

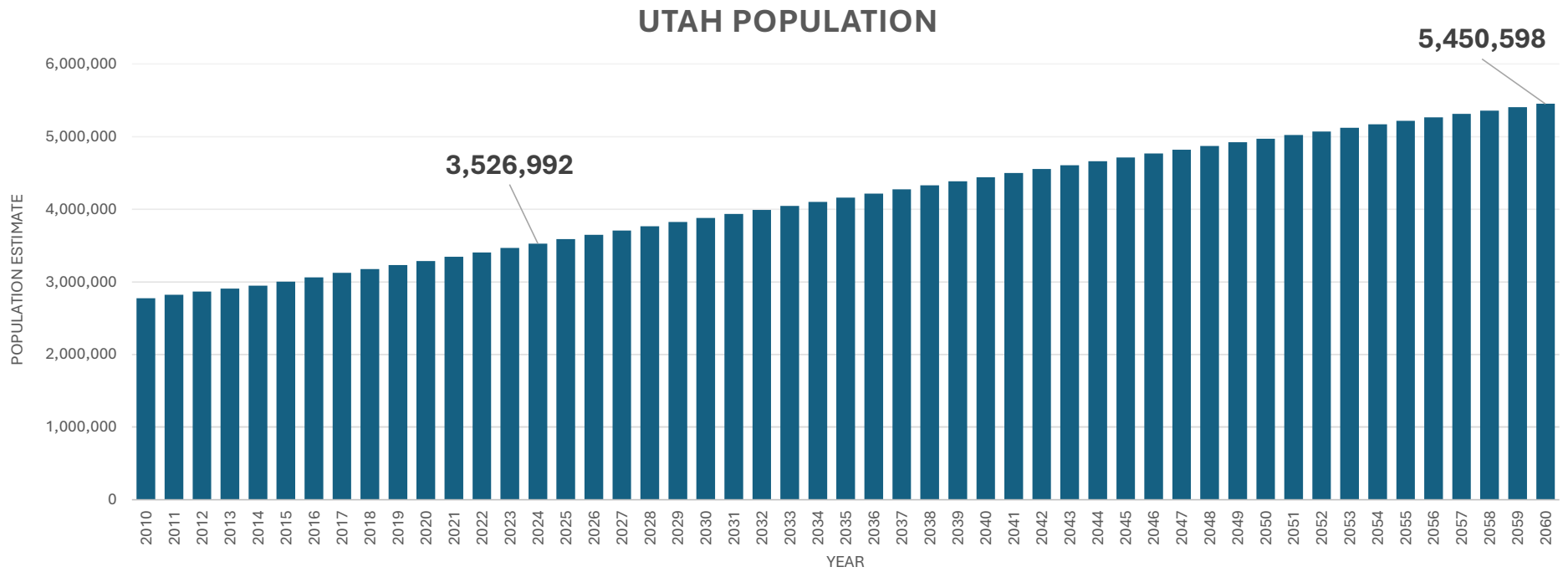


Understanding and Sharing  
Your City's Story Through  
Data

# Macroscopic Trends

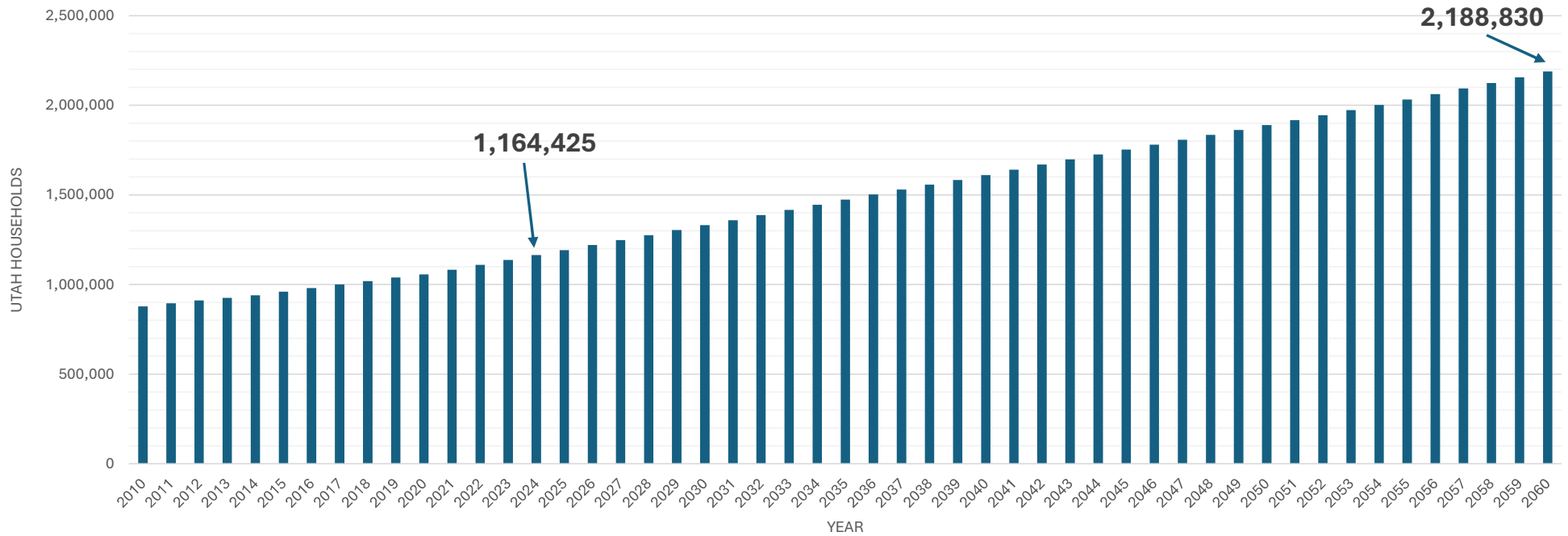
Growth & Infrastructure Challenges in Utah

# Utah Population Growth



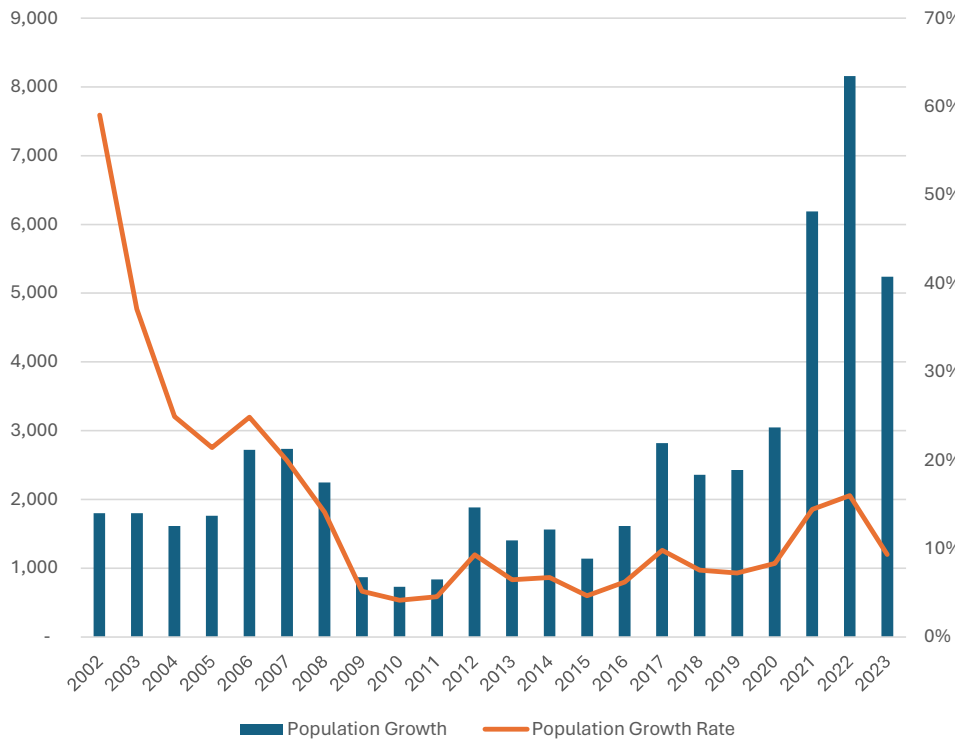
# Household Growth

## Projected Household Growth

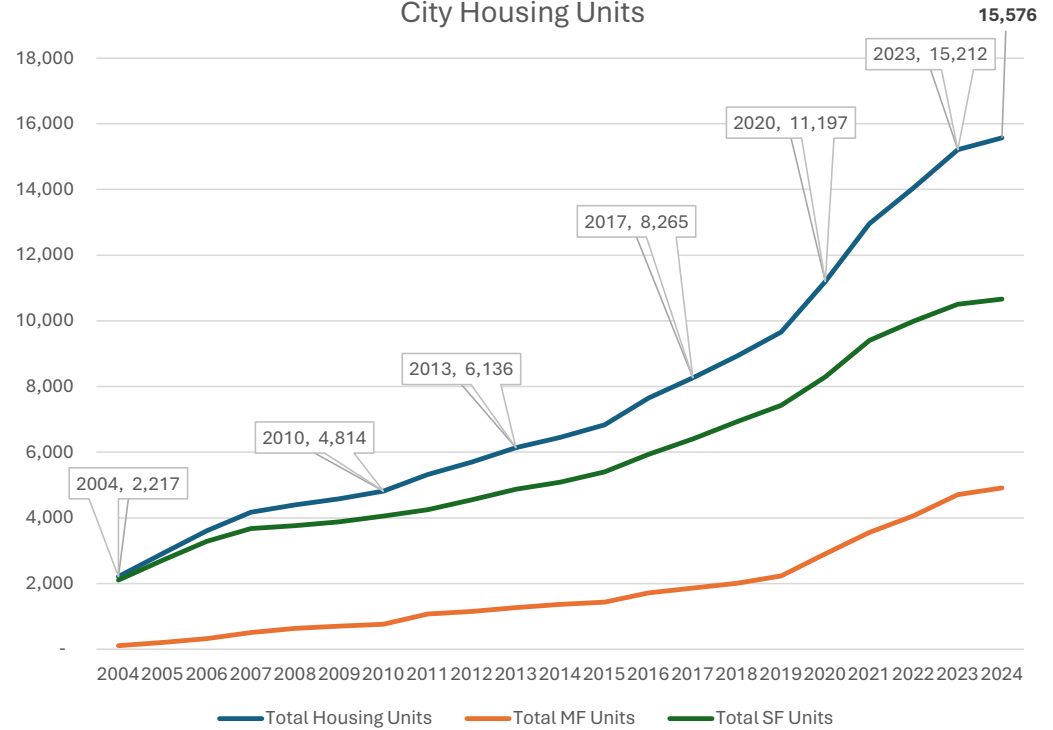


# Population Growth

City Population Growth



City Housing Units





---

# Perception of Housing Shortage

The Salt Lake Tribune

## Opinion: More suburban sprawl won't fix Utah's housing affordability problem

To solve the state's affordable housing crisis, Utah needs more walkable neighborhoods.

 **DeseretNews**

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X

f

UTAH | POLITICS

## Why zoning is key to watch as Utah legislators tackle the issue of affordable housing

A look back at the legislative audit report issued late last year

Published: Jan 13, 2024, 6:03 p.m. MST



VIEW COMMENTS



SHARE

# Housing Growth

## New Housing Units

Local governments permitted **155,321** housing units in past five years (2019-2023).<sup>1</sup>

## Housing Pipeline

Local governments have more than **190,962** entitled housing units<sup>2</sup>

1. Kem C. Gardner Policy Institute Ivory-Boyer Construction Database;

2. 2023 ULCT Municipal Land Use Survey

What does growth  
mean for municipal  
infrastructure?





# Why is this session important to all of us?



TRUTH VS REALITY

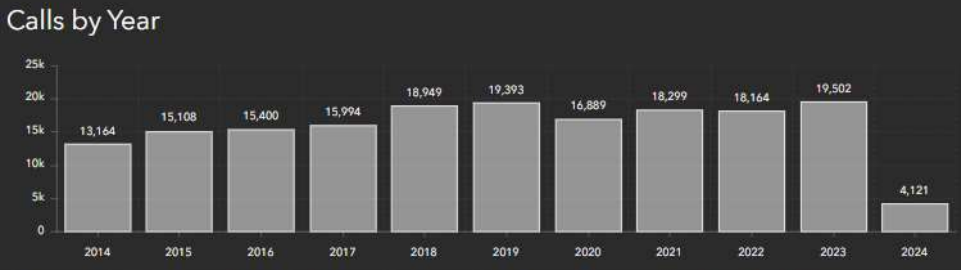
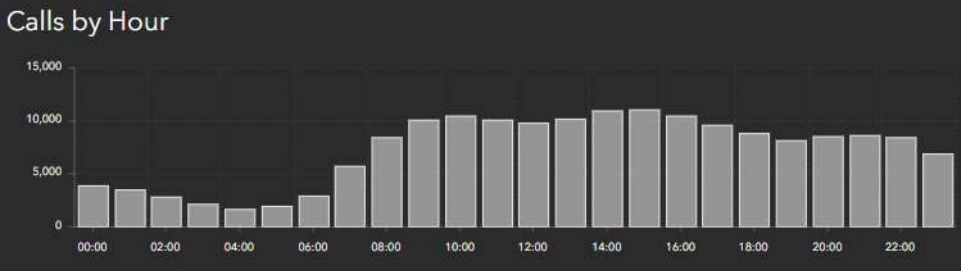
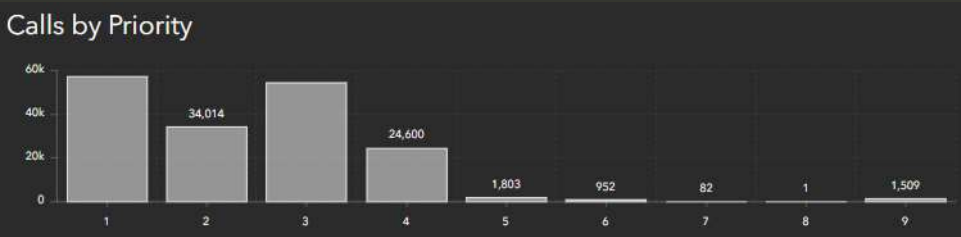


