



WATER PRODUCTION AND SALES REPORT FOR JULY 2023 THROUGH JUNE 2024

Summary of production sources, customer sales, rainfall, long and short-term storage and activities and initiatives for the Watermaster year of July 2023 through June 2024.

Production

The Kinneloa Irrigation District (KID) produced 559.3 acre-feet to the system from our wells and tunnels for the year of 2023-2024, July through June, as shown in Figure 1. We did not deliver any water to Pasadena Water and Power during this period, all production was to serve our retail customers. Water production for our retail customers and system use was 2.1% more than the 547.6 acre-feet produced in the 2022-2023 water year. The gross system production value for 2023-2024 was 75% of the 30-year historical average.

Figure 1 includes data from water years 1994-1995 through 2023-2024 for all production sources as well as for surface water and groundwater diverted from our system for spreading credits. Spreading credits are added to our available extraction rights in the subsequent water year for which the spreading occurs. Figure 2 shows the proportion for total production for each year broken down by KID wells and tunnels. Gross tunnel production (to system and spreading) is dependent on rainfall and groundwater recharge from precipitation and has ranged from a high of 1033.4 acre-feet in 2004-2005 to a low of 194.5 acre-feet in 2017-2018. Tunnel production to the system is dependent on system operational needs, ability to deliver wholesale water to Pasadena Water and Power and the quality of tunnel water. Gross tunnel production (including production for spreading) for 2023-2024 was 661.4 acre-feet which is significantly higher than the 30-year average of 453.2 acre-feet, this is due to two consecutive years of higher-than-average rainfall. Tunnel production to the system in 2023-2024 was 176.4 acre-feet, this is significantly lower than the 30-year average of 230.7 acre-feet per year. The reason that total tunnel production was significantly above the historical average but delivery to the system was significantly lower than the historical average, is due to the expiration of the District's fluoride variance

in December 2023 which required tunnels to be diverted to spreading that otherwise would have delivered to the system. Figure 3 is a circle chart showing the percentage of total production by source for the water year ending June 2024. This most recent year our wells produced 68% of the water and the tunnels produced 32% of the system water.

Sales

Total sales to retail customers were 474.8 acre-feet as shown in Figure 4, the lowest sales figure in the 30-year history. Previous water year sales of 493.2 acre-feet held the record for lowest recorded water sales until this most recent water year. The average monthly sales of water during the year from 1994-1995 to 2023-2024 are shown in Figure 5. Peak sales are usually in the July through September period and minimum sales usually occur in December through March period. Weather conditions in a year can cause these periods to shift and can drastically affect the total sales for the year.

Water Use Efficiency

The KID has extensively promoted measures to increase water use efficiency over the past seventeen years and has participated in rebate programs to provide incentives to our customers to reduce water usage. Recent water year usage has been significantly lower than average, due to two consecutive years of higher-than-average rainfall. Given that customer consumption was cut back significantly due to that rainfall, no meaningful evaluation of customer conservation efforts can be made for the recent two water years. Nevertheless, the data indicates a meaningful decrease in usage as compared to the base year of 2006-2007 when water use efficiency became a mandate from the State and a priority for the KID. The KID will continue to promote water use efficiency in compliance with state and local regulations and the District's Rules and Regulations.

Non-Revenue Water Use and Water Loss

The difference between the water produced and water sold and used for system purposes (which is the water loss for the system) was 84.5 acre-feet or 15.1% as shown in Figure 1. The loss is attributed to system leaks, main flushing for water quality purposes, fire flow tests, unmetered water used for firefighting and various other purposes, normal operational procedures at KID facilities and water meter inaccuracies. This loss is more than the 30-year average of 84.0 acre-feet or approximately 10.1%. A water loss of less than 10% is excellent by industry standards. Although we do not have a means to track non-metered water usage, during the 2023-2024 year there were several moderate system leaks and water was lost during maintenance of our tanks and reservoirs.

Rainfall

Rainfall for 2023-2024 was 33.8 inches, as recorded by Los Angeles County Department of Public Works at the Eaton Dam Wash, as shown in Figures 1 and Figure 6 as compared to 48.6 inches in the previous year and well above the 30-year average of 21.7 inches.

Long-Term Storage

The Raymond Basin Management Board (RBMB) established a long-term storage program to cover situations such as prolonged drought or unusually high demand that might lead to over pumping of our water rights in the current year. The KID activated its long-term storage account for the first time in 2004-2005 by adding 327 acre-feet of surplus water as shown in Figure 1. Due to declining water levels in the Raymond Basin, the RBMB voted to suspend the program and freeze the total at the end of the 2008-2009 year. Long Term Storage accounts are reduced 1% annually to account for basin level water loss. In the subsequent years KID was able to add to Long-Term Storage only enough to offset the 1% loss. That practice was ended by the RBMB at the end of the 2019 water year. The current Long-Term Storage policy is that no additions may be made, no pumping may be produced from the account, and the account value is reduced by 1% annually. At the end of the 2024 water year, KID has 743.8 acre-feet in its Long-Term Storage account.

