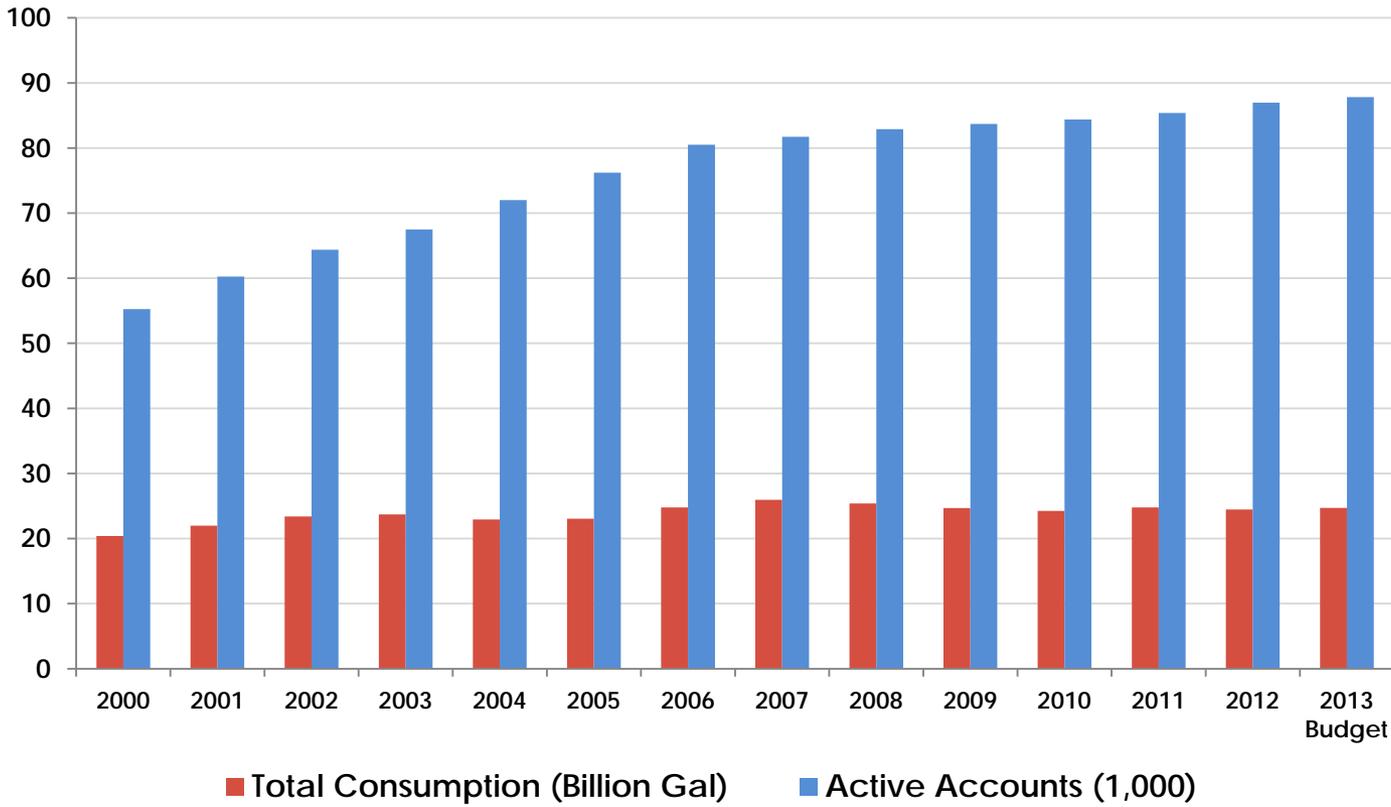
**Current economic conditions have led to a decline in system development charge revenues.**



## Average Single Family Residential Water Use Jan 2006 – Jun 2012



Despite the addition of new accounts over the past decade, water use has essentially remained flat.





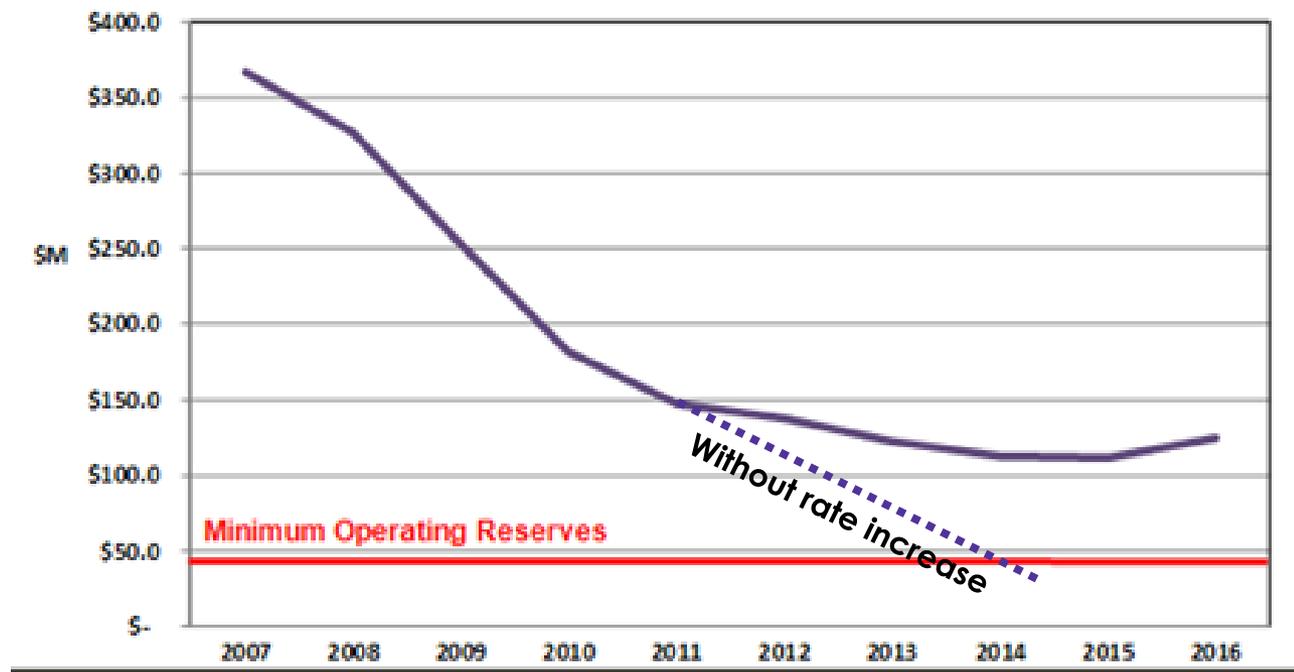
The City of Henderson City Council recently approved a package of four consecutive annual water and wastewater revenue increases (effective January 2012 through January 2015).

- \$3.2 million each year
- Equates to 4% per year

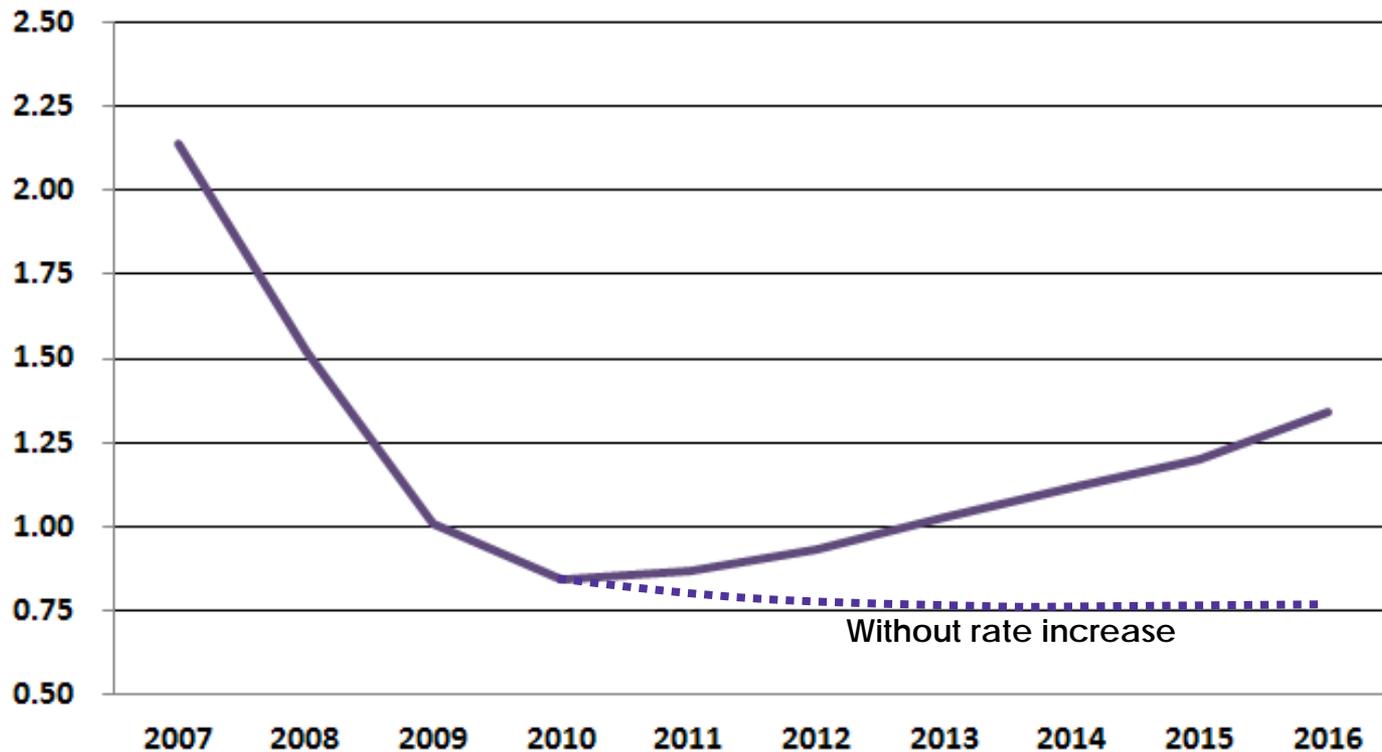
Recently approved rate increases aim to:

- Address utility reserves and debt ratio issues with revenue enhancements
- Increase consumption fees for all higher use water customers
- Increase service charges for all customers

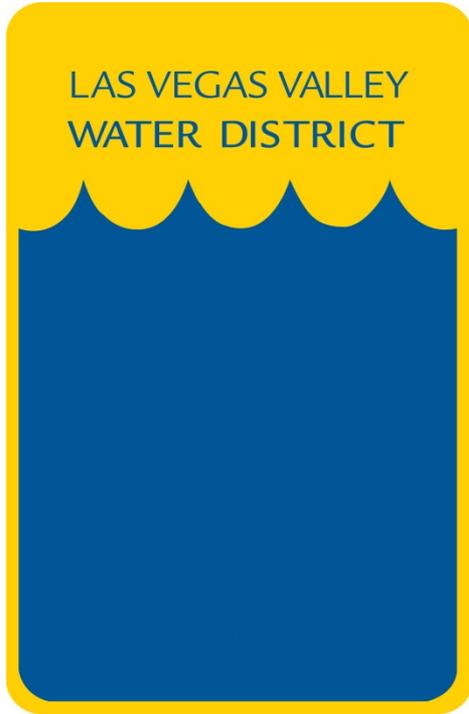
The rate increase will help to ensure working capital remains above minimum reserve levels and....



Ensure debt service coverage ratio will return to acceptable levels.



# Questions?



# Las Vegas Valley Water District

## *System Overview*

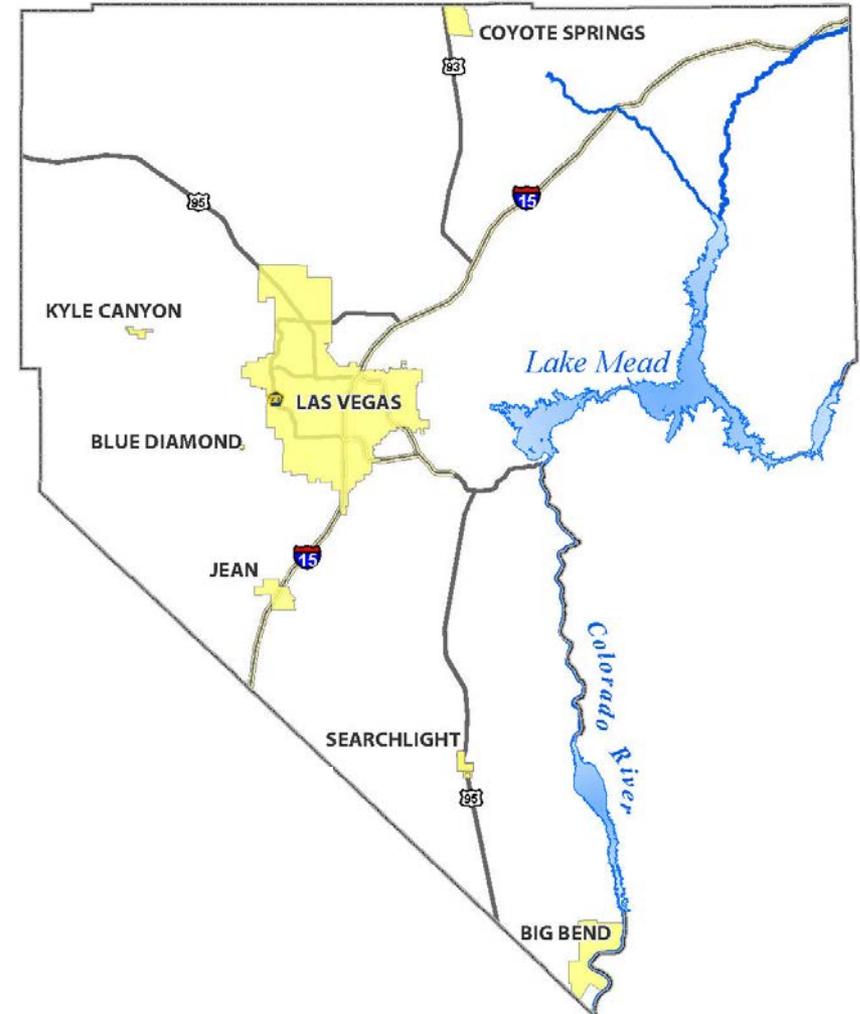


# LAS VEGAS VALLEY WATER DISTRICT

The Las Vegas Valley Water District provides drinking water to customers in Las Vegas and unincorporated Clark County.

## LVVWD MISSION

Partner to provide reliable, quality water, ensuring the sustainability of our desert community and serving our customers responsibly.