DEVELOPMENT



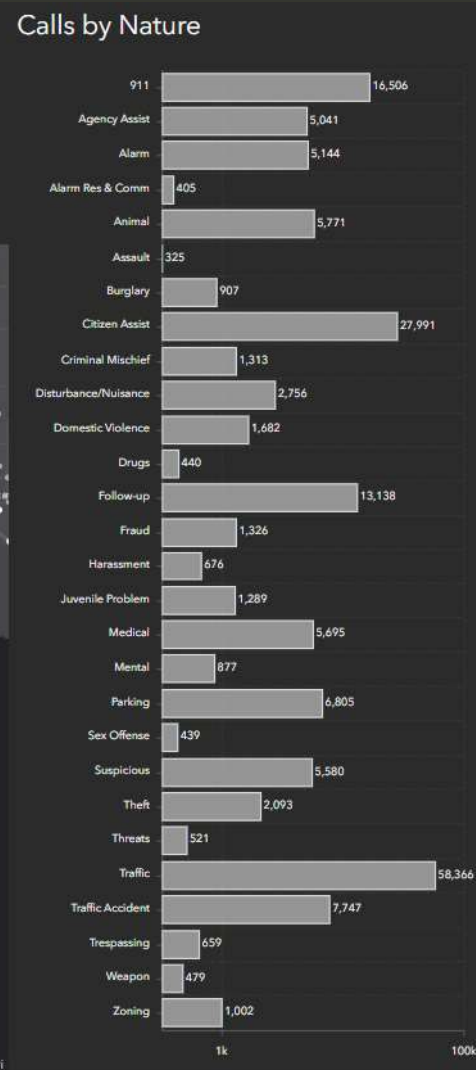
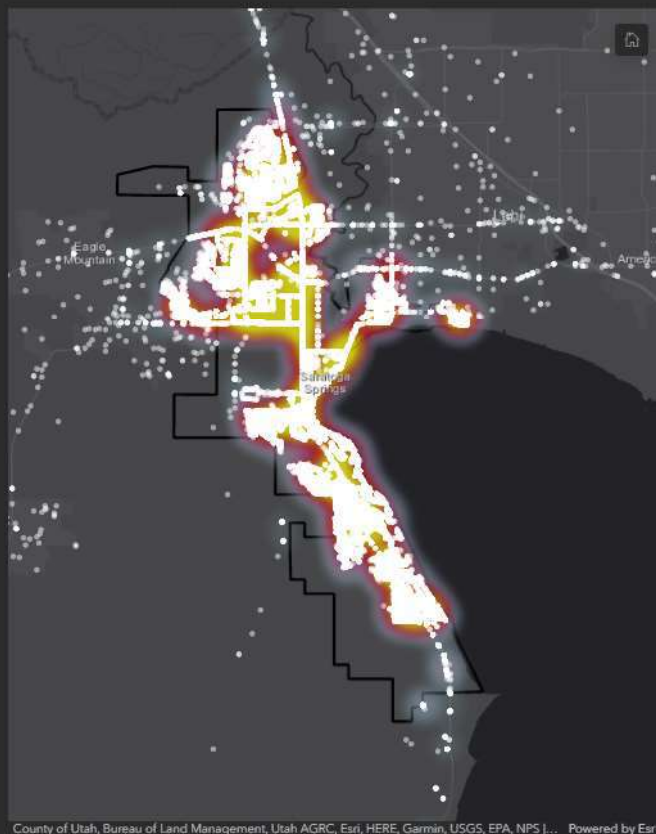
RESOURCE MANAGEMENT  
AND ALLOCATION

# Saratoga Springs Police Activity

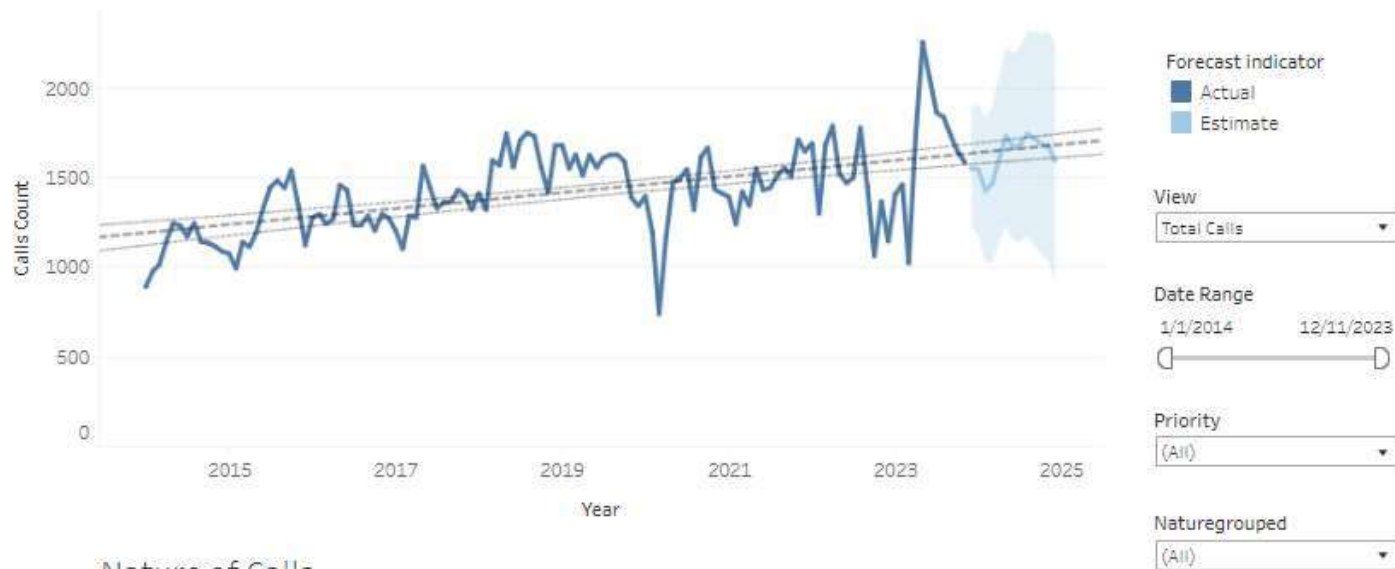


## Total Calls

# 174,983



## Police Call Trends



## Nature of Calls

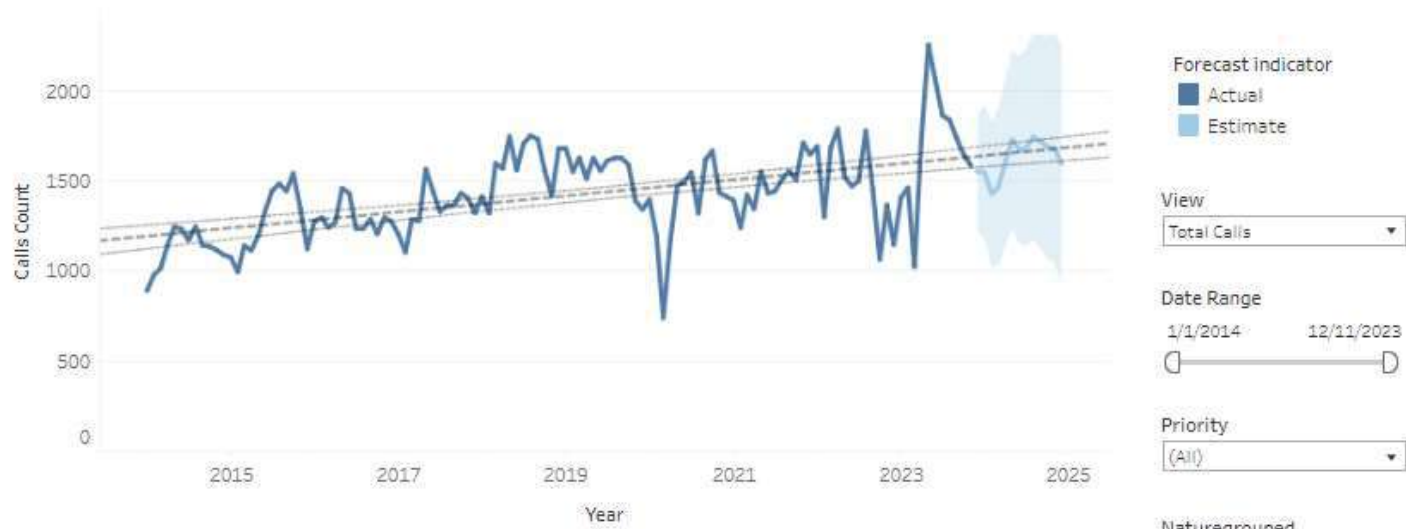


This dashboard presents trends in call frequency from 2014 through 2022 with a trendline for reference. The center trendline (thicker dashes) indicates the best fit-regression line for the current data. The confidence bands (thinner dashes above and below the center line) give a 95% confidence for the trendline.

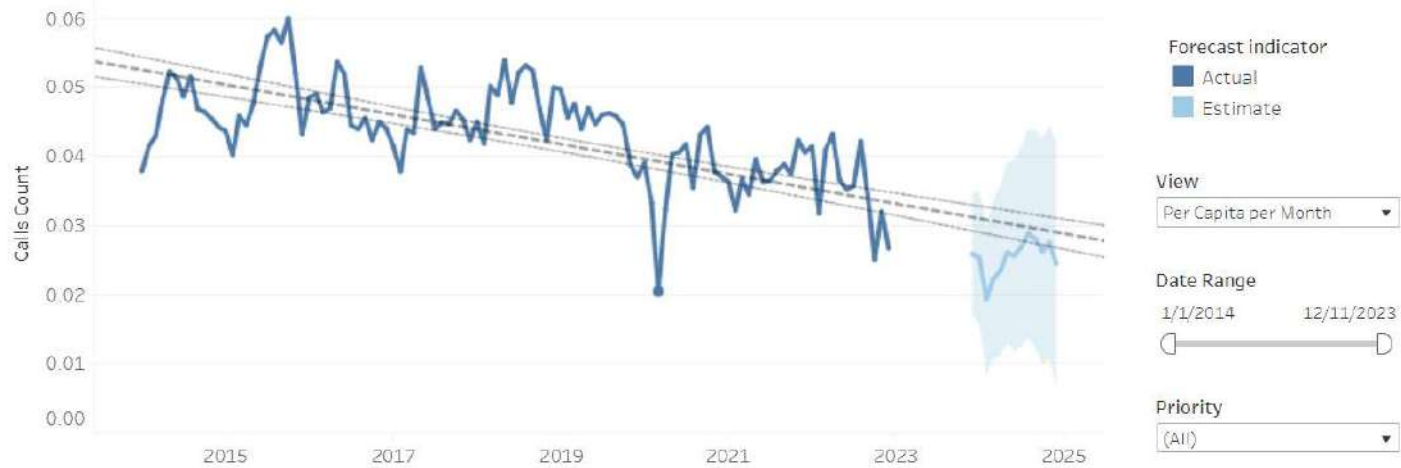
Calls are filterable by year, type of call, and priority level. Priority level is assigned by call dispatchers and follows the Spillman user categorization guidelines.

Use the "View" dropdown menu to switch between three different views: total calls per month, calls per officer per month, and calls per resident per month.

