



CUSTOMER CHARACTERISTICS ANALYSIS

2023 RATES AND FEES STUDY

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EXECUTIVE SUMMARY

As a part of the annual Rates and Fees Study, Castle Rock Water conducts an in-depth analysis of accounts in service to determine customer characteristics and consumption patterns. We start by looking at the most current billing data for FY2022. From there, we break down the number of accounts by meter size and customer class. We then compare the number of actual permits for the last several years to the number of projected permits in that same year. The Town's Development Services Department provides the number of accounts by customer class for past actuals as well as the forecasted amounts for FY2023 and FY2024.

An average consumption based on the most current three years (2020-2022) by account, meter size, customer class and winter versus summer season is calculated. This average three-year period serves as a comparison to previous three-year periods going back as far as 2012. This takes into consideration weather patterns and rainfall variances from year-to-year. We have added a section in the report showing the monthly rainfall compared to average consumption patterns as one tool to evaluate the effectiveness of water conservation.

These individual three-year average consumption calculations provide the basis for meter equivalency factors. Starting in 2010, the Town implemented actual use meter equivalency factors in assessing the monthly service charges for water, wastewater, and water resources. The average consumption for all ¾" meters serves as the base unit with the average consumption for all larger size meters divided into this base unit to get an equivalency factor by meter size and customer class.

Customer data for the last three years (2020-2022) then determines an average representative customer for each customer class. One customer from each customer class then represents the class average and their consumption patterns are used to calculate a typical customer's annual bill.

In 2020, we started showing the average consumption patterns of atypical customers' consumption patterns compared to the average customer. Atypical can be defined as a customer whose consumption patterns are not typical of an average customer in that same meter size and or customer class due to the nature of their business or varying water needs. We eliminate these from the average calculation as to avoid skewing the average for a representative customer by meter size and customer class.

Billed usage by tier from 2013-2022 by customer class is analyzed to see if customers are staying within their water budget tiered rate structure. The purpose of this data analysis is also to see if customers over time are conserving water and avoiding Tier 3 – Excessive usage and Surcharge (over 40,000 gallons per month).

We also looked at the customers with a 0.67 SFE to see if their consumption patterns are meeting the intent of the program, to use one-third less water than an average ¾" residential customer's usage. Additional information such as 0.67 SFE accounts by irrigated area also help us to understand the larger irrigated accounts that typically consume larger amounts of water and may or may not be meeting the intent of the program. In addition to the 0.67 SFE

accounts, we also review consumption patterns for Water Efficiency Plan (WEP) accounts to determine the impact of their required water efficient products on consumption.

Other areas within the study include consumption patterns based on watering schedules, consumption patterns based on water wiser designations, customer class consumption based on irrigated areas, consumption patterns for customers designated as HOAs, bulk water accounts consumption and Town accounts consumption patterns over time. We also compare weather patterns to customer usage across the customer classes to see if there is a correlation between the two.

Like the water fund, we also chart the number of accounts from the latest 2022 billing data plus growth projections for 2023 and 2024 for customers who are receiving water resources and wastewater services. Stormwater Single Family Equivalents (SFEs) is the unit of measure for the stormwater fund, unlike accounts which are the unit of measure in the other three enterprise funds. CRW uses 3,255 impervious square feet for one SFE for this calculation.

Key information found in this report integrates into the development of rates and fees.

WATER ENTERPRISE FUND

NUMBER OF ACCOUNTS BY METER SIZE & CUSTOMER CLASS

Table 1 below shows the number of accounts by meter size and customer class using 12 months of billing data (Jan22-Dec22). This shows that 26,317 customers were receiving water service during this capture period. The FY2021 accounts based on 12 months of billing data (Jan21-Dec21) showed 24,779 customers were receiving water service. There are 1,538 more accounts in FY2022 than FY2021. 321 of these accounts are additional ¾" Residential accounts added from Bell Mountain Ranch. The number of accounts by meter size are key inputs into the system development fees model. The number of accounts then convert into Single Family Equivalents (SFEs) which determines existing versus new system capacities and are then used in the calculations within the Water and Wastewater cost of service models.

TABLE 1: ACCOUNTS BY METER SIZE & CUSTOMER CLASS (FY2022)

Meter Size	Residential	Multifamily	Commercial	Bulk	Irrigation	MultiFamily Indoor Use Only	Commercial Indoor Use Only	Total
5/8"	2,435	-	-	-	2	4	7	2,448
3/4"	21,982	14	124	83	214	101	133	22,651
1"	29	25	71	-	112	123	108	468
1.5"	-	55	51	-	165	119	91	481
2"	-	15	27	-	92	41	54	229
3"	-	2	5	-	7	4	15	33
4"	-	1	-	-	2	-	2	5
6"	-	-	2	-	-	-	-	2
Total	24,446	112	280	83	594	392	410	26,317

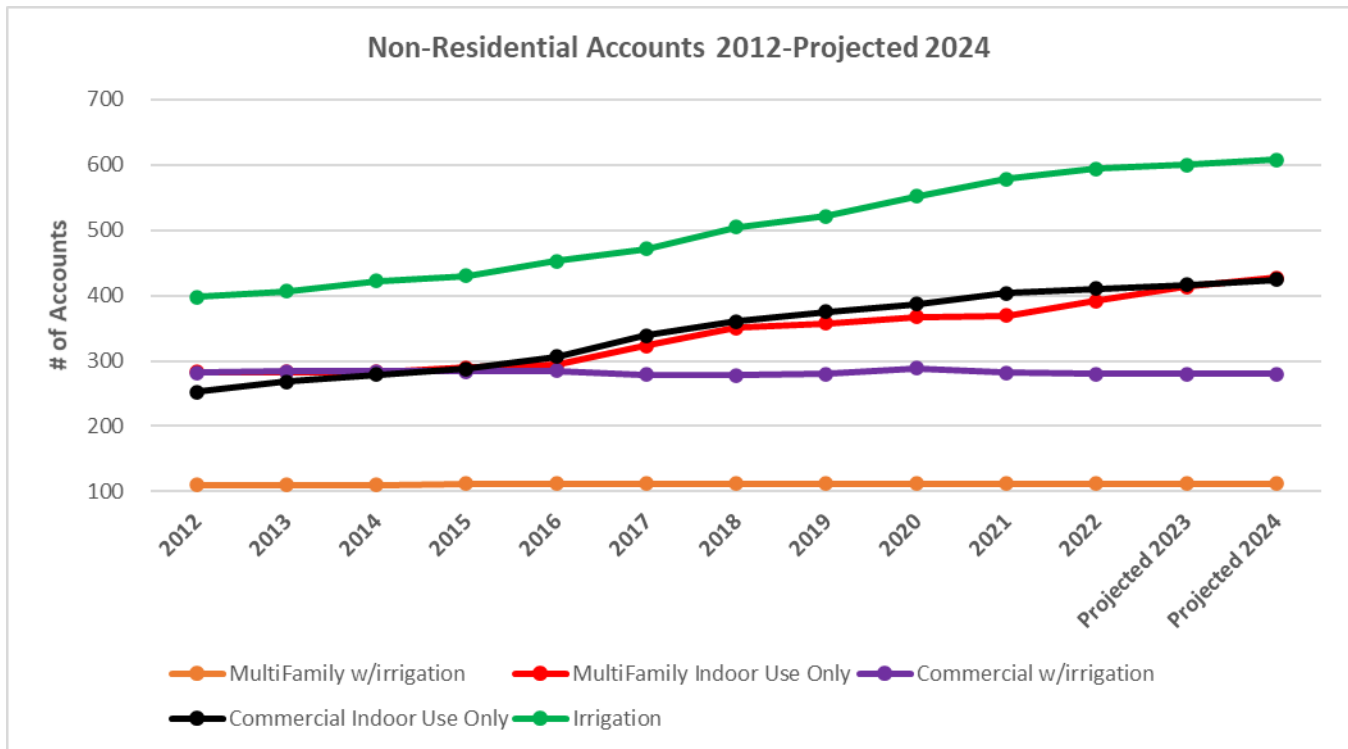
Chart 1 below shows the growth in residential accounts from 2012-2022 and the projected growth for FY2023 and FY2024. An increase of 550 permits for 2023 and 500 for 2024 is forecasted by the Town’s Development Services Department for the residential customer class.

CHART 1: RESIDENTIAL WATER ACCOUNTS



Chart 2 shows the number of non-residential accounts from 2012-2022. Over the past several years, there has been incremental growth in non-residential accounts with irrigation, commercial indoor use only and multifamily indoor use only showing slight year-over-year increases. Current projections estimate approximately 63 non-residential permits from 2023-2024, which is in line with the moderate growth expectations in residential permits over the same timeframe.

CHART 2: NON-RESIDENTIAL WATER ACCOUNTS



Castle Rock Water projects FY2024 water accounts by using FY2022 billing data plus the projected growth for FY2023 and FY2024. The FY2024 water accounts are projected to equal 27,430 (25,496 for residential and 1,934 for non-residential). These projections do not include existing bulk water accounts, as those are temporary accounts. Growth projections are as follows by customer class:

2023 Projected New Accounts by Customer Class:

550	Residential (1 SFE)
21	Multi-Family
6	Commercial
6	Irrigation
583	Total

2024 Projected New Accounts by Customer Class:

500	Residential (1 SFE)
14	Multi-Family
8	Commercial
8	Irrigation
530	Total

Projections are for 583 new accounts for FY2023 and 530 new accounts for FY2024 for a total increase through FY2024 of 1,113 new accounts.

2014-2024 ACTUAL GROWTH VERSUS PROJECTED GROWTH

CRW has seen significant growth in accounts throughout the timeframe of this analysis, however the lower permit numbers in 2022 indicate that near-term growth may be more moderate than in previous years. The projections received each year from the Town's Development Services Department are important components to the rate models and revenue projections when looking at needed rate or fee increases year over year. When looking at future projections it is also important to look at how closely the past projections have compared to the actual results each year. Charts 3-6 below show the actual number of permits compared to the projected number of permits during the same year. Charts 3-6 break out residential, multi-family, commercial and irrigation, whereas Chart 7 shows all customer classes combined. Multi-family permits shown in Chart 4 are typically master meters serving multiple units. Based on historical trends, the average number of units served per master metered account is approximately 14.

CHART 3: RESIDENTIAL GROWTH

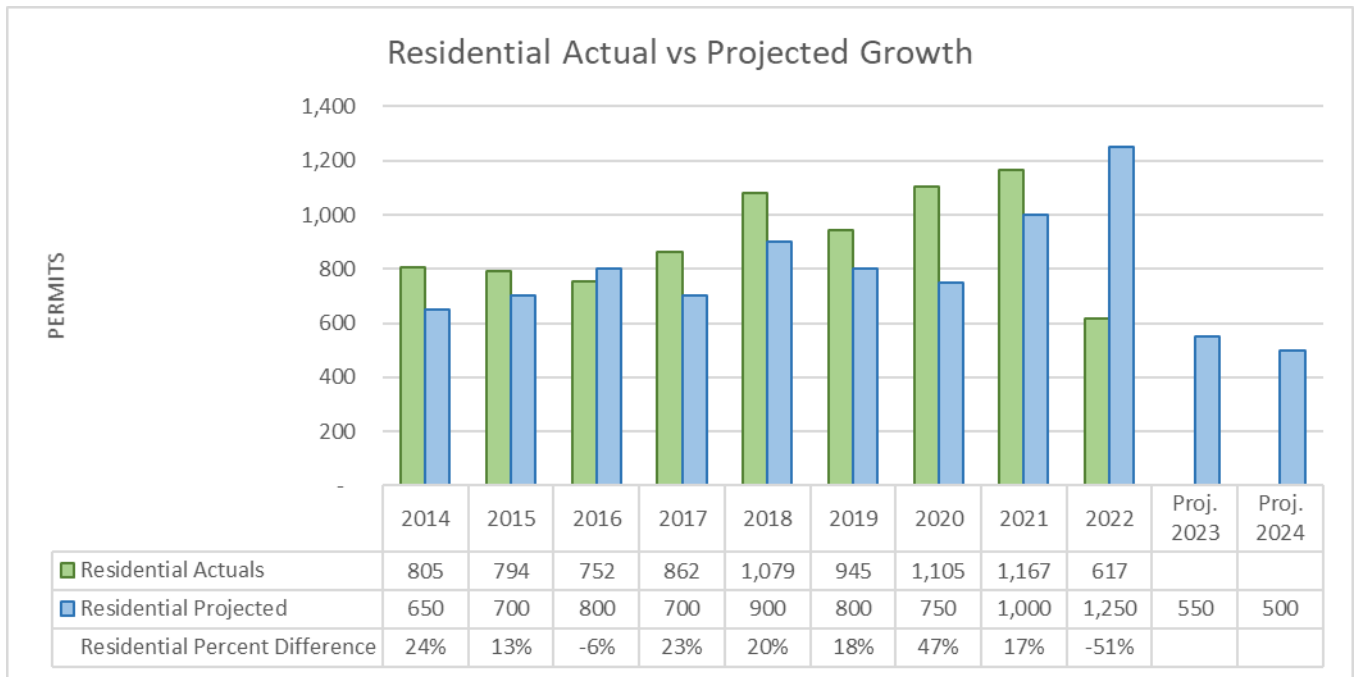


CHART 4: MULTIFAMILY GROWTH

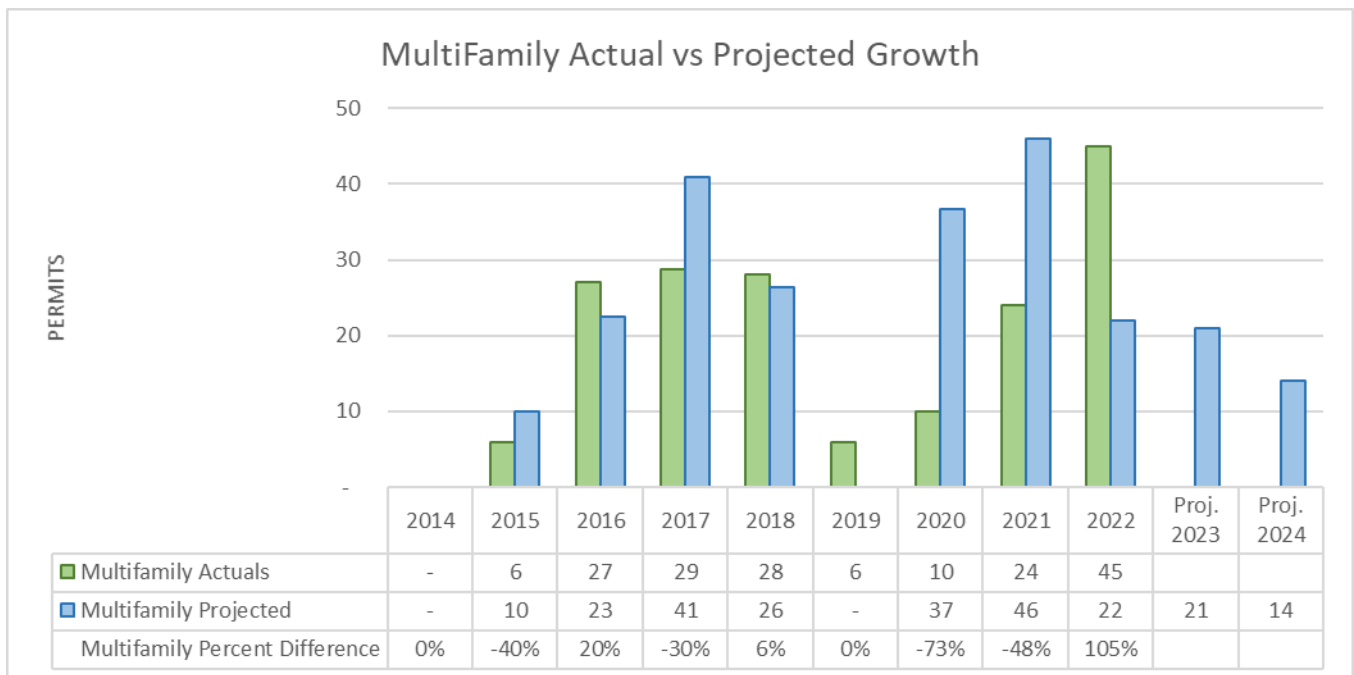


CHART 5: COMMERCIAL GROWTH

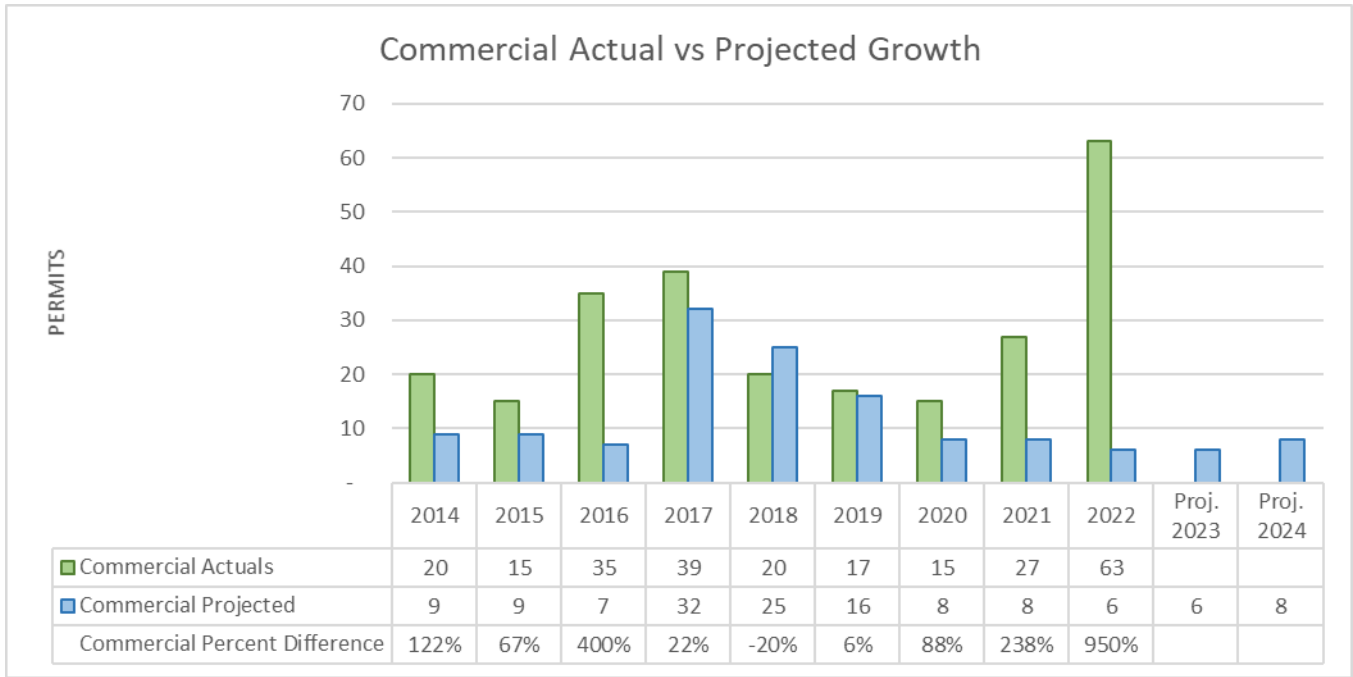
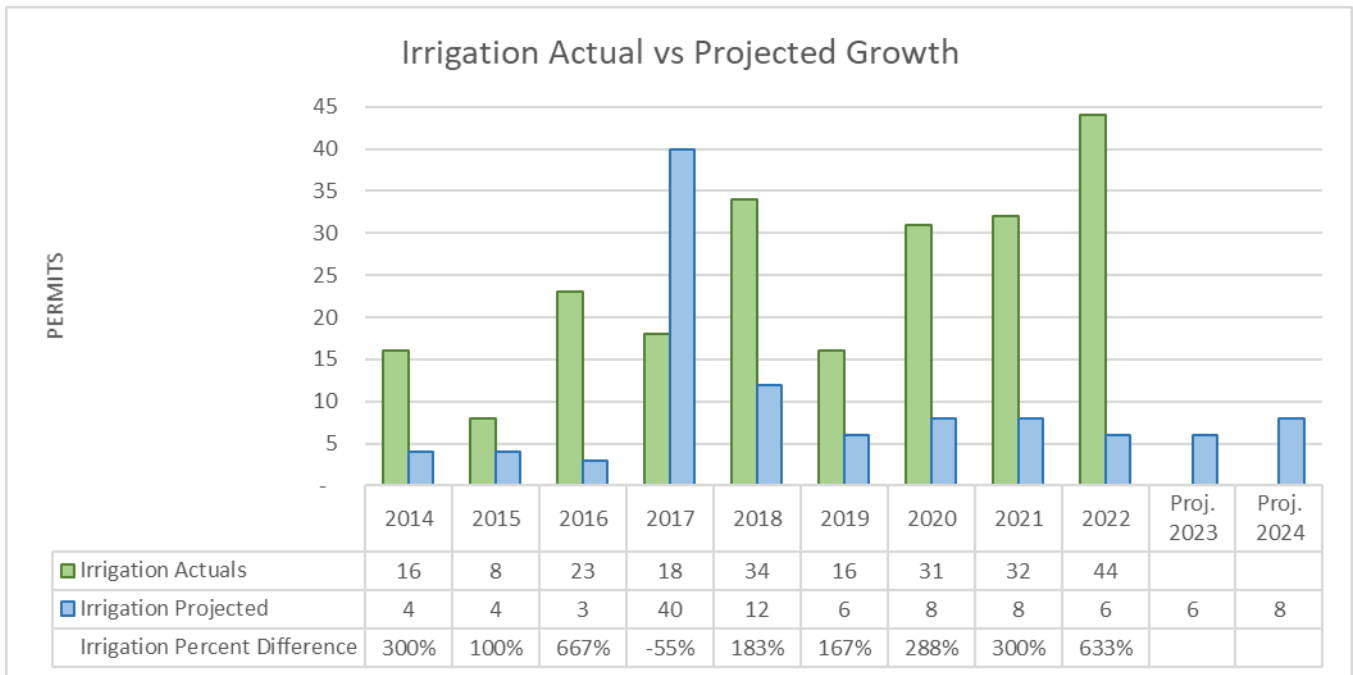
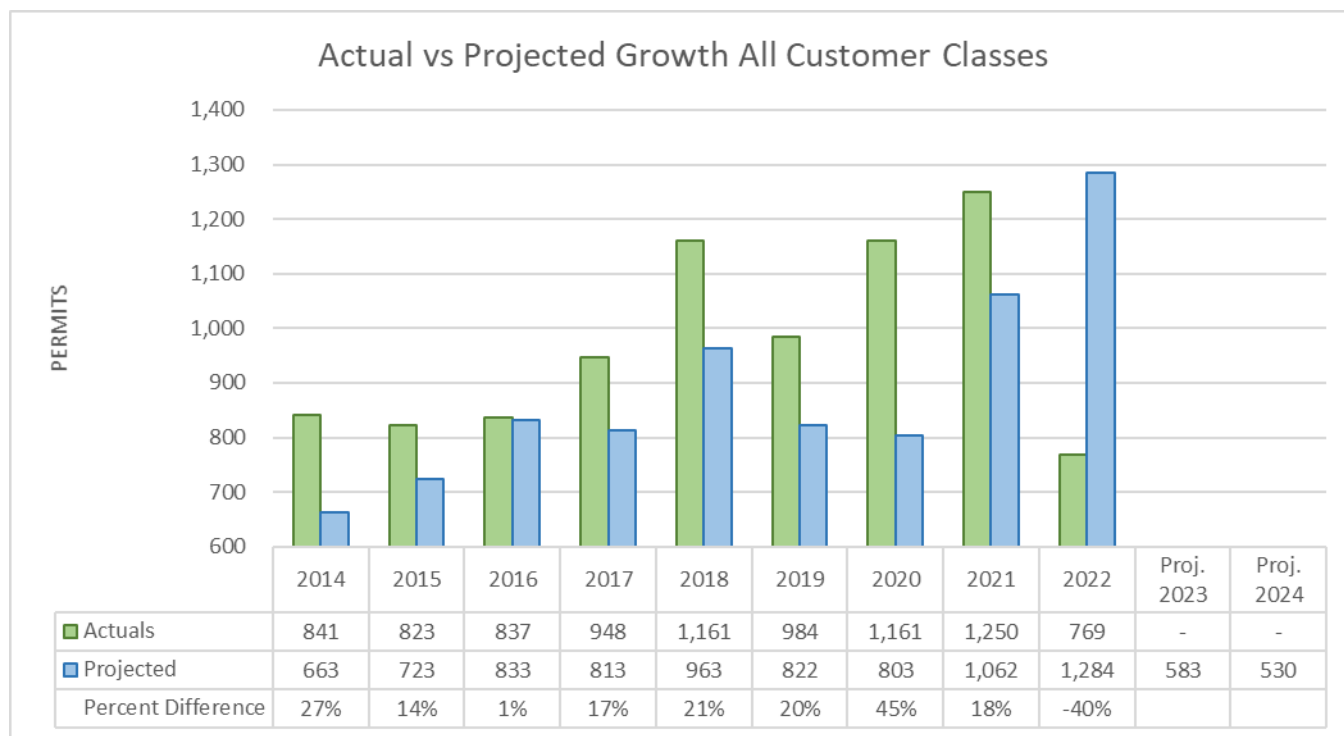


CHART 6: IRRIGATION GROWTH



**CHART 7: All CUSTOMER CLASSES
COMBINED GROWTH**



3-YEAR AVERAGE CONSUMPTION BY CUSTOMER CLASS

Table 2 shows the 3-year average monthly consumption by meter size and customer class for 2020-2022 billing data. Table 2A shows the breakdown of the residential meter sizes shown in Table 2 and their individual applicable 3-year averages. Chart 8 shows the 3-year average monthly consumption for all residential meter sizes, including 5/8" through 1". The most recent 3-year period for residential did see an increase over the prior comparison period. This is partially due to the dry irrigation season in 2020. While the prior comparison period also included the higher 2020 consumption, the increases were partially offset by lower consumption during 2019 where we experienced higher rainfall.