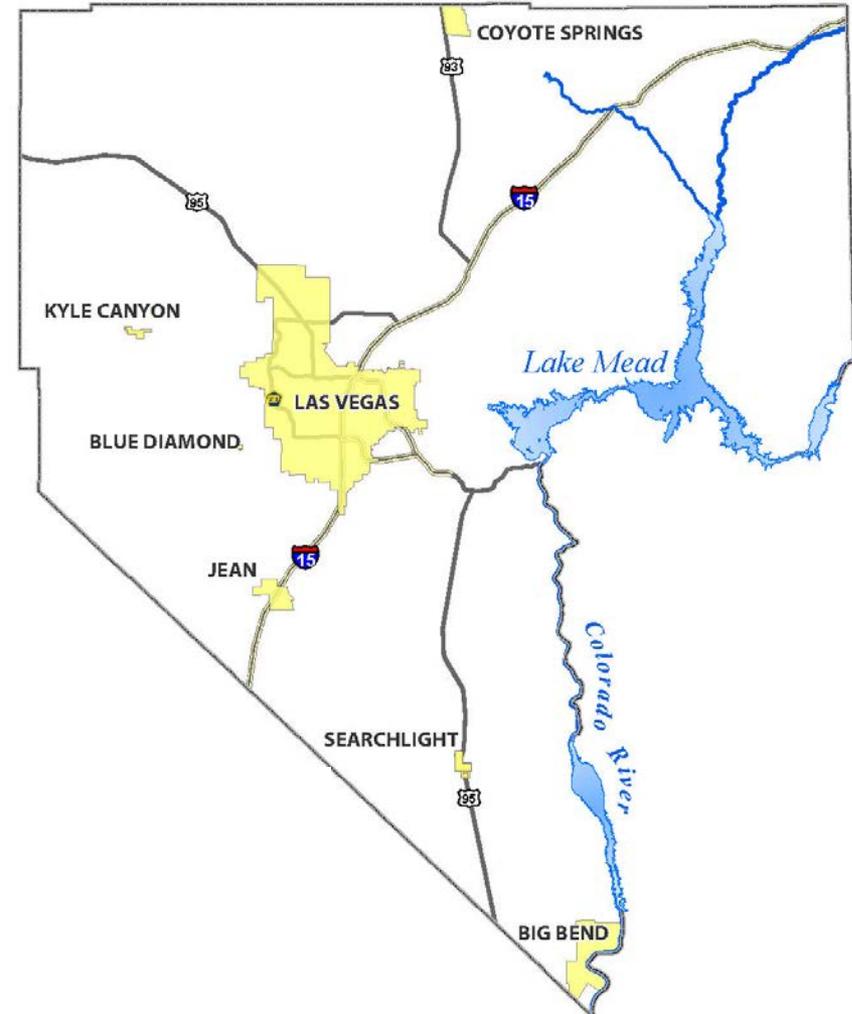
# LAS VEGAS VALLEY WATER DISTRICT

Total Accounts: 356,000

The LVVWD also owns and/or operates small systems on behalf of rural users.

- Kyle Canyon (419 accounts)
- Blue Diamond (137 accounts)
- Searchlight (333 accounts)
- Big Bend (2,077 accounts)
- Jean (40 accounts)
- Coyote Springs

The systems maintain their own rate structures, facilities and operating budgets.





## WATER DELIVERIES

### POTABLE WATER

- Delivers drinking water to Las Vegas' residents and businesses (more than 103 billion gallons each year)

### RECLAIMED WATER

- Delivers reclaimed water to golf courses and large turf areas (more than 1.4 billion gallons each year serving 19 golf courses)

### GROUNDWATER

- Maintains more than 40,000 acre-feet of local groundwater rights



## System Assets

### Water

- 4,500 miles of pipeline
- 68 reservoirs, 58 pump stations
- 916 million gallons capacity

### Reclaimed Water

- 30 miles of pipeline
- 2 reservoirs, 5 pump stations

### Groundwater

- 76 production wells
- 27 artificial recharge wells

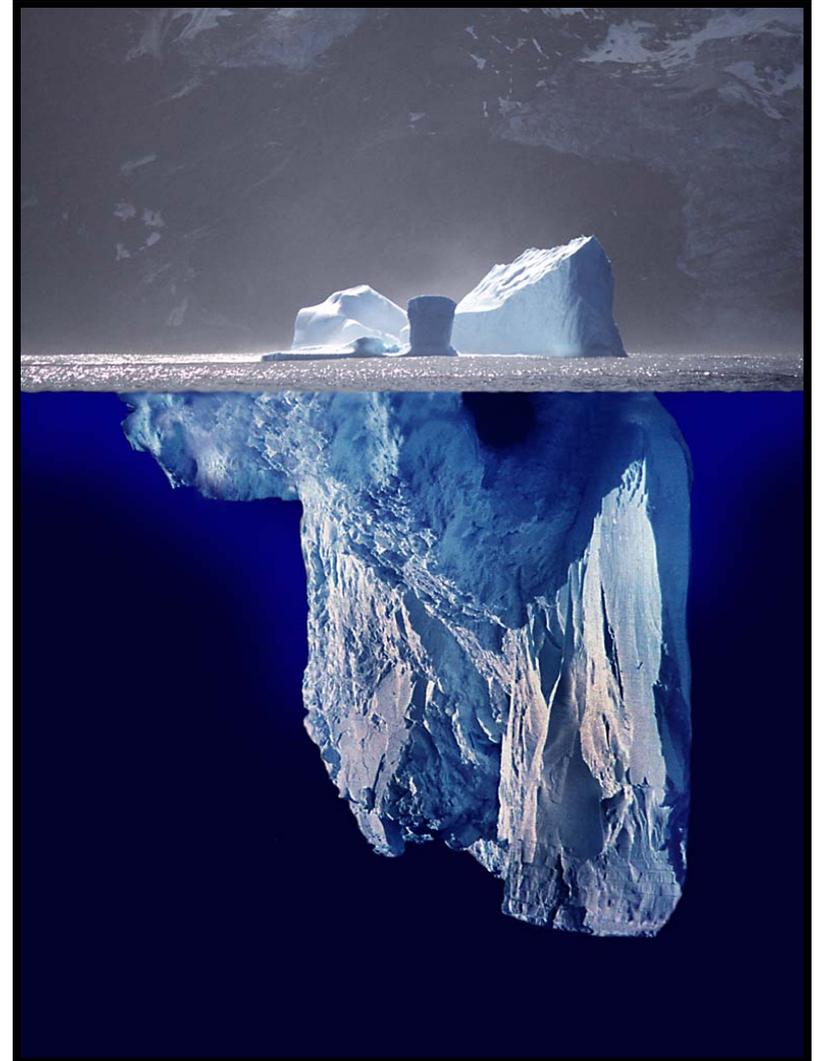


# LAS VEGAS VALLEY WATER DISTRICT

The majority of LVVWD's infrastructure is below ground.

Production Infrastructure (20%)

Distribution Infrastructure (80%)





# LAS VEGAS VALLEY WATER DISTRICT

Production infrastructure includes pumping stations, reservoirs, wells and related infrastructure.



Spring Mountain and Durango Pump Station



# LAS VEGAS VALLEY WATER DISTRICT



Tropical Reservoir



# LAS VEGAS VALLEY WATER DISTRICT

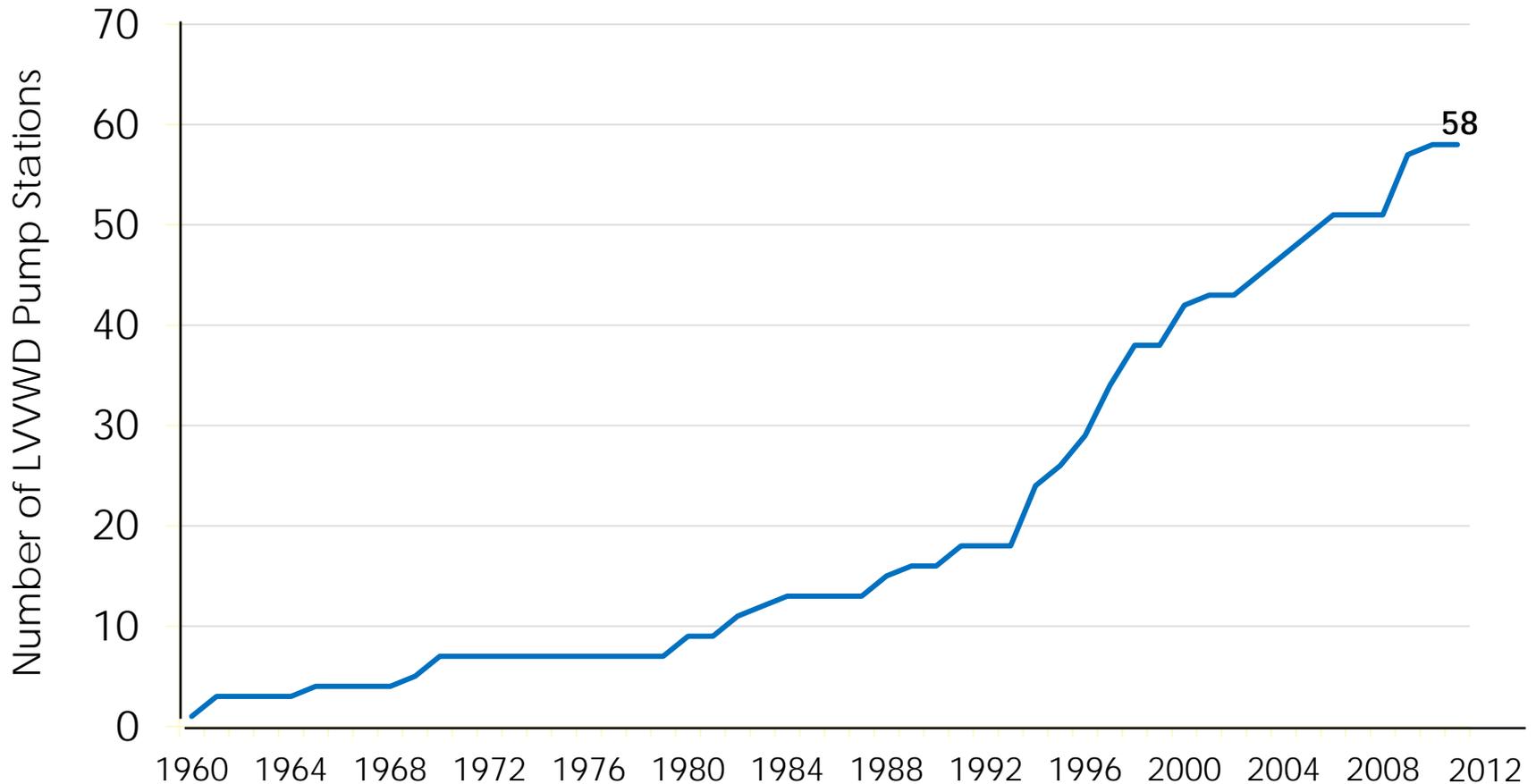


Distribution infrastructure includes laterals and service lines.



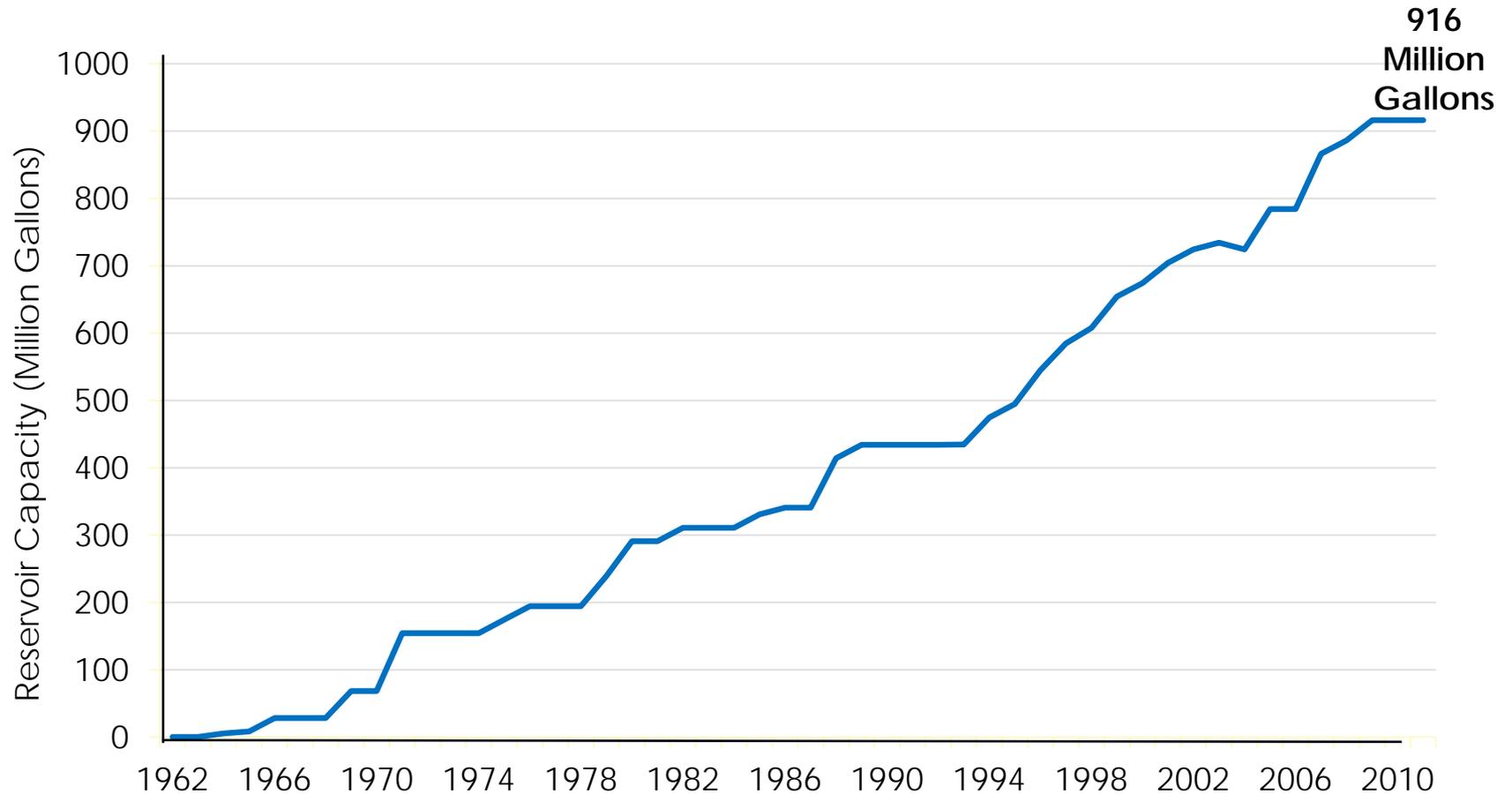
# LAS VEGAS VALLEY WATER DISTRICT

Growth in the late 1990s and early 2000s required the construction of new pump stations





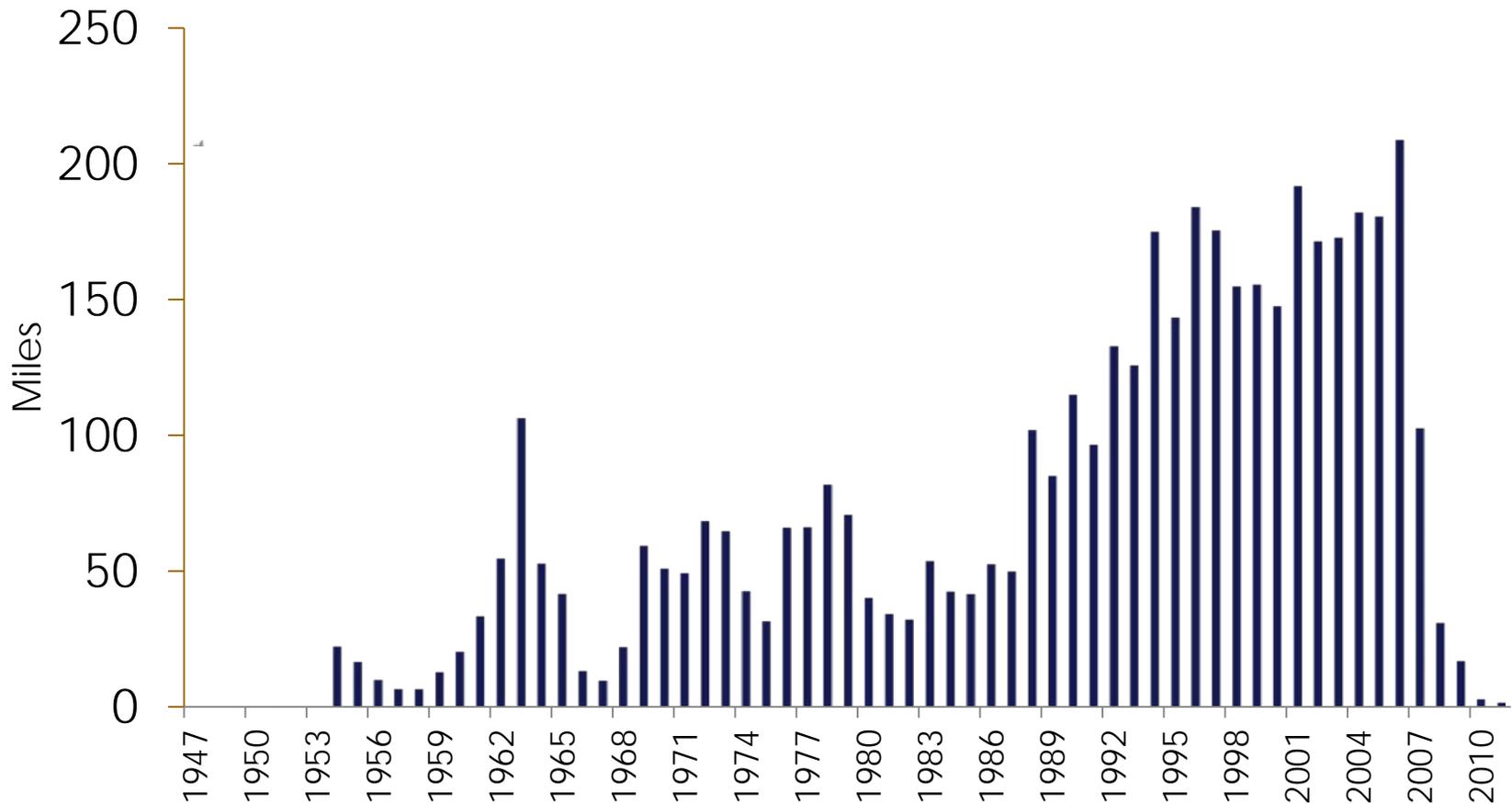
Growth also dictated the need for additional capacity in LVVWD reservoirs





# LAS VEGAS VALLEY WATER DISTRICT

## Additional pipelines were constructed to accommodate growth



Miles of Pipe Installed by Year

4,500 miles of potable water distribution; 33 miles of reuse water distribution



# LAS VEGAS VALLEY WATER DISTRICT

## OTHER LVVWD ACTIVITIES

- Enforces Water Waste codes
- Performs water treatment and testing
- Operates and maintains large solar energy projects (3 megawatts)





# LAS VEGAS VALLEY WATER DISTRICT

The LVVWD is a not-for-profit water utility.