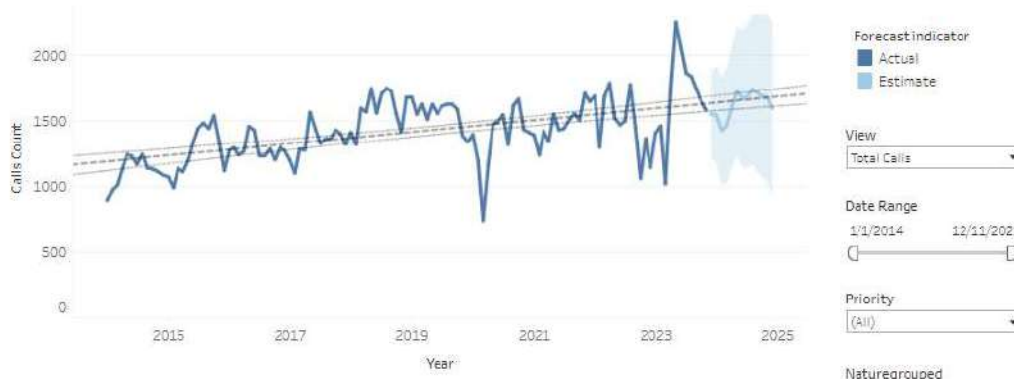
## Police Call Trends



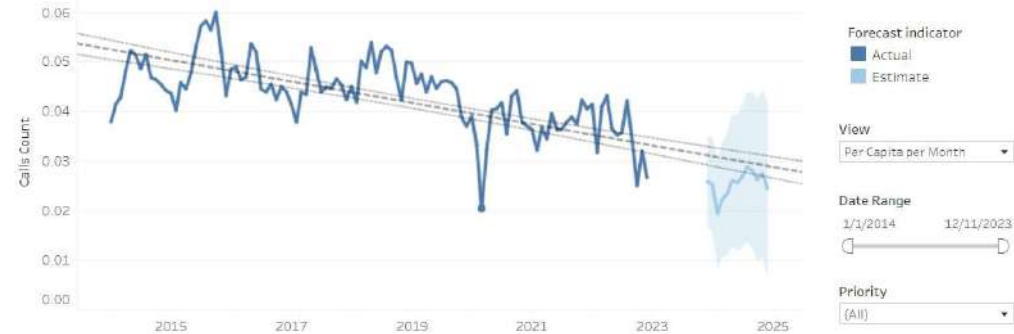
## Police Call Trends



### Police Call Trends



### Police Call Trends

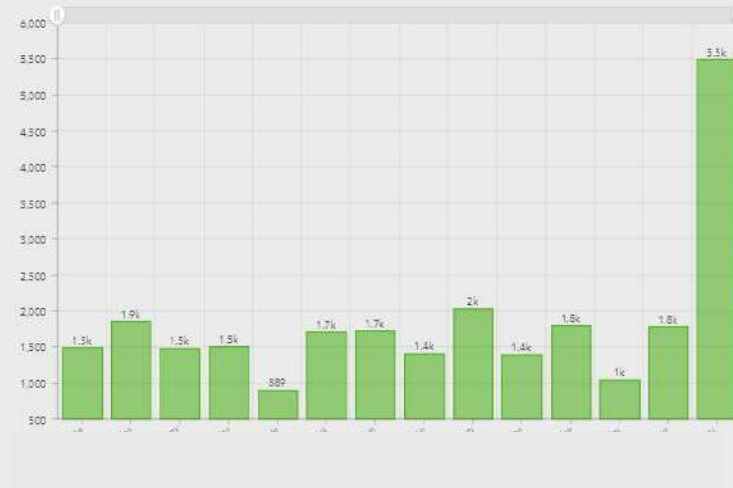
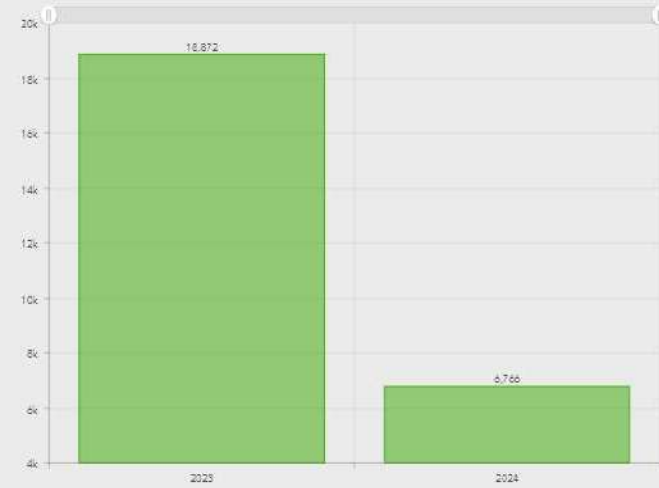


### Police Call Trends

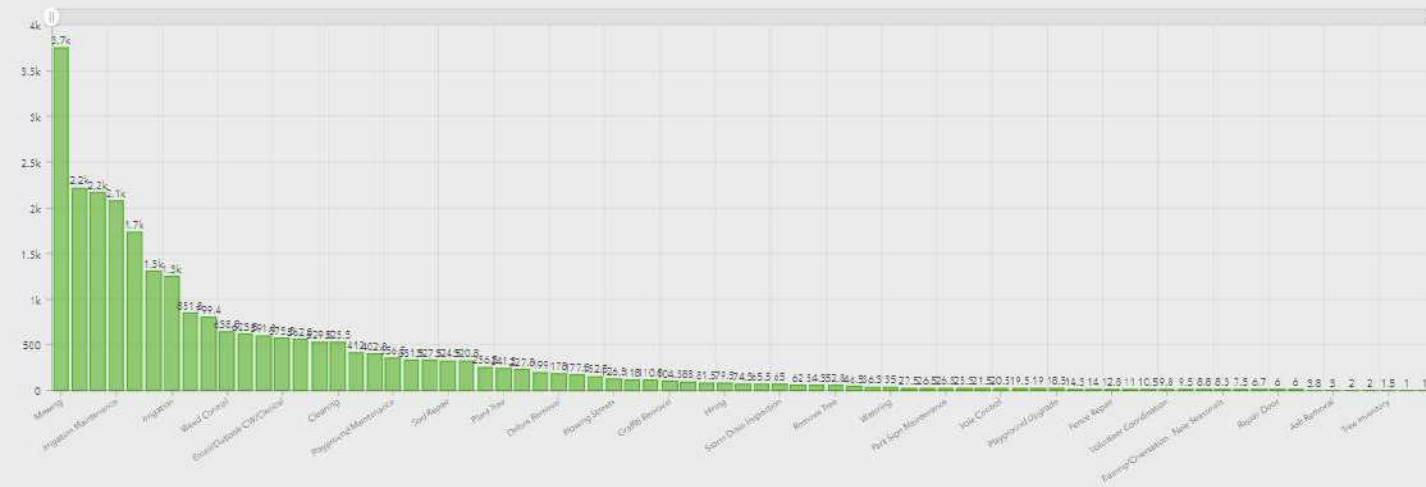


Labor Hours Sum

Employee Hours



WO Desc/Labor Hours ALL



44234	Fence Repair	January 29, 2024
47117	Equipment Maintenance	October 4, 2023
49690	Recreation Help	July 5, 2023
49825	Playground Upgrade	May 17, 2023
51848	Storm Drain Inspection	November 15, 2023
51850	Storm Drain Inspection	November 15, 2023
51943	Irrigation Maintenance	August 23, 2023
52282	Playground Maintenance	February 1, 2024
52329	Pruning	November 14, 2023
52330	Pruning	October 24, 2023
52331	Pruning	June 7, 2023
52332	Pruning	January 2, 2024
52335	Pruning	January 2, 2024
52336	Pruning	January 29, 2024
52337	Pruning	February 14, 2024
52338	Remove Tree	February 21, 2024
52340		

See web site for license constraints

Powered by Etri

Labor Hour Sum

25,637.8

Number of Work Orders

30,821

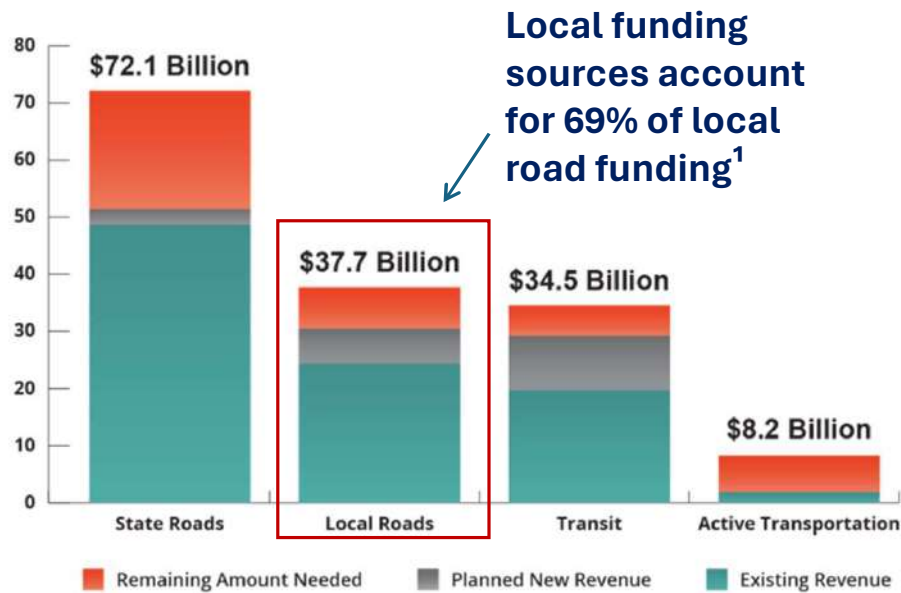


# Transportation Improvements

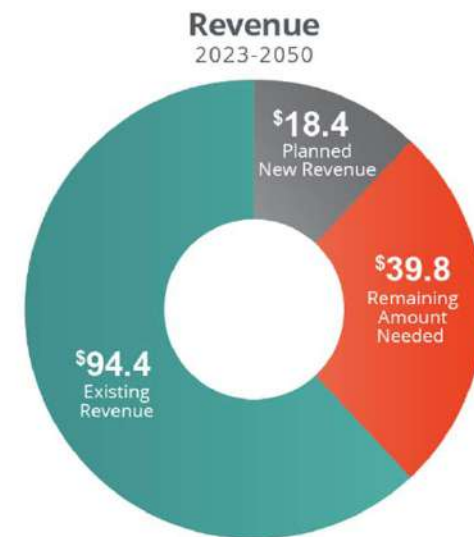
- Utah municipalities are already responsible for maintaining **12,901** miles of road<sup>1</sup>.
- 42% of Utah roads are in poor or fair condition<sup>2</sup>.

1. [UDOT Local Government B&C Program 2024 Mileage Report](#);  
2. [2023 ASCE Infrastructure Report Card](#)

# Transportation funding



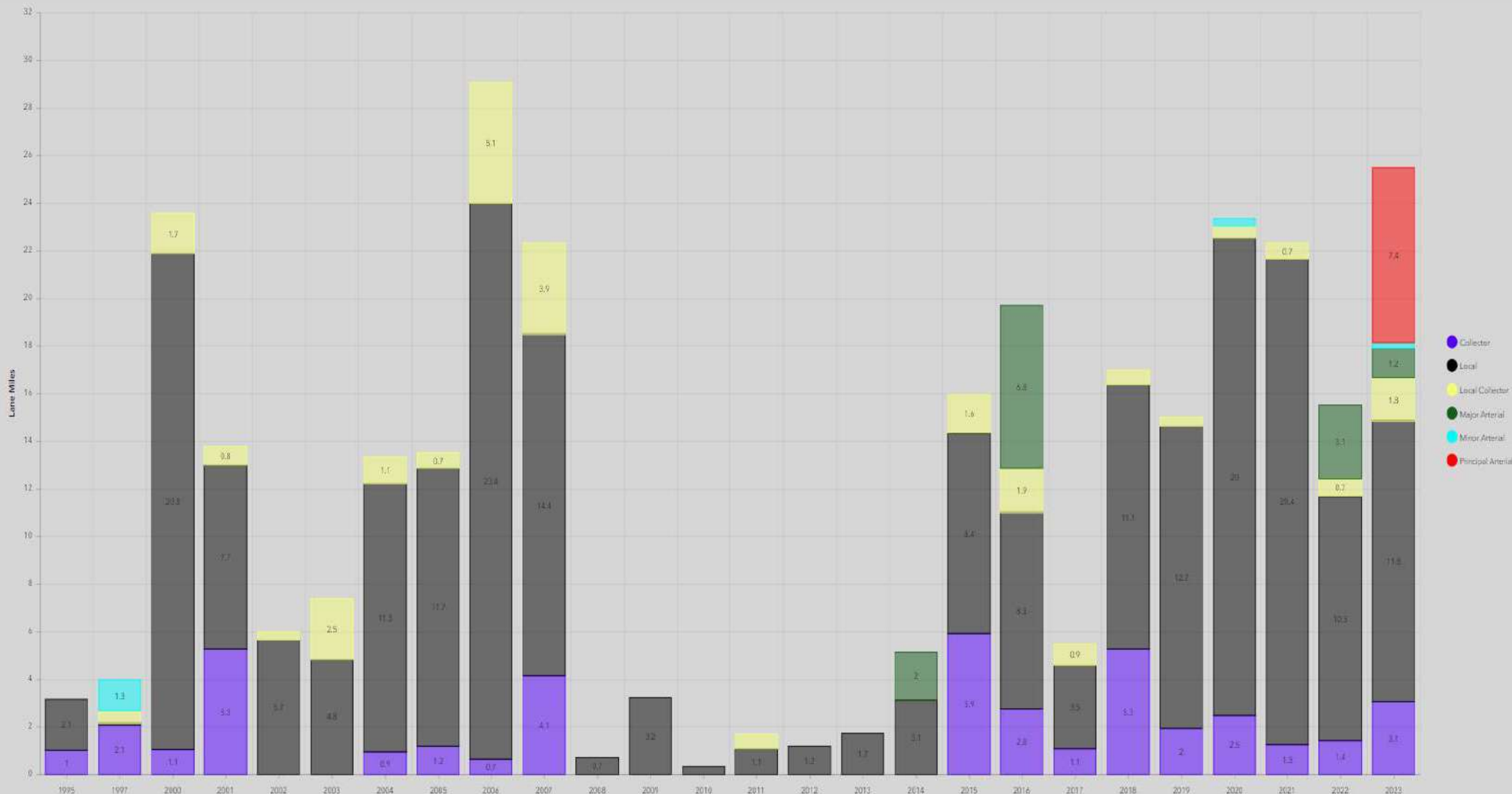
## UTAH'S 2023-2050 UNIFIED TRANSPORTATION PLAN



All totals in billions

1. Utah's 2030-2050 Unified Transportation Plan







# Water Infrastructure

## **Estimated \$38b in statewide infrastructure costs by 2060<sup>1</sup>**

- \$20.6 billion for repair & replacement of aging infrastructure
- \$17.6 billion for new infrastructure, water supplies, and supplier conservation costs