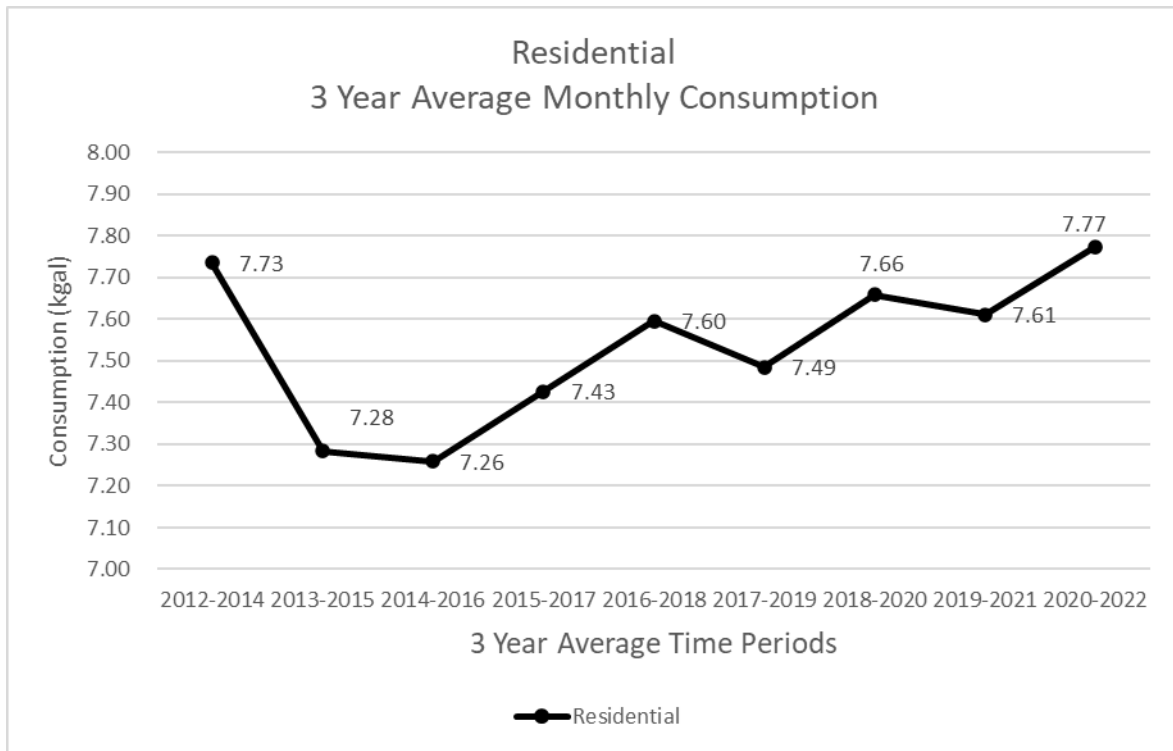
**TABLE 2: 3-YEAR AVG MONTHLY
CONSUMPTION BY CUSTOMER CLASS &
METER SIZE (2020-2022)**

Meter Size	Residential	Multifamily	Commercial	Irrigation	Multifamily Indoor Use Only	Commercial Indoor Use Only
5/8"	5.10	-	-	14.71	4.76	5.54
3/4"	8.01	20.59	9.44	30.76	3.06	10.60
1"	16.60	31.42	28.20	66.34	17.64	21.96
1.5"	-	68.70	44.04	149.12	47.87	35.22
2"	-	95.26	85.31	253.08	70.83	61.20
3"	-	325.76	130.57	401.06	281.80	79.38
4"	-	404.75	-	792.79	-	1,751.80
6"	-	-	706.64	-	-	-

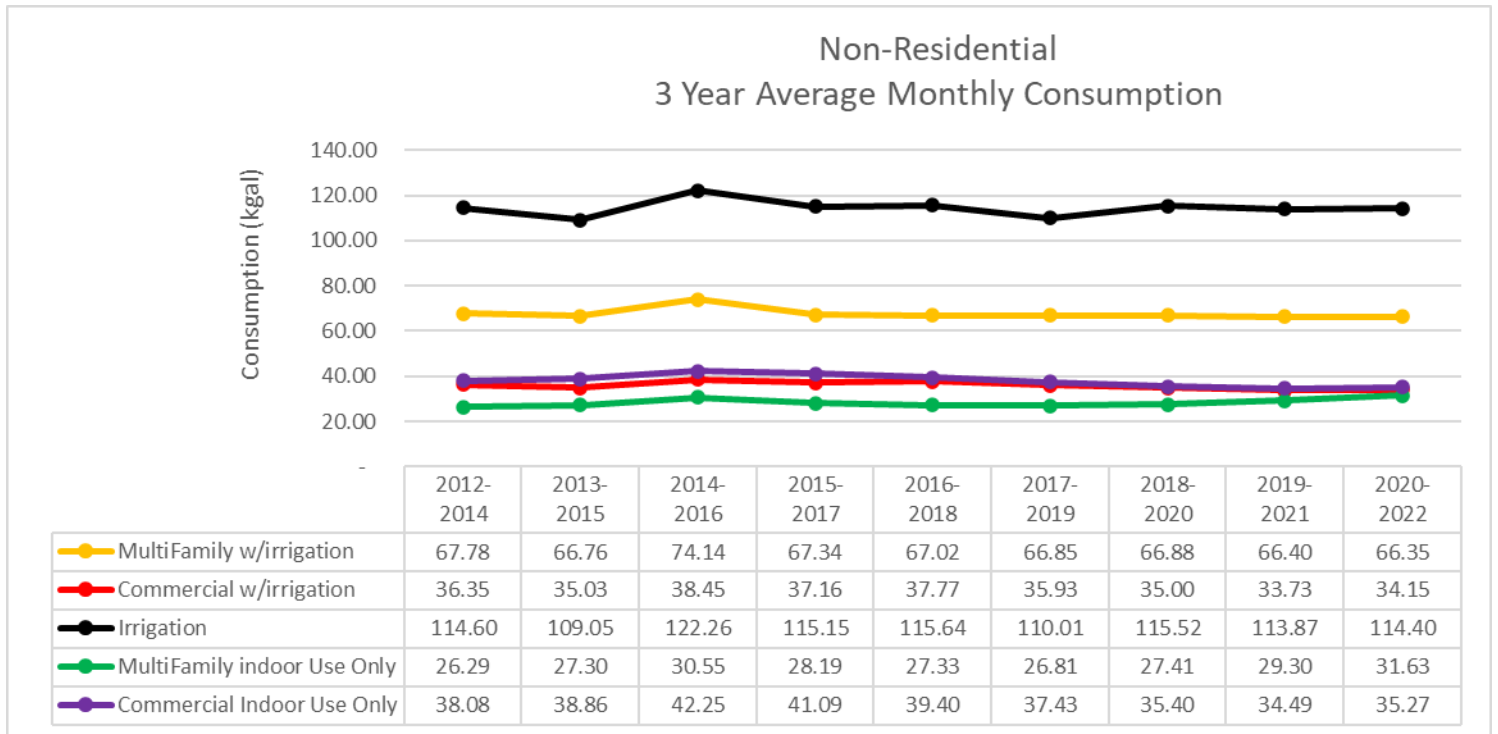
**TABLE 2A: 3-YEAR AVG MONTHLY
CONSUMPTION RESIDENTIAL METER SIZES
(2020-2022)**

Residential Accounts									
Meter Size	2012-2014	2013-2015	2014-2016	2015-2017	2016-2018	2017-2019	2018-2020	2019-2021	2020-2022
5/8"	6.19	5.70	5.44	5.37	5.44	5.26	5.23	5.07	5.10
3/4"	7.70	7.30	7.30	7.48	7.68	7.59	7.81	7.81	8.01
1"	13.14	14.17	21.26	17.86	18.69	17.48	16.75	15.99	16.60
Average	7.73	7.28	7.26	7.43	7.60	7.49	7.66	7.61	7.77

**CHART 8: 3-YEAR AVG MONTHLY
CONSUMPTION RESIDENTIAL ACCOUNTS**



**CHART 9: 3-YEAR AVG MONTHLY
CONSUMPTION NON-RESIDENTIAL
ACCOUNTS**



The 3-year average monthly consumption shown above in Chart 9 is for all non-residential customer classes. All non-residential customer classes have maintained relatively flat average monthly consumption throughout all comparison periods.

In Chart 10 below the 3-year average monthly consumption for the ¾" to 3" size of meters for all customer classes have remained virtually flat over the comparison periods.

**CHART 10: 3-YEAR AVG MONTHLY
CONSUMPTION BY METER SIZE ¾" to
3" ALL CUSTOMER CLASSES**

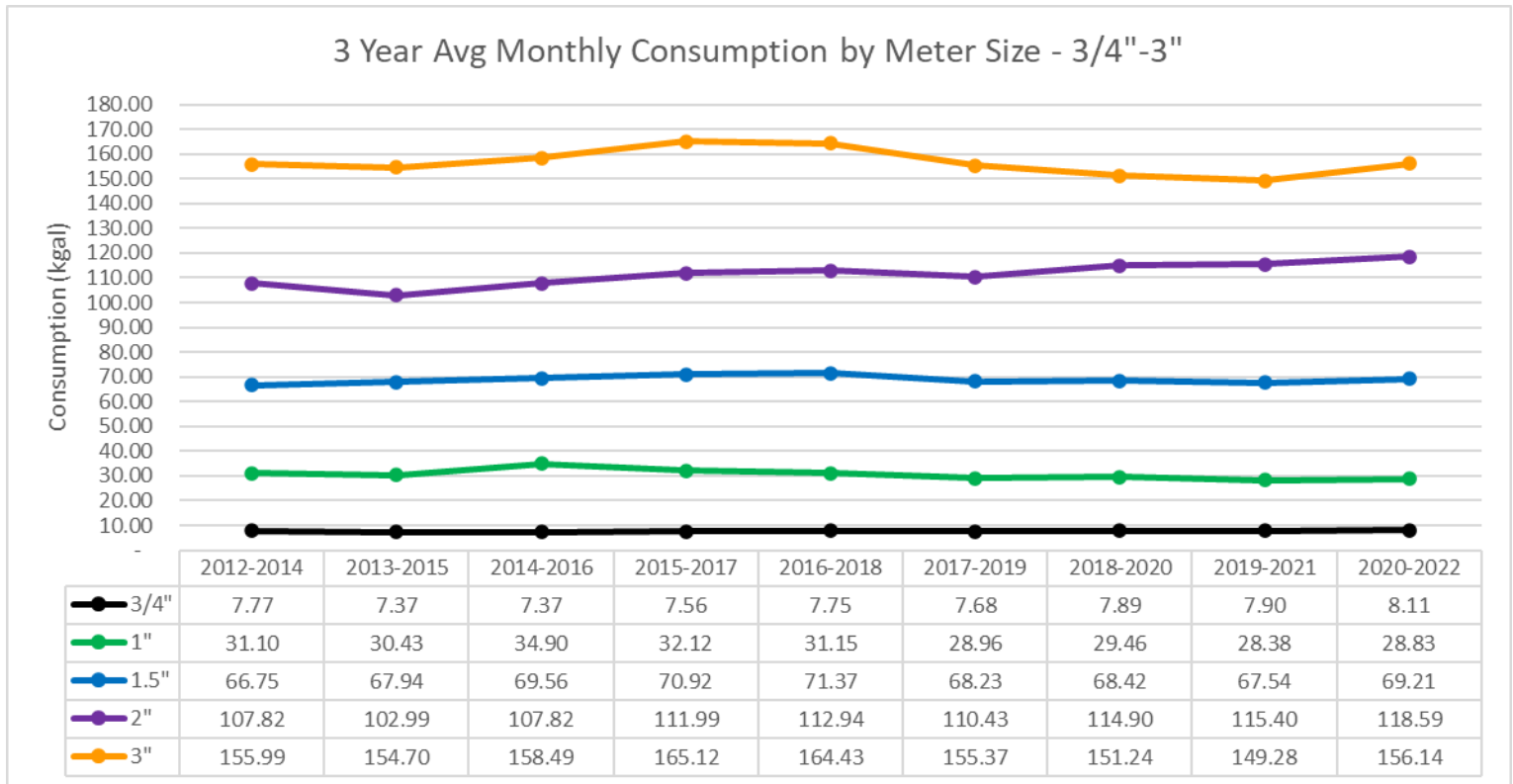
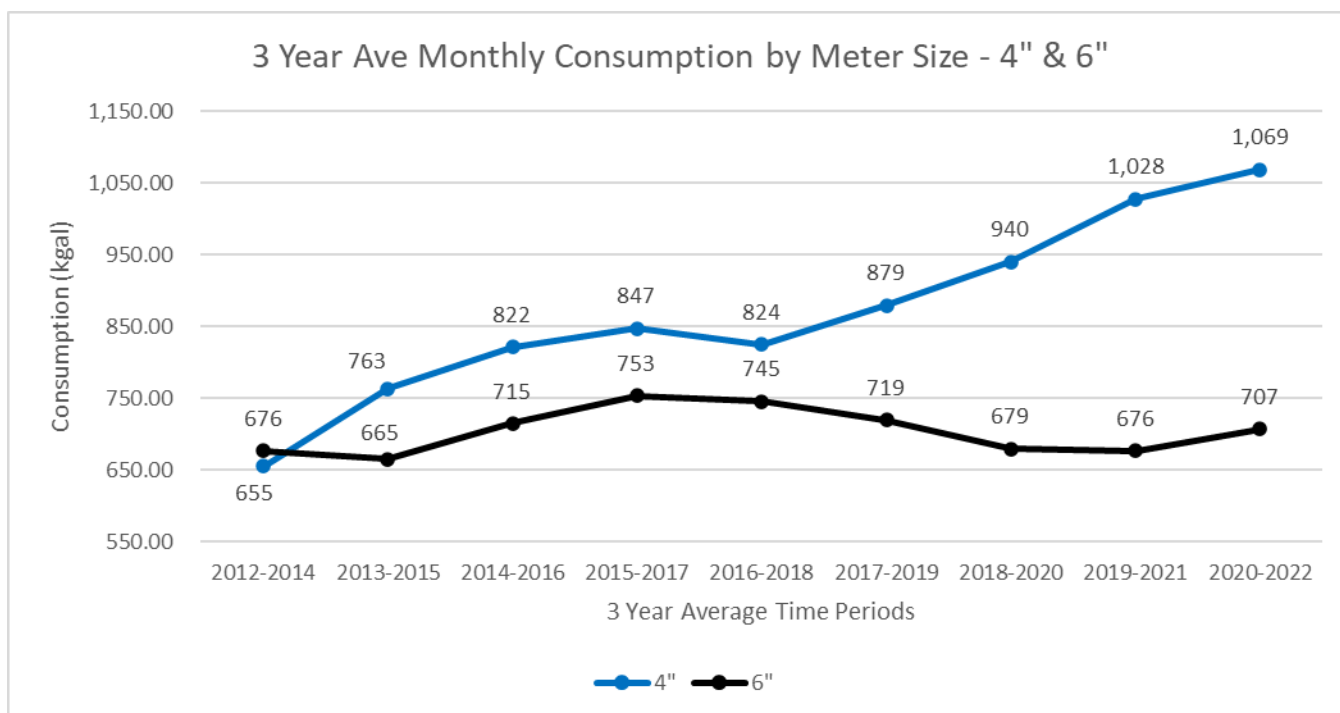


Chart 11 below shows the average consumption for the two 6" meters in service which saw a downward trend beginning in the 2016-2018 comparison period and continued through the 2019-2021 period but saw a slight increase in the most recent period. We currently have five 4" meters in service, four active meters and one redundant meter for medical purposes. The increase in the 2013 and forward consumption pattern is a result of the 4" medical facility meter that was installed in 2013.

CHART 11: 3-YEAR AVG MONTHLY CONSUMPTION BY METER SIZE - 4" and 6"



3-YEAR AVERAGE CONSUMPTION WITH & WITHOUT IRRIGATION

The data in Table 3 shows the average monthly consumption by meter size for all customer classes combined. This shows that the monthly consumption in many cases more than doubles between the summer “with irrigation” and the winter “without irrigation” seasons.

TABLE 3: 3-YEAR AVERAGE MONTHLY CONSUMPTION BY METER SIZE FOR ALL CUSTOMER CLASSES COMBINED (2020-2022)

Meter Size	With Irrigation	Without Irrigation
5/8"	6.32	3.34
3/4"	10.73	4.36
1"	35.26	17.11
1.5"	83.86	39.78
2"	145.23	59.40
3"	188.52	104.59
4"	992.70	912.90
6"	775.25	605.00

CHART 12: 3-YEAR AVG MONTHLY CONSUMPTION ¾" METERS

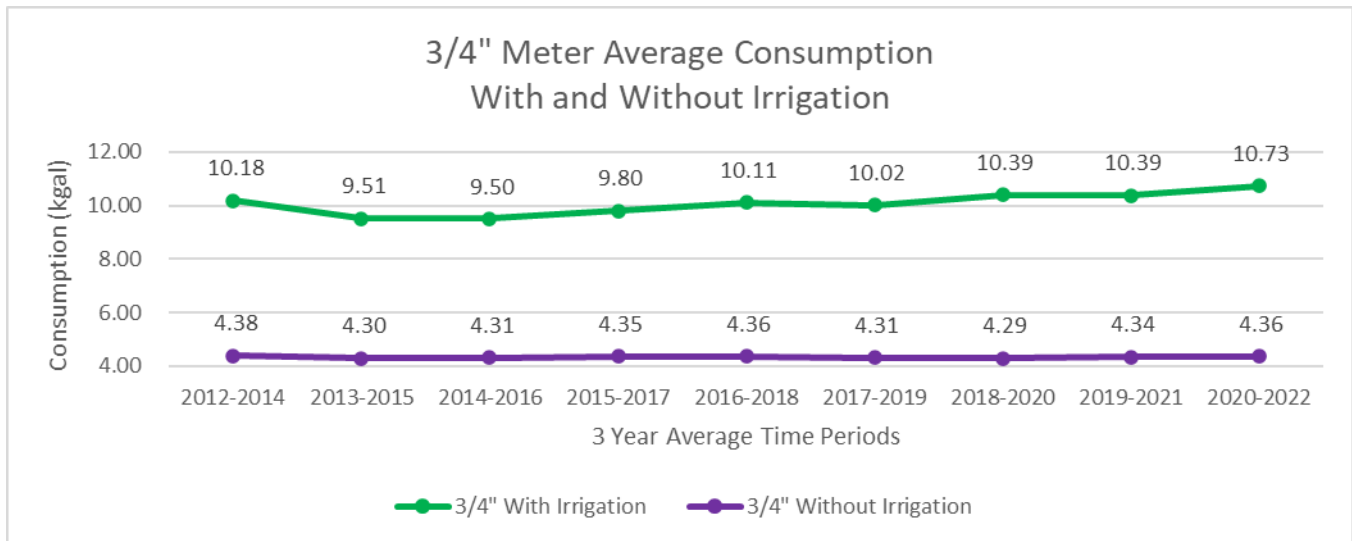


Chart 12 above shows that ¾" meter accounts usage "without irrigation" is very consistent from year-to-year. Approximately 97% of the ¾" meters are residential accounts. This trend indicates indoor water usage from year-to-year for ¾" meters is staying consistent, even with the increase in the number of accounts.

CHART 13: 3-YEAR AVG MONTHLY CONSUMPTION 1" METERS

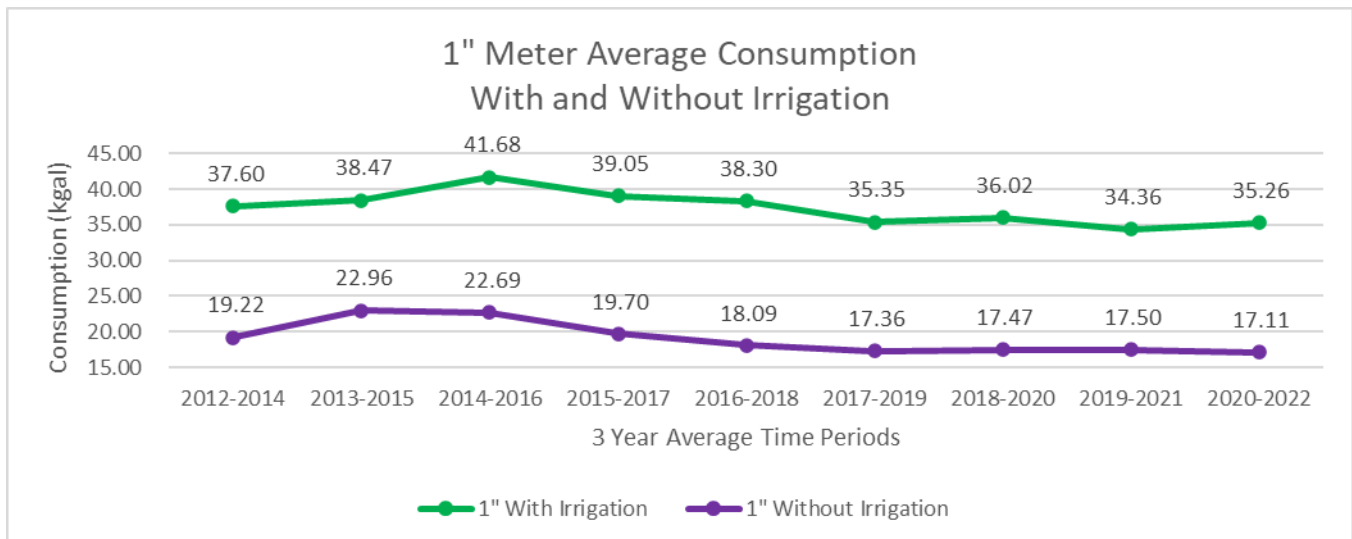


Chart 13 above shows that 1" meter accounts usage both with and without irrigation have relatively flat consumption over the last three comparison periods after showing downward trends beginning in the 2015-2017 comparison period.

Chart 14 below shows the accounts usage “without irrigation” for all 1.5” accounts is relatively flat over the comparison periods until the last three comparison periods where usage trended slightly downward. Despite an increase of 16 accounts over the last year in the 1.5” meter count, this trend indicates indoor water usage from year-to-year for meters this size is steady and, in fact, starting to decrease slightly. We are seeing similar results in 1.5” meter usage “with irrigation” indicating that the outdoor usage for these accounts is trending down even given the number of new accounts.

CHART 14: 3-YEAR AVG MONTHLY CONSUMPTION 1.5” METERS

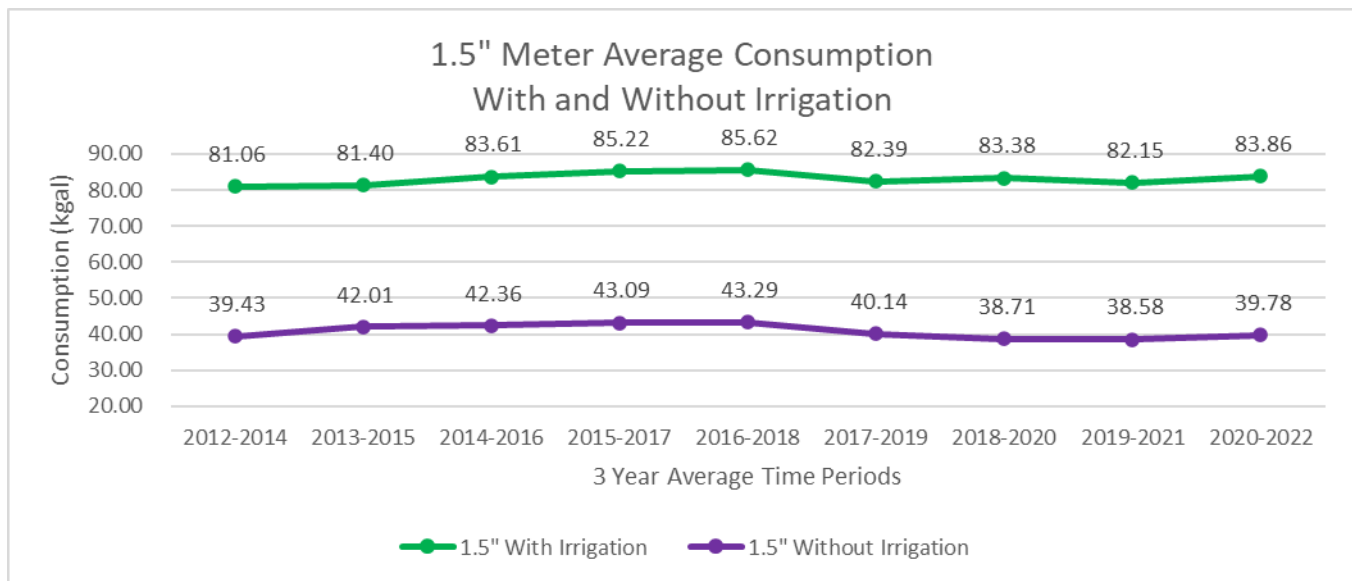


CHART 15: 3-YEAR AVG MONTHLY CONSUMPTION 2" METERS

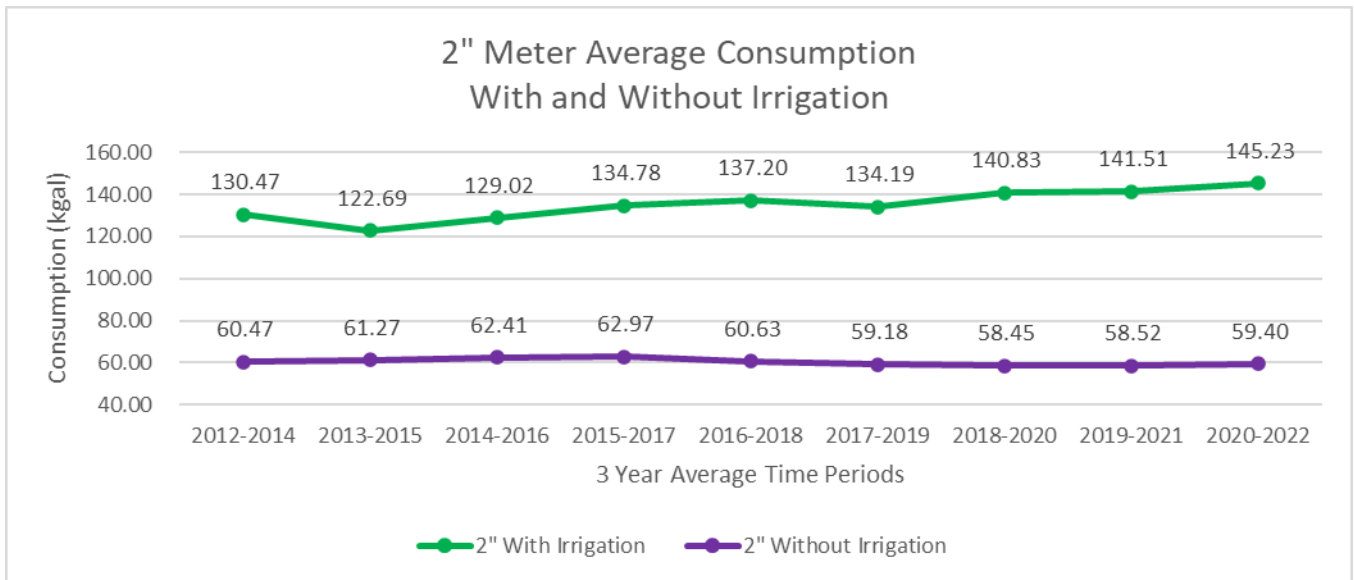


Chart 15 above for 2" meters shows a relatively flat trend for the meters without irrigation over the past three comparison periods. The meters with irrigation have shown an upward trend over the past three comparison periods. Chart 16 below for 3" meters shows that for both the meters with and without irrigation both continue on a downward consumption trend over the last few periods.