All expenditures are funded through:

- Water revenue
- Connection fees
- Application and inspection fees
- Interest and other income

LVVWD water bills also include SNWA fees, which are collected by LVVWD and passed-through to the SNWA.



## Rate Setting

- The LVVWD regularly utilizes citizen committees to determine the best mix of rate setting options before making a rate increase recommendation to the LVVWD Board of Directors.
- As a public agency, the LVVWD is subject to requirements for public notification of rate increases:
  - Business/trade association notifications (NRS 237.080)
  - Business Impact Statements (NRS 237.090)
  - Nevada's Open Meeting Law (NRS 241.020)
  - Public rate hearings (Ch.167, Stat. Nev. 1947, Sec 9.2)



# LAS VEGAS VALLEY WATER DISTRICT

## Las Vegas Valley Water District

(800) 252-2011

(702) 870-4194

lvvwd.com

Page 1 of 2

Customer Name:

Account Number:

Billing Date: 05/10/2012

Due Date: 06/04/2012

You are in Watering Group F

Summer Watering (May-Aug.): Any day

Please pay total by due date to avoid a 4% late charge. Failure to pay by the due date specified may result in an assessment or an increase of security deposit.

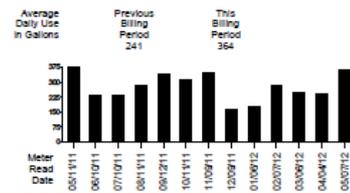
### Account Summary

Previous Balance	22.52
Payment Received - 05/02/12	-22.52
Current Charges	40.71
Bill Corrections and Adjustments	0.00
Late Charges	0.00
<b>Amount Due this Period</b>	<b>\$40.71</b>

### Service Address

This service is in Watering Group F

Meter #	Size	Current Reading	Current Read Date	Previous Reading	Previous Read Date	Usage in 1000 Gallons
0389694	5/8"	2314	05/07/12	2302	04/04/12	12



Billing Period: 04/05/12 - 05/07/12	Total # of Days: 33
Meter #: 0389694	Billed Usage 12
Service Charge \$0.3355 x 33 Days	11.07
Tier #1 0 x \$1.16	6.96
Tier #2 5 x \$2.08	10.40
Tier #3 1 x \$3.09	3.09
SNWA Commodity Charge 12 x \$0.30	3.60
SNWA Infrastructure Charge 33 x \$0.1667	5.50
SNWA Reliability Surcharge	0.09
<b>Subtotal</b>	<b>\$40.71</b>

You should see all or a portion of a new SNWA Infrastructure Charge on your water bill, depending on your billing cycle. The surcharge, which was effective April 1, 2012, varies based on your meter size. Visit [lvvwd.com](http://lvvwd.com) for details.

Please detach at perforation and return with payment.

007719



Check box for address change. Print on reverse side.

Check box for information on paying electronically.

Pay by Phone or Internet:

(800) 252-2011

(702) 870-4194

lvvwd.com

Bill Date: 05/10/2012

Account Number	Unpaid Balance	Total Charges Due 06/04/2012	Total Amount Due
3585528104 0	\$0.00	\$40.71	\$40.71

Make check payable to "Water District"

LVVWD  
1001 S VALLEY VIEW BLVD  
LAS VEGAS NV 89153

## Average LVVWD Single Family Residential Bill

Service Charge = \$11.59

LVVWD Water Charges = \$19.44

SNWA Fees = \$8.69

**Total Water Bill: \$39.72**

Based on 12,000 gallons per month, 3/4-inch meter size.



## BILL COMPONENTS

LVVWD's water bills include three components that comprise a customer's total water bill:

- Service Charge
- Water sales, collected through a tiered-rate structure
- SNWA fees (pass-through)

LVVWD's last few rate increases have aimed to increase service charges to reflect actual service-related costs, and implement gradual increases in upper tier rates.



## SERVICE CHARGE

The Service Charge is a flat fee, based on meter size.

The fee covers costs related to:

- Meter maintenance
- Regular meter reading
- Billing

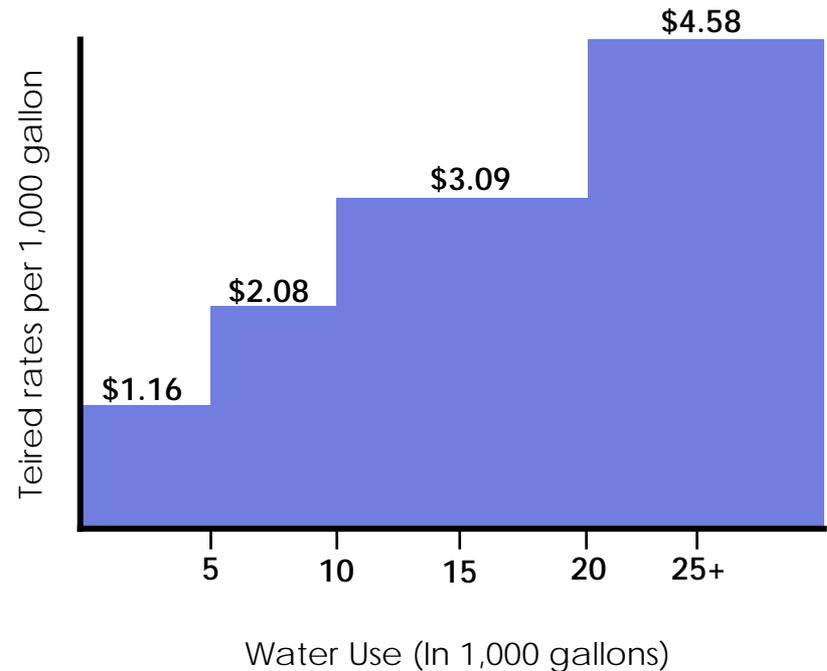


# LAS VEGAS VALLEY WATER DISTRICT

Benefits of an inverted block-rate structure include:

- Allows for essential water uses within first pricing tier (drinking, bathing, cooking)
- Sends conservation pricing signal with higher use
- Higher-priced tiers target outdoor water use
- Consistent rate structure for customer communication

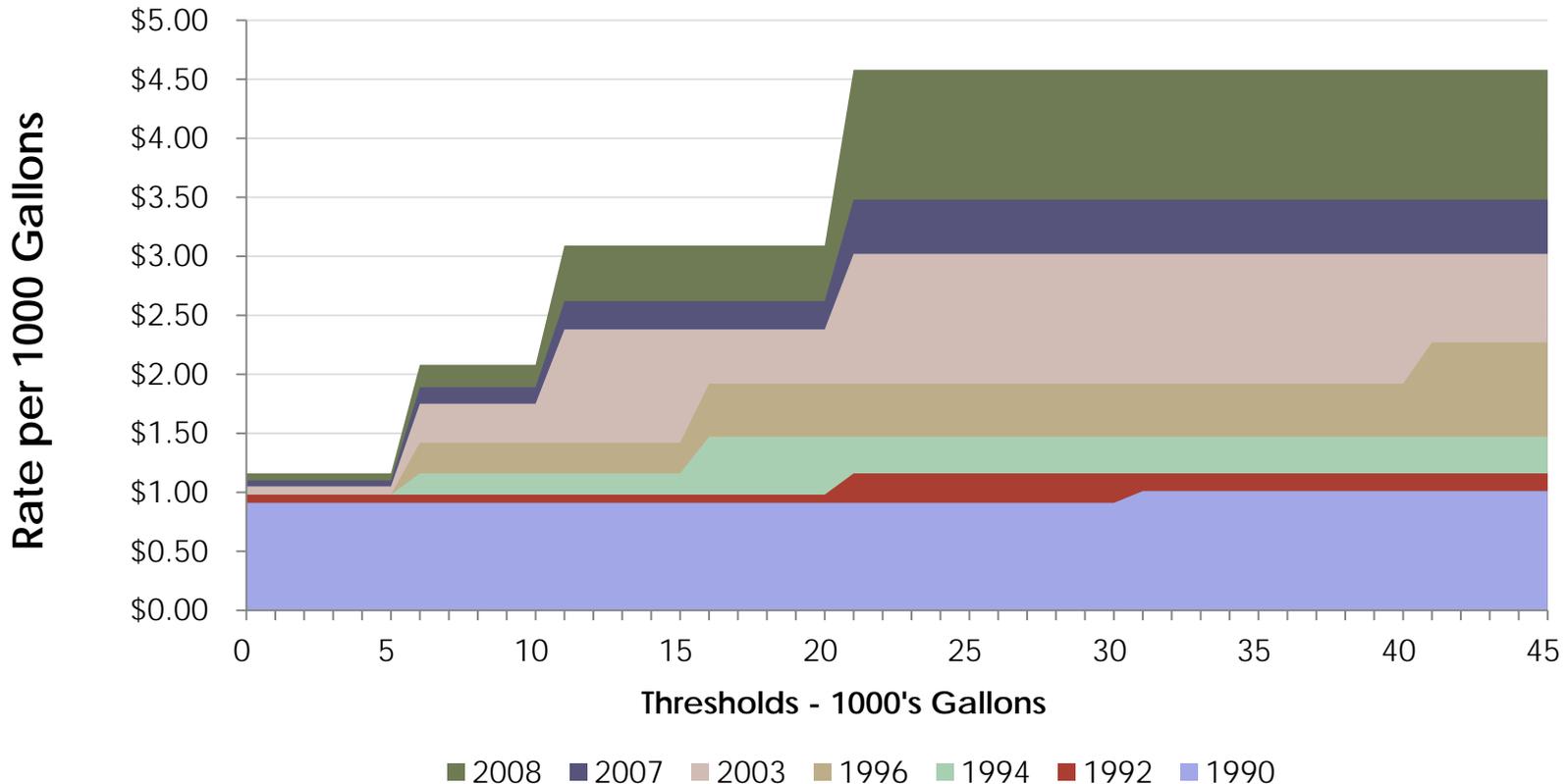
## Current Water rates for 5/8" meter





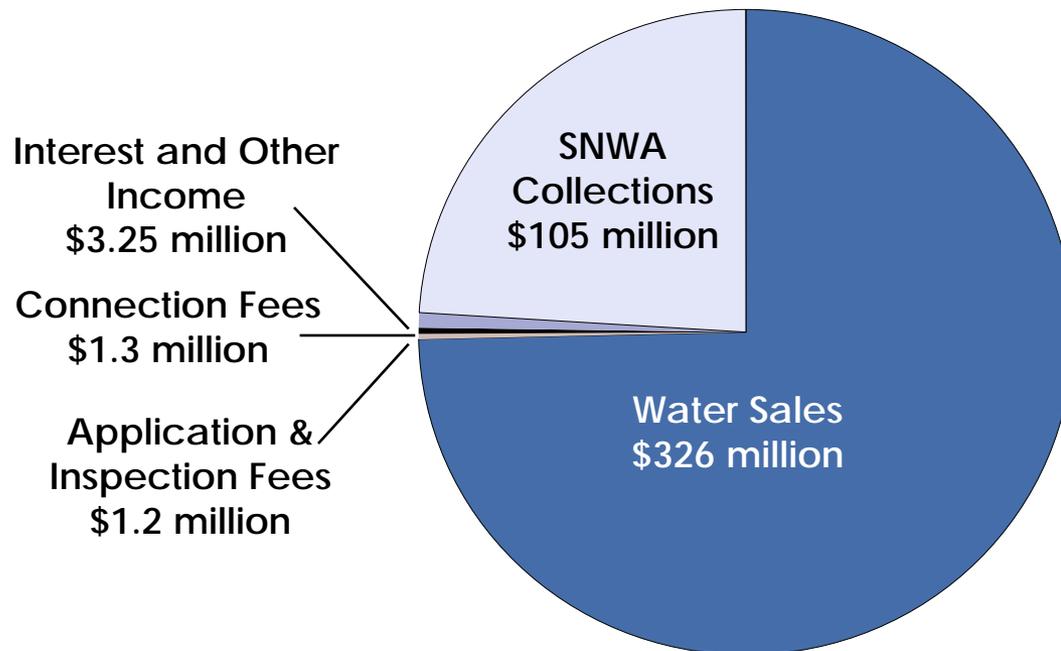
# LAS VEGAS VALLEY WATER DISTRICT

Several incremental rate structure adjustments were required to evolve from a flat rate to the current, aggressive inverted block structure.