## **Utah has 885,927 drinking water service lines<sup>2</sup>**

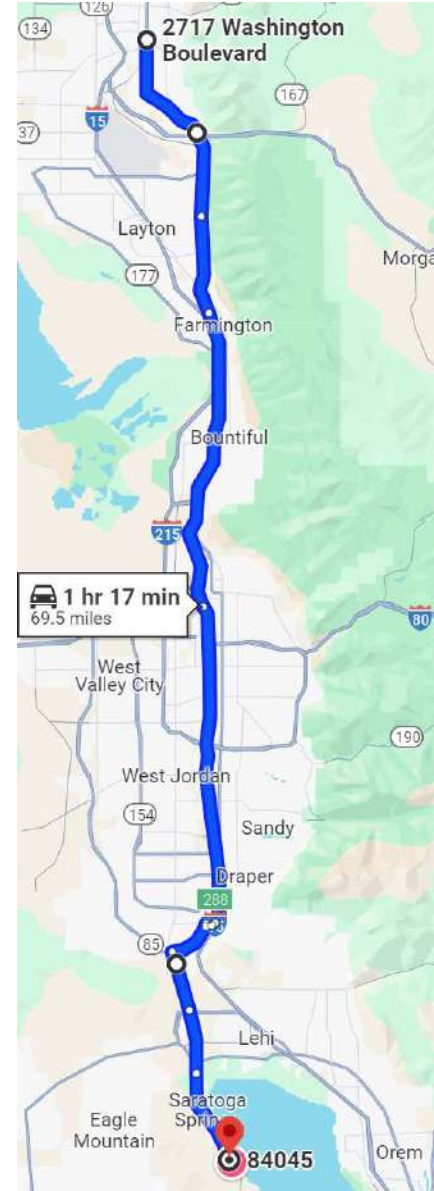
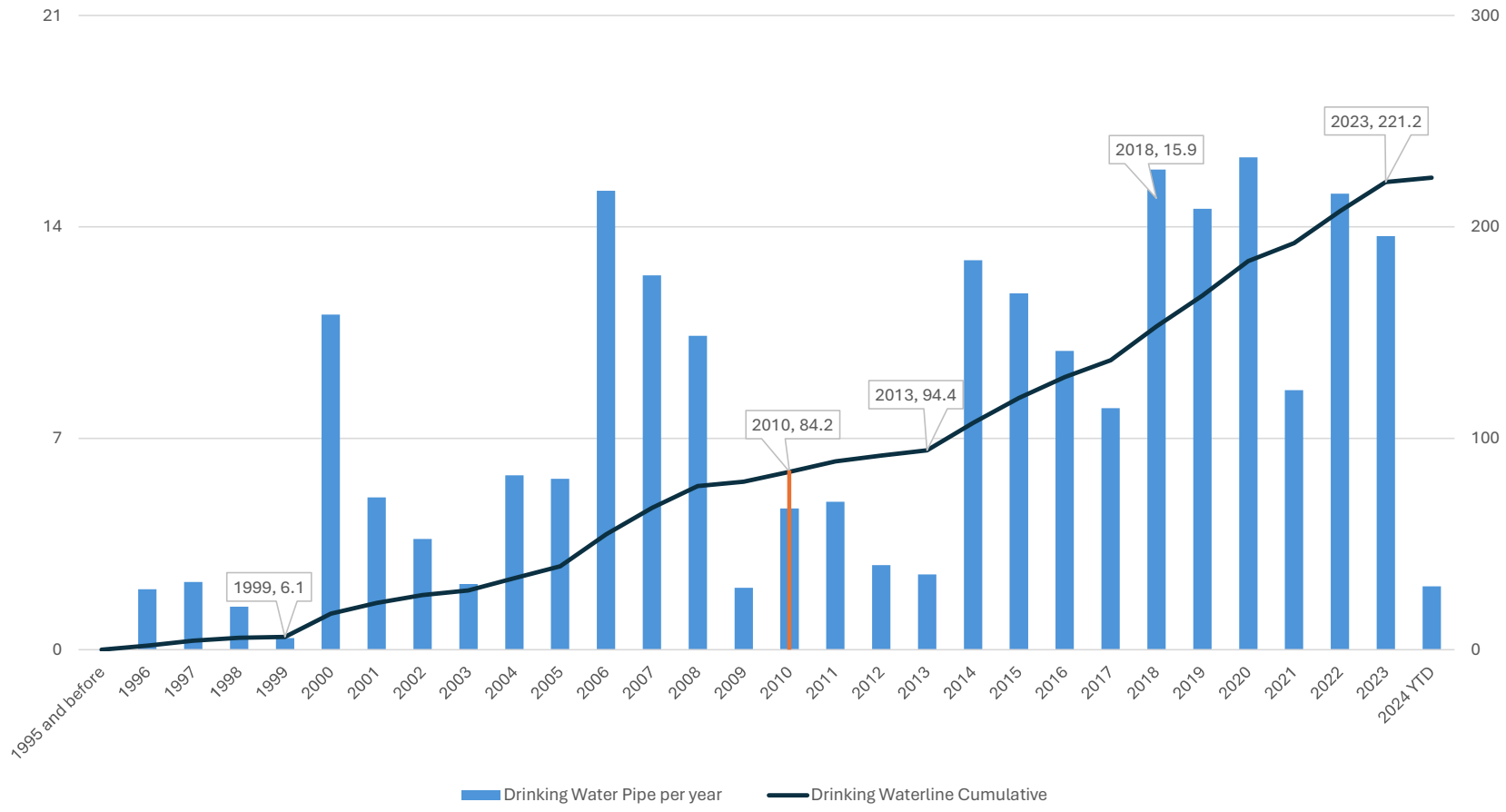
- 9,454 galvanized
- 9,017 lead
- 243,214 unknown

1. *Prep 60 Statewide Water Infrastructure Plan;*

2. *EPA 2023 Drinking Water Infrastructure Needs Survey & Assessment Report to Congress*

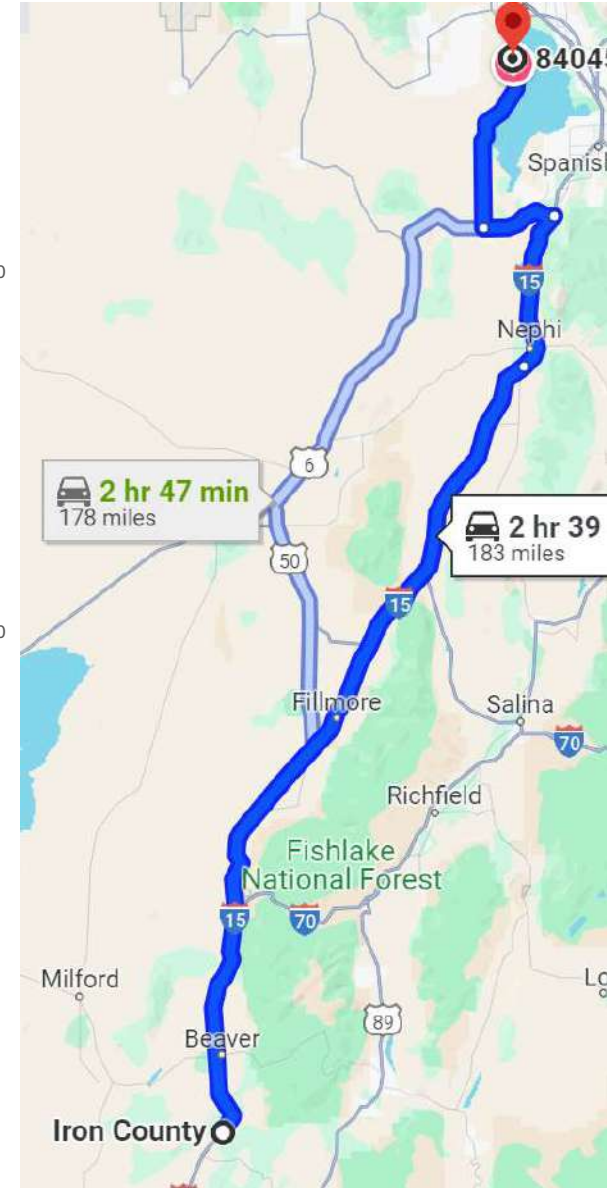
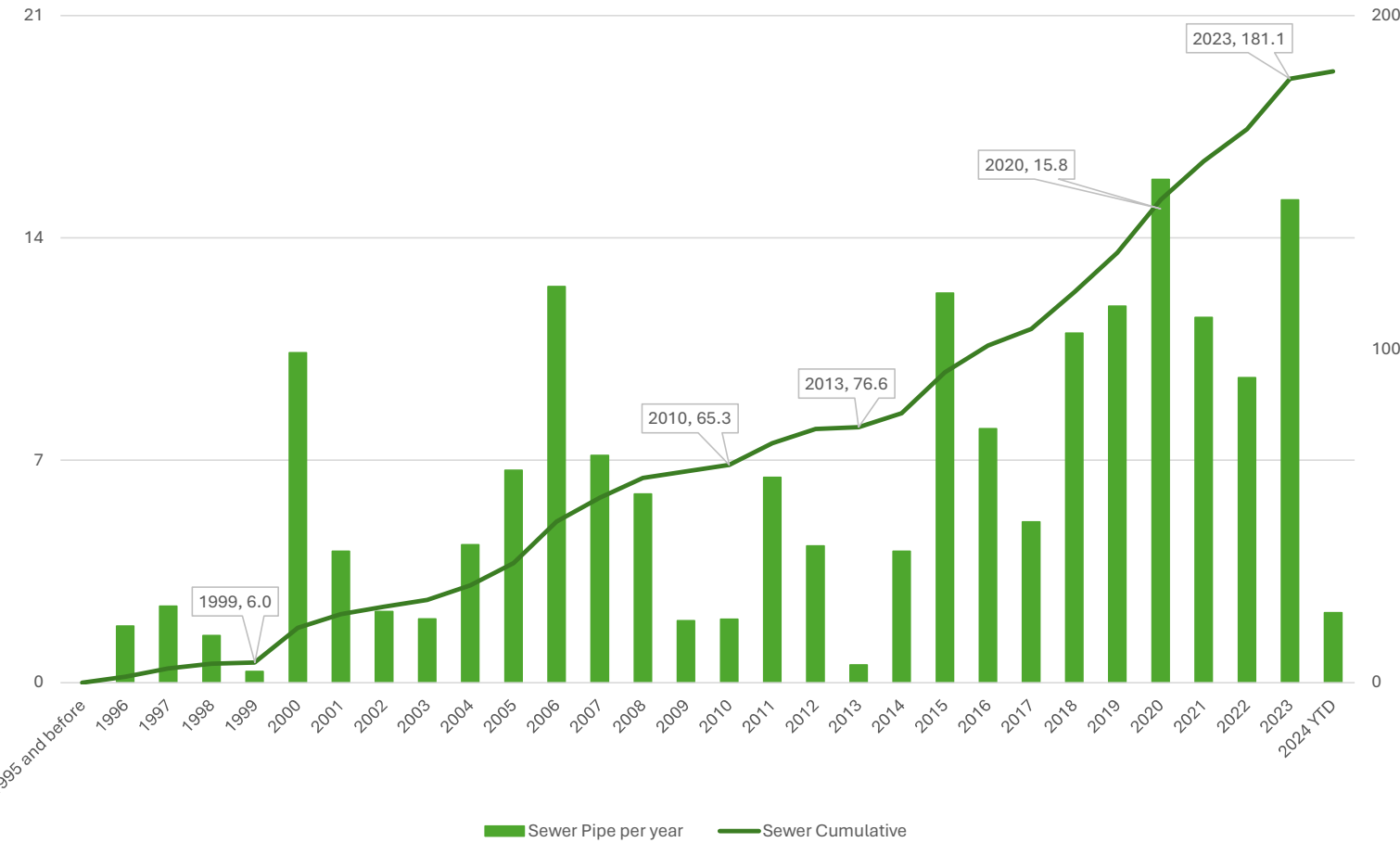
# Utility Growth

Drinking Water Pipe Miles per Year and Cumulative



# Utility Growth

Sewer Pipe Miles per Year and Cumulative



Drinking Waterline  
**223 miles**

Waterline Waterline YTD Installed/Year

Drinking Water Meters  
**14,982**

Meters Meters By Year Crossovers Service Backflow

Fire Hydrant Count  
**2,388**

Hydrants Hydrants YTD Hydrants/Year (database add)

Secondary Waterline  
**190.5 miles**

Secondary Waterline Waterline YTD Installed/Year

Secondary Water Meters  
**11,341**

Meters Meters By Year

Sewer Gravity Main  
**183.1 miles**

Gravity Main Force Main Gravity Main YTD Installed/Year

Sewer Manholes  
**5,119**

Manholes Manholes YTD Manholes By Year

Grease Traps  
**62**

Grease Traps Clean Outs YTD

Storm Drain Gravity Main  
**181.7 miles**

Gravity Main Gravity Main YTD Installed/Year

Storm Drain Manholes  
**5,299**

Manholes Manholes YTD Manholes By Year

Storm Drain Inlets  
**6,426**

Inlets Inlets YTD

Lane Miles  
**317.1**

City Maintained Road Lane Miles/Yr. Split by Class Lane Miles/Year Sum UDOT/Private Sidewalk Signs

Centerline Miles  
**152.6**

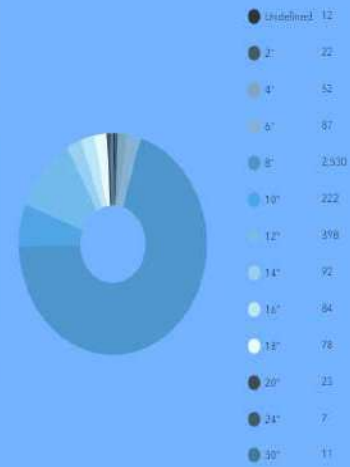
Centerline Miles YTD  
**0.5**

Based on when the centerline was added to the database.