CHART 16: 3-YEAR AVG MONTHLY CONSUMPTION 3" METERS

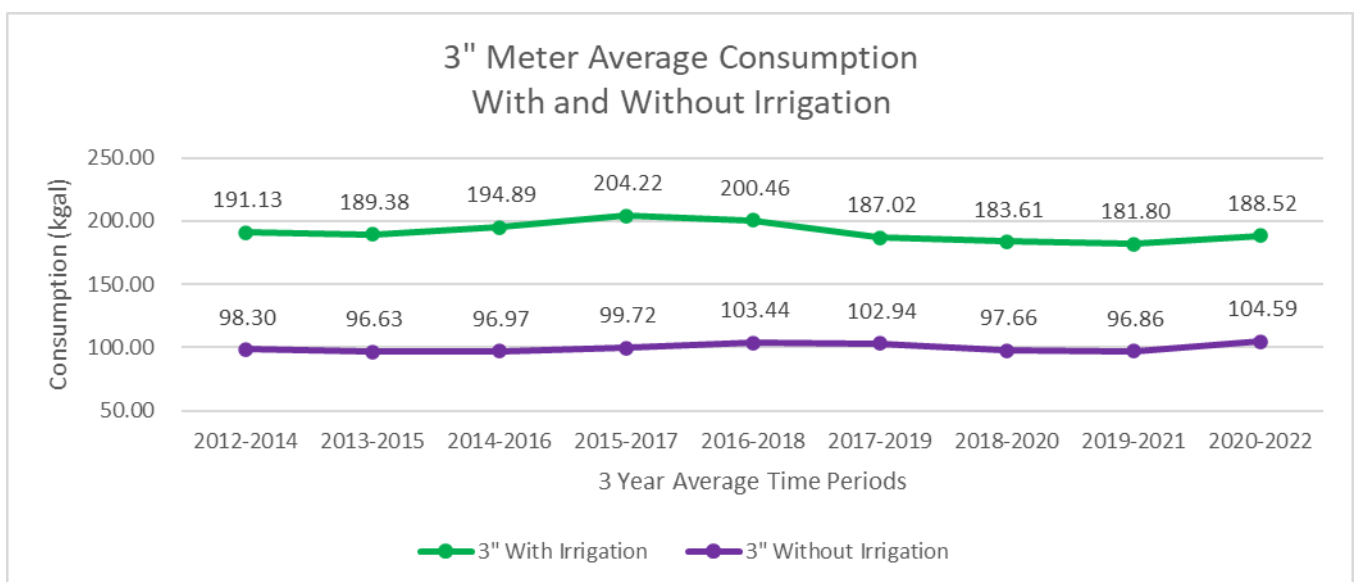


CHART 17: 3-YEAR AVG MONTHLY CONSUMPTION 4" METERS

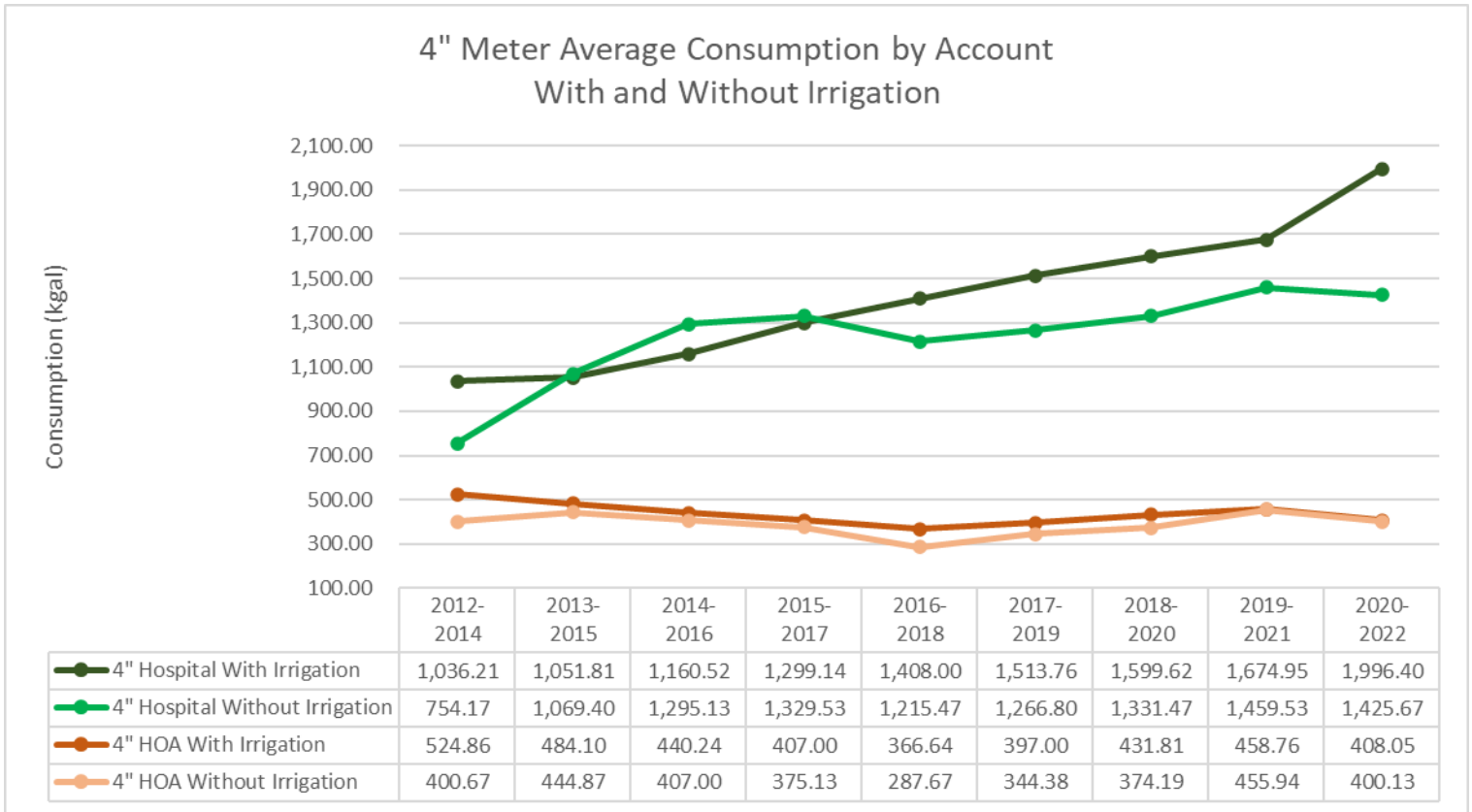
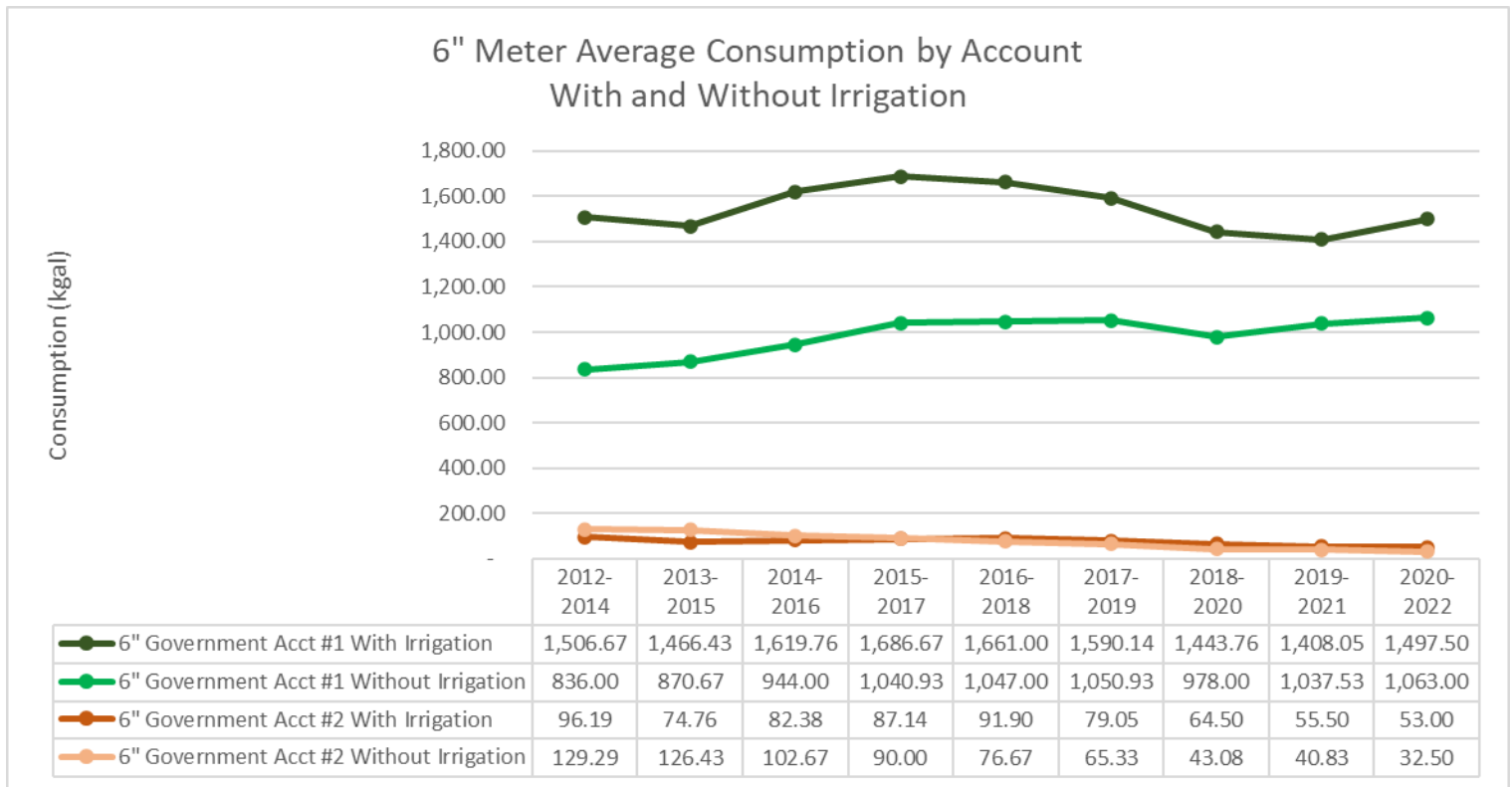


Chart 17 above shows an upward trend when comparing the last four comparison periods for both winter and summer seasons. Since there are only 4 active meters in this category, one meter can skew the average consumption for the entire customer class. As can be seen from Chart 17, customer average consumption patterns with the same size meter are very different.

Chart 18 for 6" meters shows that the average monthly consumption for these two meters in service has remained fairly consistent over the last few comparison periods. Again, it shows the varying degree of usage by each of the two customers using the same size 6" meter.

CHART 18: 3-YEAR AVG MONTHLY CONSUMPTION 6" METERS



EQUIVALENCY FACTORS

There are two different types of equivalency factors. The first is the hydraulic capacity method, which is based on the relative capacity of different meter sizes and meter types utilized to deliver water. The second equivalency factor method takes into consideration the relative potential demands of different customers. Based on the hydraulic demands, a single-family meter size of $\frac{3}{4}$ " serves as the base for one SFE. The maximum flow rate of water through the meter in gallons per minute (GPM) becomes the unit of comparison. The maximum flow rate demanded by new customers compares to the base demand in order to determine the equivalency ratio. For example, if the base single-family residential customer requires 30 GPM and a commercial customer requires 200 GPM, the equivalency ratio equals 6.67 (200/30). The second method is the actual use equivalency factor based on the relative average monthly water usage of CRW's customers.

Table 4 calculates equivalency factors by customer class and meter size based on a $\frac{3}{4}$ " single-family residential customer. The equivalency factor in Table 4 is an input into the system development fees model used to calculate the number of SFEs. This is achieved by multiplying

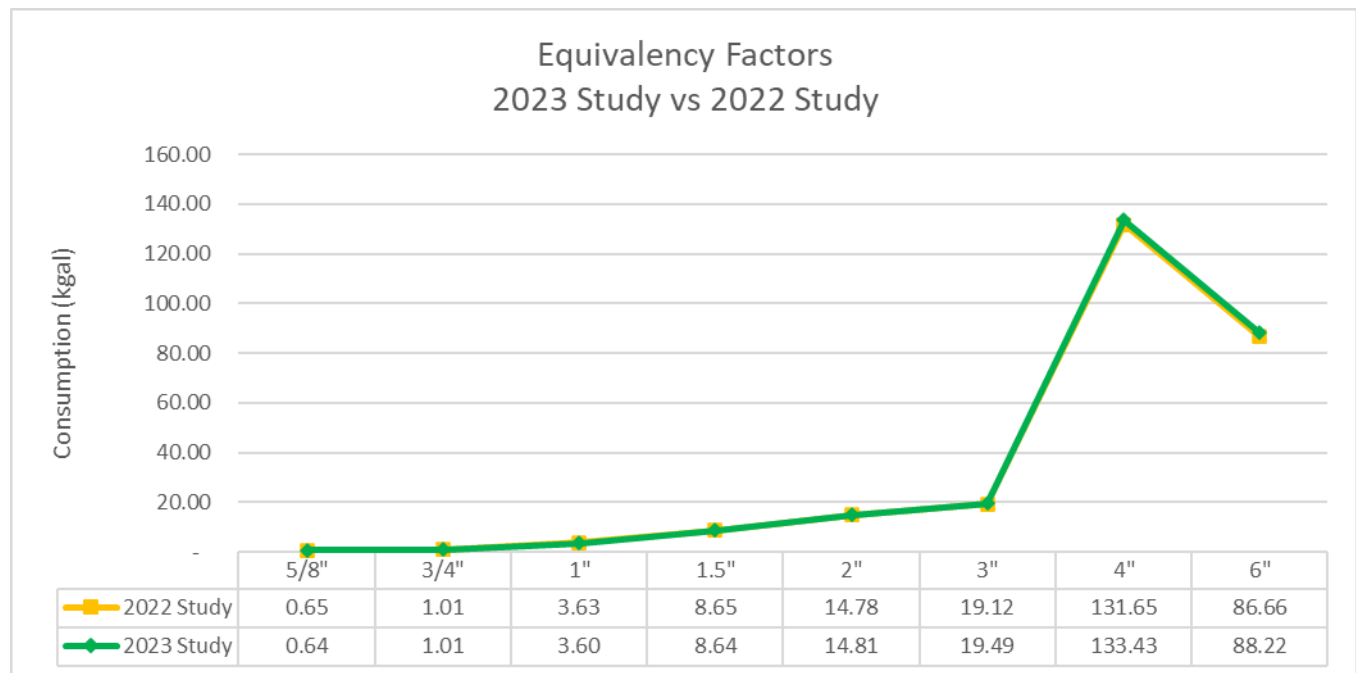
the equivalency factor times the number of meters which then equals to the number of SFEs currently being served by the system.

TABLE 4: 2023 STUDY ACTUAL USE EQUIVALENCY FACTORS (BASED ON 3-YEAR AVG. 2020-2022)

Meter Size	Residential	Multifamily	Commercial	Irrigation	Multifamily Indoor Use Only	Commercial Indoor Use Only	Equivalency Factor
5/8"	0.64	-	-	1.84	0.59	0.69	0.64
3/4"	1.00	2.57	1.18	3.84	0.38	1.32	1.01
1"	2.07	3.92	3.52	8.28	2.20	2.74	3.60
1.5"	-	8.58	5.50	18.62	5.98	4.40	8.64
2"	-	11.89	10.65	31.60	8.84	7.64	14.81
3"	-	40.67	16.30	50.07	35.18	9.91	19.49
4"	-	50.53	-	98.98	-	218.70	133.43
6"	-	-	88.22	-	-	-	88.22

Chart 19 compares the equivalency factors calculated from the most current rates and fees study to the prior year rates and fees study. As seen in the chart, no major variances exist from study to study so there is no methodology change recommended for the 2023 study.

CHART 19: EQUIVALENCY FACTORS 2023 STUDY COMPARED TO THE 2022 STUDY



REPRESENTATIVE CUSTOMER BY CUSTOMER CLASS

Customer data for the last three years (2020-2022) determines an average representative customer for each customer class. One customer from each customer class then represents the class average and their consumption patterns calculate a typical customer's annual bill. The process includes the following steps:

- Calculate the average consumption, total consumption, and consumption for irrigation season and winter season based on the most recent billing data (Jan22-Dec22).
- Select the most common meter size within each customer class and associated average consumption based on customer class and meter size.
- Select one customer per customer class from the data sample with both irrigation and winter period consumption to be a representative customer for each customer class.
- Eliminating customers with atypical consumption from the pool of customers eliminates skewing the average calculation for a representative customer by customer class. See the next section on atypical accounts for more information about the atypical accounts and the consumption patterns of these customers.

Results of the representative customer analysis shown in Table 5 are very similar to those we calculated in the prior year study. Average Winter Monthly Consumption (AWMC) is calculated by averaging the total potable water consumption used by the customer in the months of November-February in accordance with standard operating procedures maintained by Castle Rock Water. This represents the amount of water for indoor use (Tier 1) and the amount of wastewater treated each month. Since new customers do not have an established AWMC, the customer class average for water and wastewater is used.

During this study period, for single-family residential customers, the average AWMC is 4,000 gallons. Irrigation does not typically have winter consumption, however as shown below in Table 5 there is a small amount that is consumed due to leaks, late winterization, or watering prior to the beginning of irrigation season.

**TABLE 5: REPRESENTATIVE CUSTOMER BY CLASS
2022 BILLING DATA**

Customer Class	Most Common Meter Size	Total Annual Consumption (kgal)	Average Monthly Consumption (Jan-Dec 2022) (kgal)	Average Winter Monthly Consumption (kgal)	Average Irrigation Monthly Consumption (kgal)
Residential	3/4"	95.29	7.94	4.24	10.55
Multifamily	1.5"	808.82	67.40	44.44	83.80
Commercial	3/4"	126.55	10.55	9.61	11.17
Irrigation	3/4"	371.86	30.99	7.23	31.59
Multifamily Indoor Use Only	1.5"	626.94	52.24	50.70	53.34
Commercial Indoor Use Only	3/4"	122.86	10.24	9.60	10.68

ATYPICAL ACCOUNTS

In addition to completing the three-year average consumption comparisons, CRW looks at atypical customers. Atypical can be defined as a customer whose consumption patterns are not typical of an average customer in that same meter size and or customer class due to the nature of their business or varying water needs and demands. We eliminate these from the average calculations to avoid skewing the average for a representative customer by meter size and customer class.

The larger atypical customers that have been removed from the three year averages for the 2023 rates and fees study are 200% ET, carwashes, hotels, outdoor bathrooms, parking garages, sample stations, SFE reservations and swimming pools. Customers designated with a 200% ET are programmed athletic fields, which need more water to accommodate the heavier

use. Charts 20 through 23, shown below, are some of those atypical customers with the larger consumption variances.

After further analysis of the consumption patterns of the following accounts, they were deemed to not be considered atypical accounts as their average consumption patterns were much like those of the other customers in the corresponding meter and or customer class. These account types remain in the average calculations, which are snowbirds, medical facilities other than the hospital, Castle Rock Water Facilities, and the Fairgrounds.

Charts 20 through 23 show the number of customers in each atypical class, the 3-year average with the atypical customers included, the 3-year average without the atypical customers included and the 3-year average of the atypical class by itself.

CHART 20: 200% ET ATYPICAL CUSTOMERS

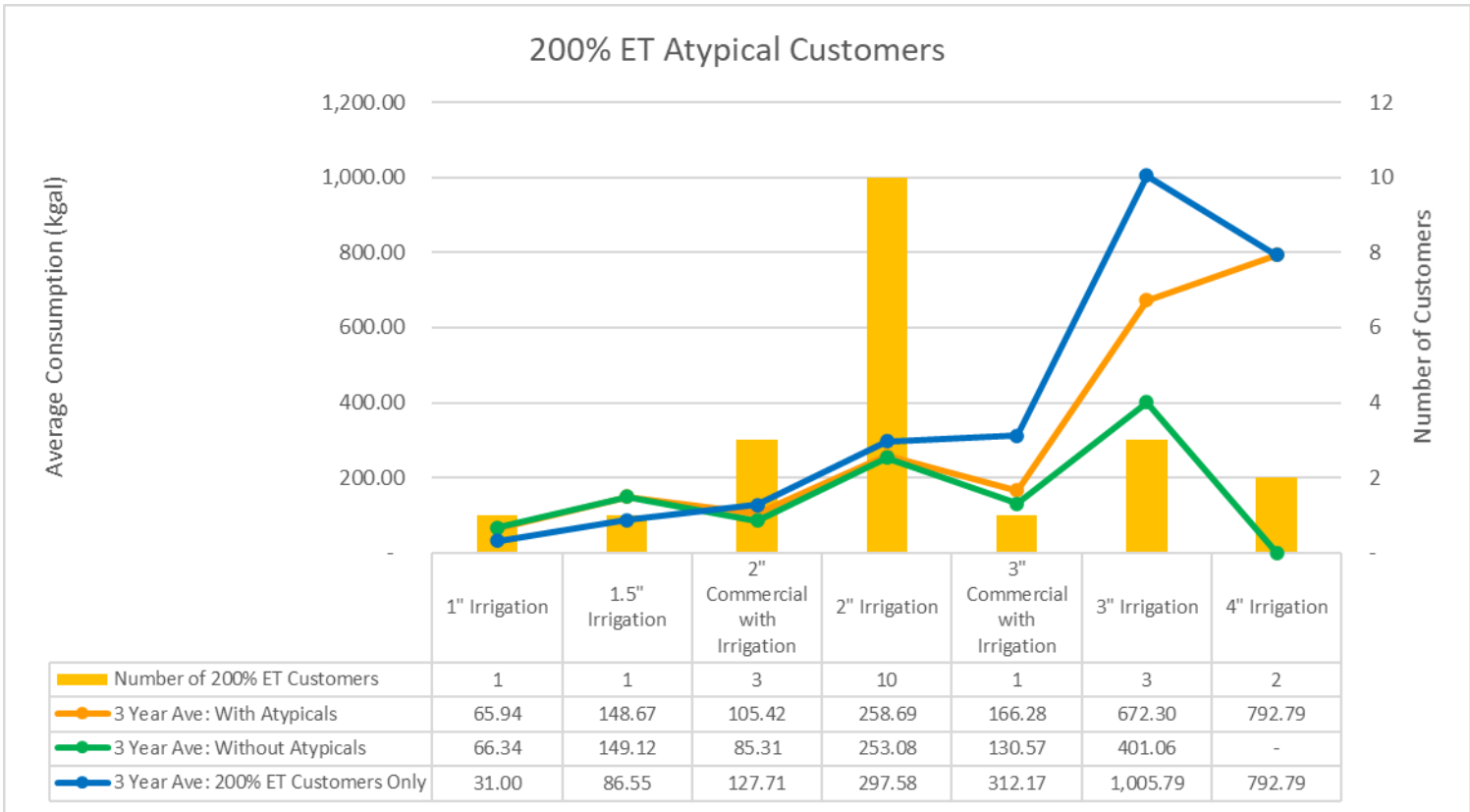


CHART 21: CARWASH ATYPICAL CUSTOMERS

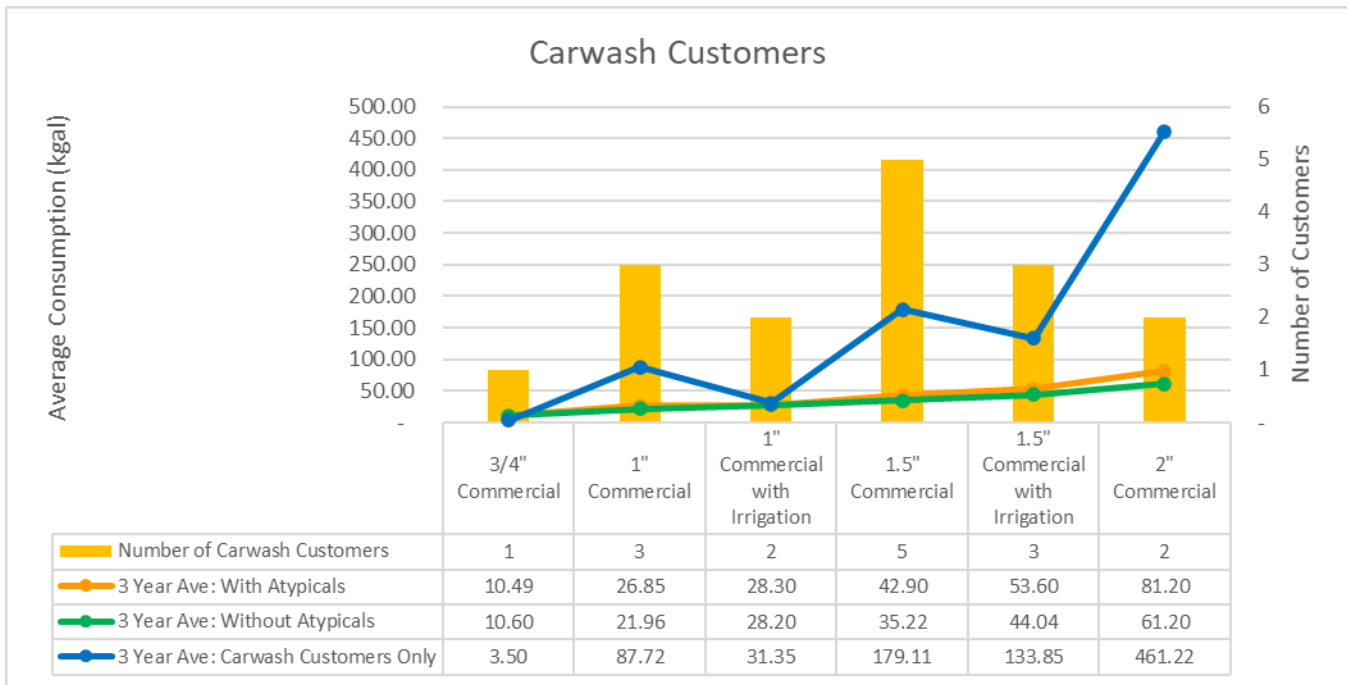


CHART 22: HOTEL ATYPICAL CUSTOMERS

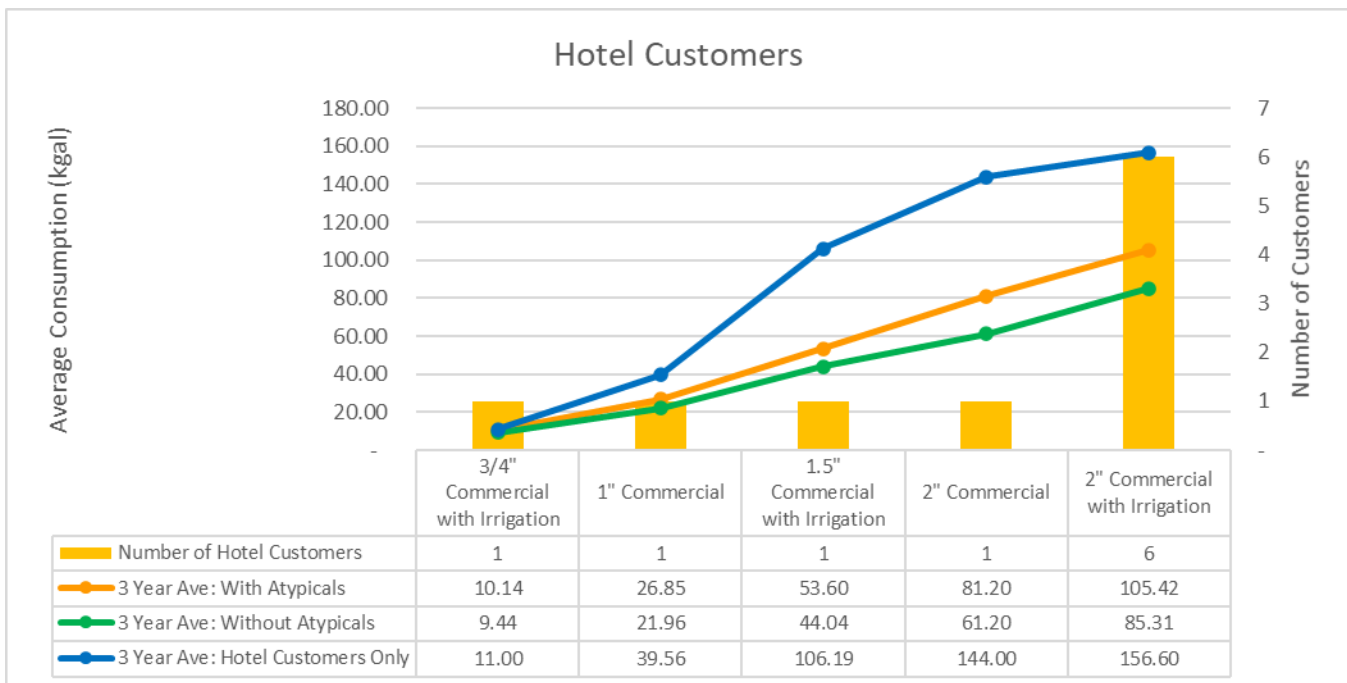
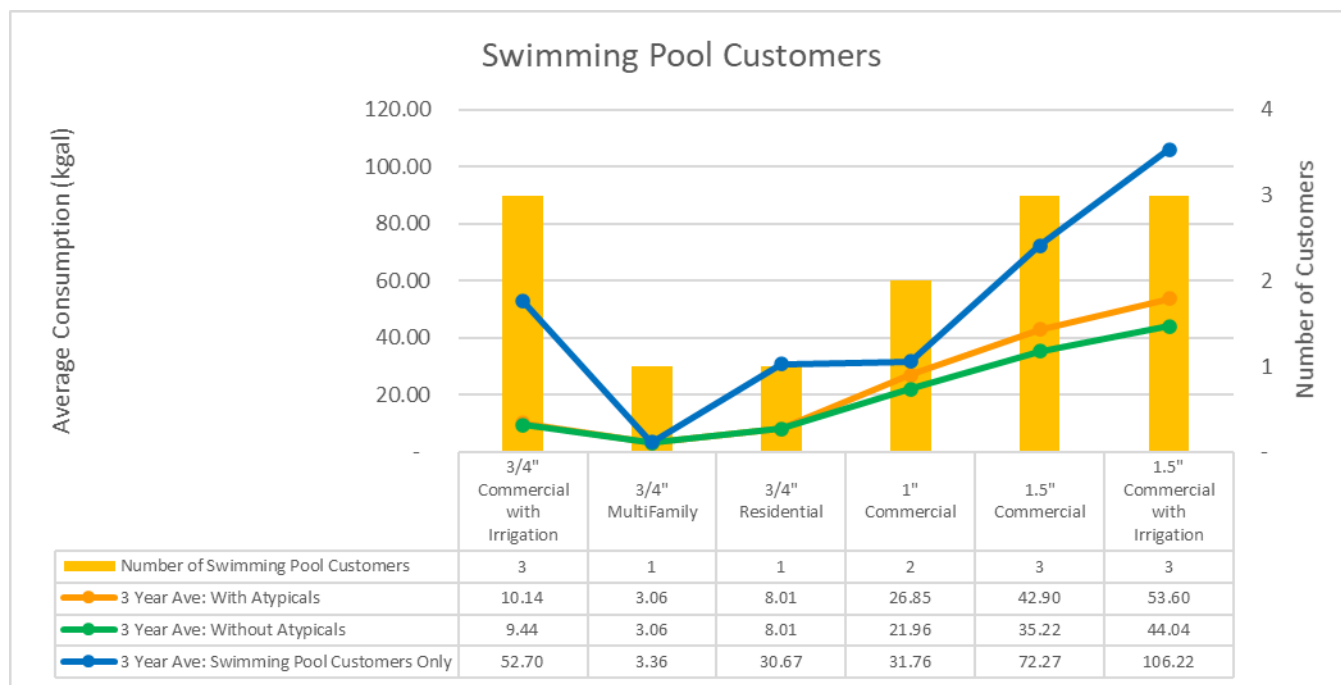


CHART 23: SWIMMING POOL ATYPICAL CUSTOMERS



CONSUMPTION BY TIER

To compare the total water usage by tier over time, Table 6 and Table 7 were prepared from actual billing data for January 2022 through December 2022. Charts 24-28 compare the total water usage by tier for each customer class for 2013-2022. Surcharge revenue funds the water conservation programs such as the rebate program in the Water Resources Fund.