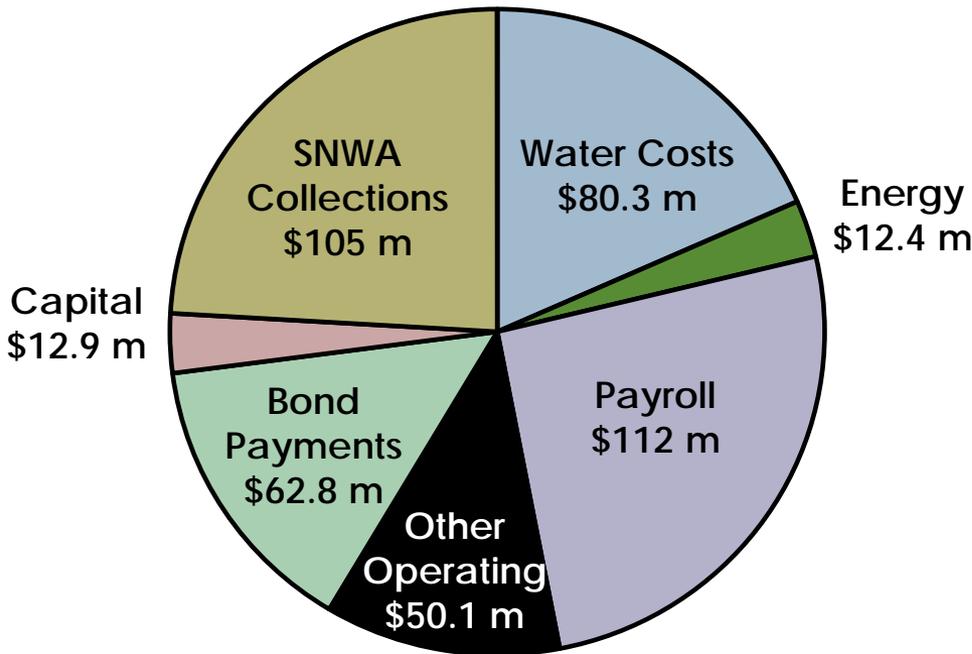
## 2012/2013 BUDGET – Sources of Funds



**2012/2013 LVVWD Budget**  
Total Collections: \$436.7 million



## 2012/2013 BUDGET – Uses of Funds



**2012/2013 LVVWD Budget**  
Total Uses: \$436.5 million

**Water Costs:** Wholesale water, purchased from the SNWA

**Energy:** Energy required to deliver water throughout service area

**Payroll:** Wages, salaries and benefits

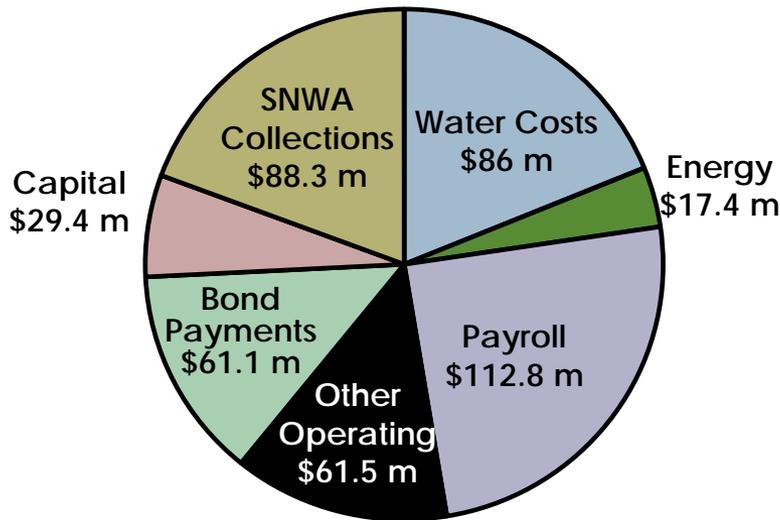
**Other Operating:** Materials (pipe, asphalt, concrete, office supplies), maintaining and repairing water transmission systems, rent and leases

**Bond Payments:** LVVWD debt service

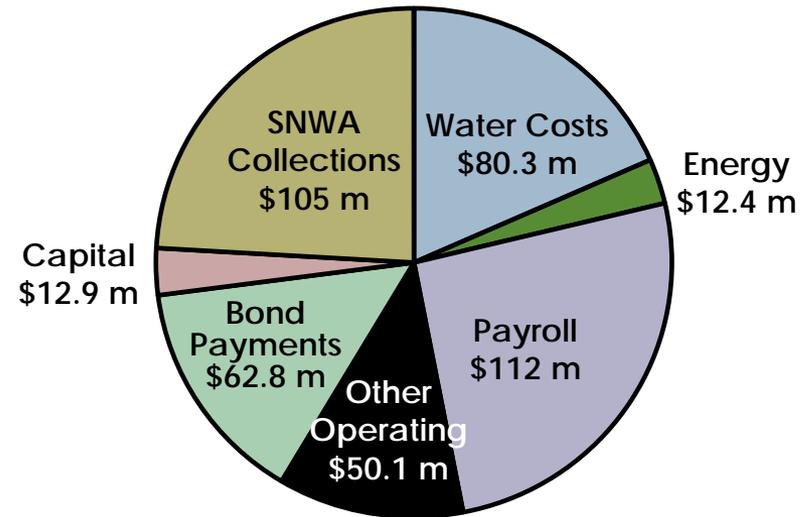
**Capital:** Capital equipment (data processing systems and vehicles), plant and major construction, maintaining, repairing and improving LVVWD distribution system



## Uses of Funds Comparisons



**2008/2009 LVVWD Budget**  
Total Uses: \$456.5 million

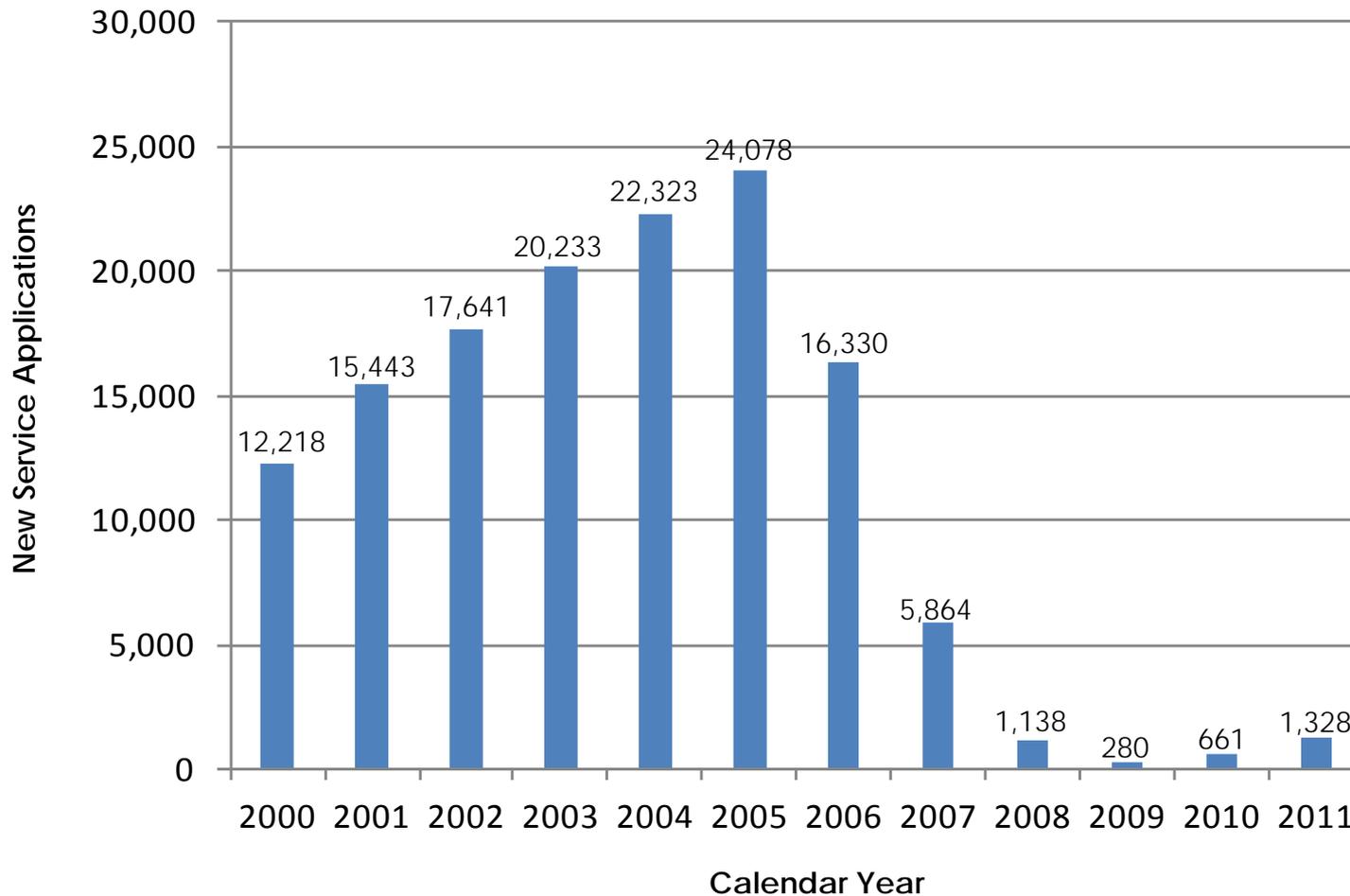


**2012/2013 LVVWD Budget**  
Total Uses: \$436.7 million



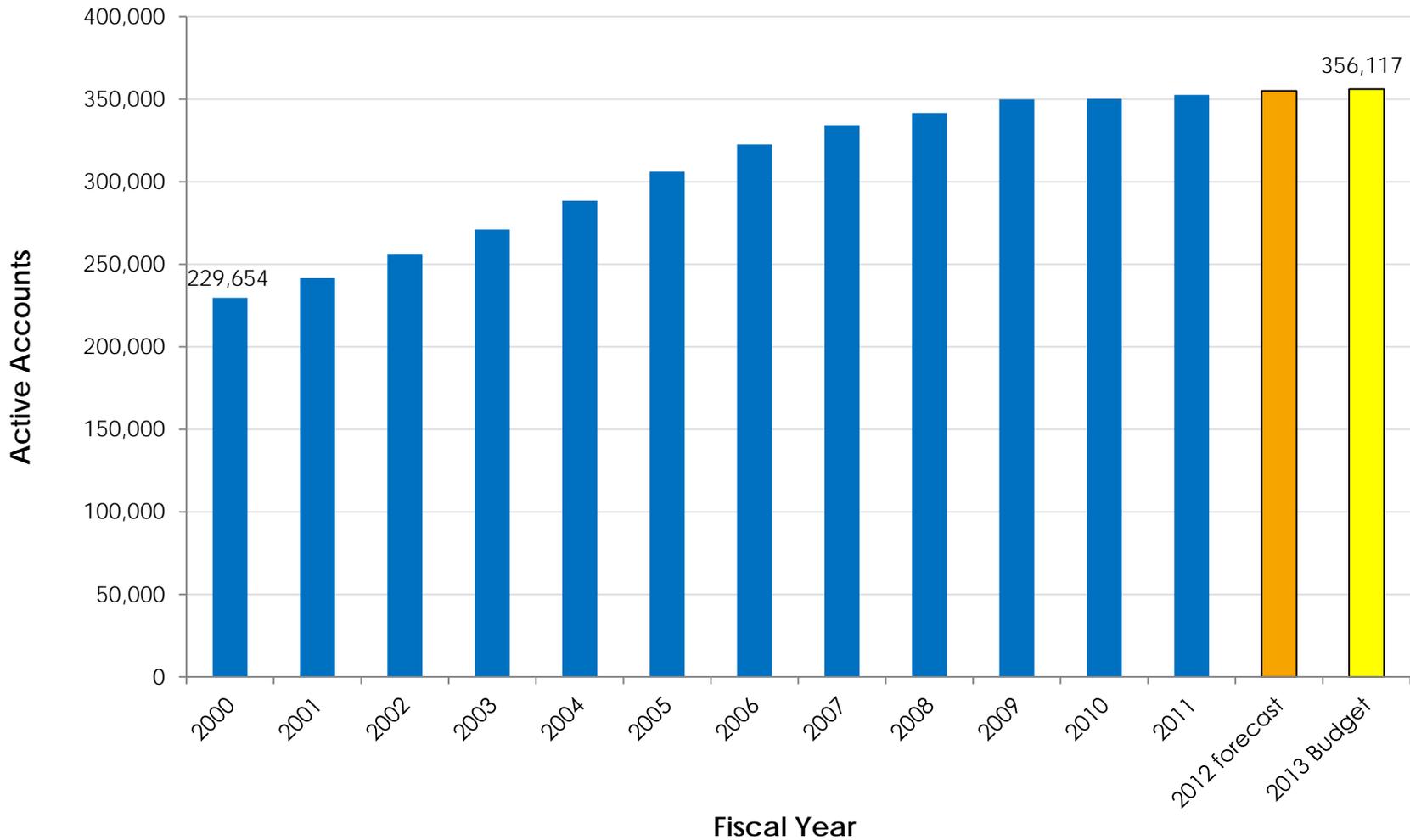
# LAS VEGAS VALLEY WATER DISTRICT

New connections remain low compared to previous years.





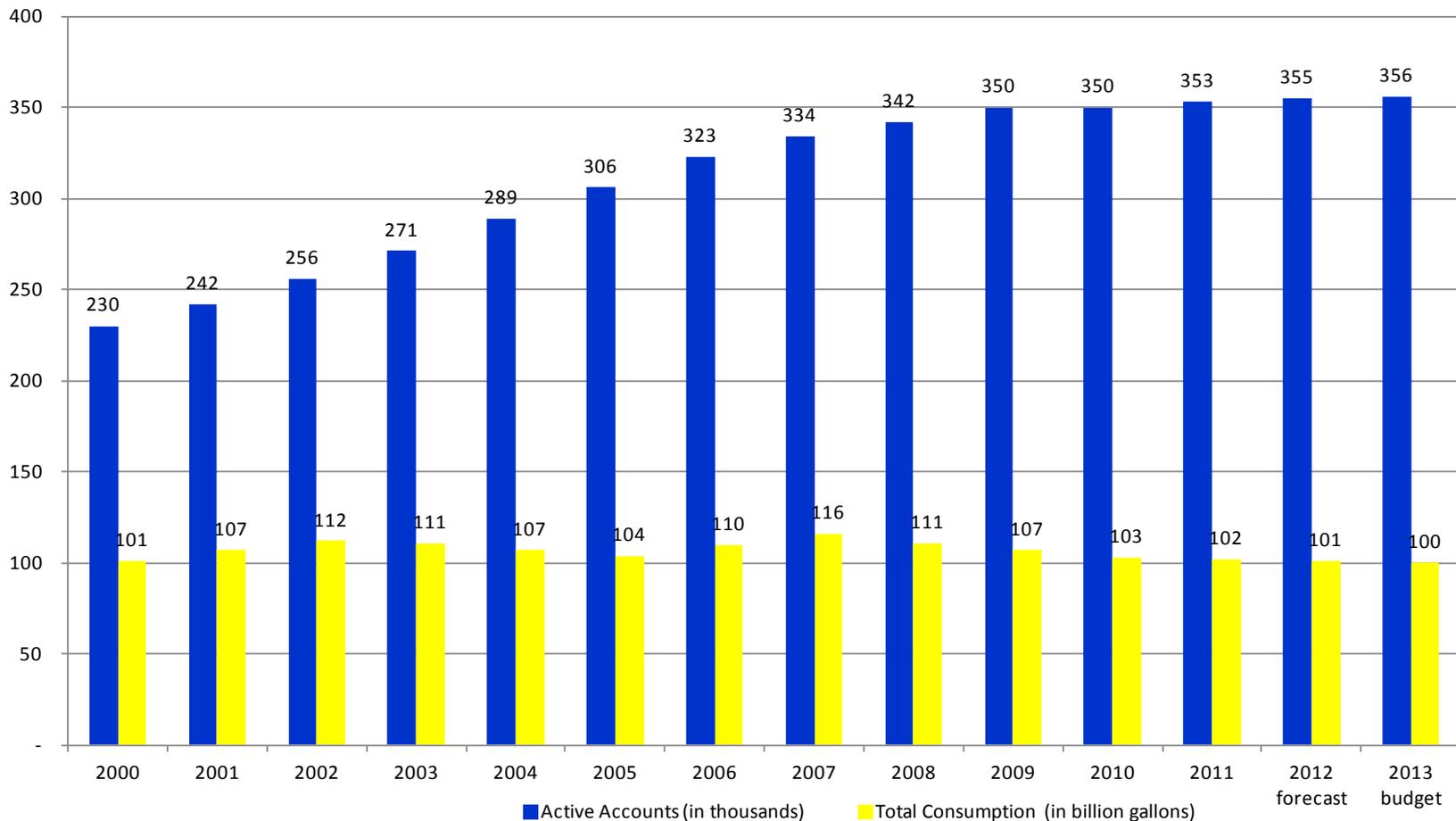
Active accounts are projected to remain flat.





# LAS VEGAS VALLEY WATER DISTRICT

Since 2000, active accounts have increased by 55 percent, while water use has remained essentially flat.





Questions?



# City of North Las Vegas Utilities



## **The City of North Las Vegas' Utilities Department is not-for-profit.**

### **Mission Statement:**

Provide Quality, Cost Effective Utility Services  
Meeting the Needs of our Community





### Drinking Water Distribution

- More than 90 percent of North Las Vegas water supply comes from Lake Mead (SNWA).
- The remainder is obtained by North Las Vegas groundwater resources.