Street Lights  
**3,084**

Street Light Count Lights YTD Lamp Types

Drinking Water Pipe By Diameter



# Developer Narrative – Inspections and reviews not timely

## Inspections Last 7 Days

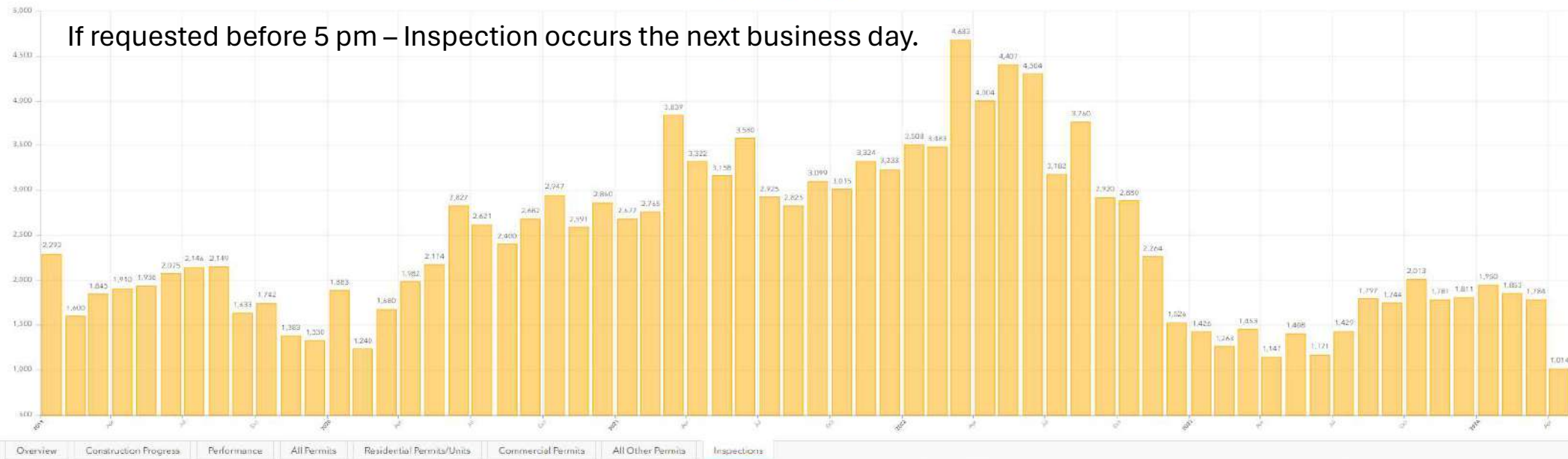
# 669

## Inspections Last 30 Days

# 2,200

Inspections Performed

If requested before 5 pm – Inspection occurs the next business day.



# Developer Narrative – Inspections and reviews are not timely

Building Dept. Dashboard

Average Plan Review

5.4

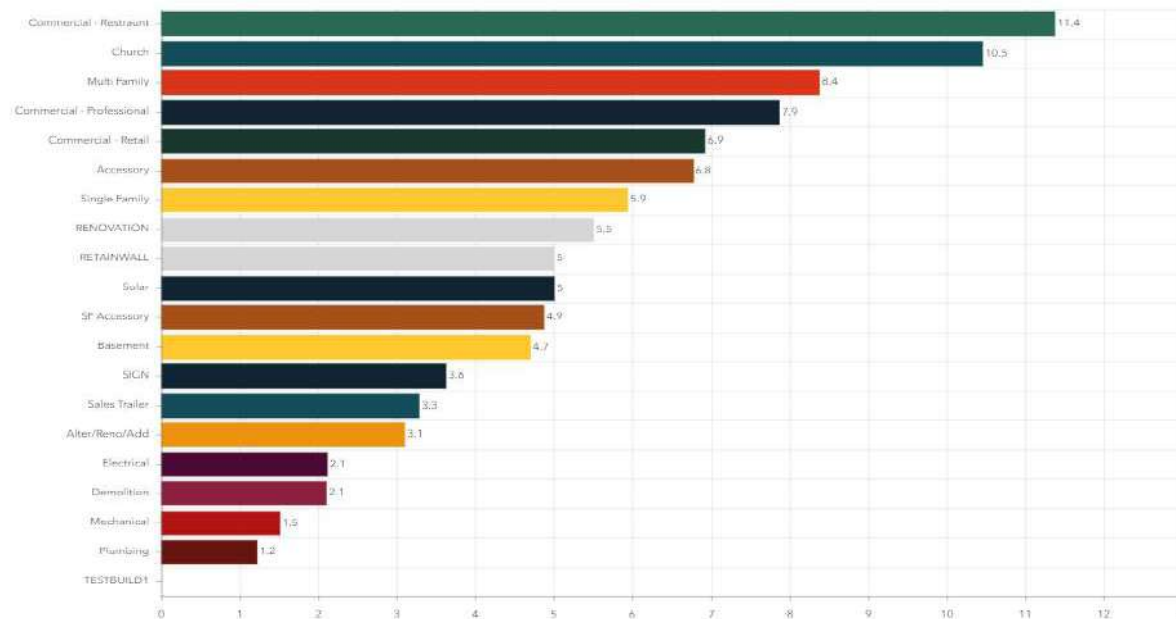
Days

Average Plan Review (90 Days)

6

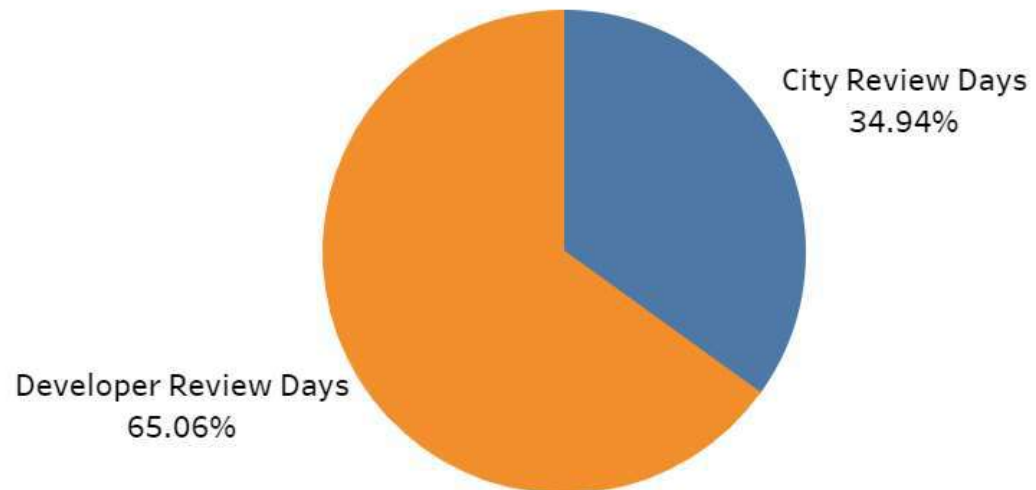
Days

Average Time to Review By Permit Type



# Cities are not turning things around fast enough?

Cityworks Planning Data Visualizations



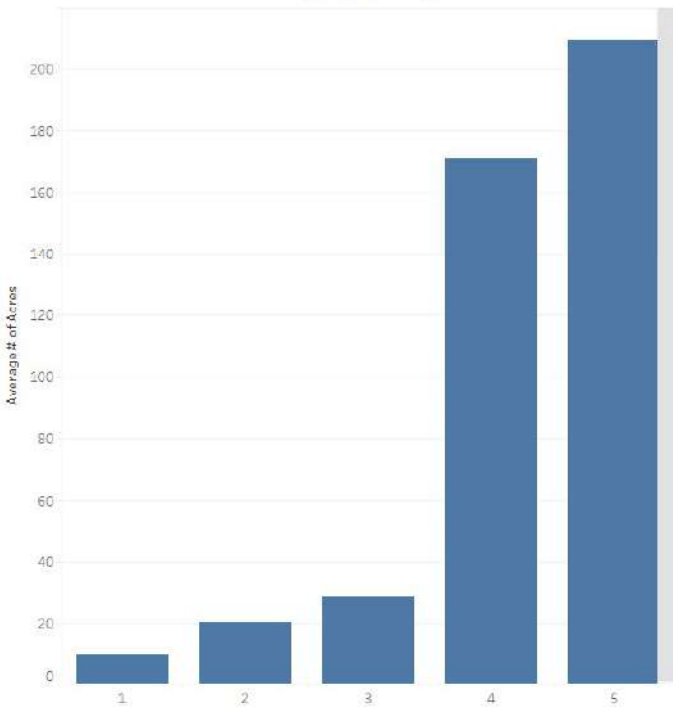


# Size and complexity of applications matter in review times. (1-5 Complexity Rating)

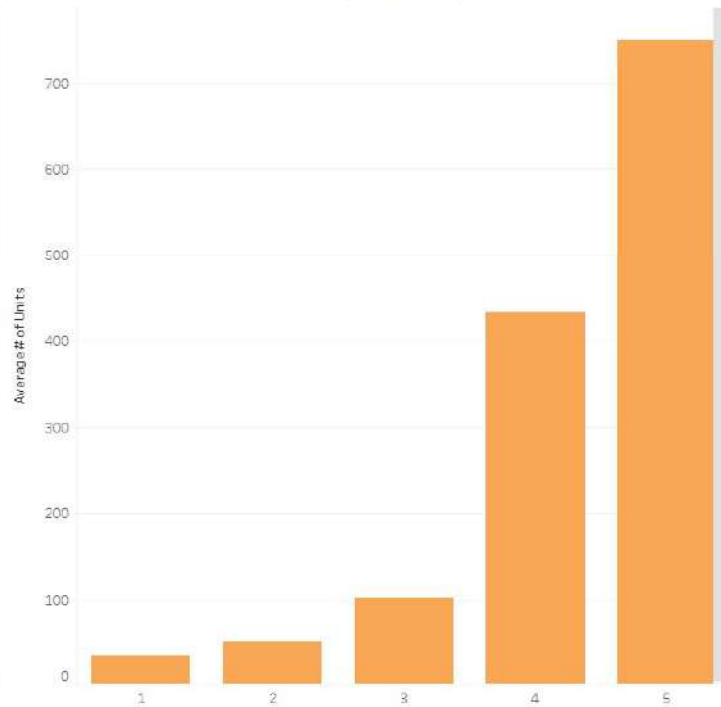
Cityworks Planning Data Visualizations

< Overview of Total Planning Days by Case Planning Review Days by Case Type Complexity by Acres, Units, and Number of Resubmittals Pie Chart - Percentage Breakdown of Total Days >

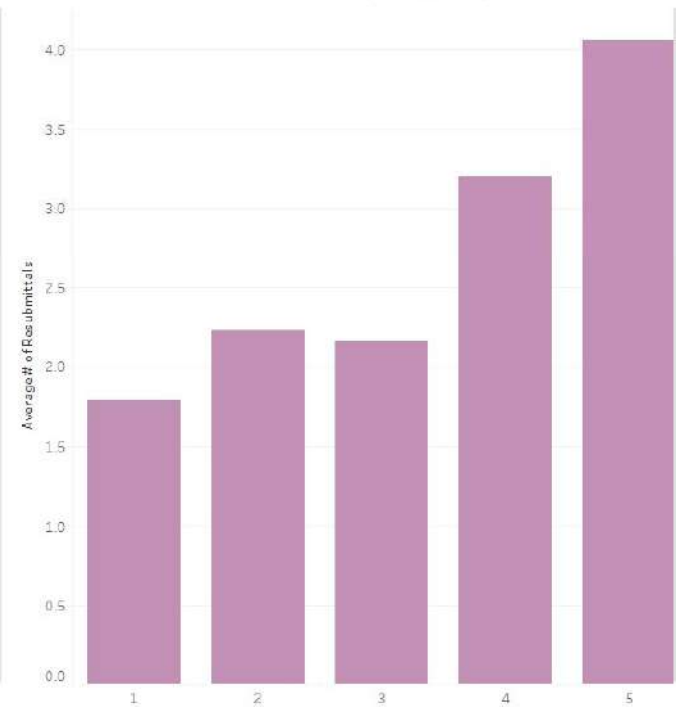
Acres/Complexity



Units/Complexity



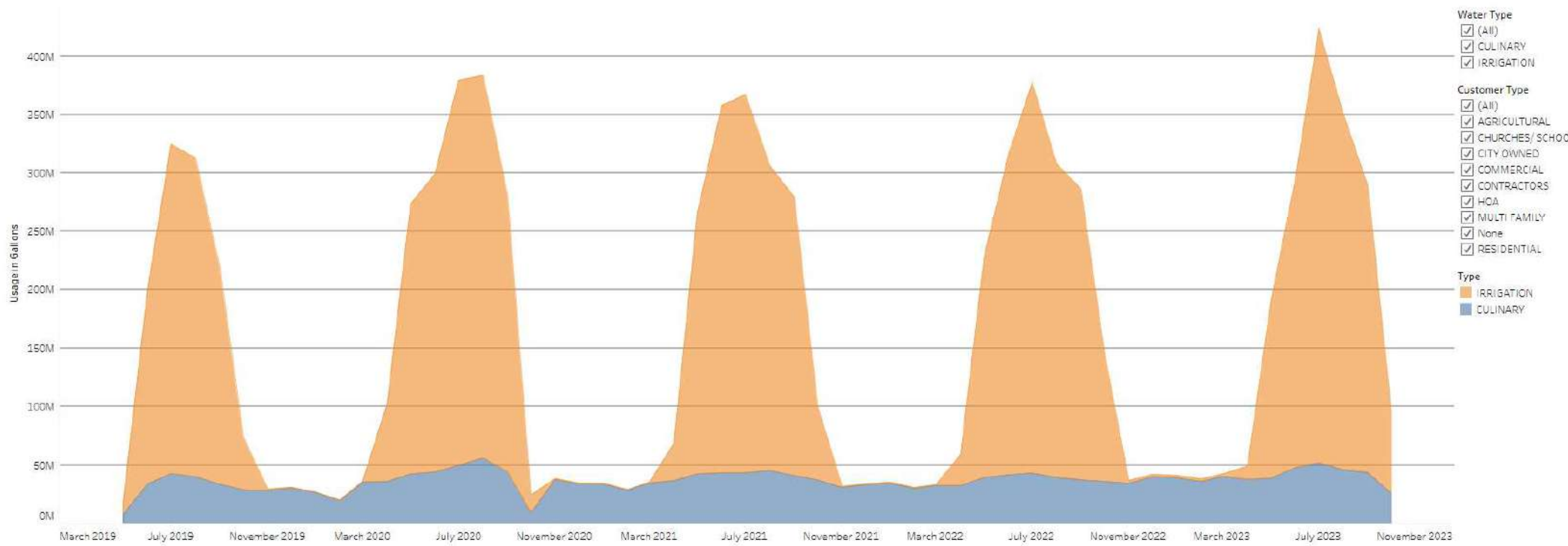
Resubmittals/Complexity




# Water Metering

## Water Analysis

- Total Usage by Day. Filterable by customer type and water type.
- Total usage by month. Filterable by customer type and water type.
- Comparison of the 2021, 2022, and 2023 Irrigation seasons.
- Comparison of 2020, 2021, 2022, and 2023 total Irrigation
- Growth of the city's population compared to the growth of water
- Quick facts about average per capita usage.