TABLE 6: BILLED USAGE BY CUSTOMER CLASS BY TIER JANUARY 2022-DECEMBER 2022

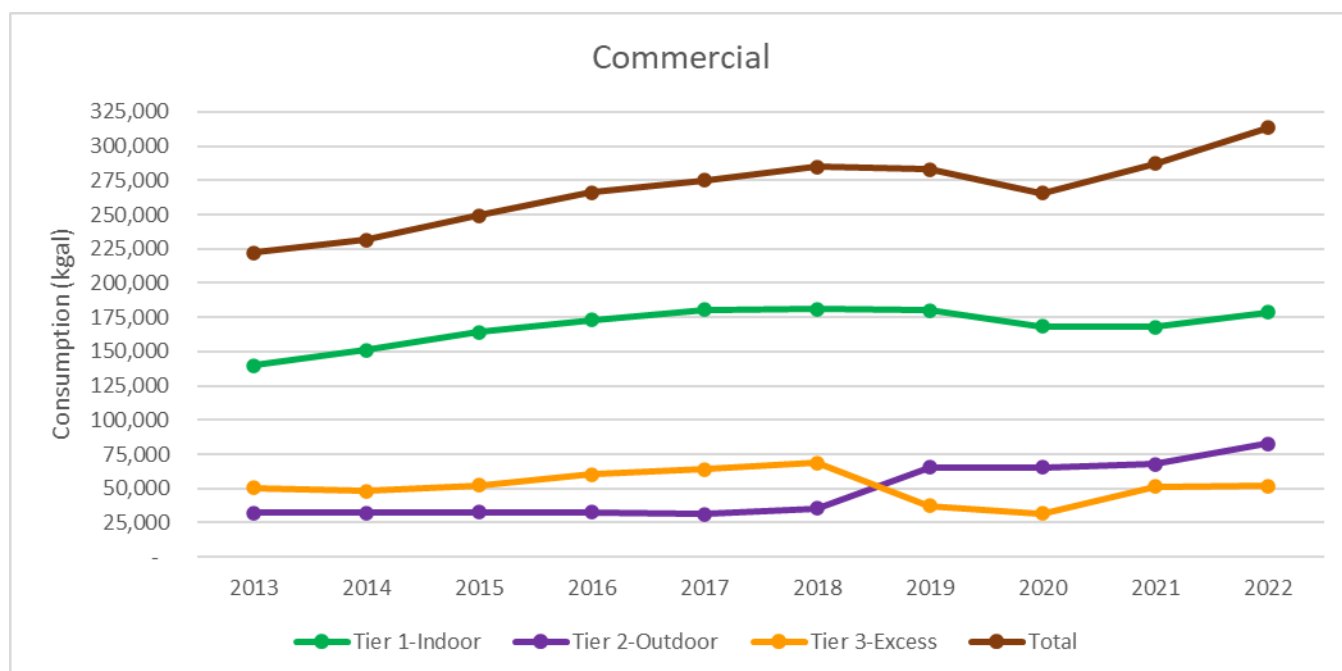
Class	Tier 1	Tier 2	Tier 3	Total	Surcharge
Commercial	112,841	50,726	17,814	181,381	-
Commercial w/ Irrig	65,900	32,163	34,091	132,154	-
Irrigation	-	350,242	59,910	410,152	-
MultiFamily	118,494	16,596	10,977	146,067	-
MultiFamily w/ Irrig	50,421	18,364	15,654	84,439	-
Residential	988,956	904,490	221,325	2,114,771	17,260
Total Kgals	1,336,612	1,372,582	359,771	3,068,965	17,260
Tier % of Total	44%	45%	12%	100%	

TABLE 7: BILLED USAGE BY SEASON BY CUSTOMER CLASS BY TIER JANUARY 2022-DECEMBER 2022

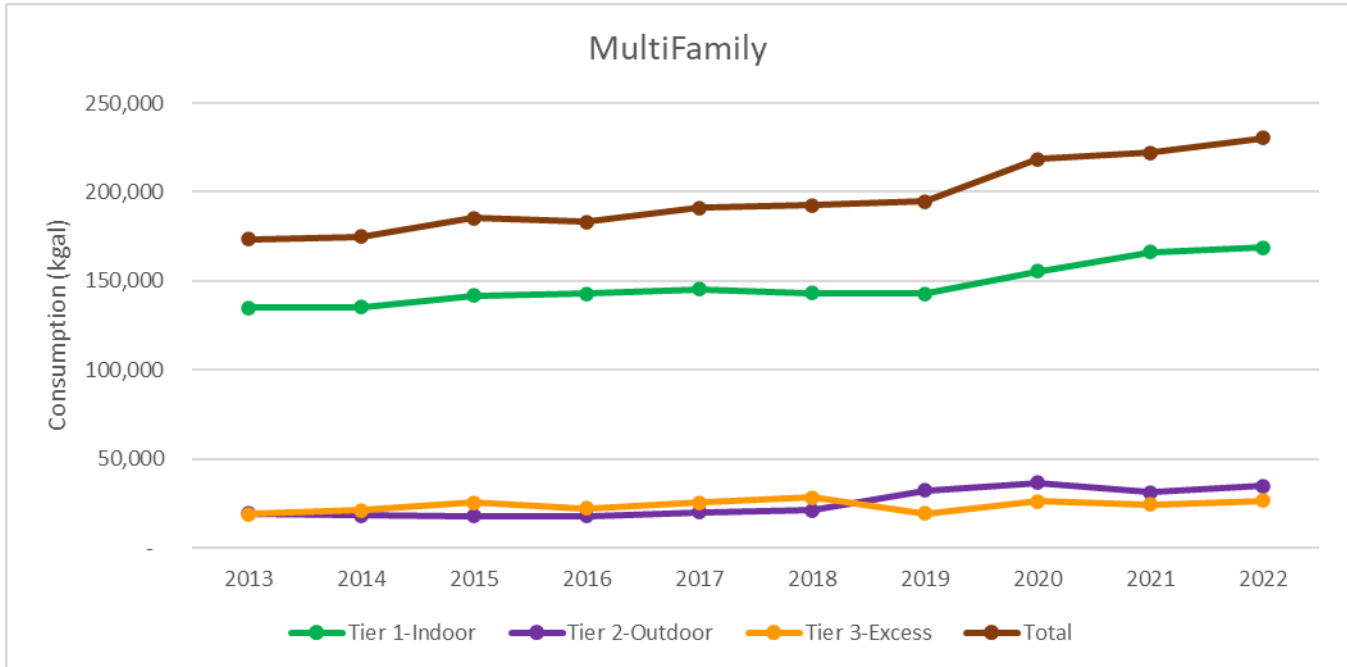
Winter Season					
Class	Tier 1	Tier 2	Tier 3	Total	Surcharge
Commercial	46,503	-	17,773	64,276	-
Commercial w/ Irrig	25,237	-	8,547	33,784	-
Irrigation	-	-	729	729	-
MultiFamily	48,452	-	10,977	59,429	-
MultiFamily w/ Irrig	20,467	-	3,353	23,820	-
Residential	389,386	-	82,665	472,051	1,661
Total Kgals	530,044	-	124,044	654,088	1,661
Tier % of Total	81%	0%	19%	100%	

Irrigation Season					
Class	Tier 1	Tier 2	Tier 3	Total	Surcharge
Commercial	66,338	50,726	41	117,105	-
Commercial w/ Irrig	40,663	32,163	25,544	98,370	-
Irrigation	-	350,242	59,181	409,423	-
MultiFamily	70,042	16,596	-	86,638	-
MultiFamily w/ Irrig	29,954	18,364	12,301	60,619	-
Residential	599,571	904,490	138,660	1,642,721	15,599
Total Kgals	806,568	1,372,582	235,727	2,414,876	15,599
Tier % of Total	33%	57%	10%	100%	

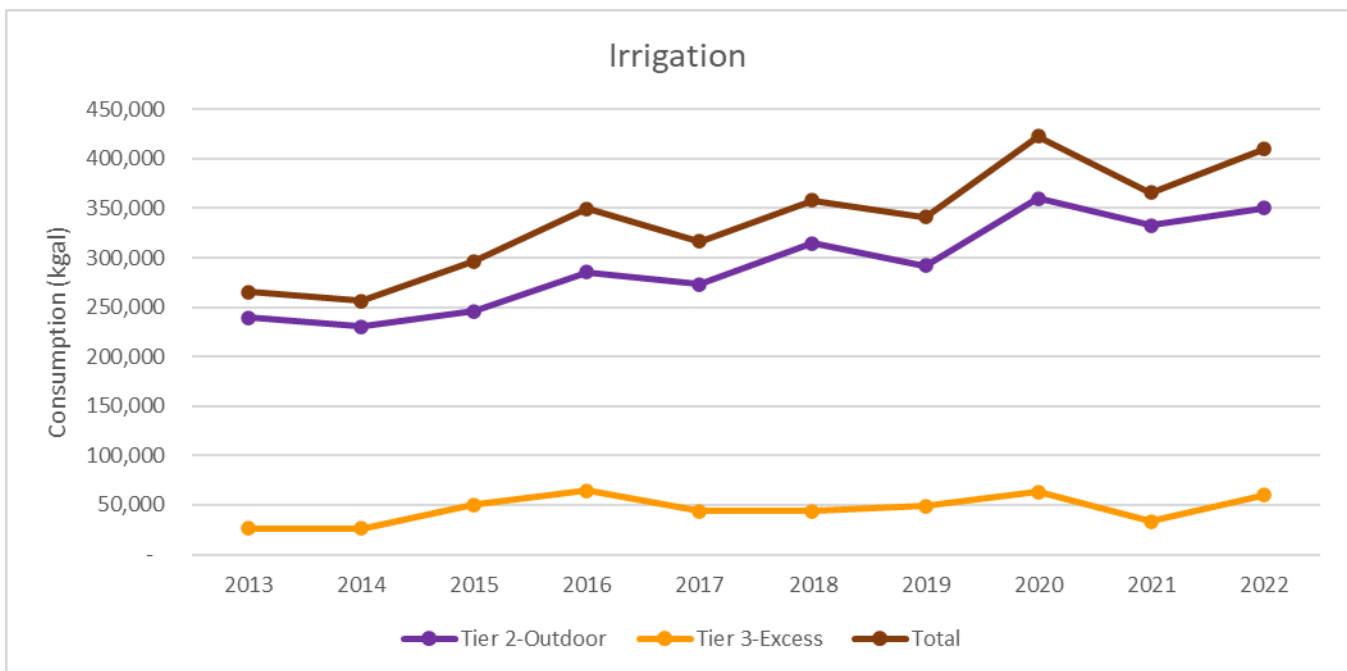
CHART 24: COMMERCIAL CUSTOMER CLASS ANNUAL BILLED USAGE BY TIER 2013-2022



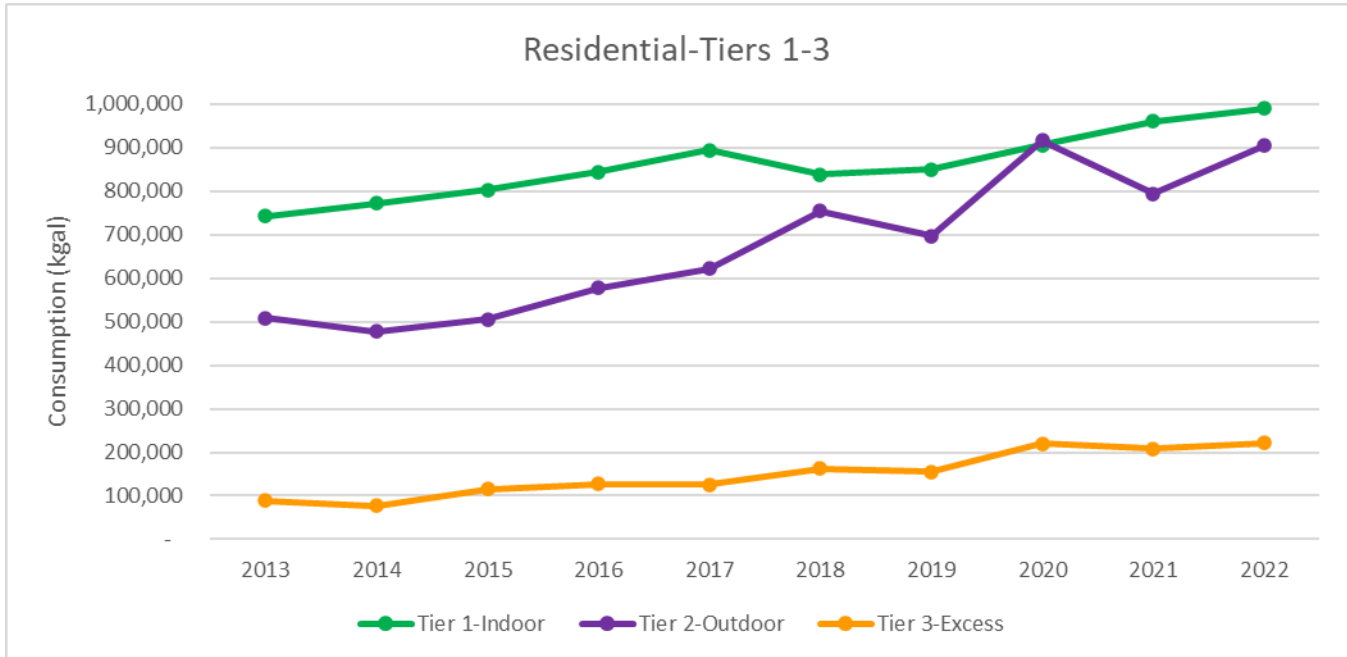
**CHART 25: MULTIFAMILY CUSTOMER CLASS
ANNUAL BILLED USAGE BY TIER 2013-2022**



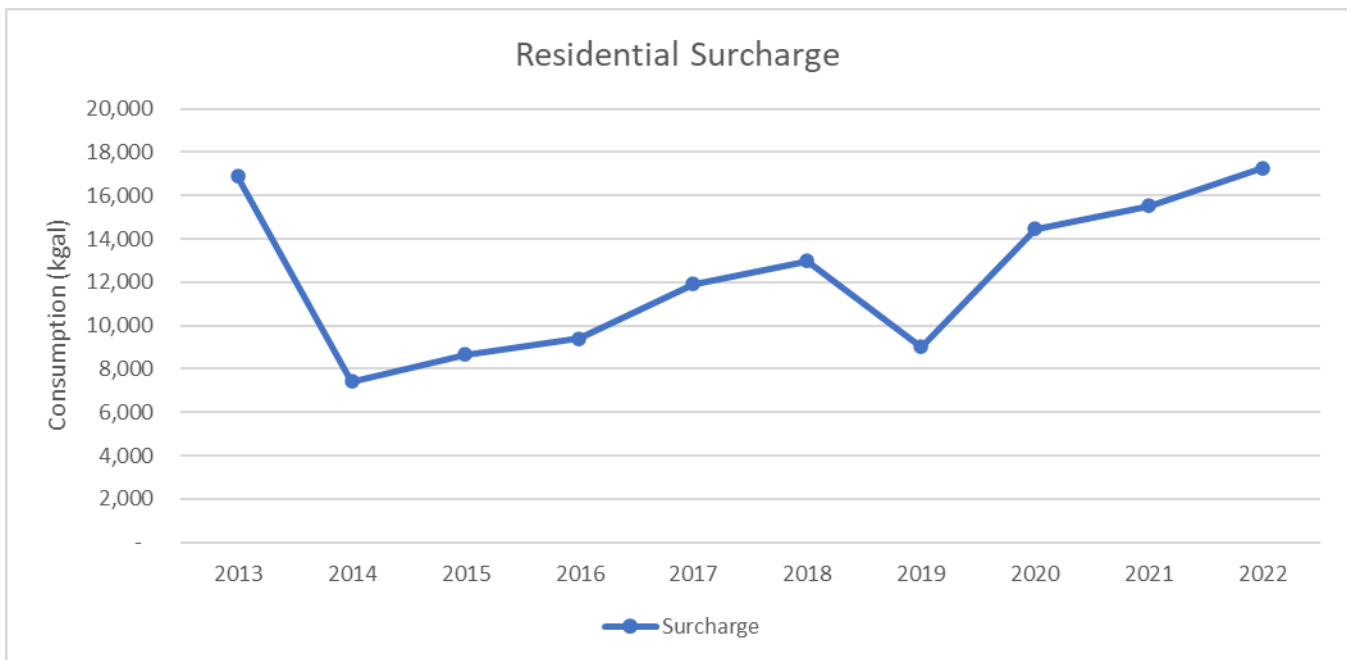
**CHART 26: IRRIGATION CUSTOMER CLASS
ANNUAL BILLED USAGE BY TIER 2013-2022**



**CHART 27: RESIDENTIAL CUSTOMER CLASS
ANNUAL BILLED USAGE BY TIER 2013-2022**



**CHART 28: RESIDENTIAL CUSTOMER CLASS
ANNUAL BILLED USAGE
RESIDENTIAL SURCHARGE 2013-2022**



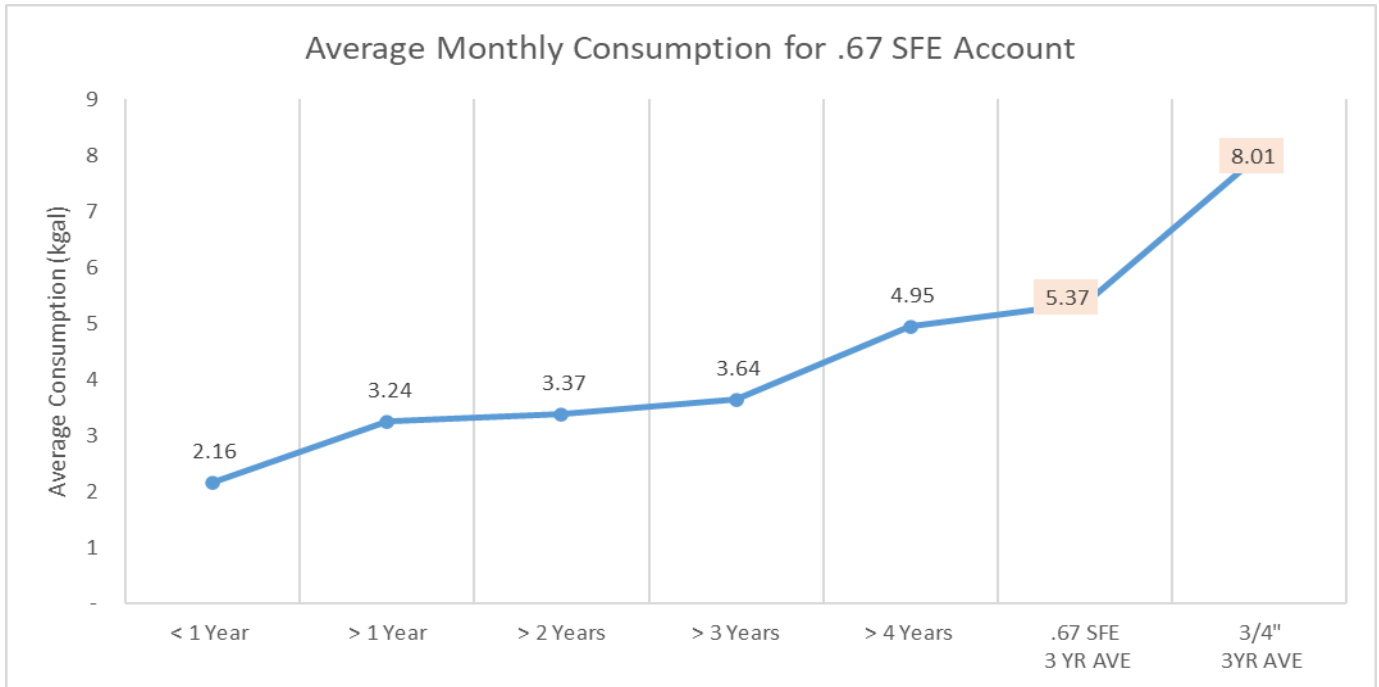
Charts 24 shows that Commercial consumption has seen steady increases in consumption over the past 10 years. We did see a slight reduction in 2020, however the following two years did see a continuation of the trend, driven primarily by Tier 2. Chart 25 shows that Multifamily has seen incremental increases in consumption over the last two years after seeing a larger increase in 2020. Irrigation customers as shown in Chart 26 saw a decrease in 2021 after a dry irrigation season in 2020, however we did see an increase in consumption between 2021 and 2022. Residential account usage by tier in Chart 27 and Surcharge usage in Chart 28 show increases in Tier 1, Tier 2 and Surcharge, however Tier 3 remained relatively flat to 2021.

5/8" ACCOUNTS - 0.67 SFE

Castle Rock Water continues to evaluate 0.67 SFE accounts to determine performance relative to the goal of 33% less usage than that of the average residential 1 SFE. As of January 1, 2021, the water resources monthly fixed charge for an existing 0.67 SFE account is charged the reduced amount of 67% of a 1 SFE. Those accounts will continue with the reduced monthly fixed amount until they transfer ownership, at which time they will be reset to a 1 SFE going forward. New residential accounts as of January 1, 2021 have all been set up with a 1 SFE due to the fact that the nature of the program is not being met in the long term. This change does not apply to the water resources system development fees as those remained at 67% of the cost of 1 SFE. As of January 2023, the .67 SFE program was discontinued in lieu of the new landscape criteria requirements that went into effect on January 1, 2023. Beginning in 2023, all new single family residential permits that meet or exceed the new landscape criteria and have a builder-installed front and back yard may qualify for reduced water resources and water system development fees depending on total fixture calculations and irrigation requirements.

As shown in Chart 29 below, 8.01 is the 3-year average monthly consumption for a ¾" residential account, or one SFE, which is higher than last year's study 3-year average of 7.81.

CHART 29: 0.67 SFE ACCOUNT CONSUMPTION BY YEAR



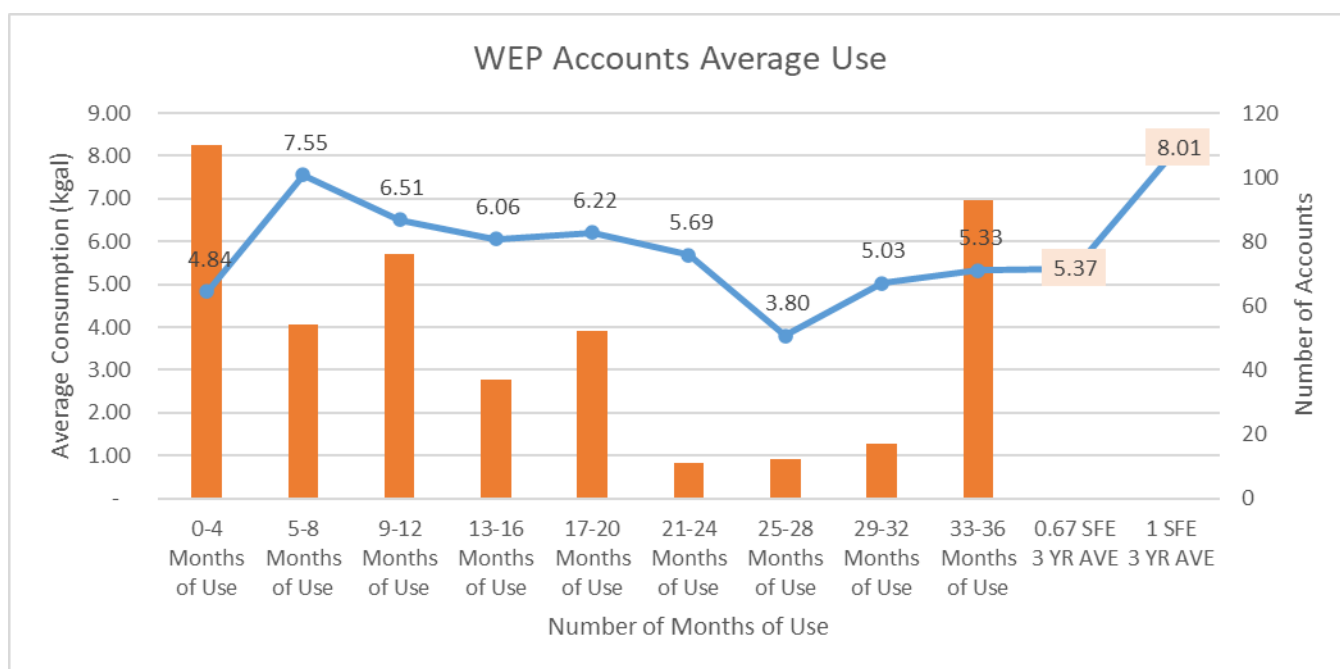
WATER EFFICIENCY PLAN (WEP) ACCOUNTS

New to Castle Rock Water in 2019 were Water Efficiency Plan (WEP) accounts. These are accounts that are outfitted with water efficient products that must meet or exceed identified water efficiency requirements. As of the end of 2022 there were 462 approved accounts that met the criteria. Table 8 below shows 69 customers were over the average usage in 2022 for a 1 SFE and 131 were over the 0.67 SFE. Unlike the 0.67 SFE program these 462 accounts can have varying SFEs below a 1 SFE based on fixture calculations and irrigation requirements. As of January 2023, the WEP program was discontinued in lieu of the new landscape criteria requirements that went into effect on January 1, 2023. Beginning in 2023, all new single family residential permits that meet or exceed the new landscape criteria and have a builder-installed front and back yard may qualify for reduced water resources and water system development fees depending on total fixture calculations and irrigation requirements.

TABLE 8: AVERAGE WEP ACCOUNT USAGE

Average Use	Number of Accounts
8.01 kgals and above	69
5.37 - 8.01 kgals	131
2.69 - 5.37 kgals	173
0.00 - 2.59 kgals	89
Total Accounts	462

CHART 30: AVERAGE WEP ACCOUNT USAGE VS. 0.67 AND 1.00 SFE USAGE



The data collected for this chart is from January 2020-December 2022

IRRIGATION USAGE BASED ON WATERING SCHEDULES

Each irrigation season Castle Rock Water puts out a residential watering schedule based on the last digit of the service address representing a circle, diamond or square. Starting in 2018, non-residential customers were assigned watering days based on being on the east or west side of I-25. Given the importance of the watering schedules, CRW has tracked the usage of customers by year by watering schedule.