### Wastewater

- North Las Vegas' water reclamation facility produces 6.2 billion gallons treated annually.

### Reclaimed Water

- Will provide reclaimed water to Nellis Air Force Base in near future (ranging between 0.5 mgd to 2.2 mgd)



### Water Facilities

- 1,117 miles of water lines
- 19 reservoirs (90 MG)
- 10 pumping station
- 10,000 fire hydrants
- 30,243 valves

### Wastewater

- 25 MGD Water Reclamation Facility  
(Currently treating 17 MGD)
- 659 miles of wastewater collection lines
- 15,437 manholes



City of North Las Vegas Water Facilities

Central Reservoir #3



East Reservoir



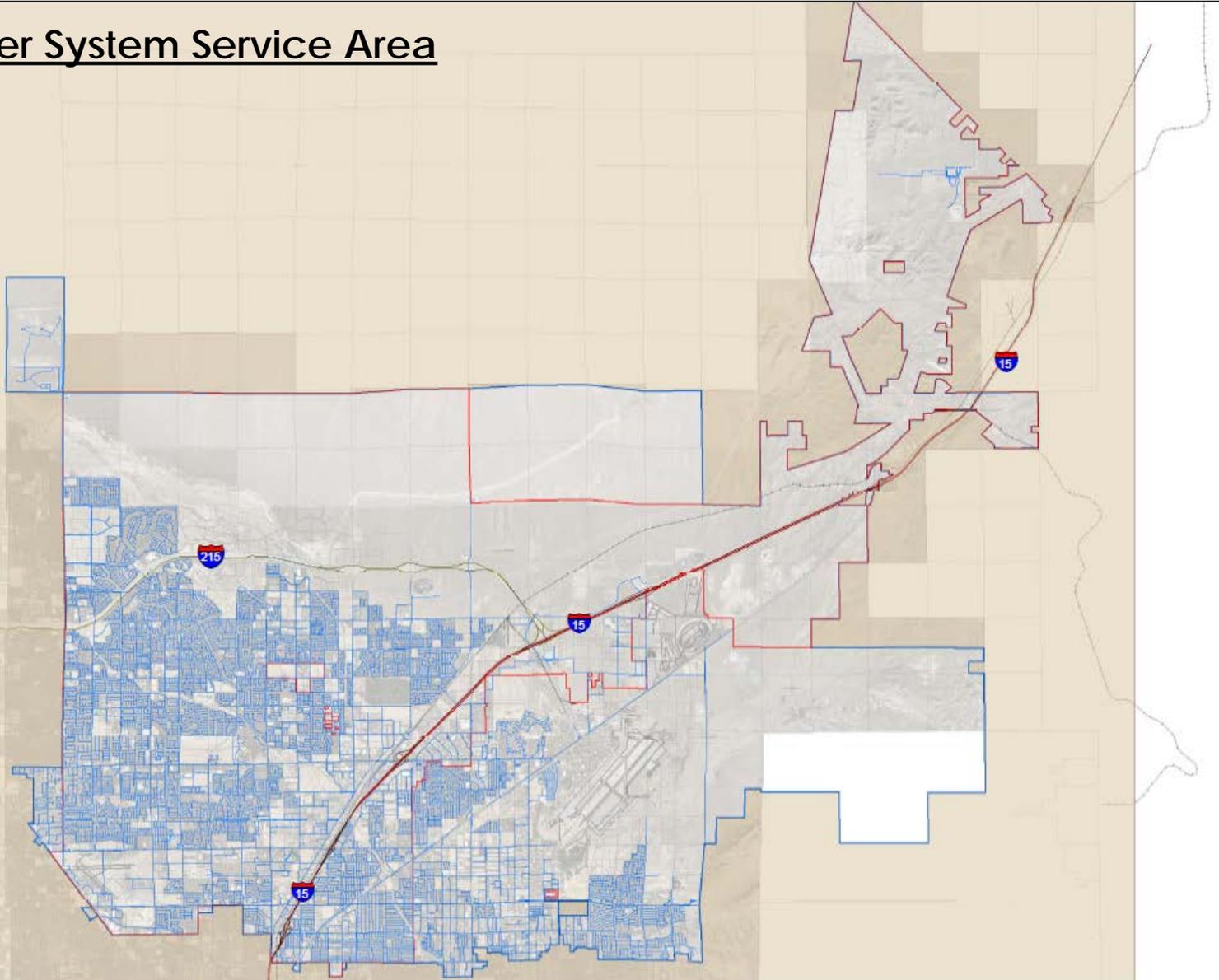
Moccasin Reservoir



# CITY OF NORTH LAS VEGAS

*Utilities Department*

## Water System Service Area



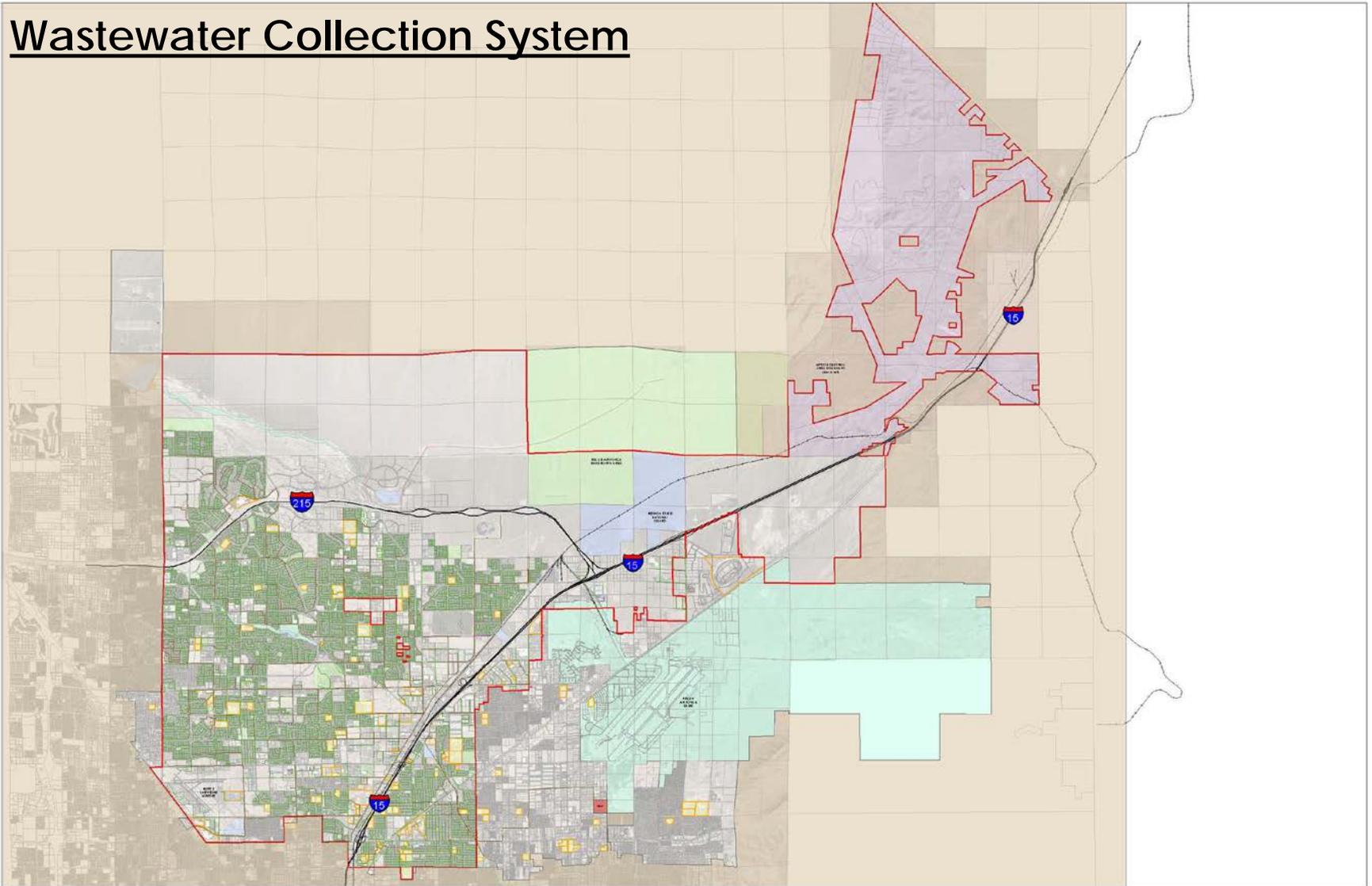


## City of North Las Vegas Water Reclamation Facility



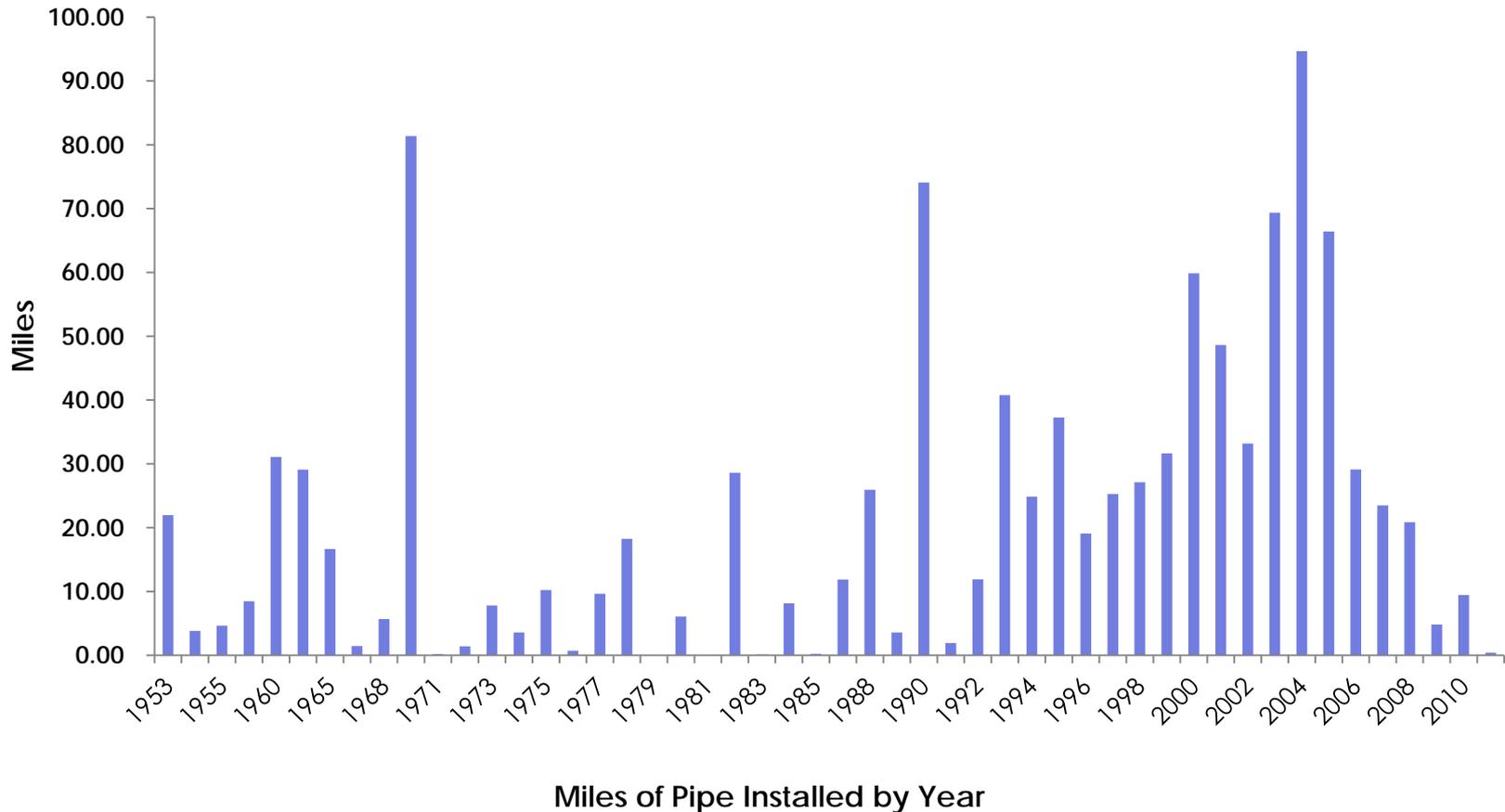


### Wastewater Collection System



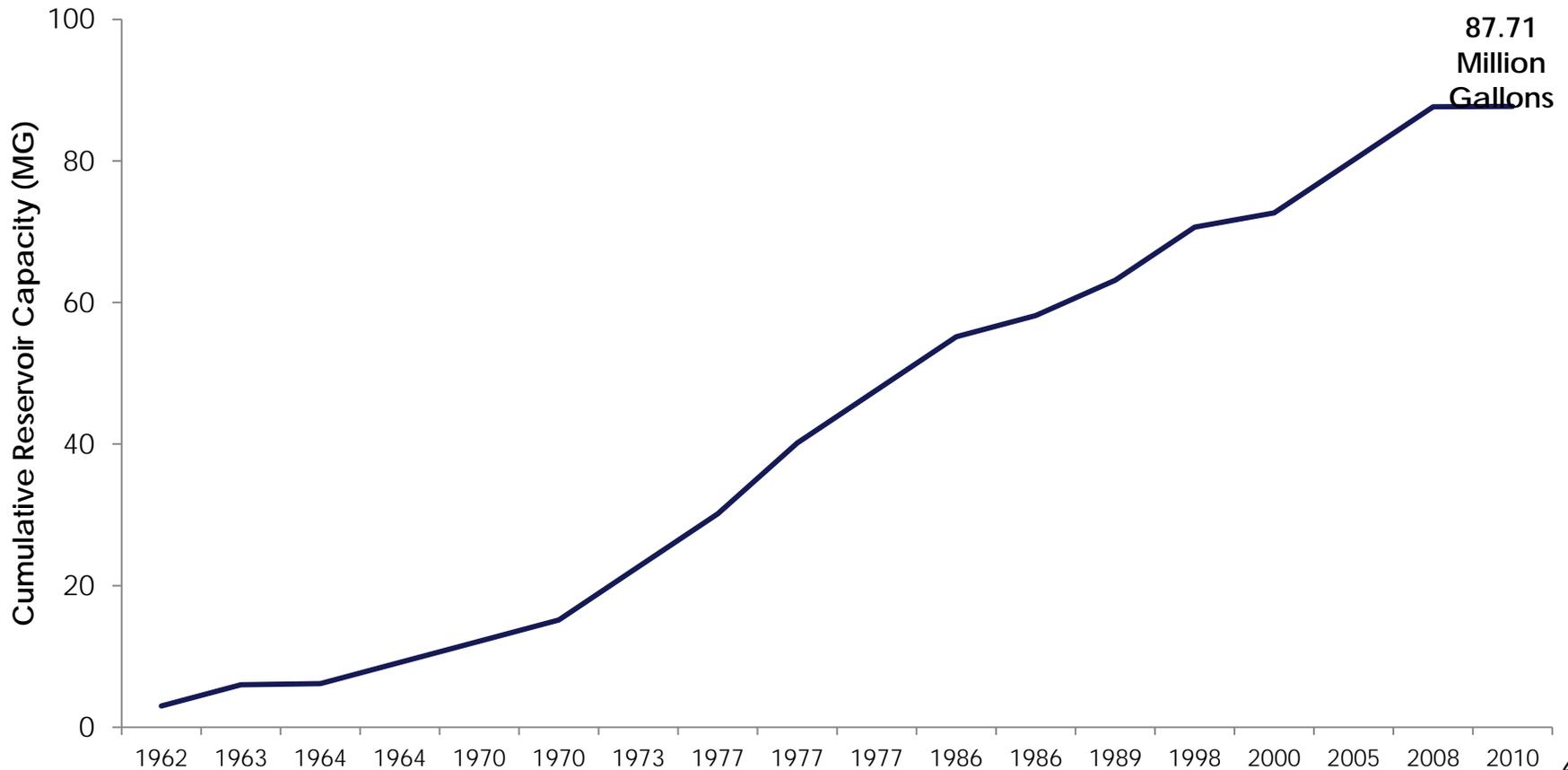


Like other utilities in Southern Nevada, North Las Vegas required additional infrastructure to meet demands during recent periods of growth.