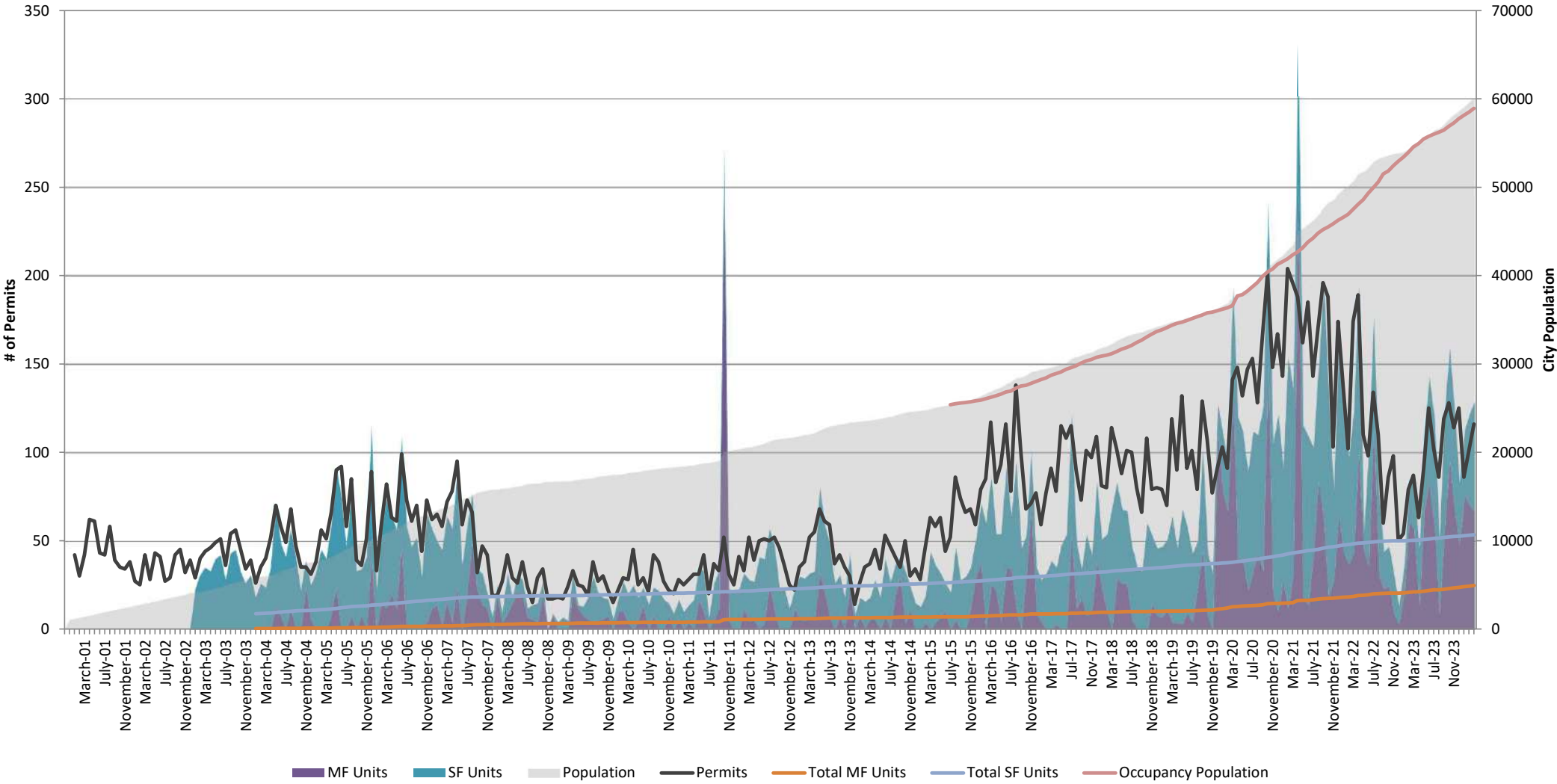


A photograph of a whiteboard mounted on a light-colored wall. The whiteboard has a thin wooden border and contains three lines of black text. The text reads: 'Saratoga Springs', '2010 – Pop. 17,500', and '2024 – Pop. 63,861'. The floor in the foreground is made of light-colored wood with a visible grain pattern. To the right of the whiteboard, a white light switch is visible on the wall.

**Saratoga Springs**  
**2010 – Pop. 17,500**  
**2024 – Pop. 63,861**

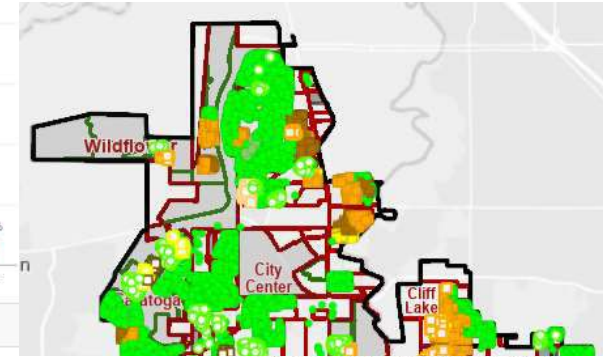
# Building Permit Time Series Data

(Est. Population 60,894)



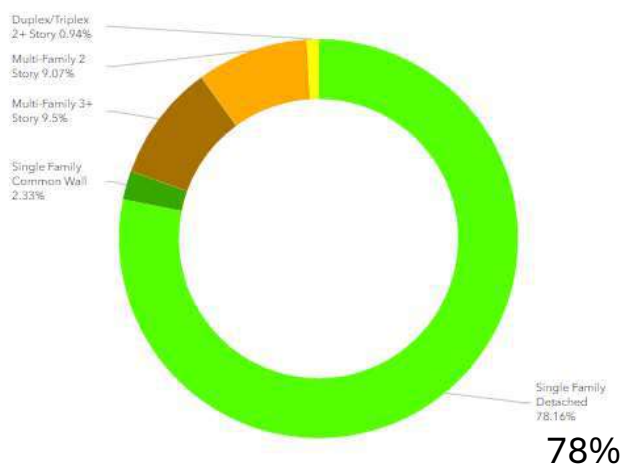
# Residential Units Dashboard

Recorded Residential Units By Year

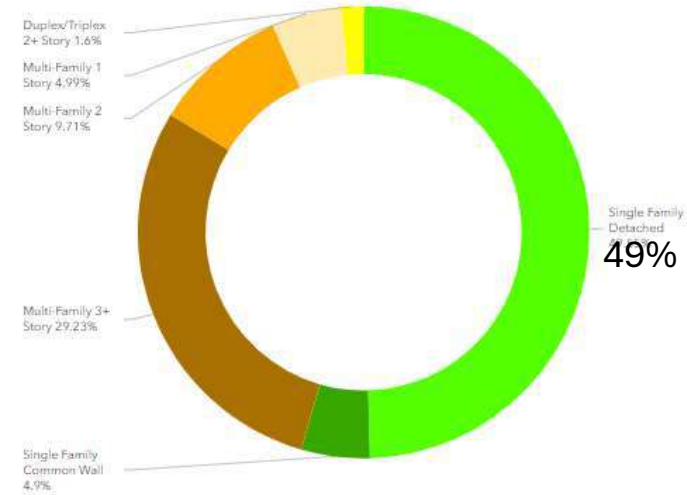
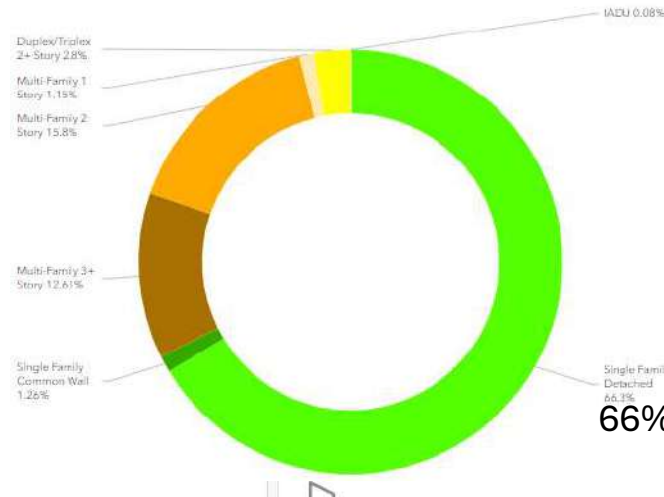


Prop 6: Recorded, Vacant Lots/Units

Prop 6: Property Status When Passed (11/19/13)

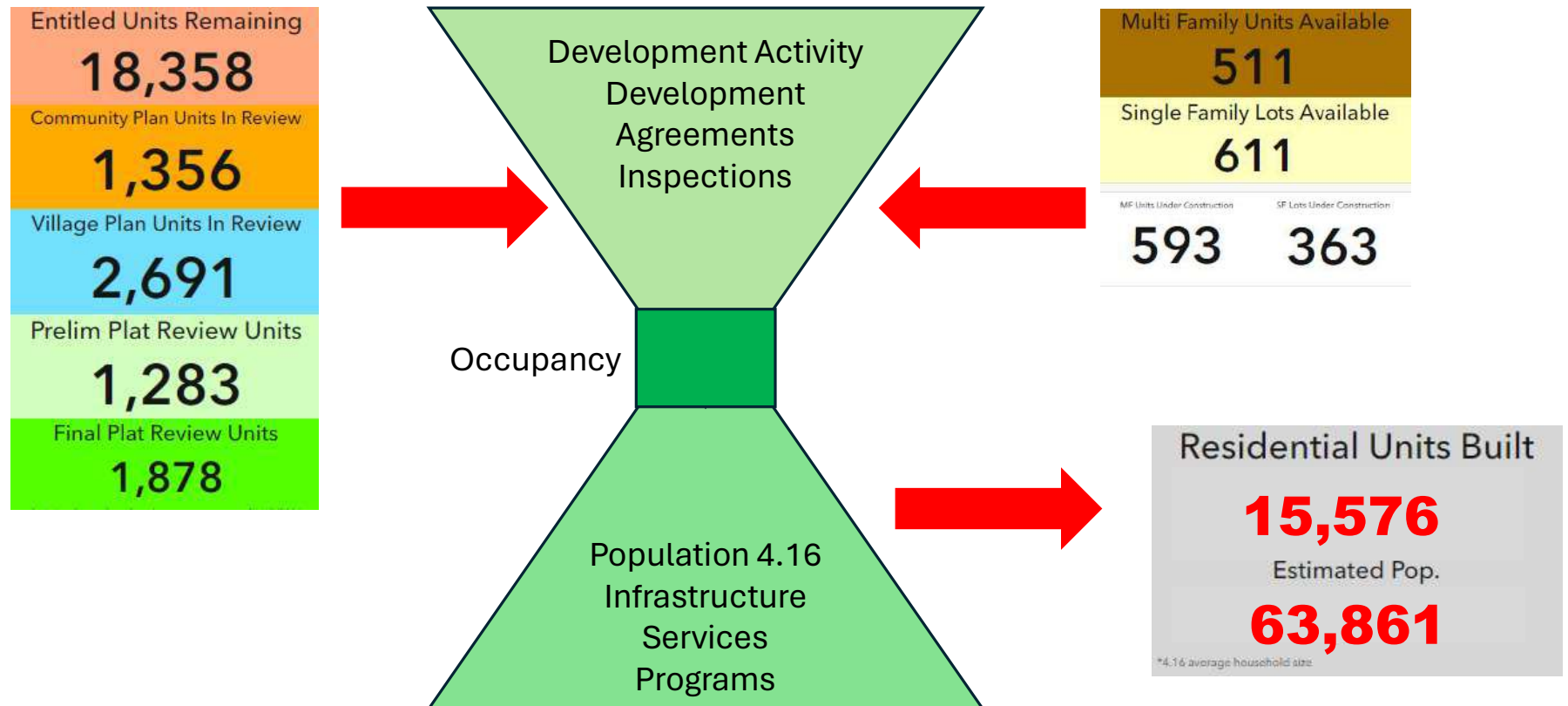


Prop 6: Recorded Units Legend



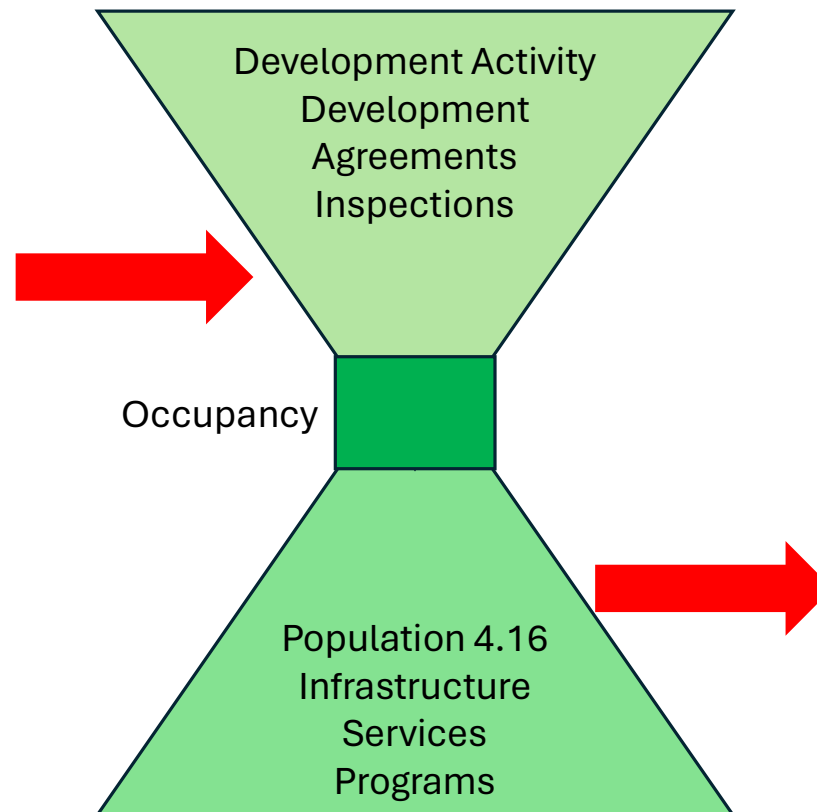
Recorded Built Available **When Prop 6 Passed (11/19/13)** Minus Vested Available & Minus Vested