Below are charts that show the residential and non-residential water usage from 2013 to 2022 based on their scheduled watering days. For residential customers, circle and diamond customers have very similar usage for all the years, whereas the square customers have higher usage than the circle and diamond customers. One reason for this is the number of customers for each schedule. Square has the most at 9,265 customers, circle is second with 7,696 customers and diamond has the least with 7,486 customers based on the 2022 billing data.

For non-residential usage, customers on the west side of I-25 have less usage on an annual basis than customers on the east side of I-25. The east side has more customers, 1,104 customers, than the west side, 706 customers, based on the 2022 billing data. Overall this information can help us to track water consumption patterns for each customer group and can help CRW to determine if the schedule breakouts need to be reevaluated in the future or if the water usage patterns are adequate in meeting peak daily demands.

CHART 31: RESIDENTIAL IRRIGATION SEASON USAGE BY WATERING SCHEDULE

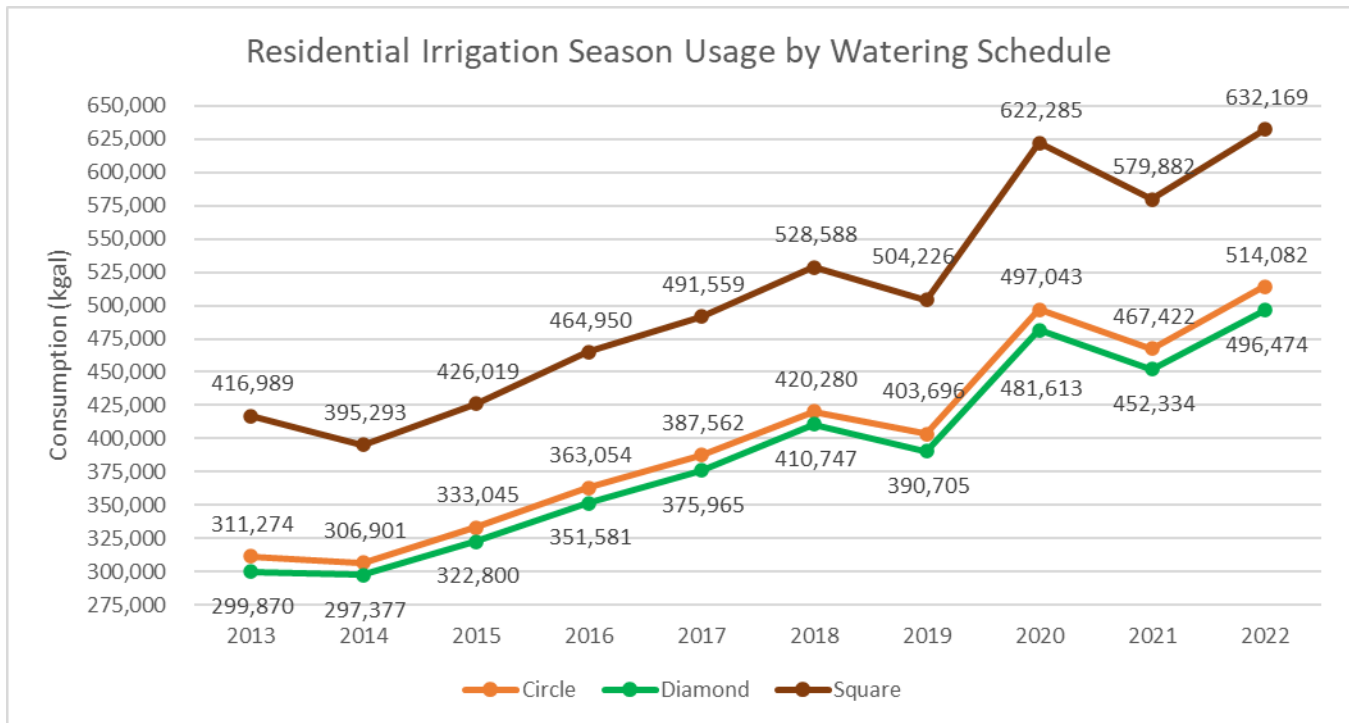
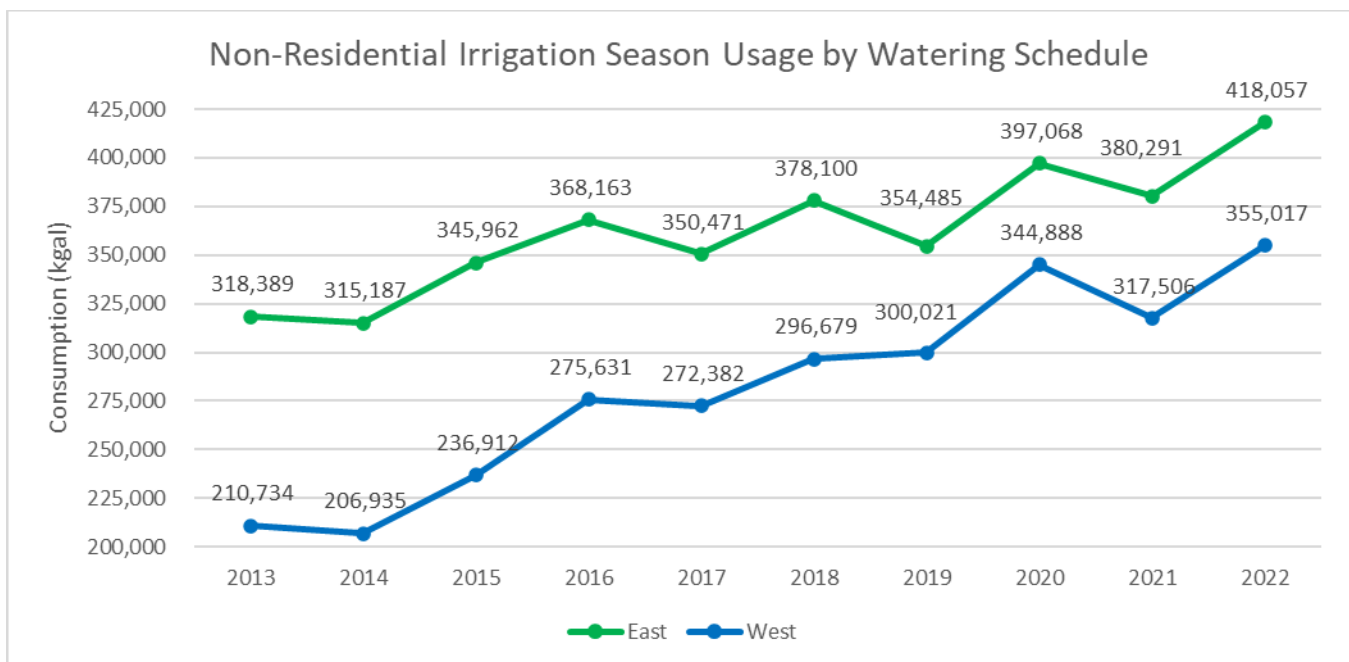


CHART 32: NON-RESIDENTIAL IRRIGATION SEASON USAGE BY WATERING SCHEDULE



IRRIGATION SEASON USAGE VERSUS WEATHER PATTERNS

CRW looked into whether a dry versus a wet irrigation season would make a difference on usage patterns across the different customer classes. The four charts below show the number of days of rainfall for each month for a three-year time period compared to the actual usage for the customer class for that same time period. In looking at Charts 33-36 for the different customer classes, it is up and down as to whether or not the rainfall and weather patterns affect the use for each customer class. CRW is working with Stantec Consulting, Inc. to further analyze these statistics.

CHART 33: RESIDENTIAL MONTHLY USAGE VS. DAYS OF MONTHLY RAINFALL

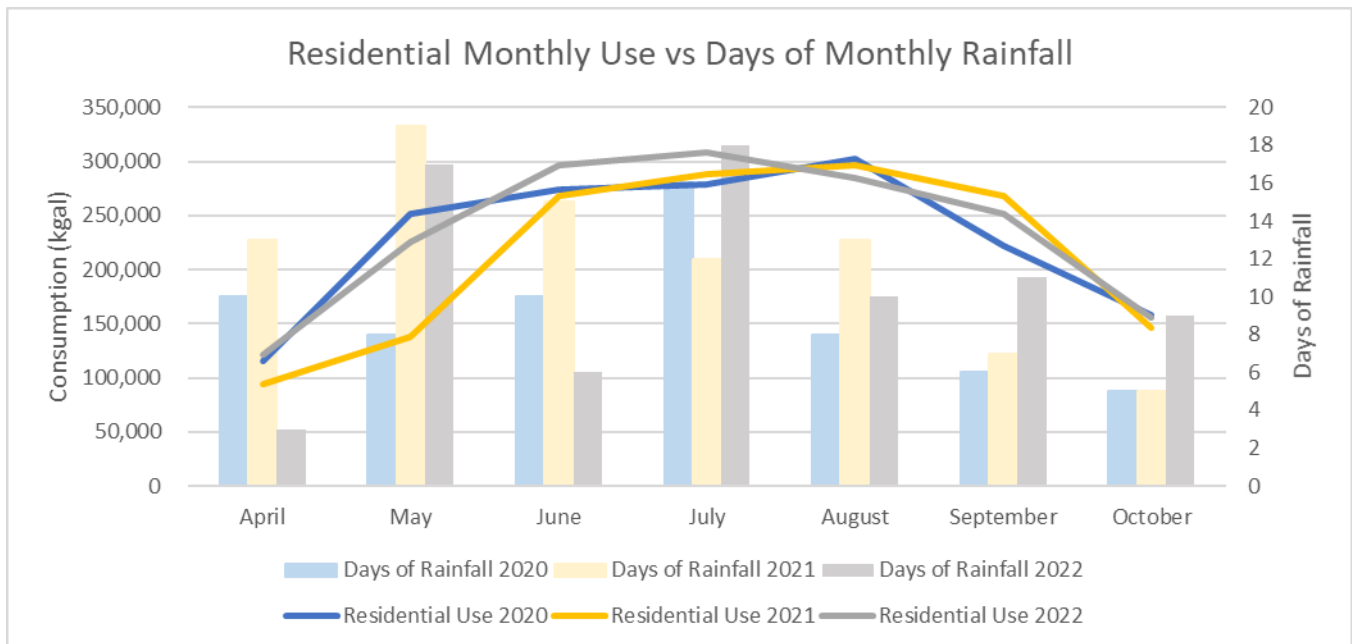


CHART 34: IRRIGATION MONTHLY USAGE VS. DAYS OF MONTHLY RAINFALL

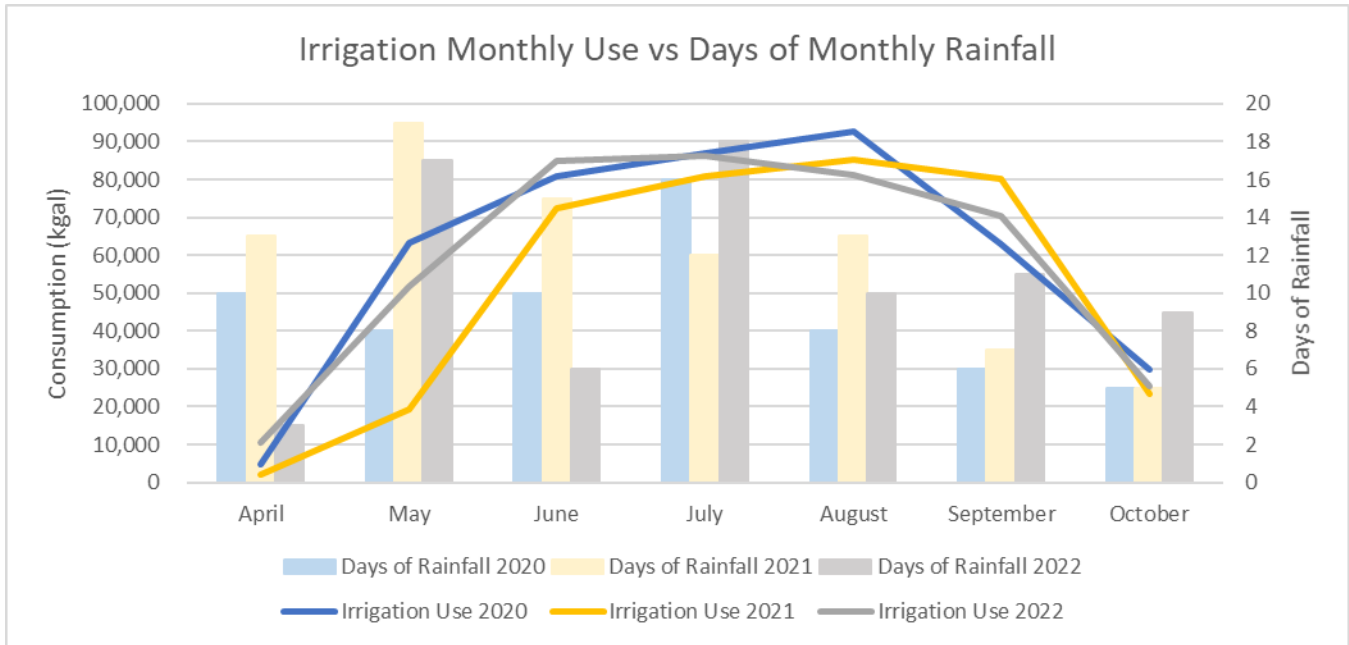
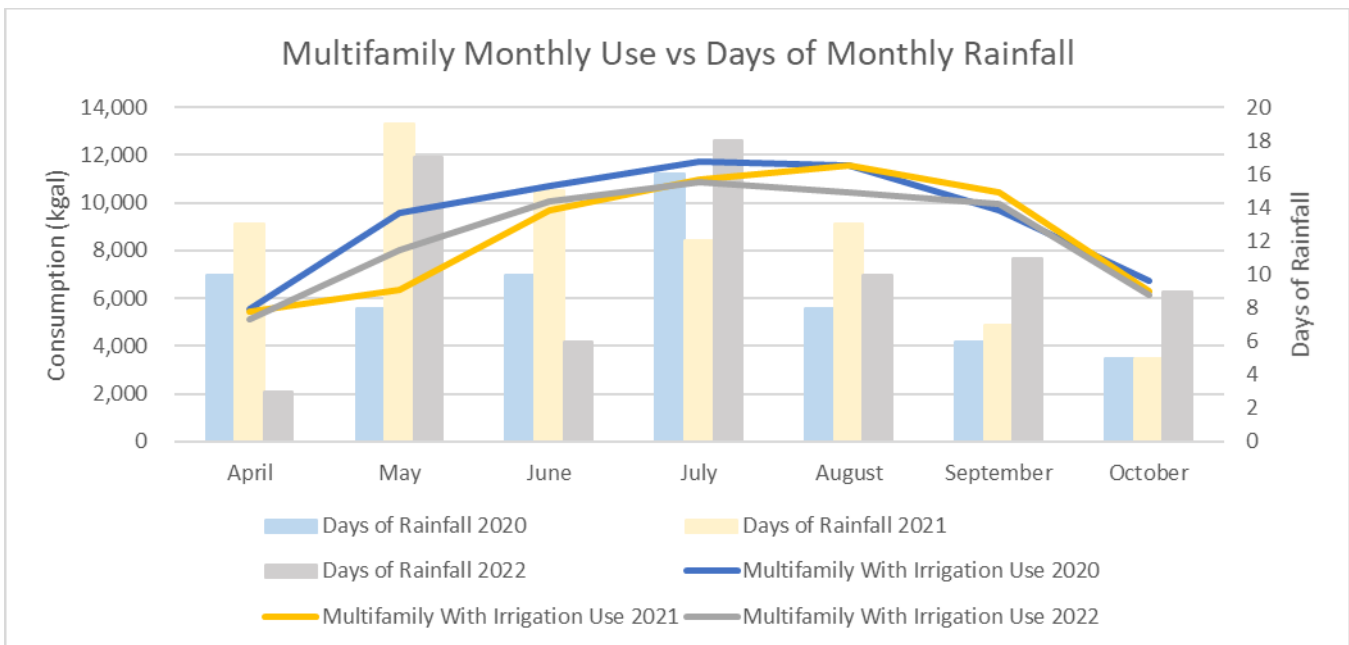
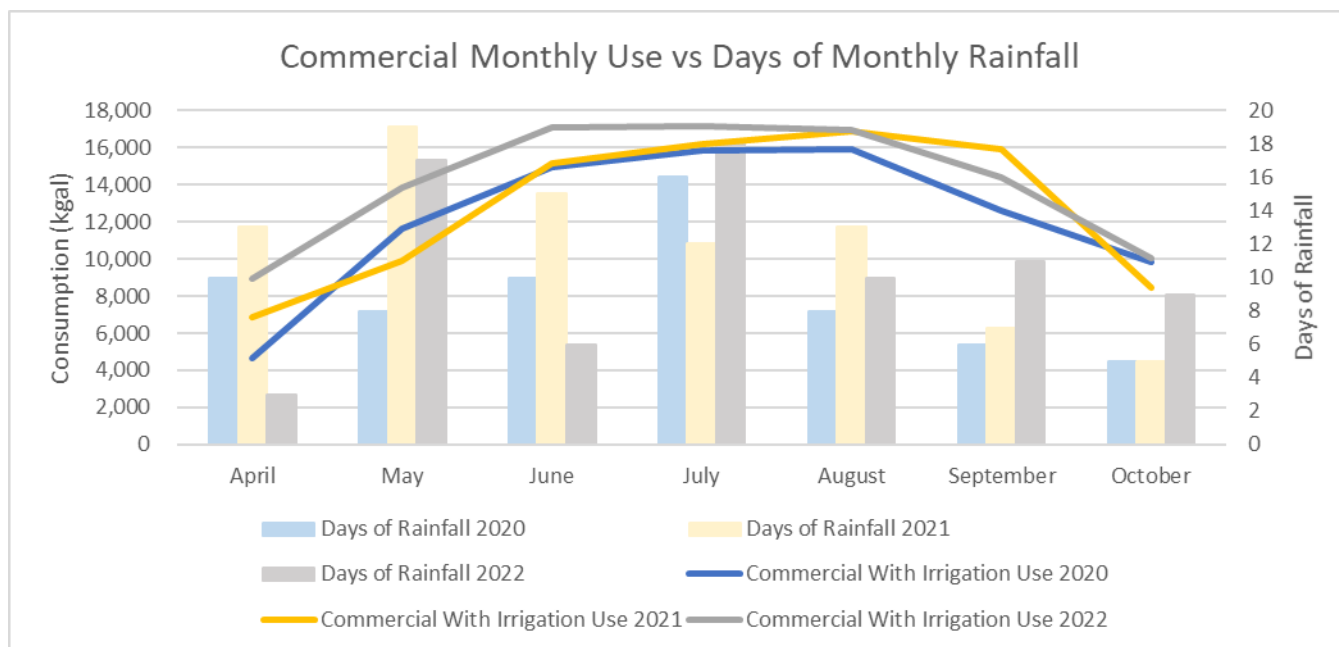


CHART 35: MULTIFAMILY WITH IRRIGATION MONTHLY USAGE VS DAYS OF MONTHLY RAINFALL



**CHART 36: COMMERCIAL WITH IRRIGATION
MONTHLY USAGE VS. DAYS OF MONTHLY RAINFALL**



WATER WISER CUSTOMERS

Each year CRW offers Water Wiser classes for customers. The purpose of the class is to help educate customers about watering more efficiently. It also helps to educate customers on water conservation and more efficient landscaping ideas. As a water wiser customer, you can water any day as needed versus following the every third day watering schedule. However, residential customers must still water between the hours of 8:00 p.m. and 8:00 a.m.

In order to see the success of the program, CRW completed some analysis on the water wiser accounts consumption patterns before and after taking the water wiser class. In order to analyze these customers, CRW looked at three different data sets. These three data sets were customers who had water usage for 12 months before they obtained their water wiser status and 12 months of usage after they became a water wiser. The other two data sets were for customers with 24 months and 36 months of data before and after completing the water wiser program. The table below shows the before and after water wiser average usage.

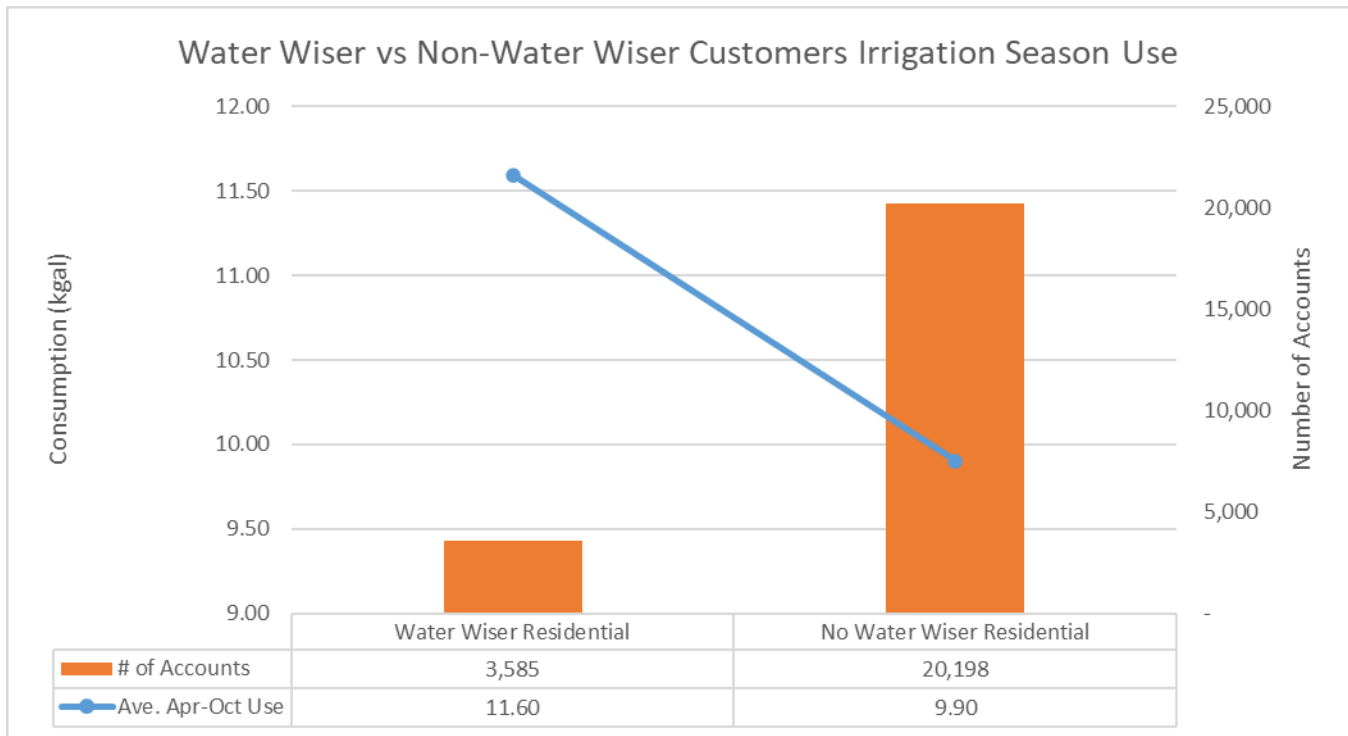
**TABLE 9: BEFORE AND AFTER WATER WISER
AVERAGE USAGE**

# of Months Before and After Water Wiser	Average Usage Before Water Wiser Class	Average Usage After Water Wiser Class	% of Customers to Decrease Usage After Water Wiser Class
36 Months	9.6	8.6	58%
24 Months	8.8	8.6	54%
12 Months	8.5	8.5	50%

Table 9 shows that overall the average consumption has been decreasing for customers after taking the water wiser class. In general, when looking at the individual accounts for the 36 months of data, 58% of people have decreased their average usage, which means that 42% of users have maintained or increased their average usage despite attending a water wiser workshop. This data shows that as we add more months the data is improving. At 12 months of consumption, it shows that only 50% of users decreased their usage and at 24 months of consumption this increased to 54%. Overall, there is room for improvement for roughly 42% of the water wiser customers.

One other comparison completed was to see how the water wiser customers compare to the non-water wiser customers average irrigation usage (April through October). When looking at the residential customers for the average irrigation season usage the water wiser customers have a higher average at 11.60 kgals versus 9.90 kgals for the customers who have not taken the water wiser classes, which is a concerning statistic.

CHART 37: WATER WISER VS. NON-WATER WISER CUSTOMERS IRRIGATION SEASON USE (APRIL TO OCTOBER)



IMPACT OF IRRIGATED AREAS (SQUARE FEET)

Chart 38 shows the number of residential accounts by irrigated area. Chart 39 shows the average monthly consumption by irrigated area for residential customers. As expected, the more irrigated area, the more the average consumption per month. Chart 40 shows total usage by irrigated area for commercial accounts. Chart 41 shows average monthly consumption for commercial accounts by irrigated area.