Reservoir capacity was increased to accommodate additional residents in North Las Vegas.





## Utility Enterprise Fund

- Water and sewer funds
- Separate from the City's general fund
- All costs (operational and capital) are funded by rates and connection charges
- User charges are collected via monthly customer bills



82,037 customer accounts

### Bill Components

**Average Single Family Residential Bill\*: \$71.48**

CNLV Water Charges      \$23.80

SNWA Regional Charges      7.47

Total Water Charges:      \$31.27

Sanitary Sewer Charges      \$40.21

**Total Utility Bill      \$71.48**

*\*Based on ¾" meter and 8,000 gallons per month*



### Financial Policies

- Revenue from connection charges is used to supplement revenue from rates to meet debt service requirements
- Minimum utility reserves consist of an operating reserve equal to 90 days of operations and maintenance expense

### Water Rates

- Consists of a daily service charge billed monthly, that varies by class and meter size, and a four-block increasing volume charge whose thresholds vary by meter size

### Wastewater Rates

- Consists of a monthly service charge and a per 1,000 gallons of water usage charge



## Rate Setting

- The City of North Las Vegas maintains an active Utility Advisory Board to review proposed water and wastewater rate increases and provide recommendations to North Las Vegas City Council.
- As a public agency, the City of North Las Vegas is subject to requirements for public notification of rate increases above three percent:
  - Business/trade association notifications (NRS 237.080)
  - Business Impact Statements (NRS 237.090)
  - Nevada's Open Meeting Law (NRS 241.020)
  - 30-day notice of public rate hearings (North Las Vegas City Charter, Section 2.280)

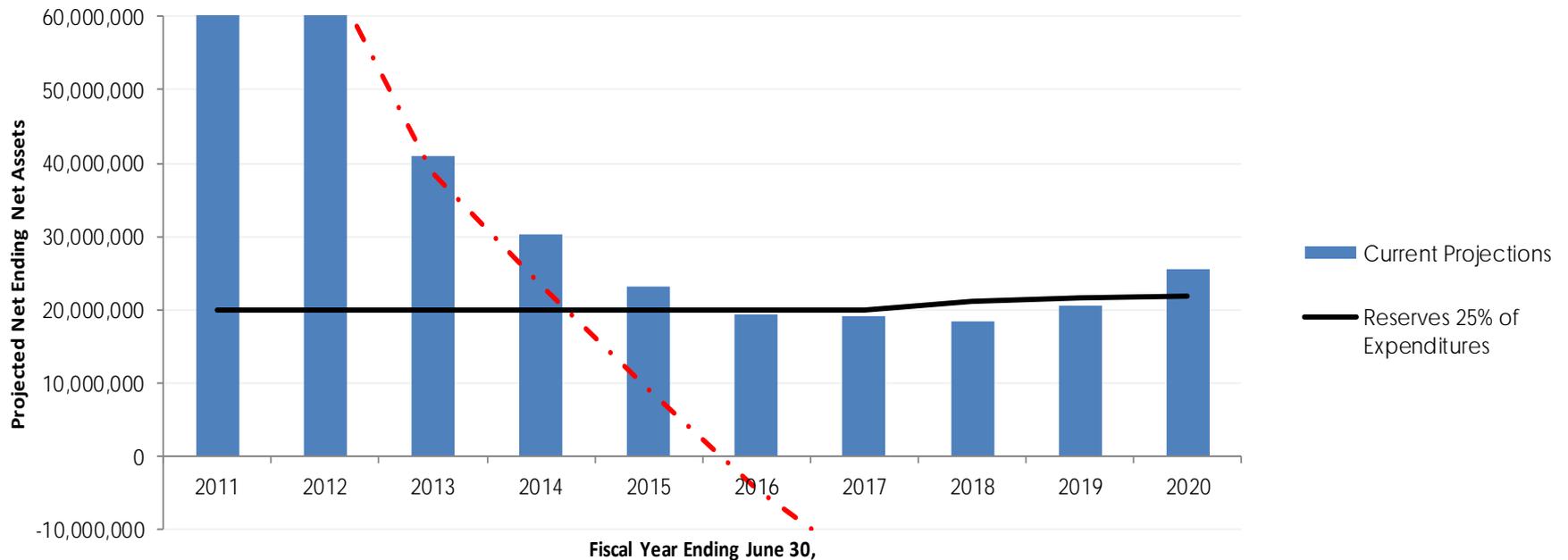


## Annual Rate Increases

- Currently, the rates are increased annually by three percent on October 1st.
- Rate increases above three percent require approval by City Council.

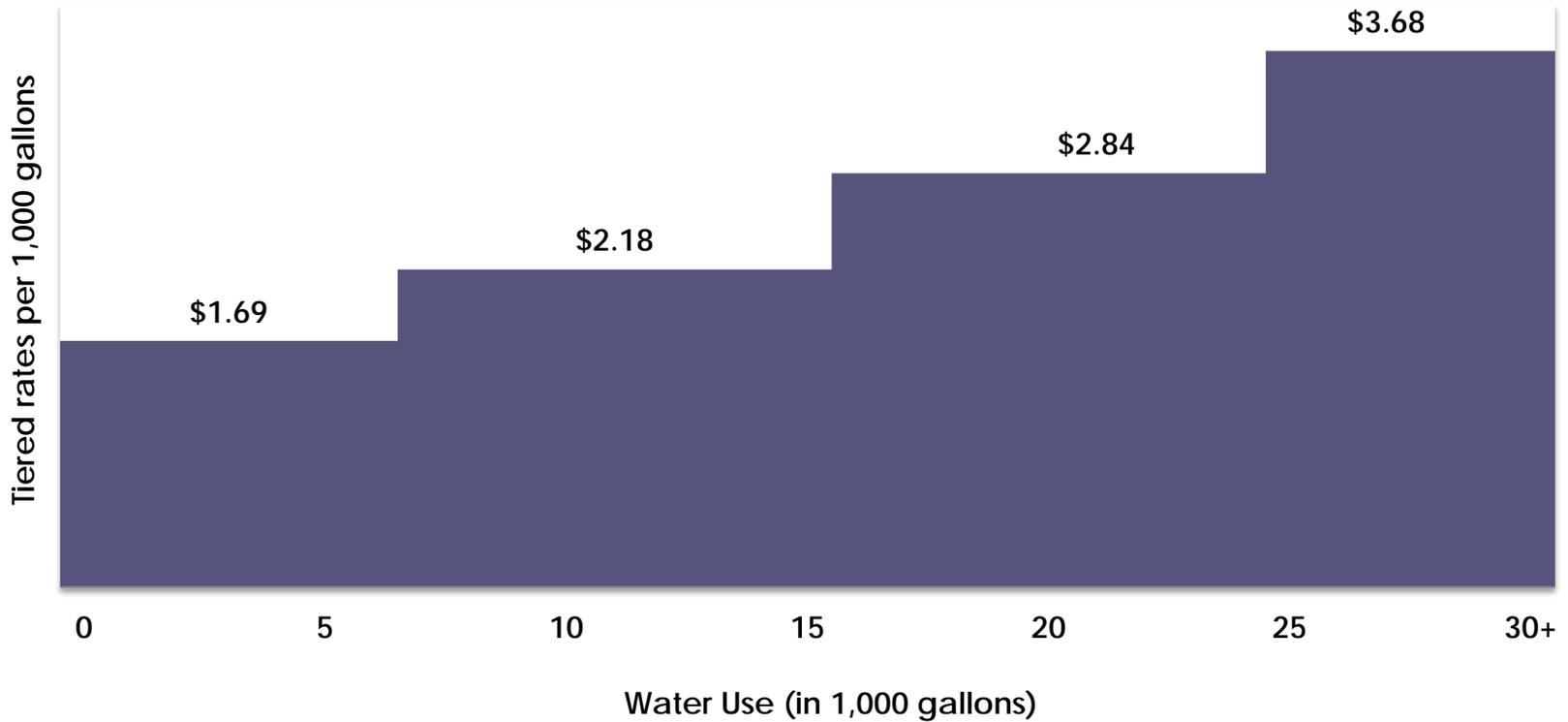


The rate increase helps ensure working capital remains above the minimum reserve levels and to ensure debt service coverage will be maintained at acceptable levels.





### Current Water Rates for 3/4" Meter





# CITY OF NORTH LAS VEGAS

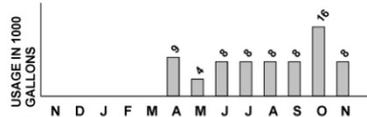
## Utilities Department



CITY OF NORTH LAS VEGAS  
2250 LAS VEGAS BLVD. N.  
NORTH LAS VEGAS, NV 89030  
TELEPHONE (702) 633-1484  
WWW.CITYOFNORTHLASVEGAS.COM

BILLING SUMMARY		
PREVIOUS BILL	10/16/12	279.84
PAYMENTS RECEIVED	11/01/12	279.84CR
BALANCE FORWARD		.00
CITY OF NORTH LAS VEGAS UTILITY		
WATER CHARGES		
WATER USAGE CHARGE		14.50
DAILY WATER SERVICE FEE		9.30
<b>WATER SUBTOTAL</b>		<b>23.80</b>
WASTE WATER CHARGES		
SEWER USAGE CHARGE	36.64	
MONTHLY SERVICE CHARGE	3.57	
<b>WASTE WATER SUBTOTAL</b>	<b>40.21</b>	
GRAFFITI-COMMUNITY IMPROVEMENT FEE	.25	
<b>CHLV SUBTOTAL</b>	<b>64.26</b>	
REPUBLIC SERVICES		
GARBAGE CHARGES AND TAX PT	13.74	
SOUTHERN NEVADA WATER AUTHORITY		
SNWA COMMODITY CHARGE	2.40	
SNWA RELIABILITY SURCHARGE	.07	
SNWA INFRASTRUCTURE SURCHARGE	5.00	
<b>SNWA SUBTOTAL</b>	<b>7.47</b>	
<b>TOTAL CURRENT CHARGES</b>	<b>85.47</b>	
<b>AMOUNT DUE</b>	<b>85.47</b>	

ACCOUNT SUMMARY			
ACCOUNT NUMBER	99999-05-0		
BILL TYPE	RESIDENTIAL		
ADDRESS	1234 CIVIC CENTER		
DATE BILLED	11/01/12		
<b>DUE DATE</b>	<b>11/28/12</b>		
AFTER 11/28/12 PAY	94.02		
<b>AMOUNT DUE</b>	<b>85.47</b>		
WATER USAGE REVIEW (in 1000 gallons)			
DATE	READING	DAYS	USAGE
11/12/12	599	30	8
METER SIZE 3/4"			
RATE TIER	RATE	GALLONS	BILLED
FIRST 6	1.69	6	10.14
NEXT 9	2.18	2	4.36
<b>TOTAL</b>		<b>8</b>	<b>14.50</b>
SEWER USAGE REVIEW (in 1000 gallons)			
RATE TIER	RATE	GALLONS	BILLED
UP TO 3	-	3	12.99
NEXT 5	4.73	5	23.65
<b>TOTAL</b>		<b>8</b>	<b>36.64</b>



IMPORTANT MESSAGE(S):

### City of North Las Vegas Potable Water Volume Charge (Residential Metered Charges)

Residential customers are charged for water usage via a four-tiered inclining block rate structure.

As the usage block increases, the unit price or rate for the block increases.

Rate Tier (in gallons)	Per 1000 gallons
First Tier (up to 6,000)	\$1.69
Second Tier (6,001-15,000)	\$2.18
Third Tier (15,001-24,999)	\$2.84
Fourth Tier (over 25,000)	\$3.86

PLEASE RETURN THE BOTTOM STUB WITH YOUR PAYMENT



IF MAILING, ALLOW 5 WORKING DAYS FOR PROCESSING  
SEE REVERSE SIDE FOR ADDITIONAL INFORMATION  
2172-8343103  
MAKE CHECKS PAYABLE TO:  
CITY OF NORTH LAS VEGAS

PLEASE CHECK BOX IF ADDRESS OR PHONE NUMBERS HAVE CHANGED AND INDICATE ON BACK OF STUB

ACCOUNT NUMBER	99999-05-0		
ADDRESS	1234 CIVIC CENTER		
<b>DUE DATE</b>	<b>11/28/12</b>		
AFTER 11/28/12 PAY	94.02		
<b>AMOUNT DUE</b>	<b>85.47</b>		

AMOUNT ENCLOSED \_\_\_\_\_

### Monthly Water Service Charges

Monthly water service charges assist in paying fixed expenses associated with operating and maintaining the public water system.

The monthly water service charge for a 3/4" or less single family residential (SFR) account is \$.31 per number of days between meter reads and increases based on meter size.



99999054259000085470000940299999058

MARY SMITH  
1234 CIVIC CENTER  
NORTH LAS VEGAS, NV 89030

CITY OF NORTH LAS VEGAS 88  
UTILITIES DEPARTMENT  
PO BOX 360118  
NORTH LAS VEGAS, NV 89036-0118



# CITY OF NORTH LAS VEGAS

## Utilities Department



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CITY OF NORTH LAS VEGAS UTILITY		
<b>WATER CHARGES</b>		
WATER USAGE CHARGE		14.50
DAILY WATER SERVICE FEE		9.30
<b>WATER SUBTOTAL</b>		<b>23.80</b>
<b>WASTE WATER CHARGES</b>		
SEWER USAGE CHARGE		36.64
MONTHLY SERVICE CHARGE		3.57
<b>WASTE WATER SUBTOTAL</b>		<b>40.21</b>
GRAFFITI-COMMUNITY IMPROVEMENT FEE		.25
<b>CHLV SUBTOTAL</b>		<b>64.26</b>
REPUBLIC SERVICES		
GARBAGE CHARGES AND TAX PT		13.74
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CITY OF NORTH LAS VEGAS

PLEASE CHECK BOX IF ADDRESS OR PHONE NUMBERS HAVE CHANGED AND INDICATE ON BACK OF STUB

ACCOUNT NUMBER 99999-05-0  
ADDRESS 1234 CIVIC CENTER  
DUE DATE 11/28/12  
AFTER 11/28/12 PAY 94.02  
AMOUNT DUE 85.47

AMOUNT ENCLOSED \_\_\_\_\_

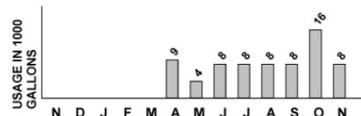


99999054259000085470000940299999058

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NORTH LAS VEGAS, NV 89030

CITY OF NORTH LAS VEGAS 88  
UTILITIES DEPARTMENT  
PO BOX 360118  
NORTH LAS VEGAS, NV 89036-0118

ACCOUNT SUMMARY			
ACCOUNT NUMBER	99999-05-0		
BILL TYPE	RESIDENTIAL		
ADDRESS	1234 CIVIC CENTER		
DATE BILLED	11/01/12		
DUE DATE	11/28/12		
AFTER 11/28/12 PAY	94.02		
AMOUNT DUE	85.47		
WATER USAGE REVIEW (in 1000 gallons)			
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RATE TIER	RATE	GALLONS	BILLED
UP TO 3	-	3	12.99
NEXT 5	4.73	5	23.65
<b>TOTAL</b>		<b>8</b>	<b>36.64</b>



IMPORTANT MESSAGE(S):

### SNWA Regional Commodity Charge

Calculated at \$0.30 per 1,000 gallons of water consumed. The funds that are collected are used to improve water quality and enhance the reliability of the water system. This charge became effective on November 5, 1996.