# How to manage and plan for growth?

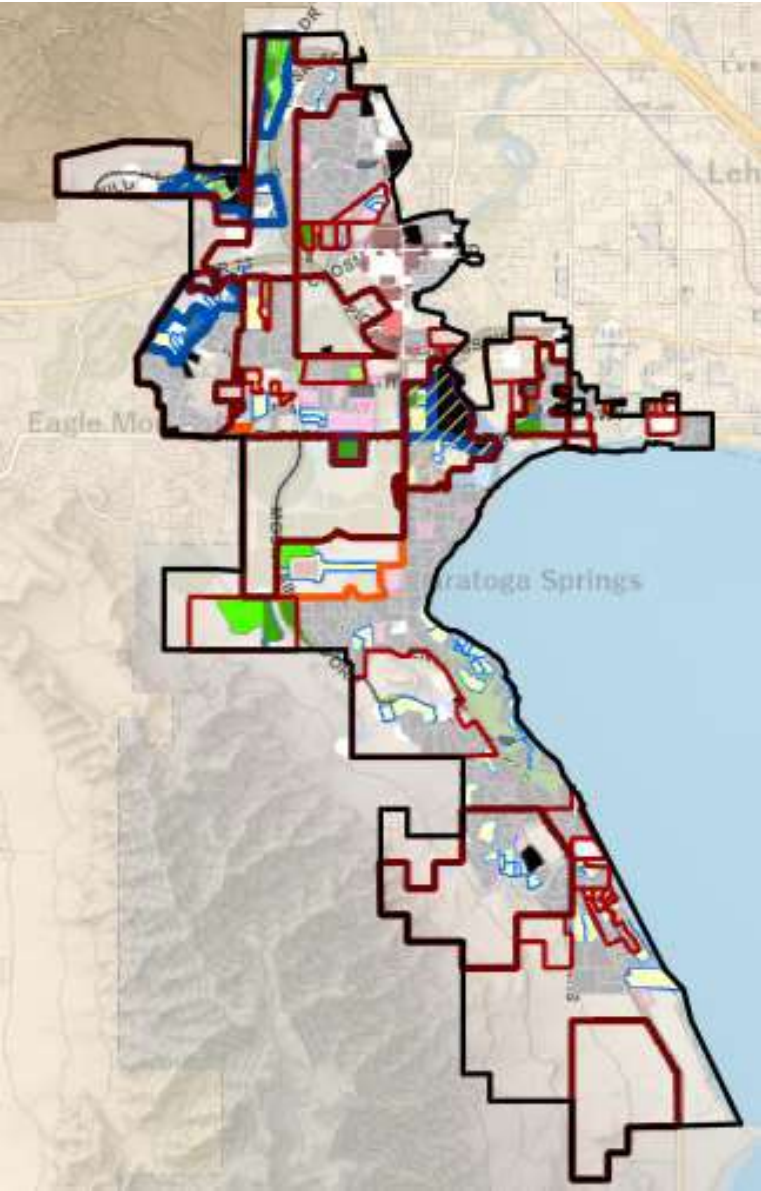


# How to manage and plan for growth?

Economic Development  
Planning  
Engineering  
Planning Commission  
Legal Department  
Mayor and City Council  
City Administration  
Building Inspections



Police  
Fire  
Public Works  
Parks and Recreation  
Library  
Civic Events  
Traffic Management  
Utility Departments



Entitled Units Remaining	<b>18,358</b>
Community Plan Units In Review	<b>1,356</b>
Village Plan Units In Review	<b>2,691</b>
Prelim Plat Review Units	<b>1,283</b>
Final Plat Review Units	<b>1,878</b>
Multi Family Units Available	<b>511</b>
Single Family Lots Available	<b>611</b>
MF Units Under Construction	<b>593</b>
SF Lots Under Construction	<b>363</b>
Residential Units Built	<b>15,576</b>
Estimated Pop.	<b>63,861</b>

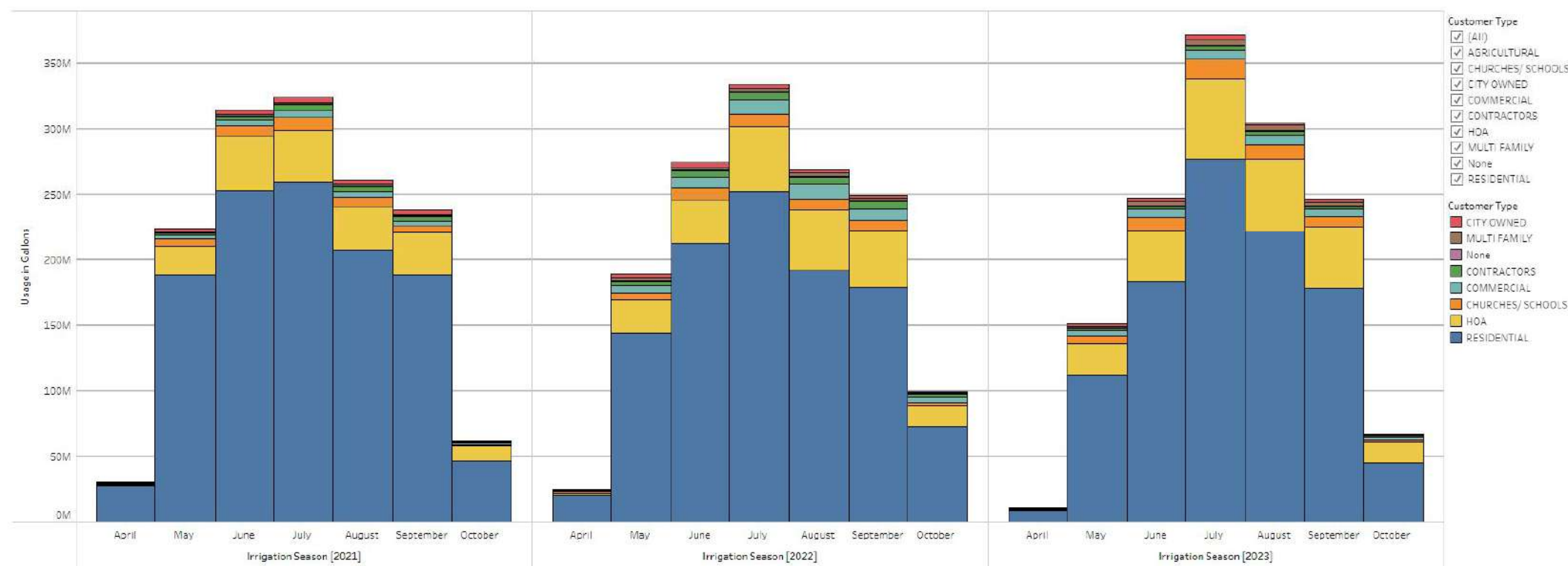
\*4.16 average household size

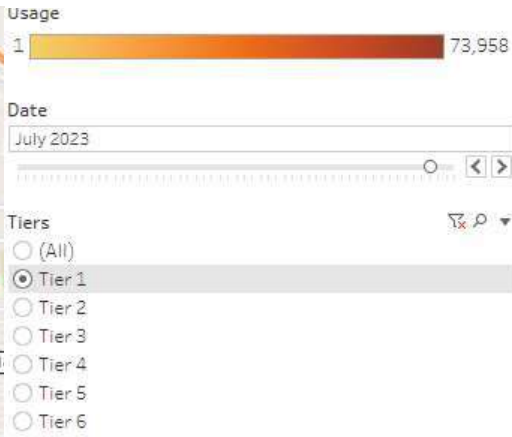
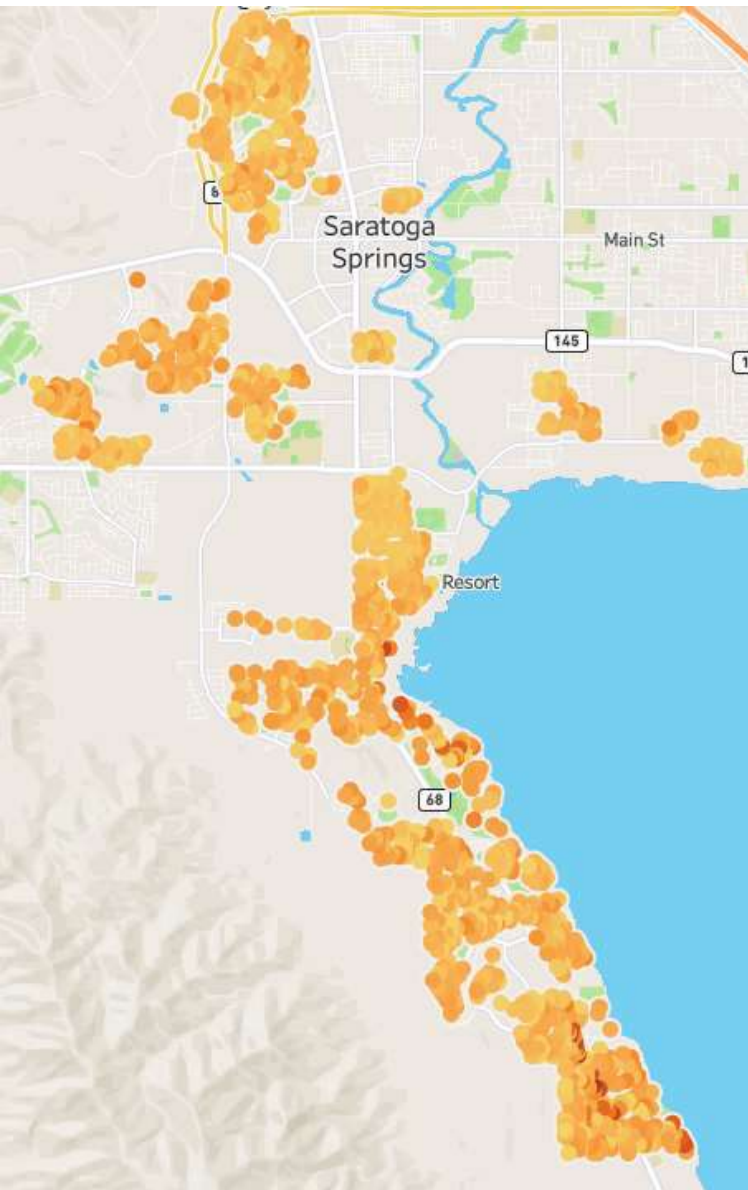




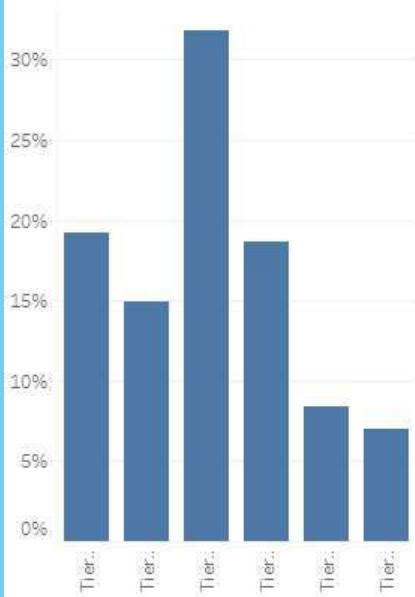
# Water Analysis

- [Total Usage by Day.  
Filterable by customer type and water type.](#)
- [Total usage by month.  
Filterable by customer type and water type.](#)
- [Comparison of the 2021, 2022, and 2023 irrigation seasons.](#)
- [Comparison of 2020, 2021, 2022, and 2023 total irrigation.](#)
- [Growth of the city's population compared to the growth of water.](#)
- [Quick facts about average per capita usage.](#)





Percent of Total Based on Date Selected



July 2023				
	Allotment Usage	# of Meters	% of Total	Cumulative
<b>Tier 1</b>	0-75%	1,604	19.20%	<b>19.20%</b>
<b>Tier 2</b>	76-100%	1,247	14.93%	<b>34.13%</b>
<b>Tier 3</b>	101-150%	2,658	31.81%	<b>65.94%</b>
<b>Tier 4</b>	151%-200%	1,563	18.71%	<b>84.65%</b>
<b>Tier 5</b>	201%-250%	701	8.39%	
<b>Tier 6</b>	251% more	582	6.97%	