CHART 38: RESIDENTIAL ACCOUNTS BY IRRIGATED AREA

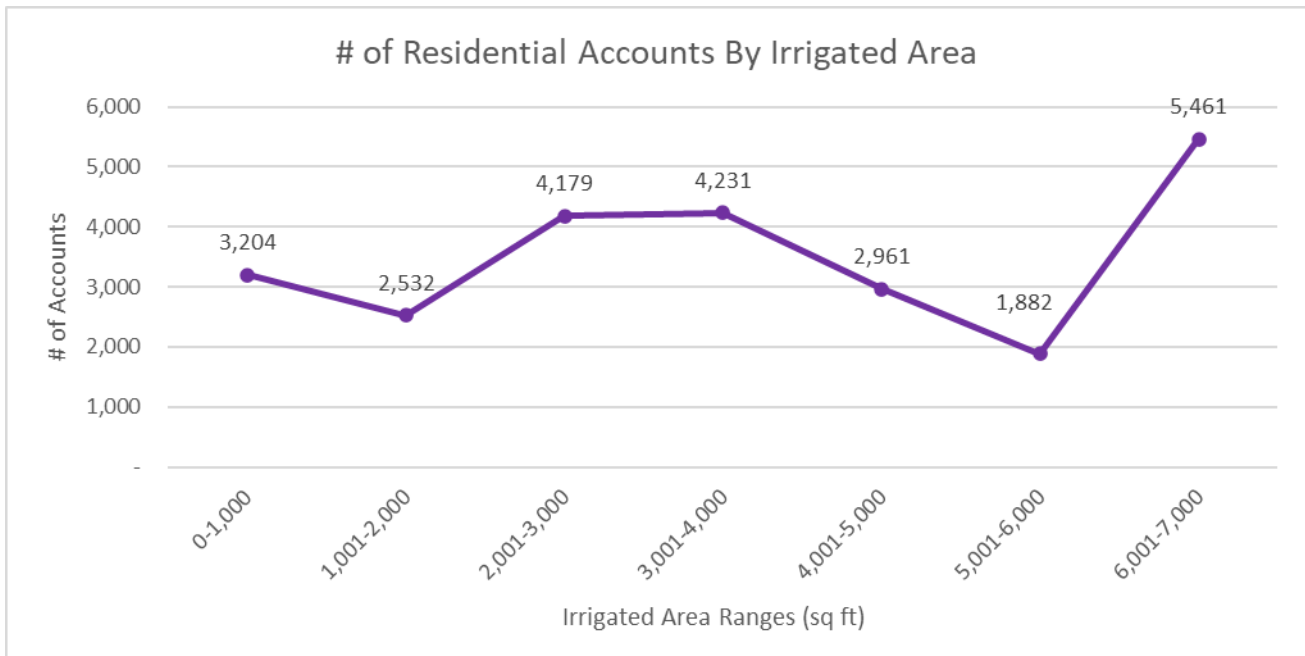


CHART 39: RESIDENTIAL AVERAGE MONTHLY CONSUMPTION BY IRRIGATED AREA

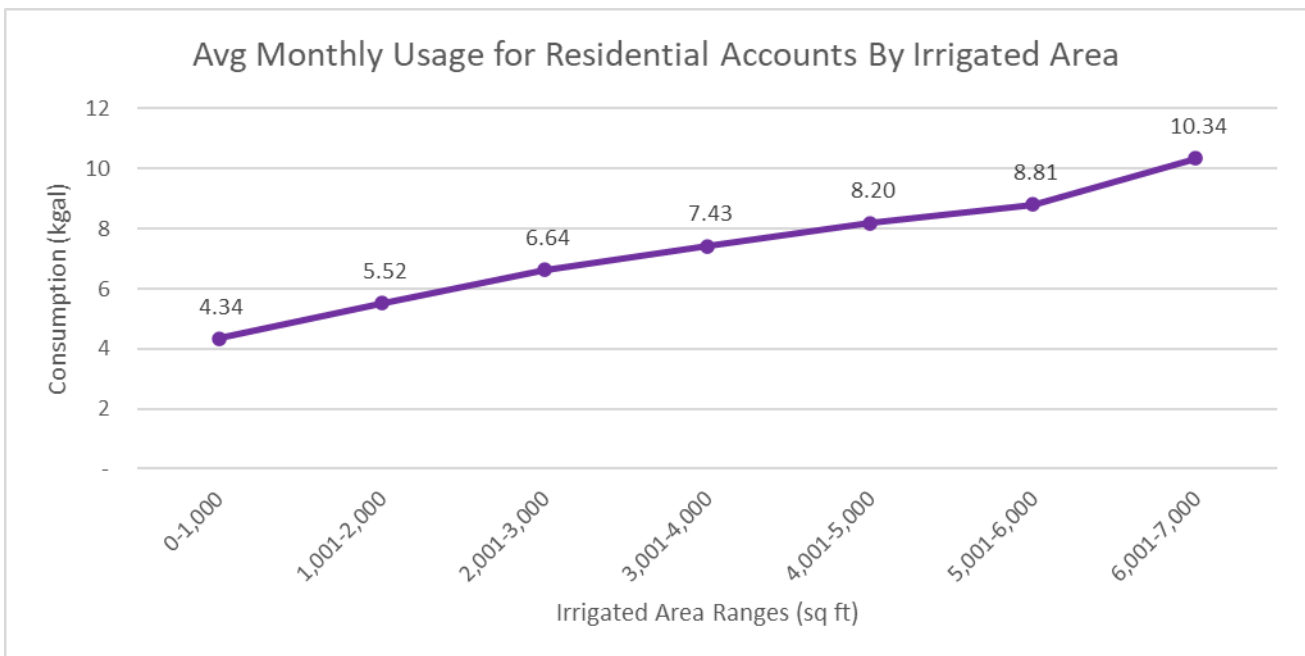


CHART 40: COMMERCIAL ACCOUNTS BY IRRIGATED AREA

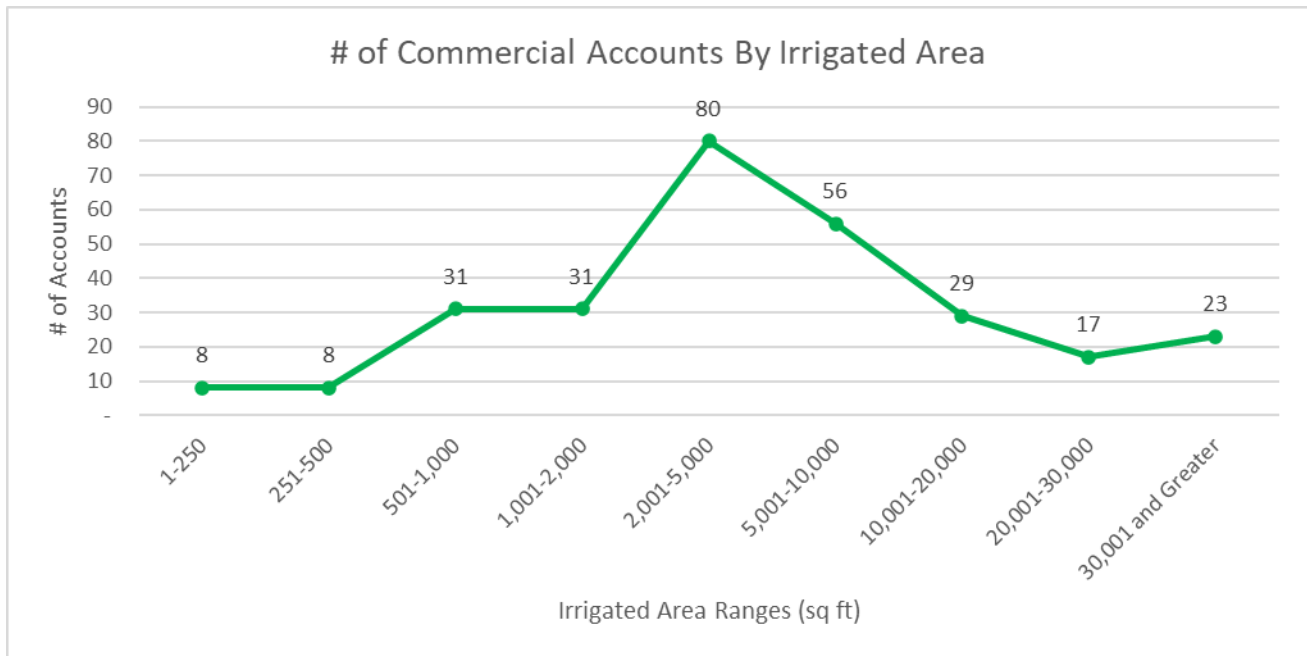
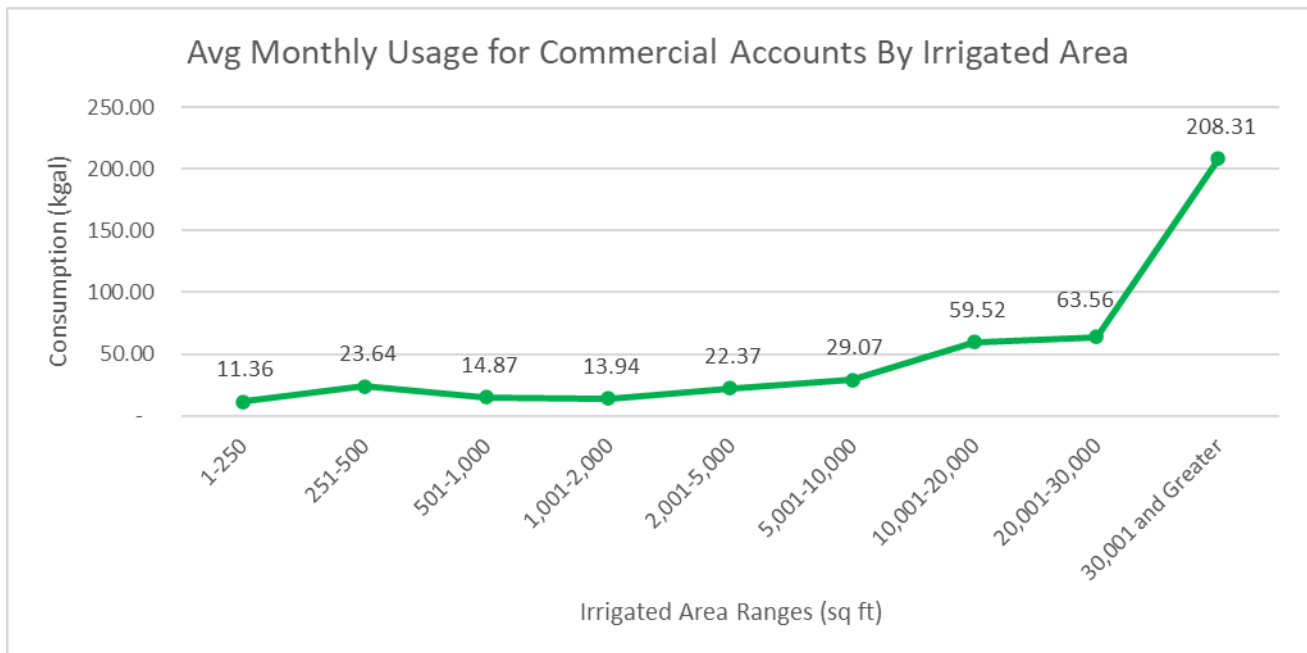


CHART 41: COMMERCIAL AVERAGE MONTHLY CONSUMPTION BY IRRIGATED AREA



HOA'S AVERAGE MONTHLY CONSUMPTION

**CHART 42: AVERAGE MONTHLY CONSUMPTION FOR
ALL HOAS (94) COMBINED**

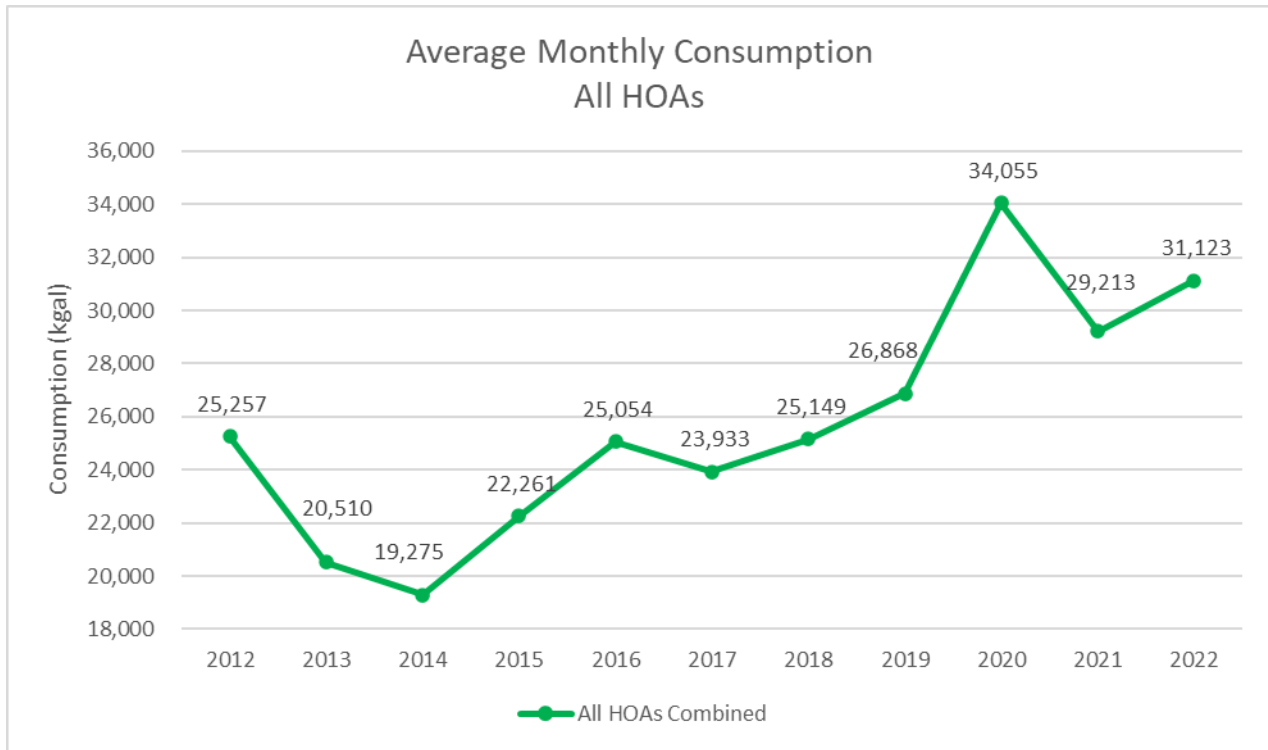
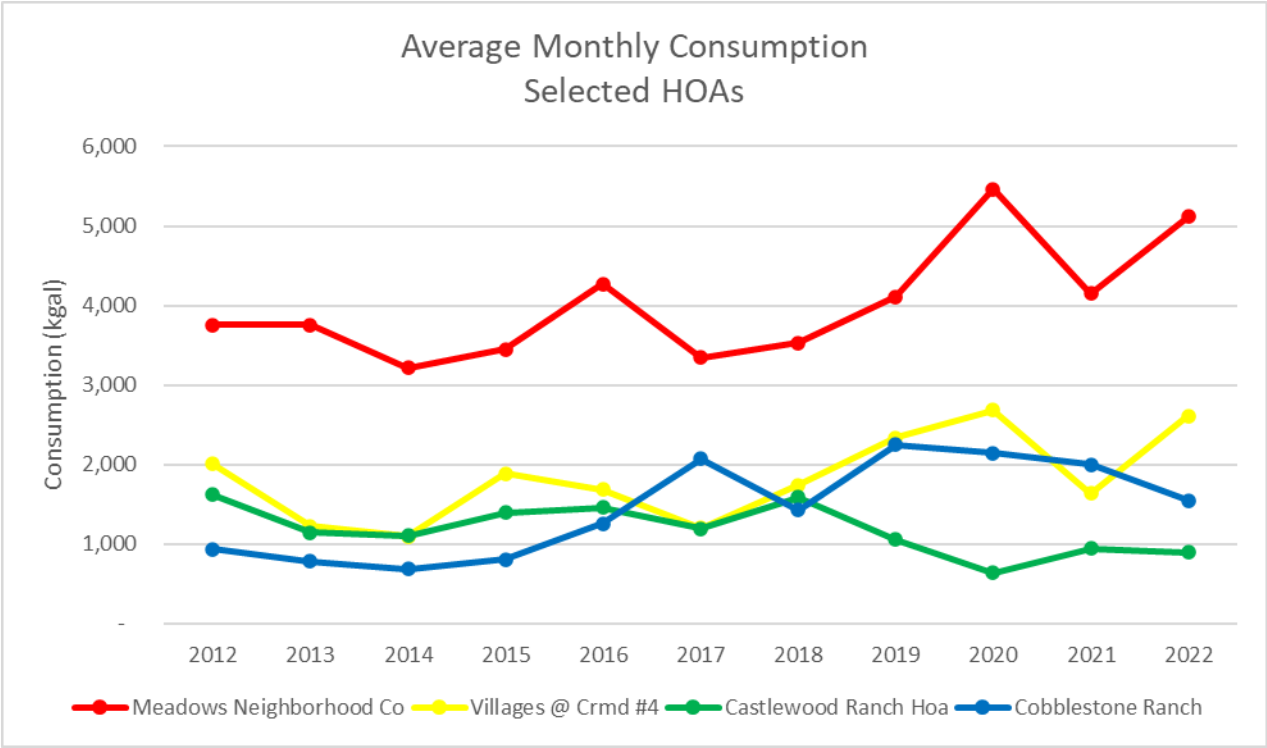


Chart 42 shows the average monthly consumption for all HOAs. Consumption saw increases in 2020 due to several factors including dry weather as well as large growth in both the Meadows and Founders neighborhoods. Chart 43 shows four HOAs that were selected at random out of the 94 in total to show the average monthly consumption patterns for these user types.