### SNWA Reliability Surcharge

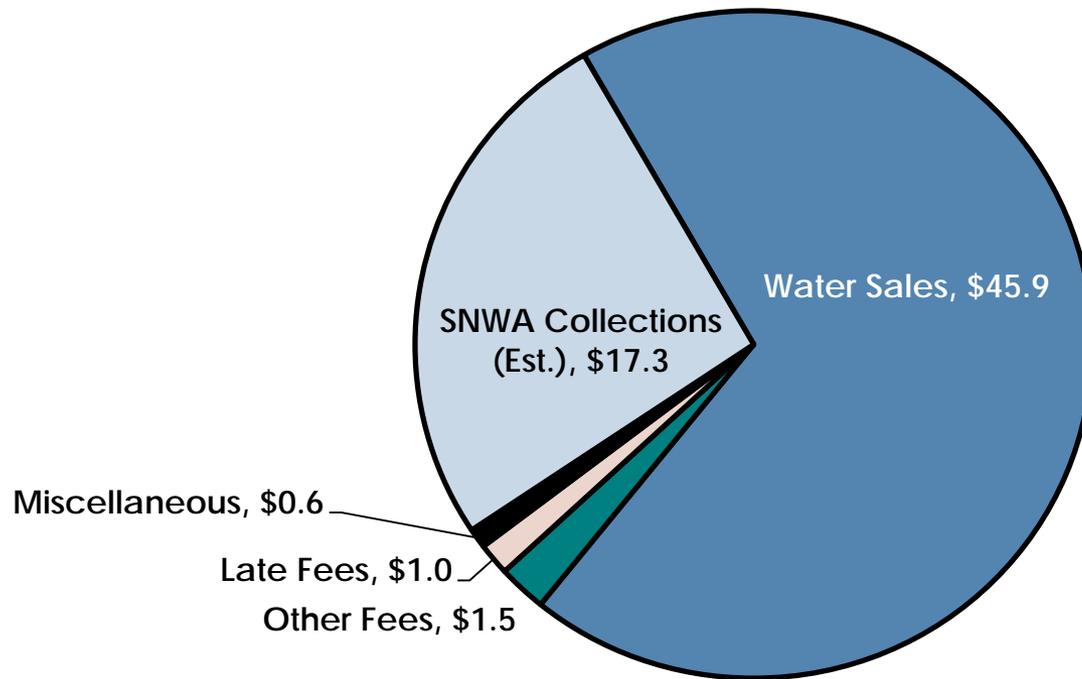
Calculated as a percentage of the collective total of your monthly water service charge, volume charge and regional commodity charge. The current percentage rate applied on monthly bills is 0.25 percent for residential customers and 2.5 percent for all others. This charge became effective on March 1, 1998.

### SNWA Infrastructure Surcharge

This new charge is based on the size of a customer's water meter. For a typical single family residence, this equates to approximately \$5 per month. This charge became effective May 1, 2012 and is used to fund improvements to water treatment and transmission infrastructure, including Lake Mead Intake No. 3, which is currently under construction.

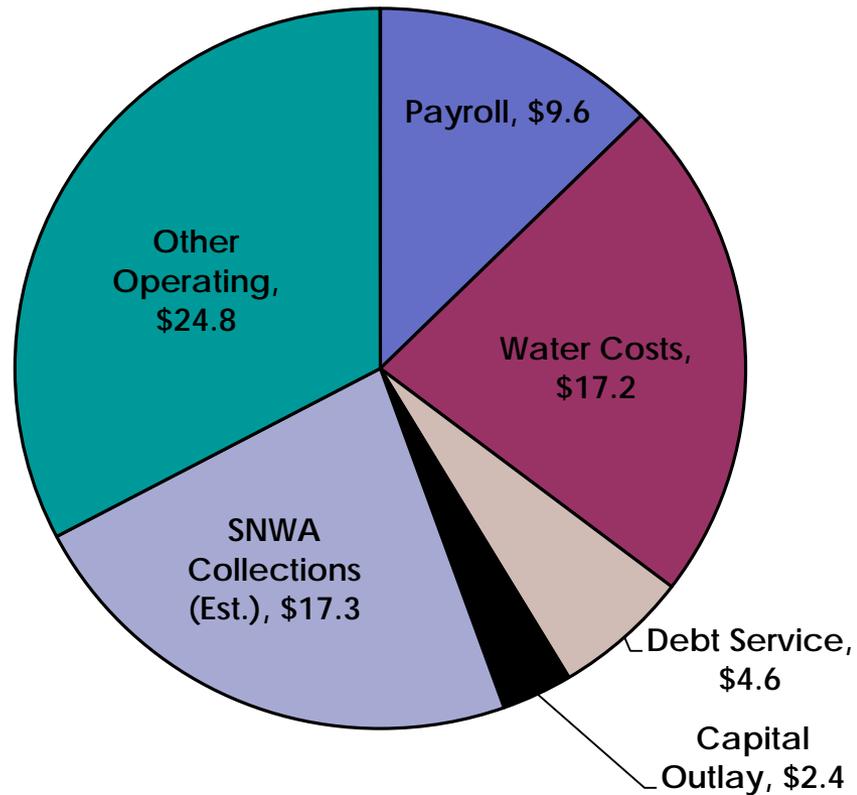


### 2012-2013 Budget Source of Funds for Water



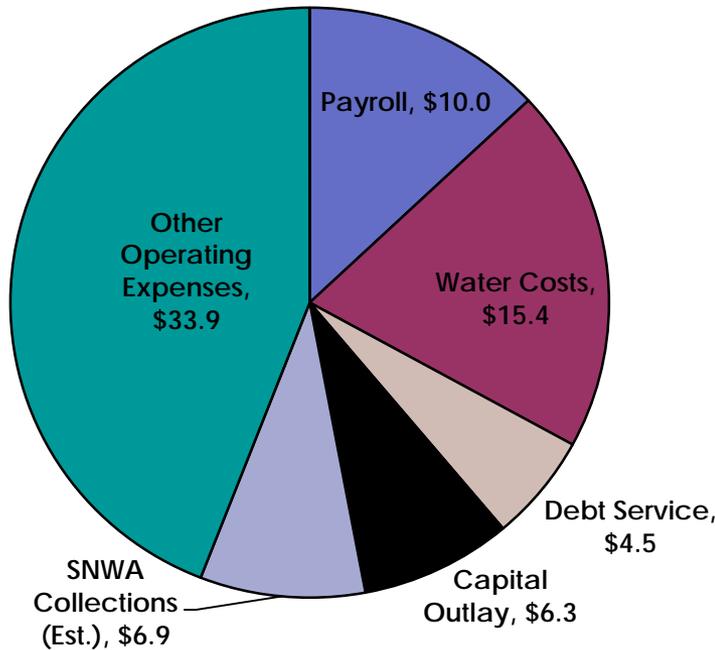


### 2012-2013 Budget Use of Funds for Water



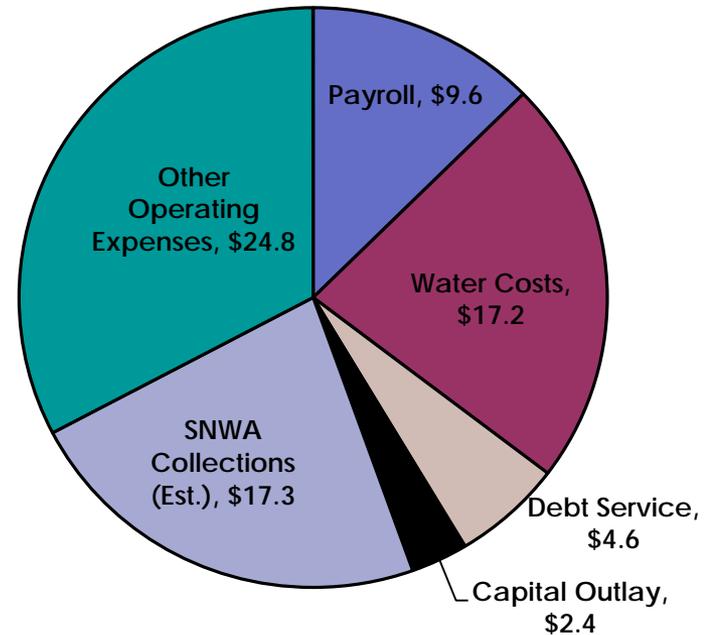


### 2008/2009 & 2012/2013 Budget Use Comparison for Water



2008/2009

Total: \$76.9 million

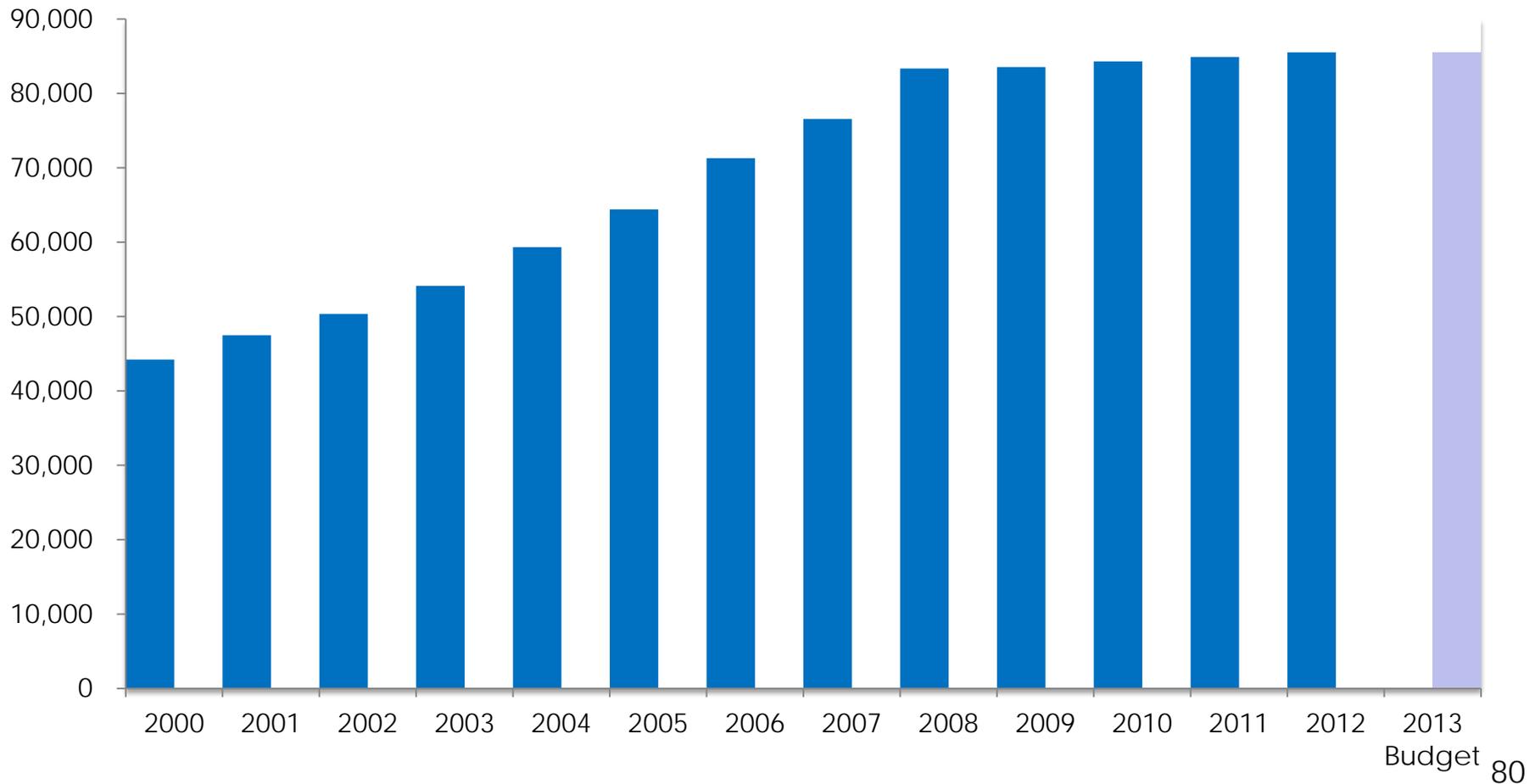


2012/2013

Total: \$75.9 million

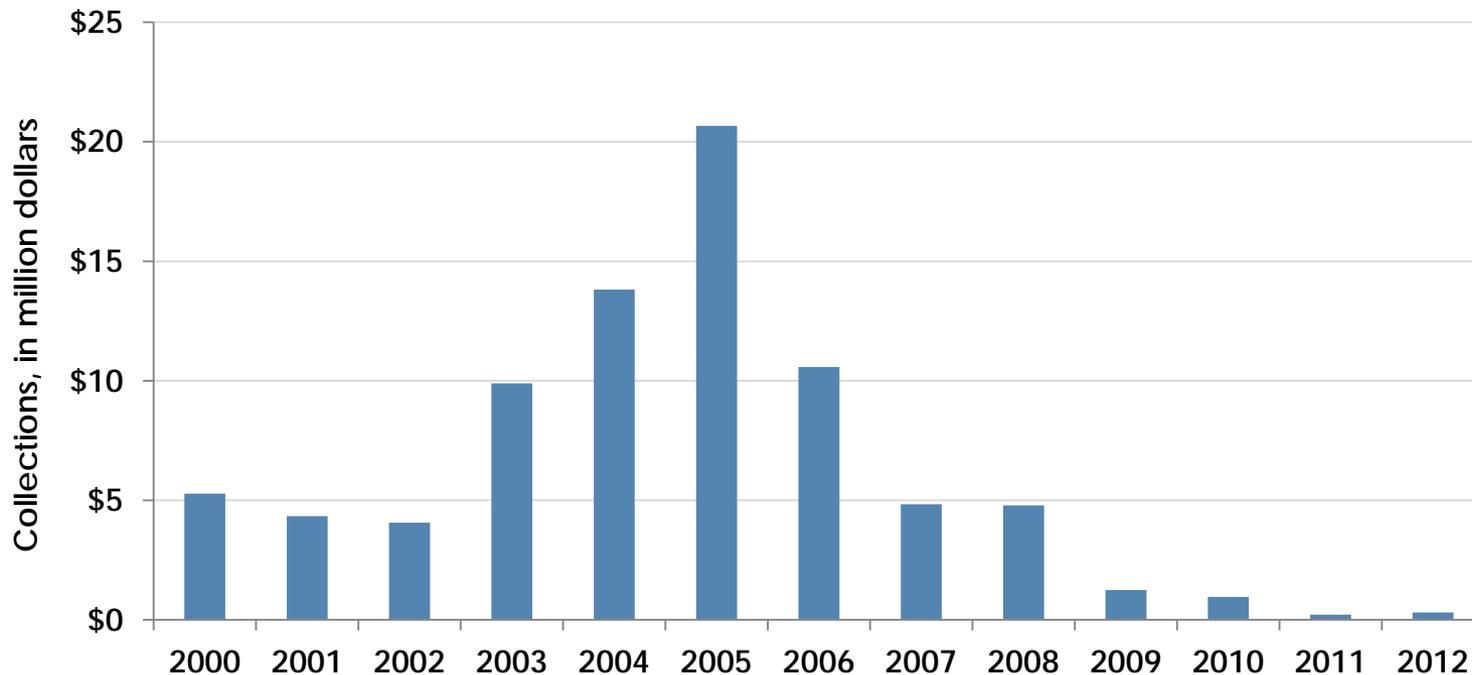


The number of active accounts has flattened in North Las Vegas.





As a result, the City of North Las Vegas has experienced a significant decline in System Development Charge revenues.





Questions?