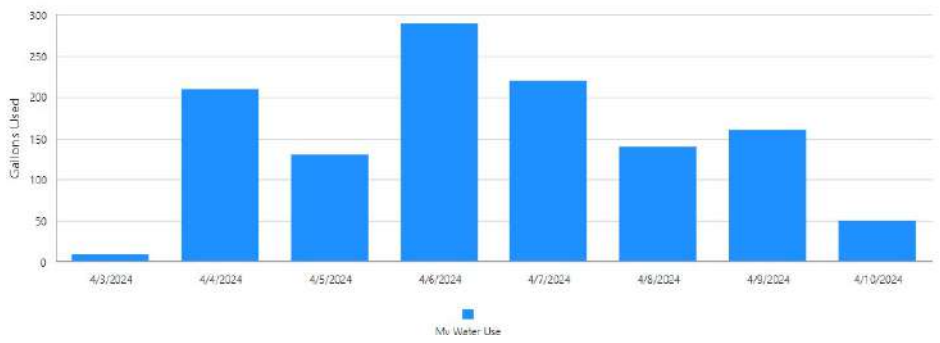
SARATOGA SPRINGS, UT 84045

Choose a meter:  
 CULINARY WATER

METER NUMBER SERVICE ADDRESS LAST DATA RECEIVED  
 USE SINCE LAST BILL YEAR TO DATE USE  
 4/10/2024 6:00:00 PM

Previous 24 Hour Use: **120 gal.** 30 Day Avg Daily Use: **194 gal.**

Daily Use Hourly Use Current Year Use Historical Use



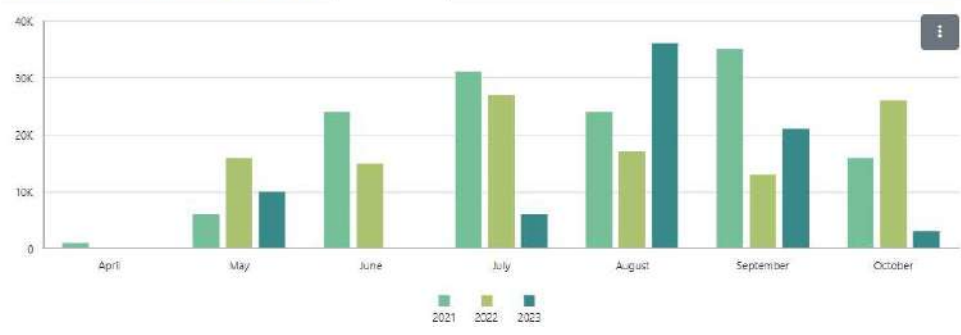
SARATOGA SPRINGS, UT 84045

Choose a meter:  
 IRRIGATION

Bill Calculator  
 METER NUMBER SERVICE ADDRESS LAST DATA RECEIVED  
 MONTHLY ALLOTMENT USE SINCE LAST BILL YEAR TO DATE USE PERCENT ALLOTMENT USED  
 25,458 gal. 0 gal. 4/10/2024 6:00:00 PM  
 0 gal. 0.234 acres 0.00%

Previous 24 Hour Use: **0 gal.** 30 Day Avg Daily Use: **0 gal.**  
 Last 7 Days Inches Of Water Needed: **1.75** Last 7 Days Inches Of Water Used: **0.00** Percent Of Needed Water Used: **0%**

Daily Use Hourly Use Current Year Use Historical Use



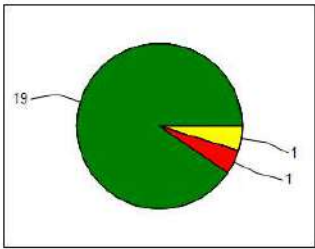
# Enhanced communication and customer service



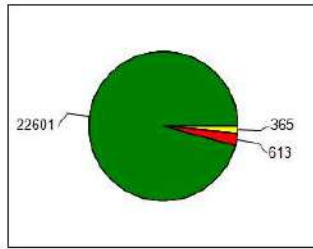
CSS  
Date Since (Local): 4/10/2024 7:06:16 AM

## Summary

Collectors



Endpoints



Total Collectors - 21

1	Never Read - 4.76%
1	Not Read Last 24 Hours - 4.76%
19	Read Last 24 Hours - 90.48%

Total EndPoints - 23579

365	Never Read - 1.55%
813	Not Read Last 24 Hours - 3.60%
22501	Read Last 24 Hours - 95.89%

Description	Device Type	Reading	Device Group Name	Leak Start Date	Days Since Leak Start	Total Consumption Over Period
100W S	171	3371844	6	2/12/2024 12:00:00 PM	59	577358.1
100W S	171	1275121	9	2/13/2024 2:00:00 AM	58	243180.8
100W S	171	5175691	6	2/22/2024 8:00:00 PM	49	226988.2
100W S	171	6024997	9	2/12/2024 3:00:00 PM	59	226361.4
100W S	171	2629728	5	2/22/2024 2:00:00 PM	49	223319.5
100W S	171	1636281	8	2/22/2024 3:00:00 PM	49	221141
100W S	171	4850900	4	3/5/2024 12:00:00 AM	37	192000
100W S	171	6491714	9	2/12/2024 11:00:00 PM	58	137709.4
100WE/100WP, Water Datalogging ERT Module	107	7824700	6	2/22/2024 3:00:00 PM	49	135790

## My City Utility Bill Seems Higher than Usual, Now What?

An unusually high water bill is most often caused by a change in water use or a leak.

**Culinary Water (WA)** includes any water used inside your home and spigots attached to your home.

**NOTE:** As your culinary water usage increases, your sewer charges will increase as well.

**Pressurized Irrigation (PI)** includes water used through your irrigation systems and any spigots (hoses) attached to your irrigation system.

If your water usage seems higher than it should:

- CHECK YOUR CALENDAR.** Did you have guests? Wash a car or a boat? Fill a pool? Establish new landscaping? Discover that a hose was left on?
- CHECK YOUR PROPERTY FOR LEAKS.** Property owners are responsible for all private service water lines from the public water main to the residence and for leaks inside the home and in the irrigation system.
- IF A LEAK IS SUSPECTED AND YOU CANNOT LOCATE A LEAK, CONTACT A PLUMBER OR OTHER PROFESSIONAL TO DETERMINE THE SOURCE OF THE LEAK.**
- If you discover a leak, initiate repairs. After repairs are complete, review the eligibility requirements for the [Water Forgiveness Program](#) on the City web site ([SaratogaSpringsCity.com](#)). If you believe you are eligible for water forgiveness, submit the form and any repair-related receipts (i.e. for parts from a hardware store or a payment to a plumber) to the Utility department for evaluation.



Select a Date Range  
No range selected

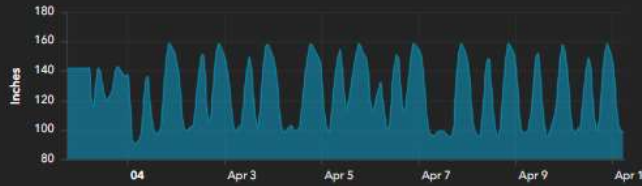
Tank 1 - Current Level (inches)



Last update: 2 minutes ago

Tank 1 - Level (inches)

Hourly Average Within The Last Week



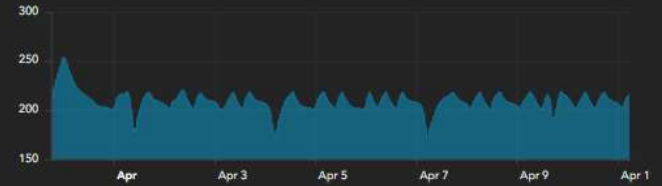
Tank 2 - Current Level (inches)



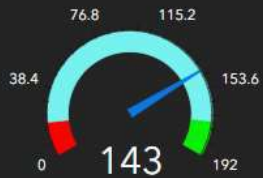
Last update: 2 minutes ago

Tank 2 - Level (inches)

Hourly Average Within The Last Week



Tank 3 - Current Level (inches)



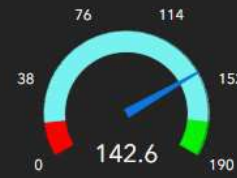
Last update: 2 minutes ago

Tank 3 - Level (inches)

Hourly Average Within The Last Week



Tank 4 - Current Level (inches)



Last update: 2 minutes ago

Tank 4 - Level (inches)

Hourly Average Within The Last Week



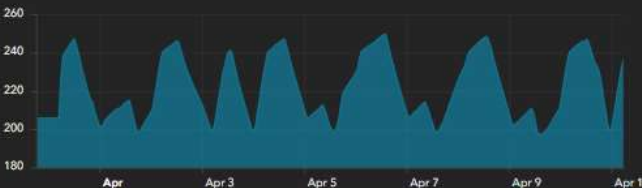
Tank 5 - Current Level (inches)



Last update: 2 minutes ago

Tank 5 - Level (inches)

Hourly Average Within The Last Week



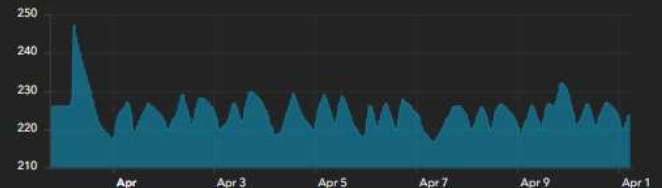
Tank 6 - Current Level (inches)



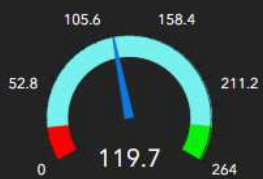
Last update: 2 minutes ago

Tank 6 - Level (inches)

Hourly Average Within The Last Week



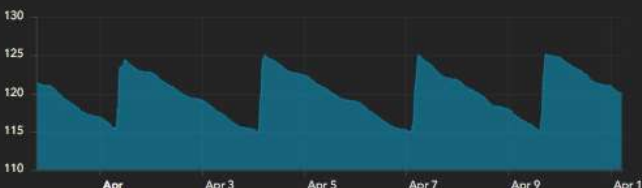
Tank 7 - Current Level (inches)



Last update: 2 minutes ago

Tank 7 - Level (inches)

Hourly Average Within The Last Week



Tank 10 - Current Level (inches)



Last update: 2 minutes ago

Tank 10 - Level (inches)

Hourly Average Within The Last Week



Tank Levels

Well 2

Well 3

Well 4

Well 6

CUWCD

Priority 1 - Public & Institutional  
**100.00**

No Unrecorded ERUs with Accepted CD

Priority 2 - Accepted and Under Construction (Residential)  
**25.00**

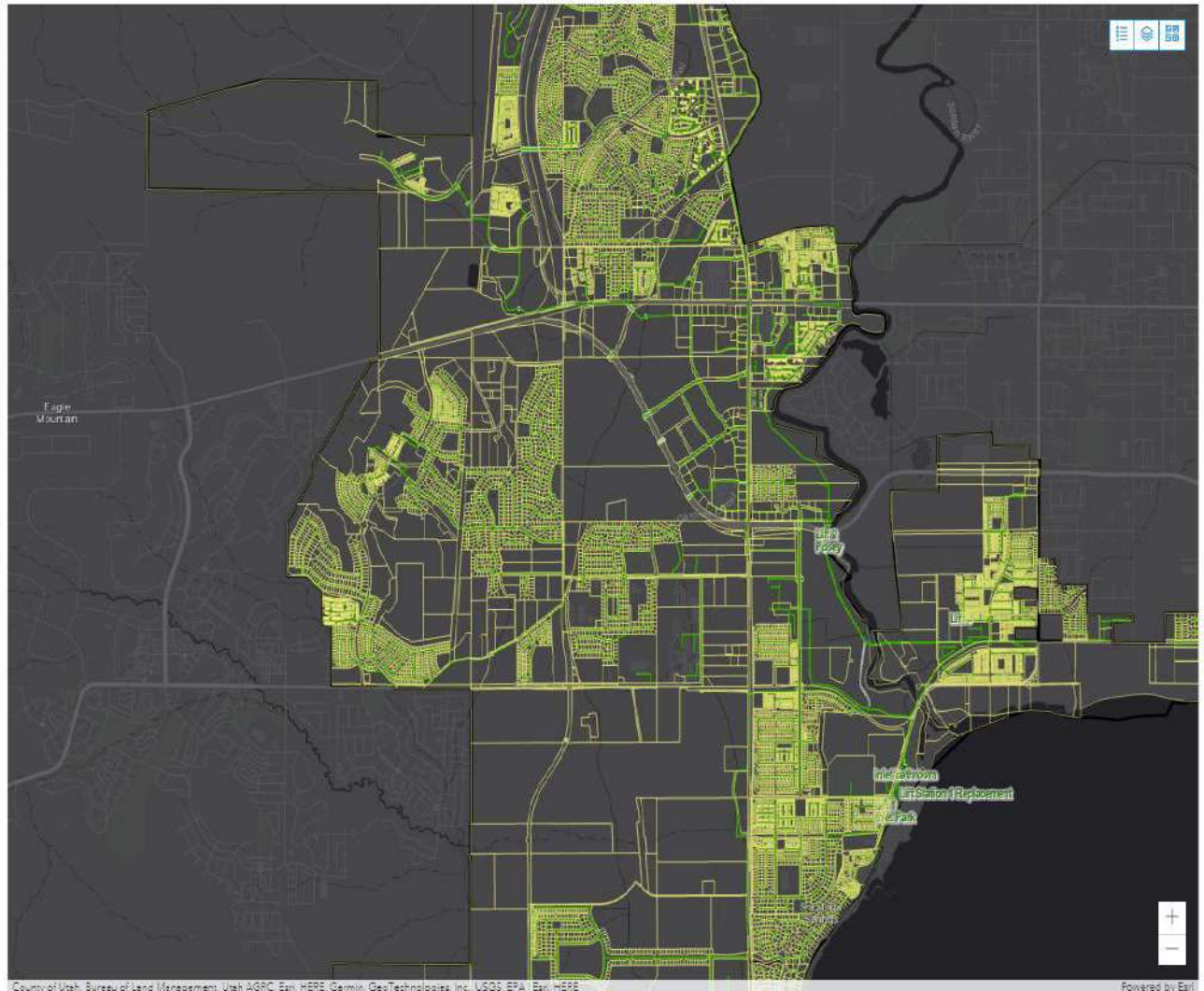
Priority 3.C - Residential Accepted Drawings  
**192.00**

Priority 4 - Recorded Commercial Lots w/o Site Plan  
**427.36**

Priority 5 - Residential ERUs Under Review  
**1,901.97**



Select a Sewer Service Area and desired Property Types from the dropdown menu.



Built Commercial ERUs  
**657.83**

Built Single-Family ERUs  
**10,173.00**

Built Multi-Family ERUs  
**4,465.00**

Built Public Facilities & Institutional Uses  
**264.45**

Total Built ERUs  
**15,573.28**

Recorded Un-Built Non-Commercial ERUs  
**1,141.34**

Total Vested ERUs  
**17,682.28**