CHART 43: SELECTED FOUR HOAS AVERAGE MONTHLY CONSUMPTION



MONTHLY CONSUMPTION BY SUBDIVISION

CHART 44: MEADOWS AVERAGE MONTHLY CONSUMPTION

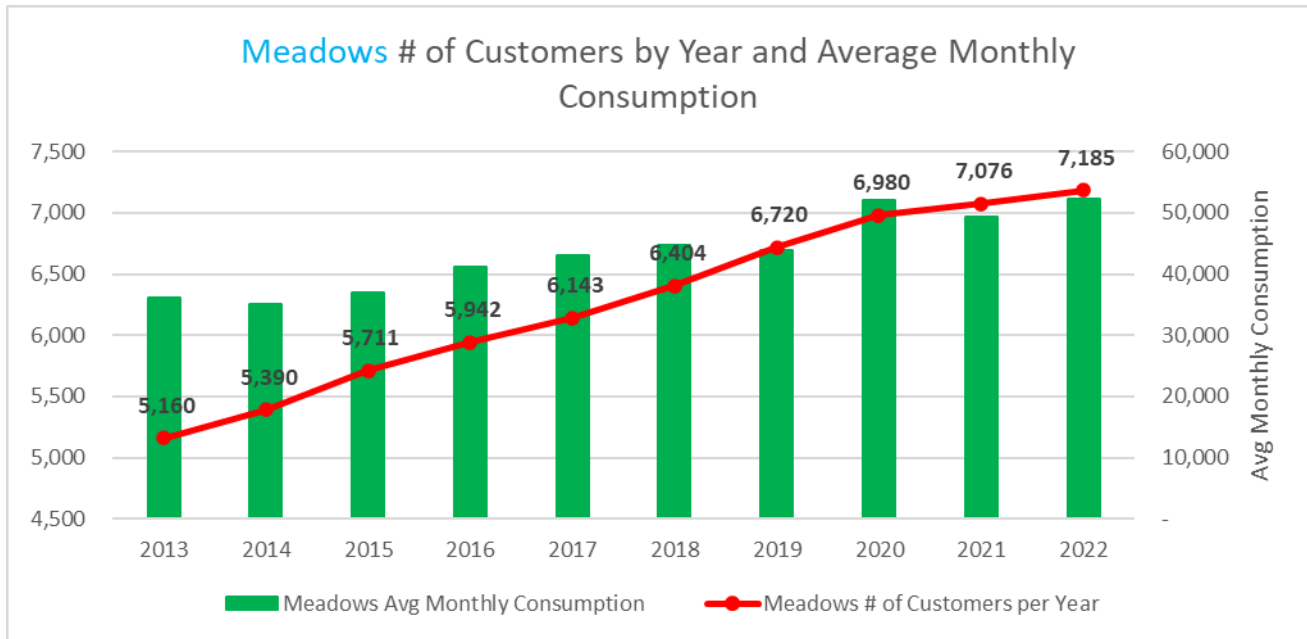


CHART 45: MEADOWS AVERAGE MONTHLY CONSUMPTION BY CUSTOMER

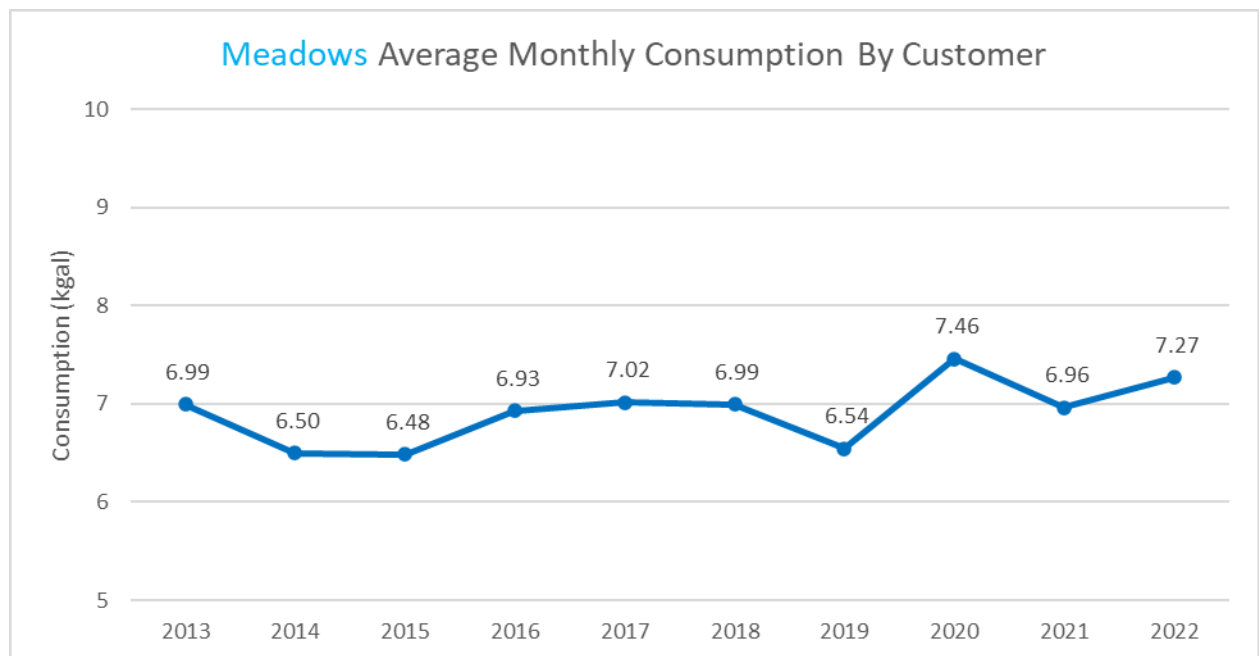


CHART 46: MEADOWS RESIDENTIAL ACCOUNTS BY IRRIGATED AREA

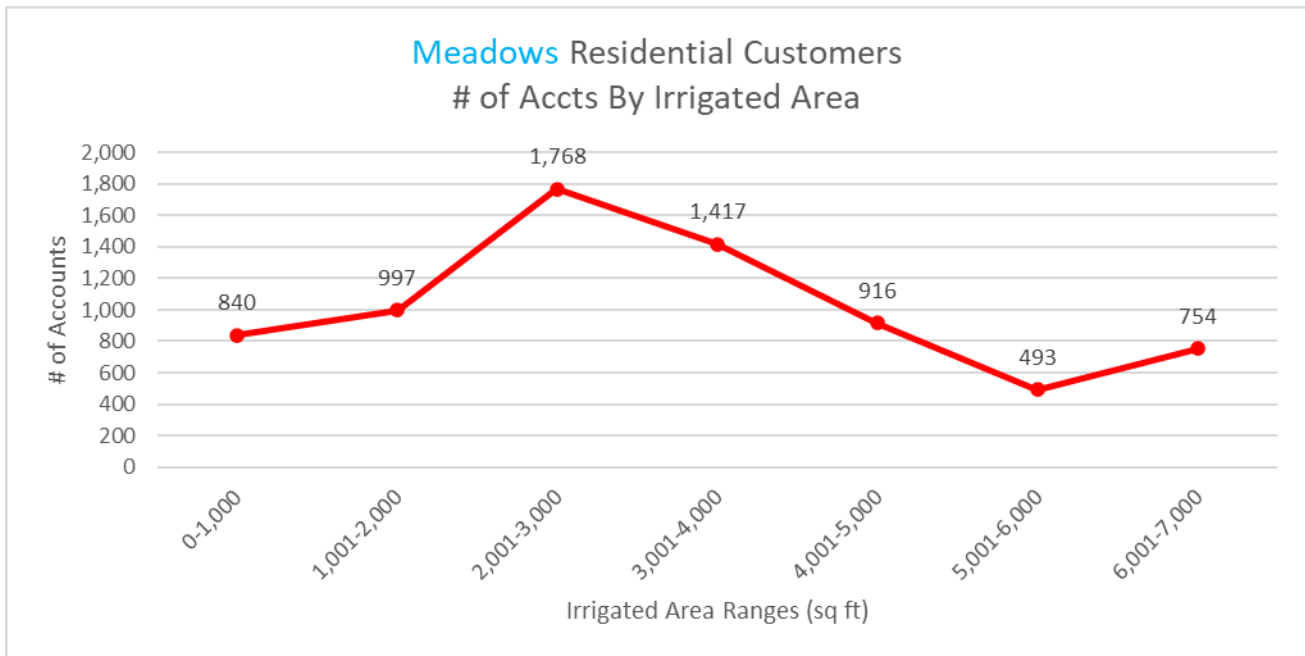


CHART 47: MEADOWS RESIDENTIAL ACCOUNTS IRRIGATED AREA BY CUSTOMER

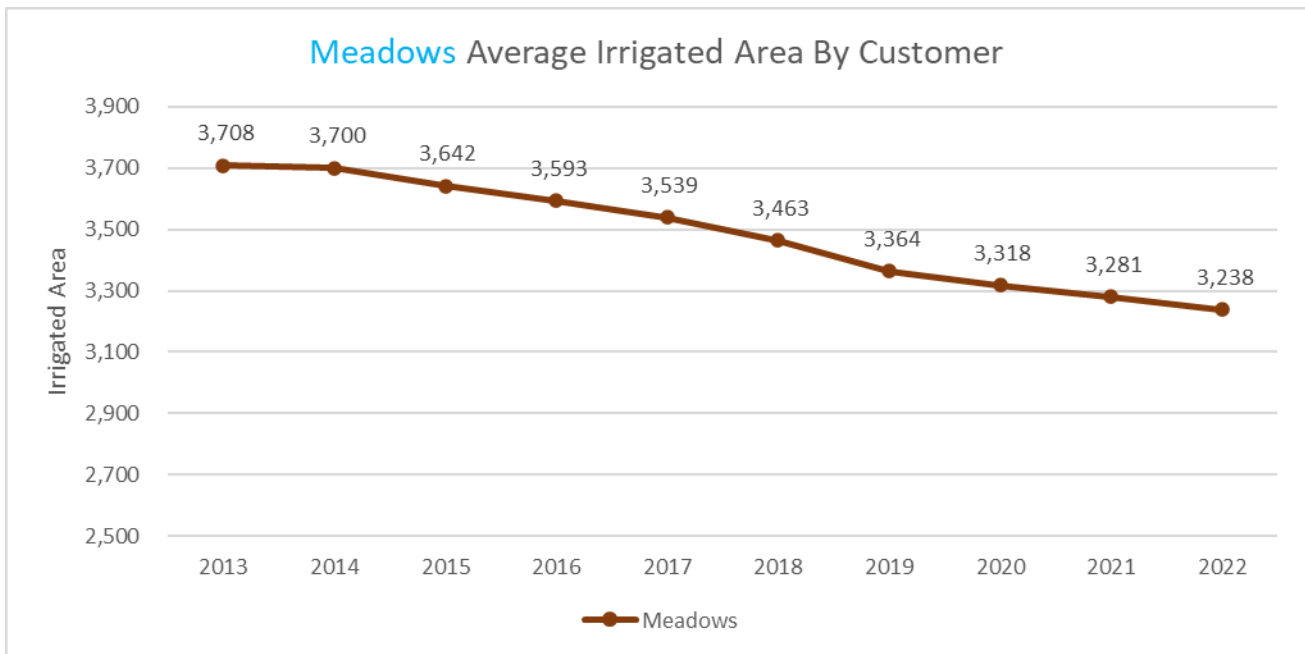


CHART 48: FOUNDERS AVERAGE MONTHLY CONSUMPTION

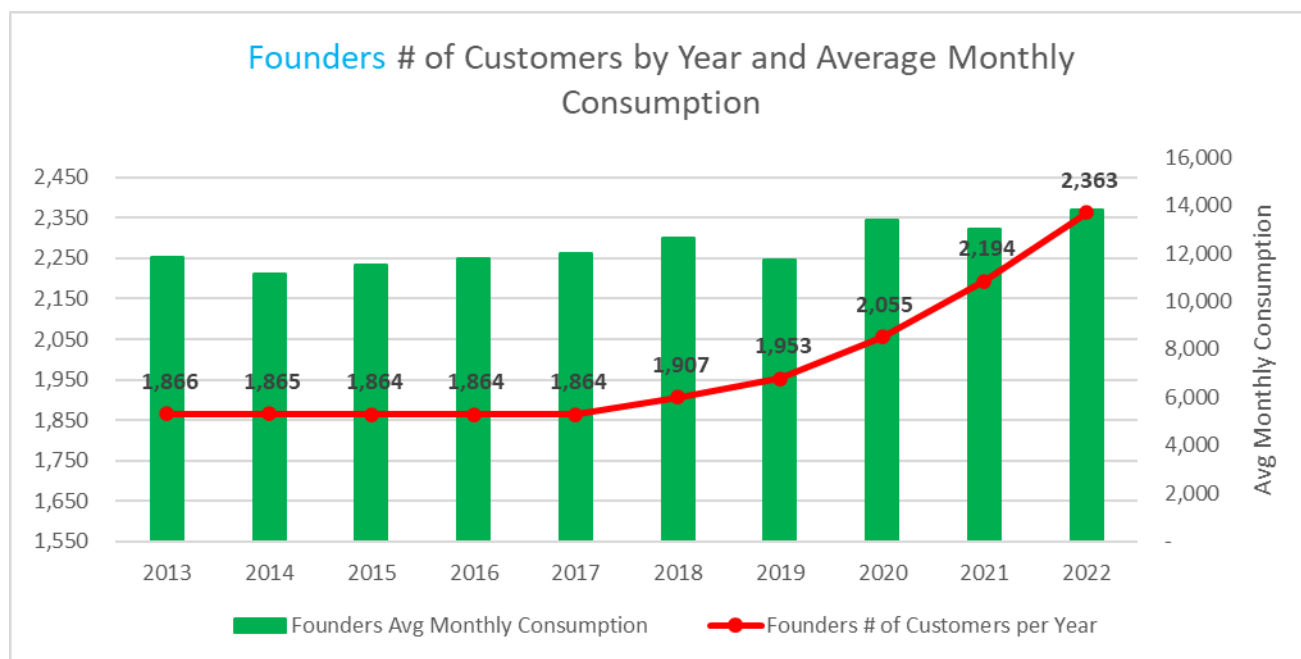


CHART 49: FOUNDERS AVERAGE MONTHLY CONSUMPTION BY CUSTOMER

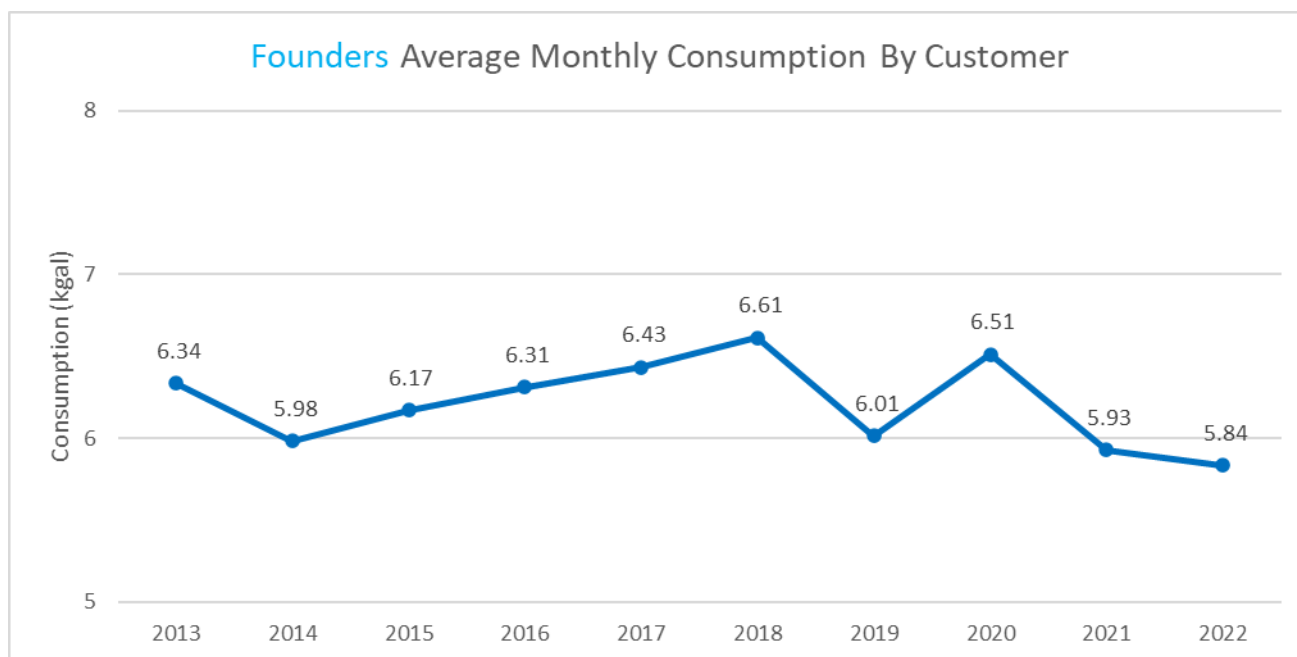
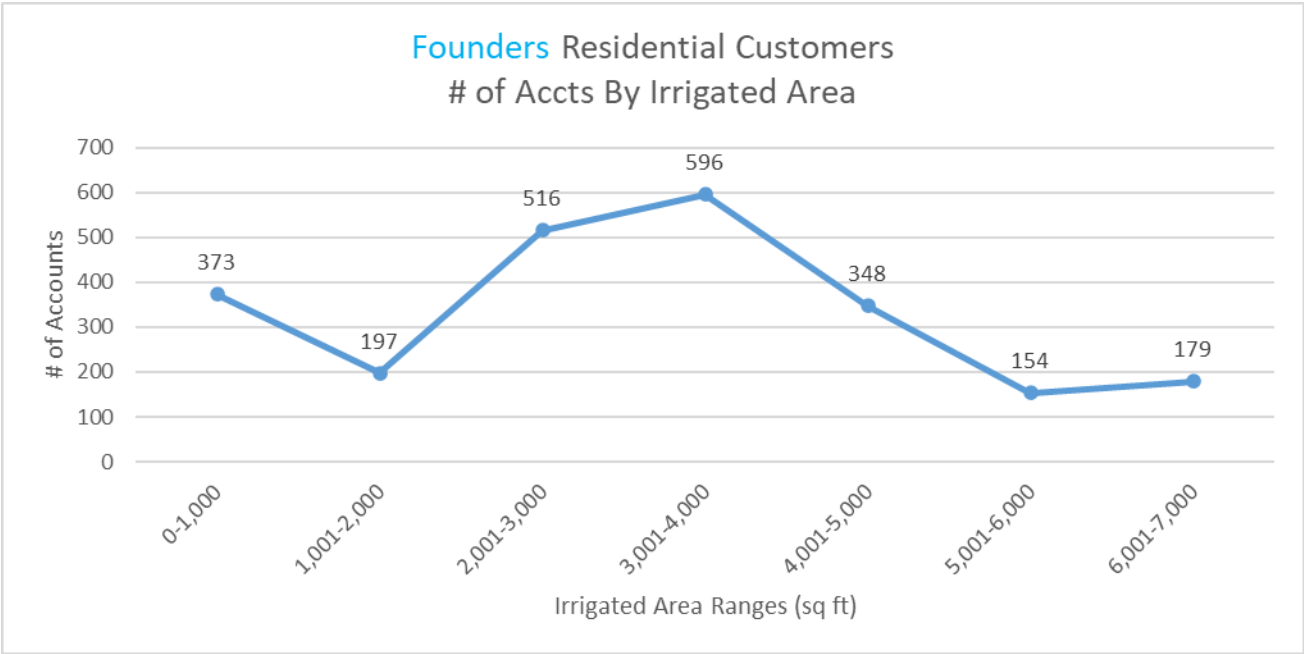
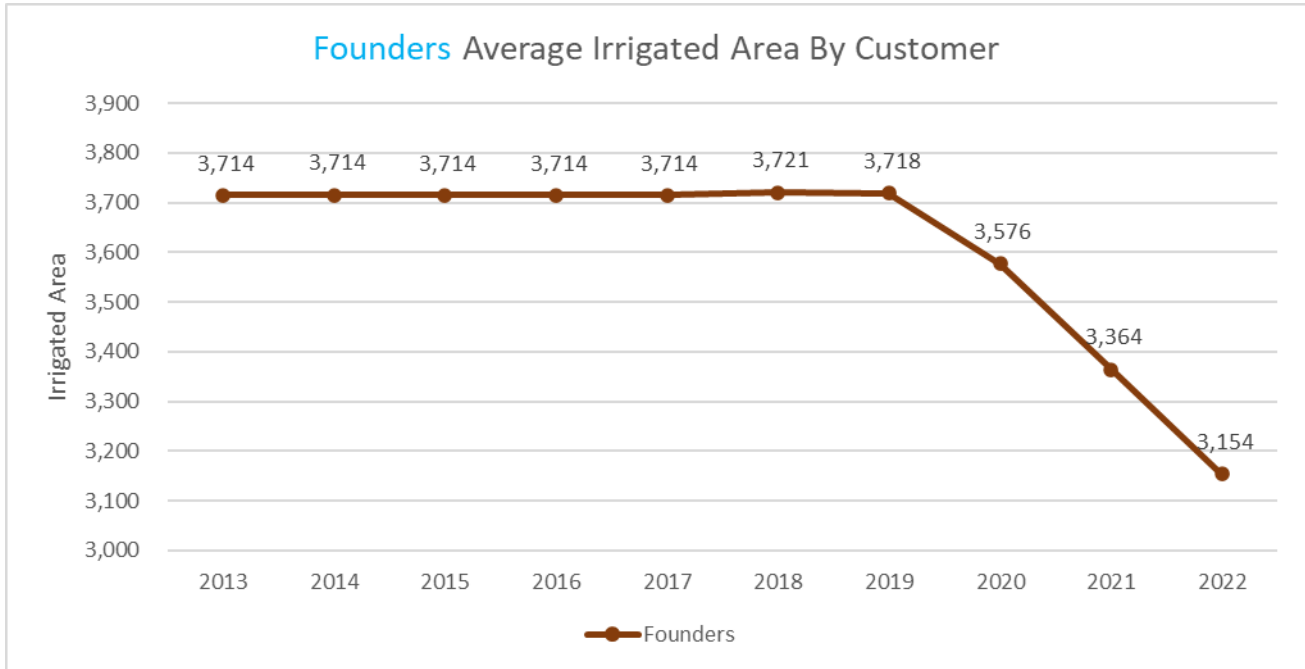


CHART 50: FOUNDERS RESIDENTIAL ACCOUNTS BY IRRIGATED AREA



**CHART 51: FOUNDERS RESIDENTIAL ACCOUNTS
IRRIGATED AREA BY CUSTOMER**



*Drop in average irrigated area beginning in 2020 due to lower irrigated area in new builds

**CHART 52: PLUM CREEK AVERAGE MONTHLY
CONSUMPTION**

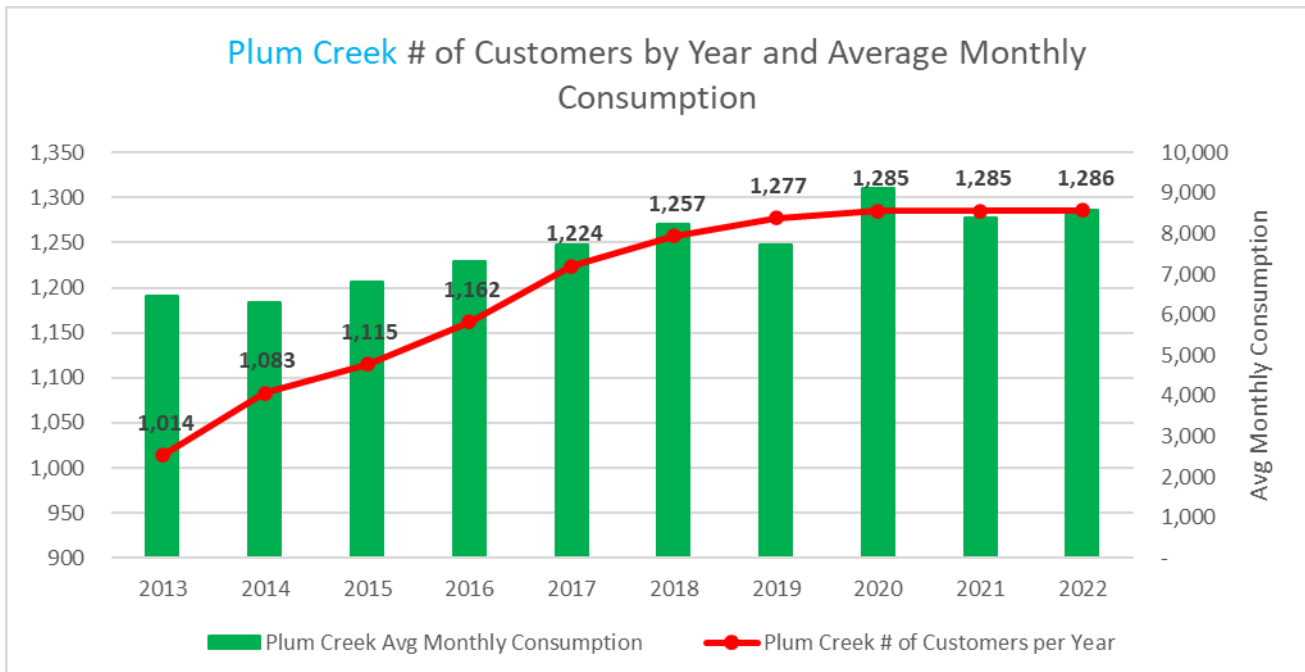


CHART 53: PLUM CREEK AVERAGE MONTHLY CONSUMPTION BY CUSTOMER

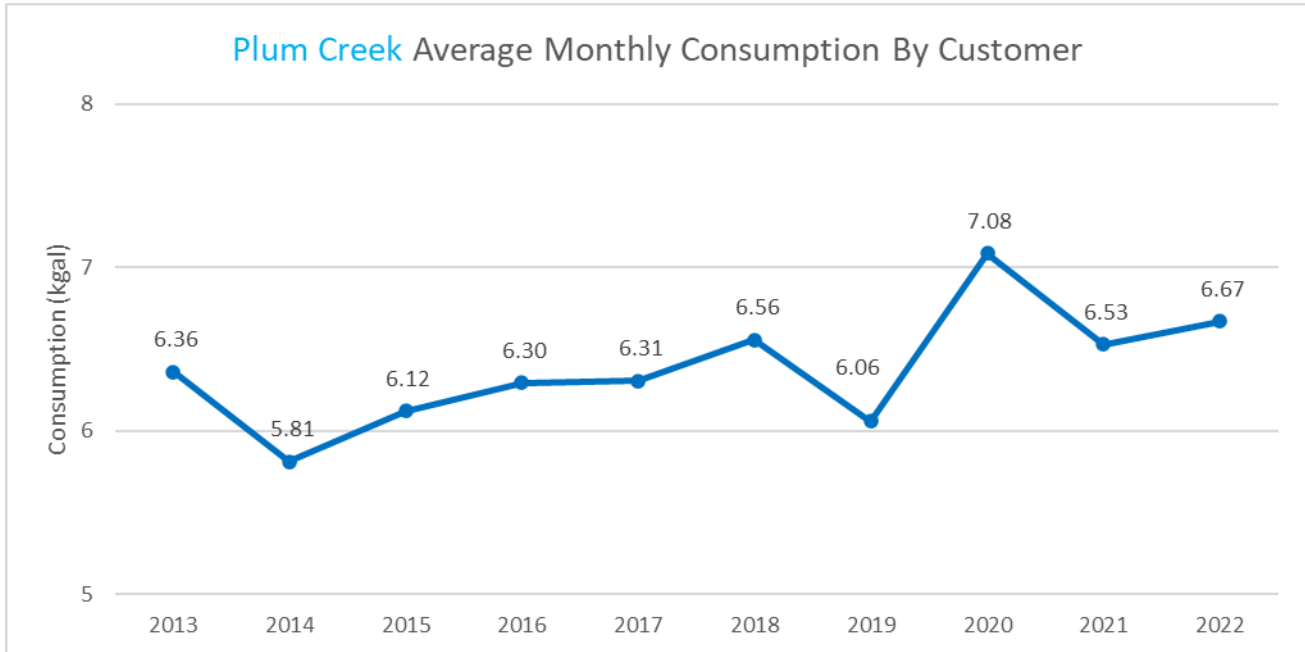
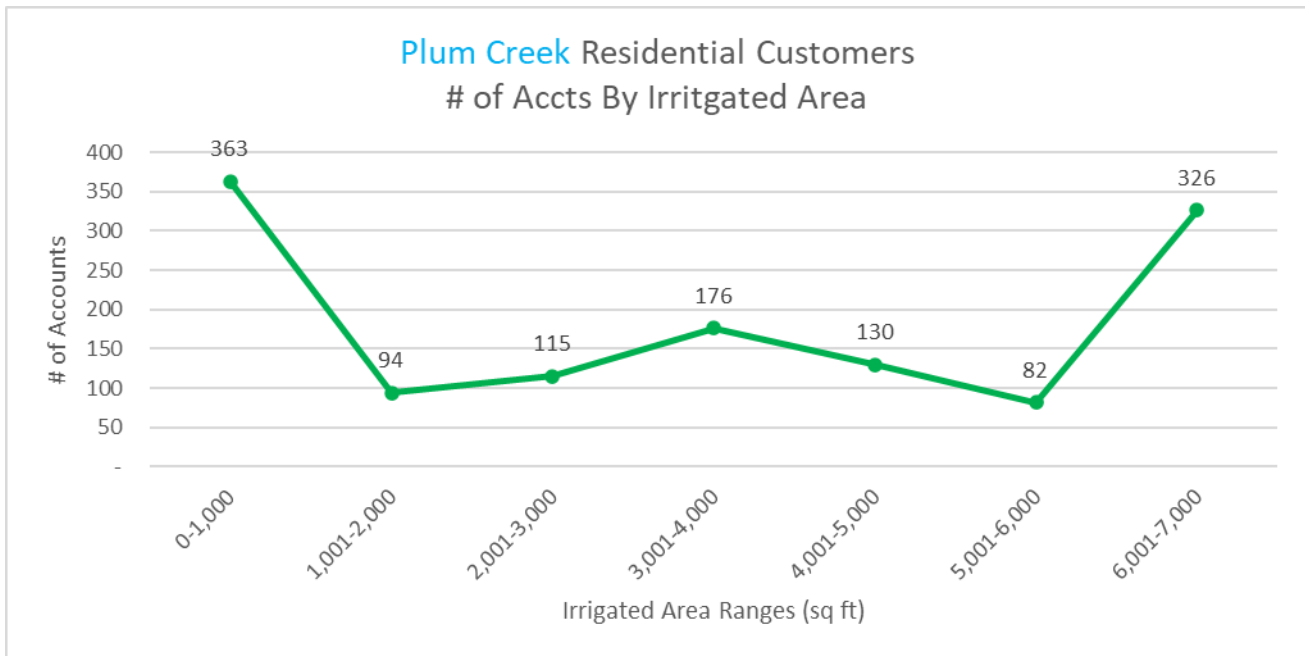
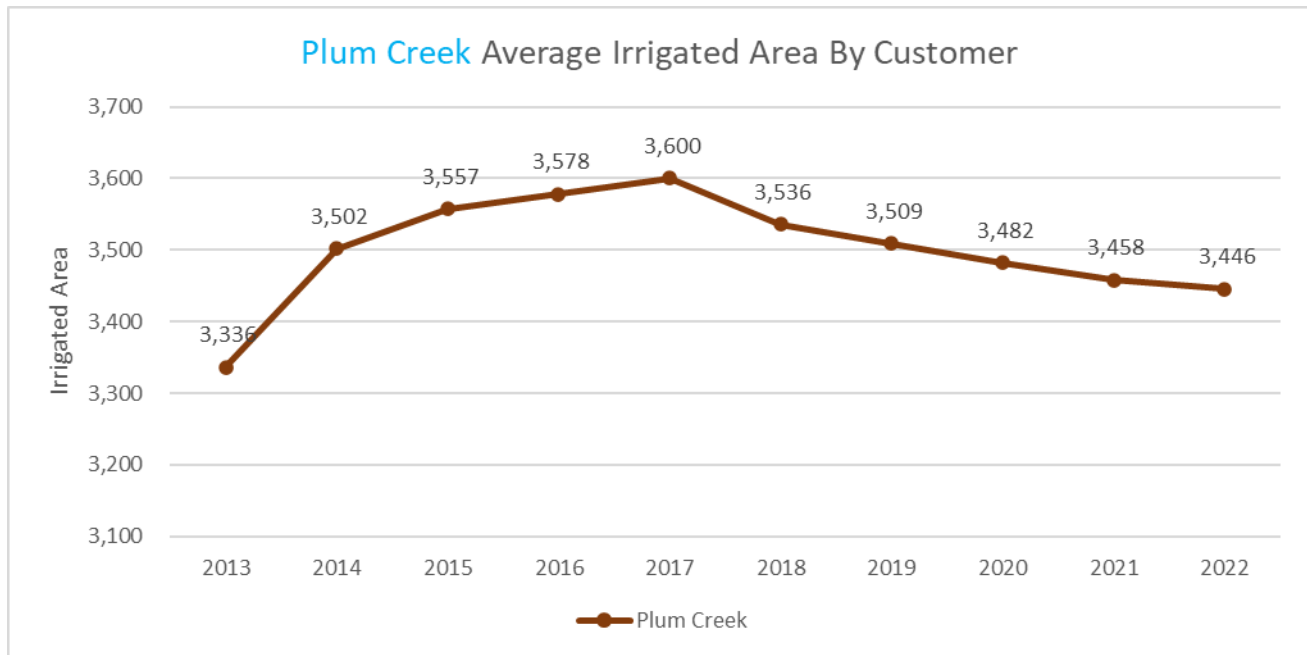


CHART 54: PLUM CREEK RESIDENTIAL ACCOUNTS BY IRRIGATED AREA



**CHART 55: PLUM CREEK RESIDENTIAL ACCOUNTS
IRRIGATED AREA BY CUSTOMER**



BULK WATER ACCOUNTS

CRW has both bulk hydrant accounts and bulk station accounts. CRW tracks the number of accounts and annual usage for these account types each year. The charts below show the bulk hydrant and bulk station accounts and usage from 2013 to 2022. These accounts vary from year-to-year based on the need and demand of the customers using the program.

CHART 56: BULK HYDRANT AND BULK STATION ACCOUNTS

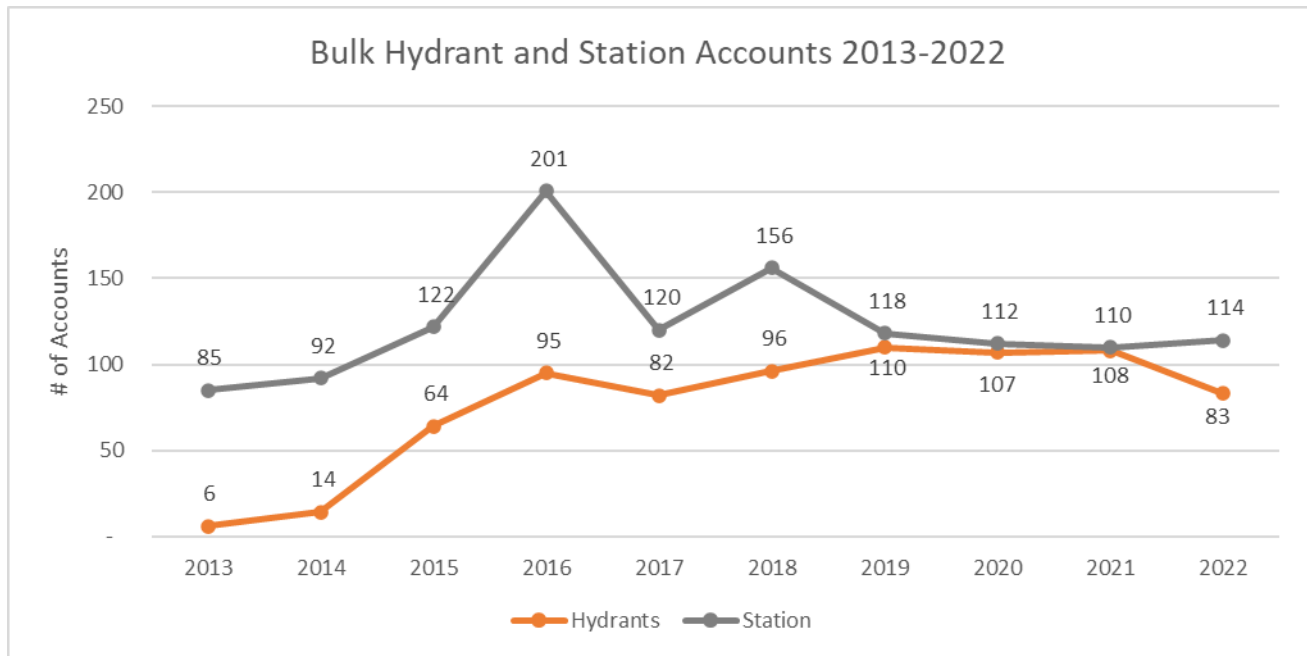


CHART 57: BULK HYDRANT USAGE

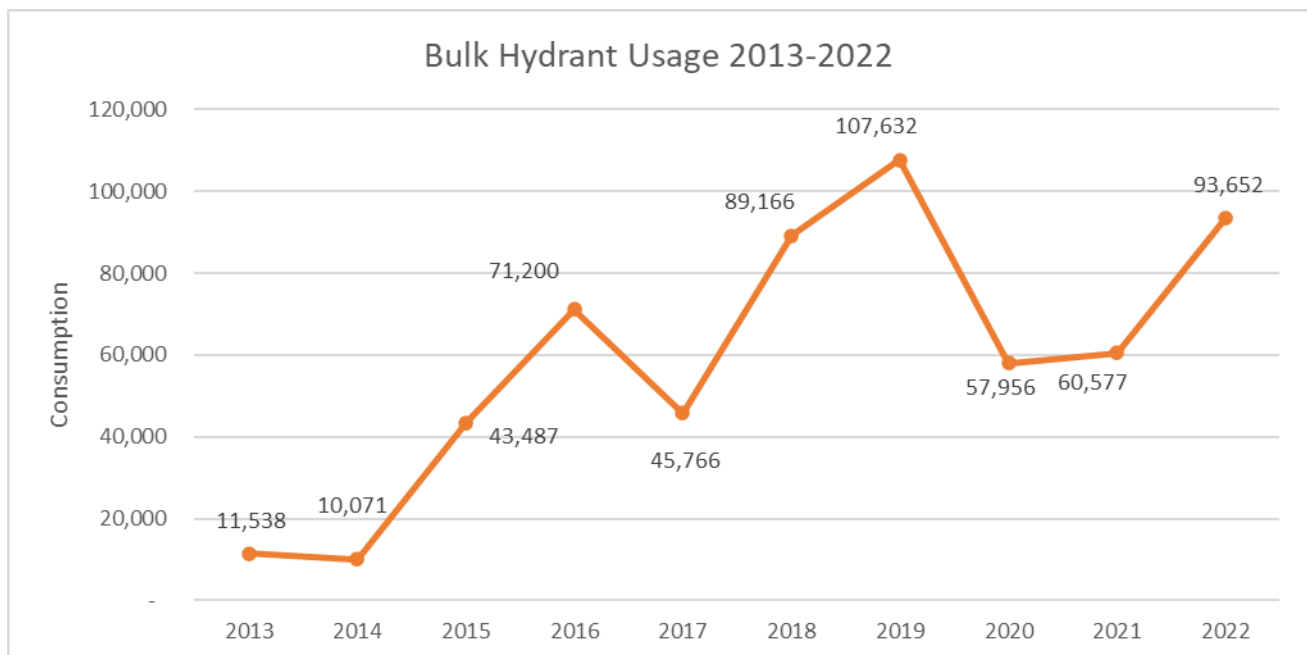
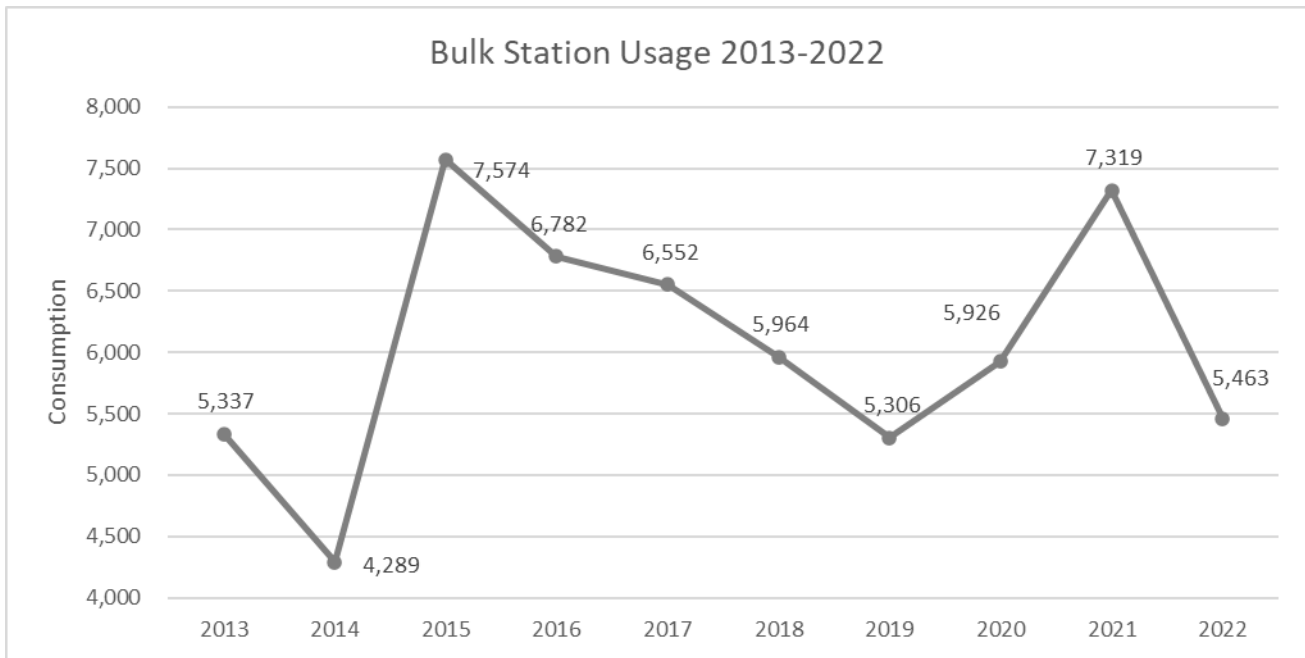


CHART 58: BULK STATION USAGE



TOWN ACCOUNT CONSUMPTION

Chart 59 shows the overall Town consumption from 2013 to 2022. The Parks Department has the largest consumption annually and accounts for 80-90% of total Town consumption. The largest increases in 2022 consumption are from the Festival Park Splash Pad and the Cobblestone Ranch Park expansion. Parks has recently partnered with CRW to reduce consumption in several locations. In 2019 natural turf in Metzler Ranch Park's athletic fields was replaced with synthetic turf. Similarly, natural turf in athletic fields in Paintbrush Park was replaced with synthetic turf at the end of 2022.