# System Summary

## Potable Water

	Local Systems	SNWA
Active Services	542,000	5
Pipeline (in miles)	6,800+	163
Pumping Stations	107	28
Reservoirs	122	38
Storage Capacity (million gallons)	1,118	240

# RATE COMPARISON: Single-Family

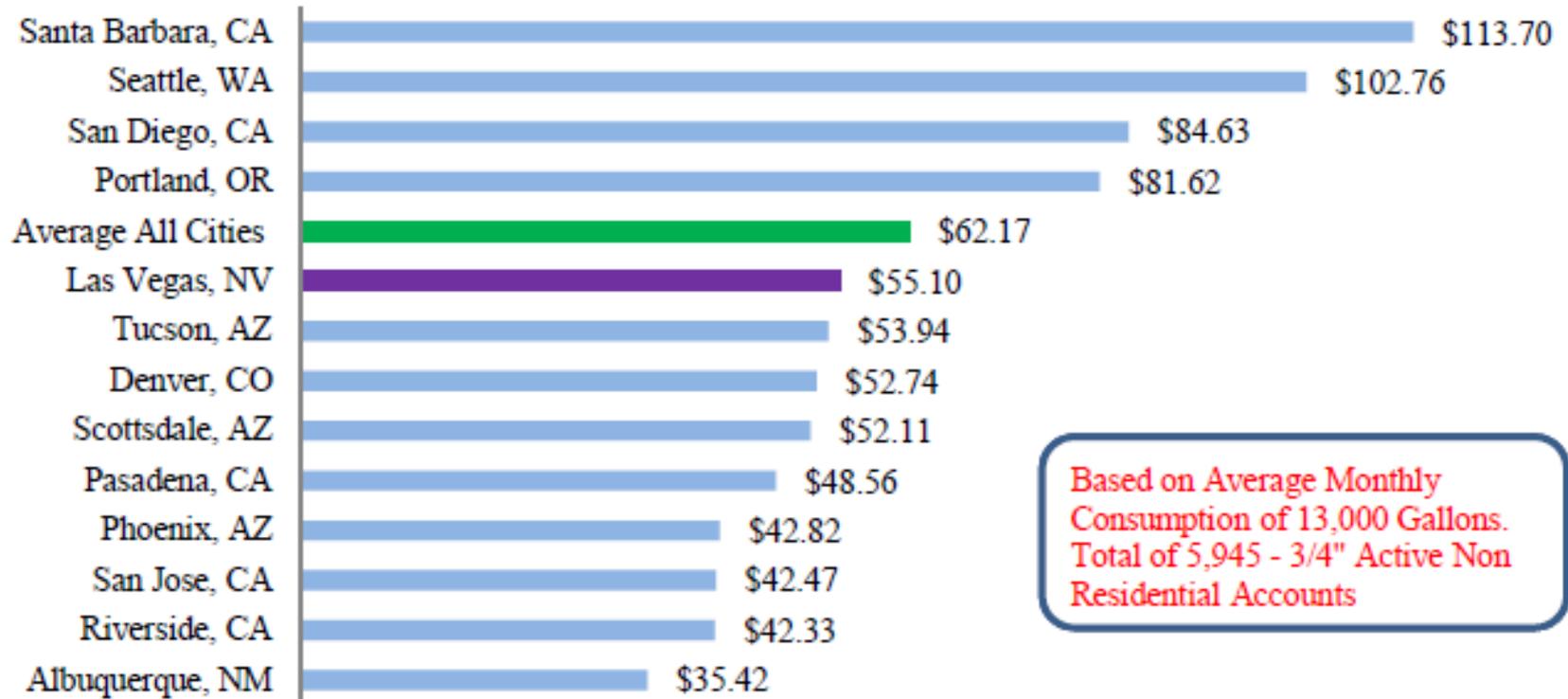
CITY	\$10 - \$20	\$20 - \$30	\$30 - \$40	\$40 - \$50	\$50 - \$60	\$60 - \$70	\$70 - \$80	\$80 - \$90	\$90 - \$100	Over \$100
Santa Fe, NM										\$146.22
Santa Cruz, CA (OC)										\$123.54
Santa Barbara, CA (OC)										\$121.50
Colorado Springs, CO (OC)										\$107.19
Seattle, WA (OC)										\$105.28
Reno, NV (Un-metered)									\$98.33	
Santa Cruz, CA									\$96.92	
Santa Barbara, CA									\$93.46	
Seattle, WA									\$92.33	
San Francisco, CA								\$86.46		
San Francisco, CA (OC)								\$86.46		
San Diego, CA								\$80.78		
Portland, OR							\$77.32			
Colorado Springs, CO							\$71.57			
Flagstaff, AZ							\$70.58			
Marin, CA (MMWD)							\$70.08			
Santa Rosa, CA						\$68.27				
Phoenix, AZ (OC)						\$66.73				
Los Angeles, CA						\$63.48				
Oakland, CA (EBMUD)					\$58.30					
Pasadena, CA (OC)					\$58.22					
Tucson, AZ					\$56.78					
San Jose, CA					\$54.86					
Houston, TX					\$54.31					
Kingman, AZ (OC)					\$52.28					
Cheyenne, WY					\$50.69					
Riverside, CA (OC)					\$50.51					
San Antonio, TX (OC)				\$49.35						
Long Beach, CA				\$48.35						
Pasadena, CA				\$47.33						
Phoenix, AZ				\$46.70						
Victorville, CA				\$46.56						
Scottsdale, AZ				\$45.90						
Reno, NV (Metered)				\$45.69						
San Antonio, TX				\$42.71						
Las Vegas, NV				\$41.56						
Denver, CO				\$41.49						
Dallas, TX				\$41.18						
Denver, CO (OC)				\$40.78						
Henderson, NV				\$40.70						
Kingman, AZ				\$40.46						
Tacoma, WA				\$40.36						
North Las Vegas, NV				\$39.40						
Billings, MT (OC)				\$39.19						
Billings, MT				\$38.51						
Boise, ID				\$38.13						
Boulder, CO				\$36.75						
Albuquerque, NM				\$36.26						
Anaheim, CA (OC)				\$35.51						
San Bernardino, CA				\$34.31						
Salt Lake City, UT (OC)				\$33.92						
Riverside, CA				\$33.67						
El Paso, TX				\$33.38						
Anaheim, CA				\$32.28						
Boulder City, NV		\$29.85								
St. George, UT		\$27.71								
Redding, CA		\$27.01								
Salt Lake City, UT		\$25.23								
Cedar City, UT	\$19.17									

Based on LVVWD Average Monthly Single-Family Consumption of 11,900 gallons and a 5/8 or 3/4 Inch Service Charge for Comparison.

OC - Outside City  
MMWD - Marin Municipal Water District  
EBMUD - East Bay Metropolitan Utilities District

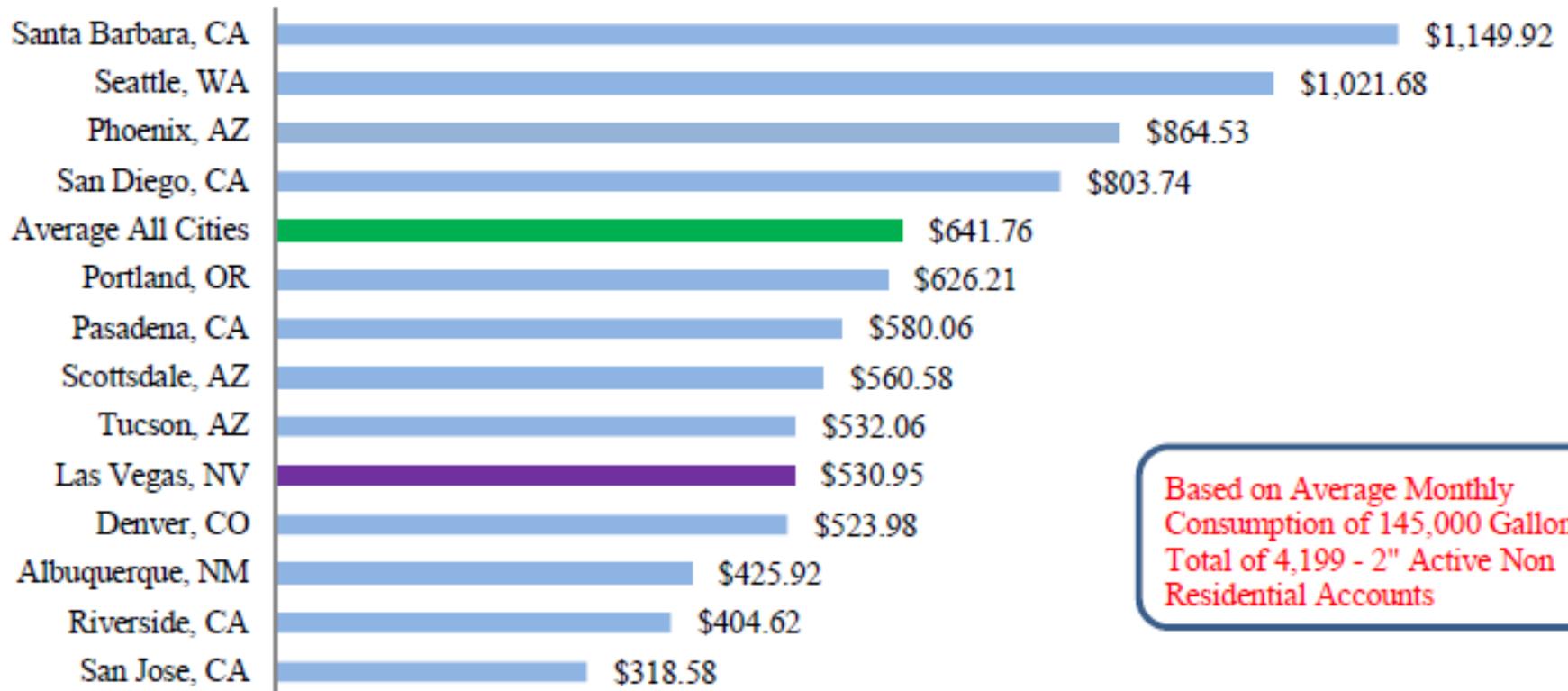
# RATE COMPARISON: Commercial Rates

**3/4" Service - Estimated Total Monthly Bill Comparison  
for Commercial Customers**



# RATE COMPARISON: Commercial Rates

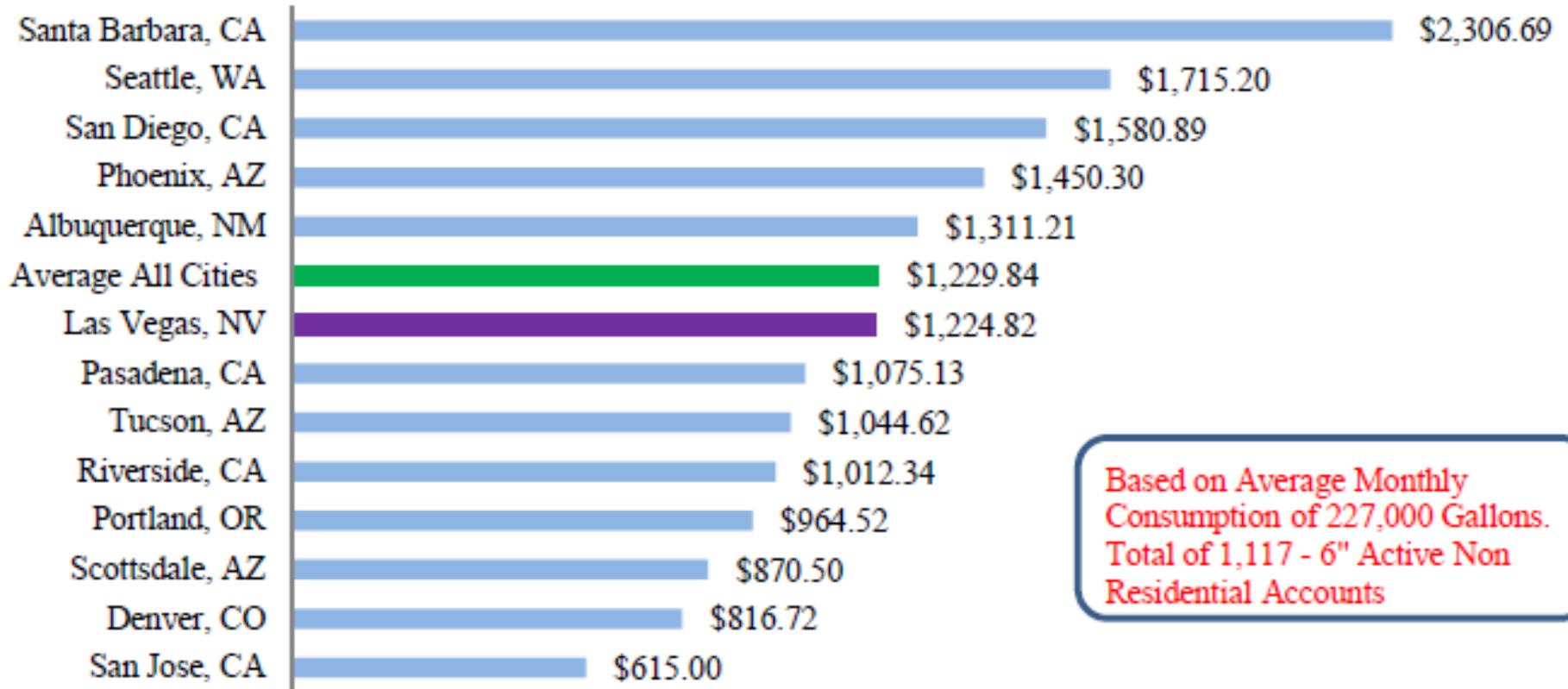
## 2" Service - Estimated Total Monthly Bill Comparison for Commercial Customers



Based on Average Monthly Consumption of 145,000 Gallons.  
Total of 4,199 - 2" Active Non Residential Accounts

# RATE COMPARISON: Commercial Rates

## 6" Service - Estimated Total Monthly Bill Comparison for Commercial Customers



Based on Average Monthly Consumption of 227,000 Gallons. Total of 1,117 - 6" Active Non Residential Accounts

Questions?

<b>Attribute</b>	<b>Definition</b>
<b>Legal</b>	A threshold requirement. Any rate structure must be fully compliant with all applicable laws and regulations.
<b>Provide enough money</b>	A threshold requirement. [Sufficiency?] Any rate structure must provide adequate revenues to cover costs and appropriate levels of reserves.

<b>Attribute</b>	<b>Definition</b>
<b>Financeable</b>	Relates to credit quality. Generates a reliable revenue stream and maintains adequate reserves for favorable bond ratings.

<b>Attribute</b>	<b>Definition</b>
<b>Equitable</b>	Relates to those who are better able to pay higher amounts bearing a higher share of the overall burden and those who are the same in relevant aspects being treated equally.
<b>Fair</b>	[Combine fair and equitable into a single attribute?]

<b>Attribute</b>	<b>Definition</b>
<b>Scalable</b>	
<b>Stable</b>	Relates to the degree of volatility. “Stable” implies that lower volatility is more desirable than higher volatility.
<b>Address economic environment at any point in time</b>	Relates to the ability to maintain consistent revenues (neither too low nor too high) under changing economic conditions. [Should this be combined with stability? Scalable?]

<b>Attribute</b>	<b>Definition</b>
<b>Take into account region's primary economic drivers</b>	Should not discourage those business/industry sectors that are primary drivers of the region's economy.
<b>Encourage economic development consistent with water supply</b>	Relates to the rates' influence in encouraging economic development among business/industry sectors with a lower consumptive water use footprint.

<b>Attribute</b>	<b>Definition</b>
<b>Encourage conservation</b>	Relates to the rate structure's effectiveness at encouraging the conservation of water, especially outdoor conservation.

<b>Attribute</b>	<b>Definition</b>
<b>Simple to administer</b>	Relates to the ability to administer and enforce in a low-cost manner.

<b>Attribute</b>	<b>Definition</b>
<b>Responsible</b>	
<b>Transparent</b>	Relates to the ability of the customer (person or business) to readily calculate the individual charges comprising the total bill.
<b>Understandable</b>	[Same as transparent?]

<b>Attribute</b>	<b>Definition</b>
<b>Competitive (relative to environment)</b>	It is desirable that the cost of water be competitive with other regions/ jurisdictions in the southwestern US.

<b>Attribute</b>	<b>Definition</b>
<b>Able to project/ budget</b>	[Predictable?] Relates to the ability of both the customer and utility to reasonably forecast the costs and revenues, respectively, from individual rate components and the total rate.