CHART 59: TOWN CONSUMPTION

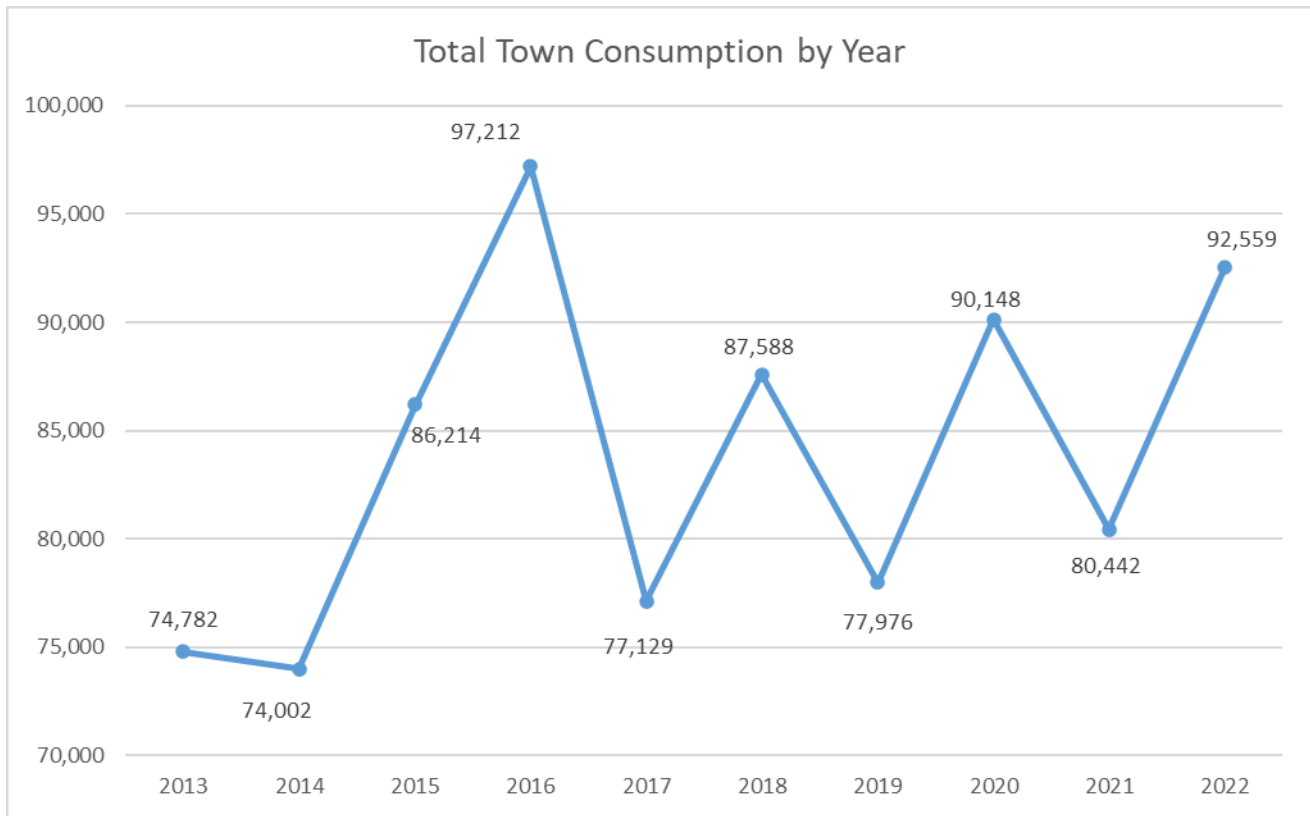


TABLE 10: TOWN CONSUMPTION BY YEAR AND DEPARTMENT (Kgal)

Department	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
CRW	1,112	2,167	2,137	1,523	644	778	862	1,190	2,507	1,518
Facility Maintenance	0	0	0	0	24	25	5	0	0	0
Fire	1,205	1,163	1,273	1,114	858	1,159	1,307	1,280	1,165	1,227
Golf Course	340	340	386	383	324	325	311	251	295	268
Parks	63,332	63,654	74,984	87,026	66,873	76,572	68,900	82,625	71,371	84,345
Police	259	327	340	231	210	265	188	170	177	156
Rec Center	7,188	5,226	5,356	5,617	6,194	5,887	4,625	3,284	3,721	3,765
Service Centers	700	829	898	782	778	690	193	511	406	403
Streets	0	0	0	0	442	434	482	388	356	124
Town Hall	148	155	166	175	171	331	340	117	112	151
Treatment Plants	498	141	674	361	611	1,122	763	332	332	602
Total Consumption	74,782	74,002	86,214	97,212	77,129	87,588	77,976	90,148	80,442	92,559

WASTEWATER ENTERPRISE FUND

NUMBER OF ACCOUNTS BY METER SIZE & CUSTOMER CLASS

Table 11 shows the number of accounts by meter size and customer class using 12 months of billing data (Jan22-Dec22). This shows that 25,140 customers were receiving wastewater service during this capture period. The FY2021 accounts based on 12 months of billing data (Jan21-Dec21) showed that 23,914 accounts were receiving wastewater service. There are 1,226 more accounts in FY2022 than FY2021.

There are 1,177 less customers receiving wastewater service than water service due to irrigation customers who don't have wastewater and a few customers who have their own septic tanks, thus not utilizing Castle Rock Water's wastewater services.

TABLE 11: ACCOUNTS BY METER SIZE & CUSTOMER CLASS (FY2022)

Meter Size	Residential	Multifamily	Commercial	MultiFamily Indoor Use Only	Commercial Indoor Use Only	Total
5/8"	2,435	-	-	4	7	2,446
3/4"	21,505	14	121	101	126	21,867
1"	28	25	69	123	103	348
1.5"	-	55	49	119	91	314
2"	-	15	27	41	53	136
3"	-	2	5	4	14	25
4"	-	1	-	-	1	2
6"	-	-	2	-	-	2
Total	23,968	112	273	392	395	25,140

CHART 60: RESIDENTIAL WASTEWATER ACCOUNTS

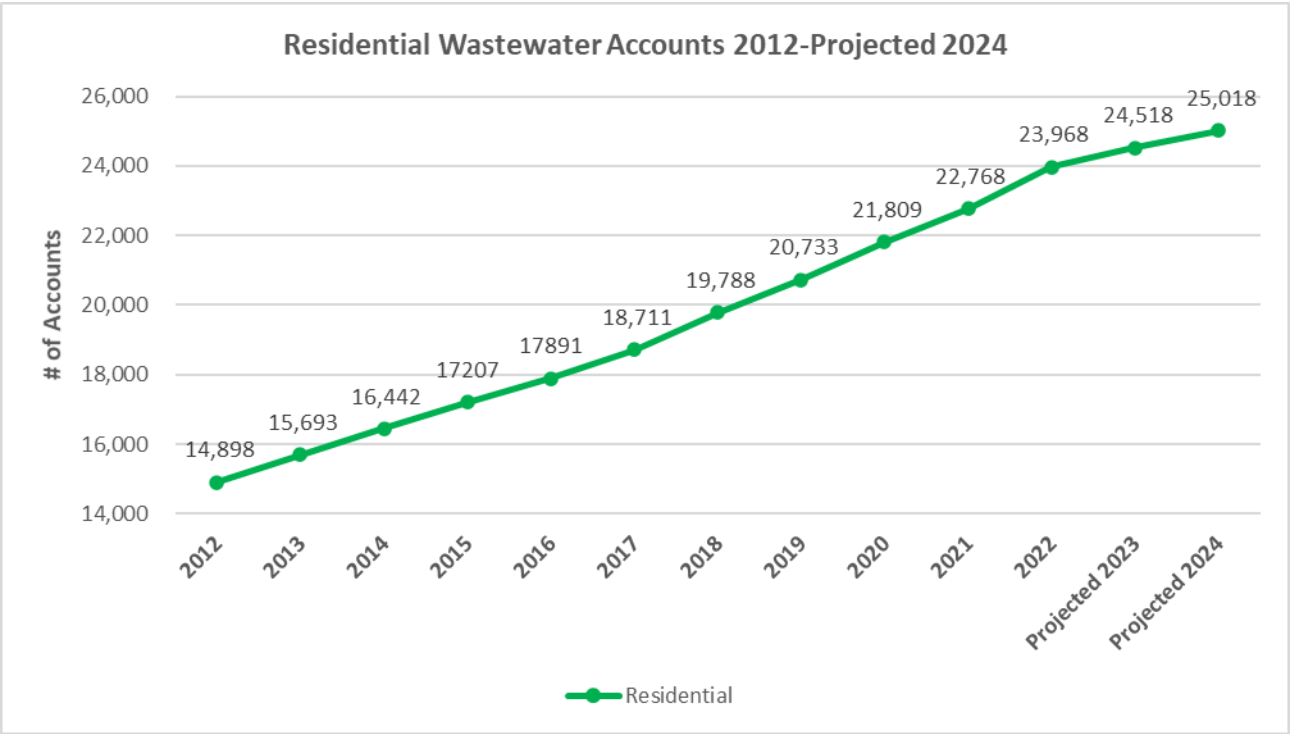
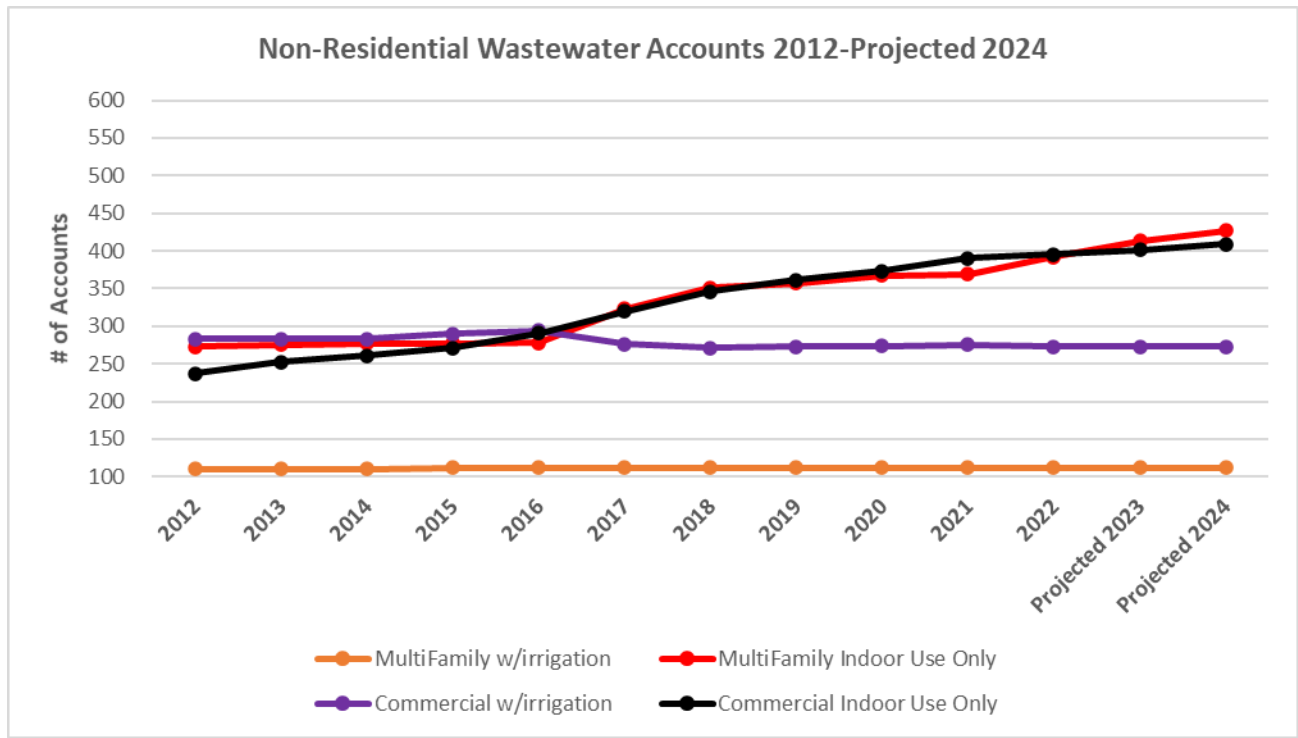


CHART 61: NON-RESIDENTIAL WASTEWATER ACCOUNTS



Castle Rock Water projects FY2024 wastewater accounts by using 2022 billing data plus projected growth for FY2023 and FY2024. The FY2024 wastewater accounts are projected to equal 26,239 (25,018 for residential and 1,221 for non-residential).

2023 Projected New Accounts by Customer Class:

550	Residential (1 SFE)
21	Multi-Family
6	Commercial
577	Total

2024 Projected New Accounts by Customer Class:

500	Residential (1 SFE)
14	Multi-Family
8	Commercial
522	Total

Total growth of 577 accounts is projected for FY2023 and 522 for FY2024 for a total of 1,099 projected for the wastewater fund thru FY2024.

WATER RESOURCES ENTERPRISE FUND

NUMBER OF ACCOUNTS BY METER SIZE & CUSTOMER CLASS

Table 12 shows the number of accounts by meter size and customer class using 12 months of billing data (Jan22-Dec22). This shows 25,983 accounts served by the water resources enterprise fund. The FY2021 accounts based on 12 months of billing data (Jan21-Dec21) showed 24,766 water resources accounts. There are 1,217 more accounts in FY2022 than in FY2021.

TABLE 12: ACCOUNTS BY METER SIZE AND CUSTOMER CLASS (FY2022)

Meter Size	Residential	Multifamily	Commercial	Bulk	Irrigation	MultiFamily Indoor Use Only	Commercial Indoor Use Only	Total
5/8"	2,435	-	-	-	2	4	7	2,448
3/4"	21,661	14	124	83	214	101	133	22,330
1"	29	25	71	-	112	123	107	467
1.5"	-	55	51	-	160	119	91	476
2"	-	15	27	-	87	41	54	224
3"	-	2	5	-	6	4	15	32
4"	-	1	-	-	2	-	1	4
6"	-	-	2	-	-	-	-	2
Total	24,125	112	280	83	583	392	408	25,983

CHART 62: RESIDENTIAL WATER RESOURCES ACCOUNTS

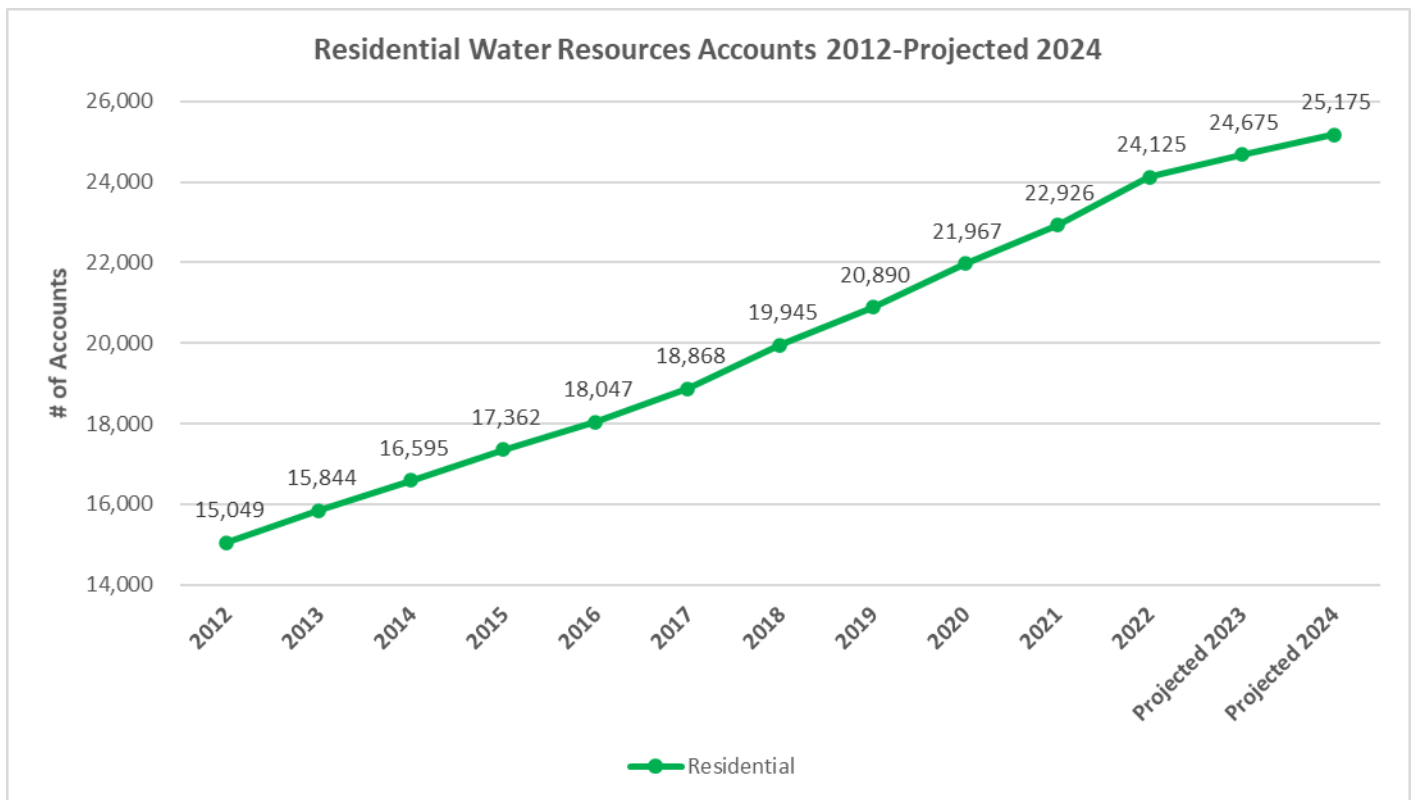
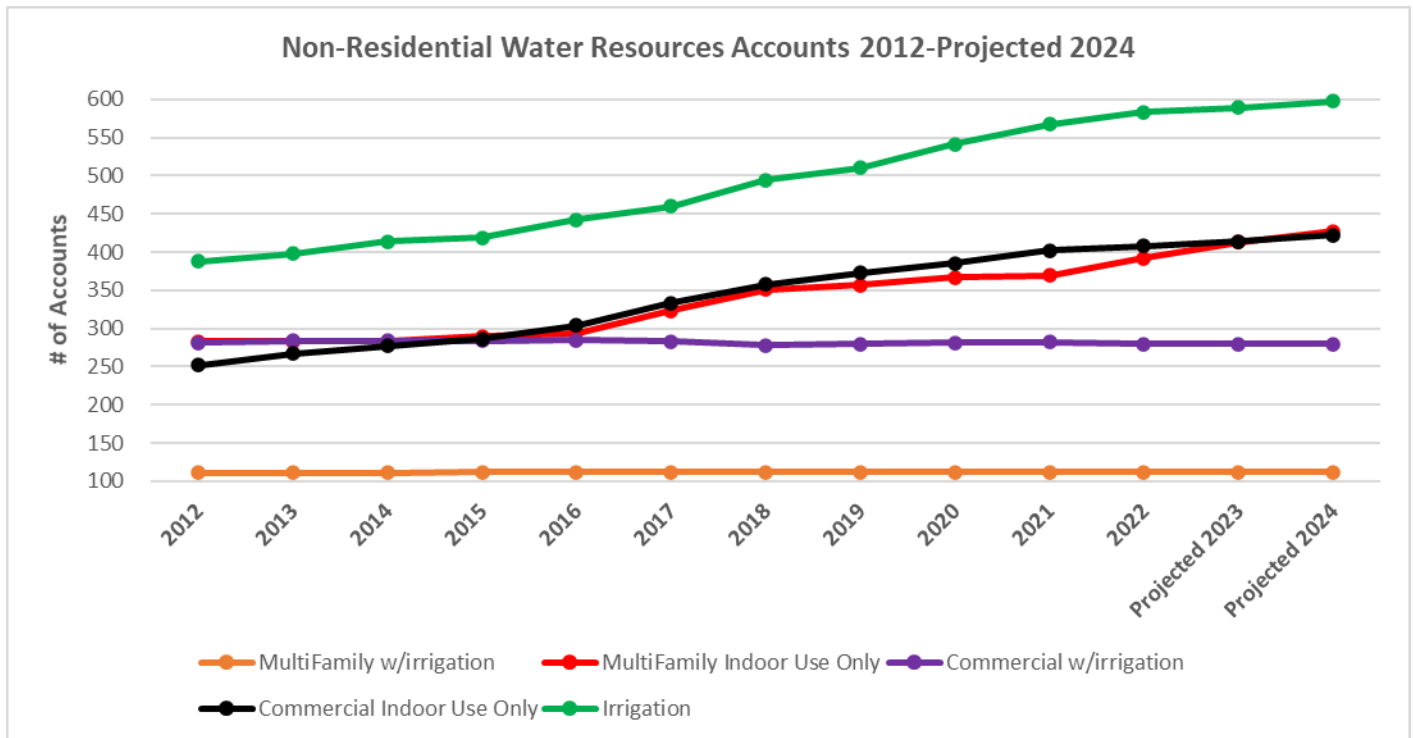


CHART 63: NON-RESIDENTIAL WATER RESOURCES ACCOUNTS



Castle Rock Water projects FY2024 water resources accounts by using 2022 billing data plus projected growth for FY2023 and FY2024. The FY2024 water resources accounts are projected to equal 27,013 (25,175 for residential and 1,838 for non-residential).

2023 Projected New Accounts by Customer Class:

550	Residential (1 SFE)
21	Multi-Family
6	Commercial
6	Irrigation
583	Total

2024 Projected New Accounts by Customer Class:

500	Residential (1 SFE)
14	Multi-Family
8	Commercial
8	Irrigation
530	Total

Total growth of 583 accounts is projected for FY2023 and 530 for FY2024 for a total of 1,113 projected for the water resources fund thru FY2024.

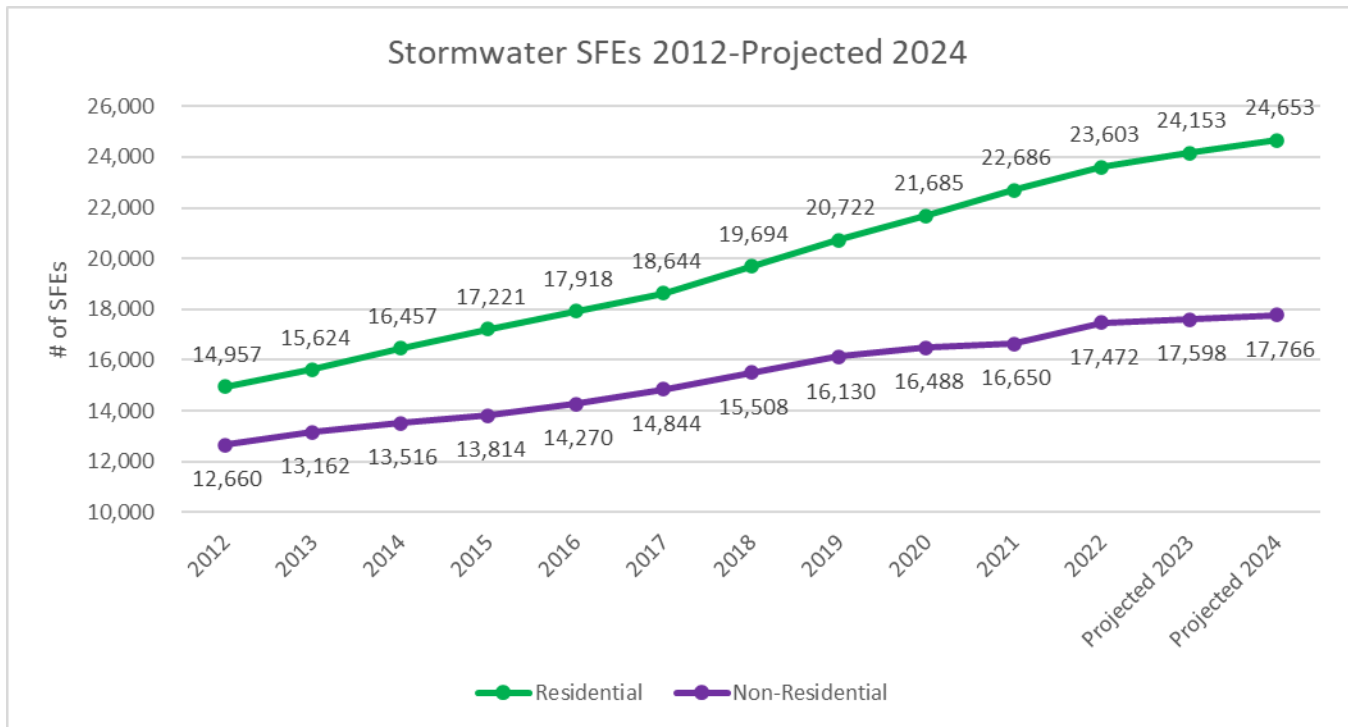
STORMWATER ENTERPRISE FUND

Table 13 shows stormwater average monthly SFEs based on 12 months of billing data (Jan22-Dec22). This shows that 41,075 SFEs were receiving stormwater services during this capture period. The FY2021 billing data (Jan21-Dec21) showed 39,336 SFEs receiving stormwater services. There are 1,739 more SFEs in FY2022 than FY2021.

TABLE 13: STORMWATER SFES (JAN 22-DEC 22)

Total Monthly SFEs	
Residential	23,603
Non-Residential	17,472
Stormwater SFE's	41,075

CHART 64: STORMWATER SFES



Castle Rock Water shows FY2024 projected stormwater SFES based on 12 months of billing data (Jan22-Dec22) plus projected growth for FY2023 and FY2024. The FY2024 stormwater SFES are projected to equal 42,419 (24,653 for residential and 17,766 for non-residential).

2023 Projected New (SFES)

550 Residential
 22 Detached in Cherry Creek Basin
 528 Detached in Plum Creek Basin
 126 Commercial in the Plum Creek Basin
 676 Total

2024 Projected New (SFES)

500 Residential
 20 Detached in Cherry Creek Basin
 480 Detached in Plum Creek Basin
 168 Commercial in the Plum Creek Basin
 668 Total

Total growth projected for the stormwater fund is 676 SFES in FY2023 and 668 SFES for FY2024.