Short-Term Storage

The RBMB established a short-term storage program in 2016 for the Pasadena subarea for agencies with excess pumping rights at water year end of less than 300 acre-feet to allow operational flexibility and allow for better planning and utilization of leases, management of decreed rights and maximize beneficial use of spreading credits. The maximum amount of water is limited to 300 acre-feet and is added to the production right at the beginning of the following year. At the end of the 2023-2024 water year, the KID had 347.0 acre-feet of surplus production rights. For the 2024-2025 water year KID will start with the maximum allowed 51.6 acre-feet designated as Carryover Right (maximum 10% of 1955 Decreed Rights) and the maximum allowed 248.4 acre-feet in its Short-Term Storage Account.

Spreading Operations

In the early 1970s, new drinking water quality regulations rendered the direct use of most surface water supplies in the Raymond Basin unacceptable for use as sources of potable water without additional treatment. As a result, the Raymond Basin Advisory Board developed a methodology by which parties with surface “diversion rights” could divert these surface water to spreading basins or natural stream channels leading to spreading basins and receive additional pumping credits (recapture credits) in lieu of constructing treatment facilities. These recapture credits are in addition to adjudicated groundwater

extraction rights. The original spreading methodology was established in 1973 and revised in 1994 which is the standard in practice today. KID has certain surface water rights in and often diverts groundwater from its tunnels sources to spreading. The general methodology is that KID will receive a recapture credit of 80% of any water spread in District owned facilities or property. For District water which is diverted to a Los Angeles County Public Works Department facility for percolation into the ground, the District will receive a recapture credit of 80% of the water delivered to the spreading basin that is not discharged from the spreading basin due to overflow.

Recapture or “spreading” credits are a critical portion of KID’s supply portfolio. Figure 7 shows the recapture credit value for each watermaster year ending 2005 through 2024. Supplementing net decreed pumping rights with recapture credits is necessary to have the supply available to meet customer demand. The expiration of the District’s fluoride variance in December 2023 required several tunnel sources that otherwise would have been produced directly into the system, to instead be diverted for spreading. If these tunnel sources become unavailable for direct production into the system in the future, maintaining the tunnels and their distribution system for spreading operations is a critical function.

Production Issues

Figure 1 shows that the Wilcox Well produced 50.8 acre-feet of water in 2023-2024 as compared with 272.4 acre-feet in the peak year of 1999-2000. The level in the Raymond Basin aquifer at this facility has caused a 50% reduction in the available operational flow rate because the output from this well needs to be restricted to prevent entrainment of air and damage to the pump. As the production volume of the Wilcox Well is approximately 30% of the production volume at the K-3 Well, the District has used the Wilcox Well only during the summer season for the past few water years to avoid overuse of the K-3 Well.

Water levels in the Raymond Basin at both the K-3 and the Wilcox Well sites have risen substantially in the most recent two water years. The water level at the Wilcox Well achieved its modern lowest level in 2018 but has steadily risen since then, sharply so in the 2022-2024 water years period. The recovery in the groundwater elevation is due to a combination of increased rainfall, reduced pumping by Raymond Basin members and a focus of public agencies to reduce impermeable surfaces that direct surface water away from groundwater recharge and to the storm drainage system.

Although the gross production last year from the KID’s tunnels was 145% of the 30-year average, much of that water was unable to be used in the system and was diverted to spreading. Tunnel water is not counted in our adjudicated pumping allowance and is our only source of low-cost supplemental water. Tunnel water delivers at multiple points in the system and particularly at higher elevation reservoirs, delivery of tunnel water instead of pumped groundwater avoids significant financial and environmental costs associated with

the pumping operations. Continued investment in treating our tunnel sources so they may be diverted directly to system use is a high priority, as is maintaining the tunnel delivery system through resilience measures.

Supply Issues

The court-ordered adjudication of pumping rights in the Raymond Basin no longer matches the natural replenishment rate. The voluntary 30% pumping reduction in the Pasadena subarea has helped to reduce the rate of decline in the basin level, but the RBMB has not yet developed an external replenishment source. Therefore, additional water resources, conservation measures and reduced pumping are being considered to stabilize the basin level.

The KID is the only water agency in the area that does not purchase imported supplemental water from the Metropolitan Water District of Southern California (MWD) or through its wholesale distributor, Foothill Municipal Water District (FMWD). The KID has not needed to purchase imported water because our local tunnel water, adjudicated pumping rights, spreading credits and available leases have been enough to meet customer demand. However, our independence from imported water is not assured unless we are able to maximize production of tunnel water to the system, maximize spreading of tunnel water not produced direct to the system, maintain the functionality of our groundwater pumping system and continue to lease or purchase unused pumping rights from other water agencies in the area.

We also continue to rely on our interconnections with the City of Pasadena for a water supply during system emergencies or for planned facility maintenance purposes, but that water must be returned to Pasadena as soon as possible after an event or purchased at the retail rate. The KID continues to work with FMWD to develop a long-term plan for supplemental water in case our ground water pumping rights are permanently reduced and/or leased or purchased pumping rights are no longer available. Since there is no pipeline from MWD or FMWD to the KID, a new connection would be needed, or an arrangement made with an adjacent water agency to wheel FMWD/MWD water through its pipelines to the KID. FMWD is the only source of supplemental water currently available to the KID.

Figure 1

Data for Watermaster Year (July through June) 1994-1995 through 2010-2011

*Production in Acre-Feet Source	WY End Jun-95	WY End Jun-96	WY End Jun-97	WY End Jun-98	WY End Jun-99	WY End Jun-00	WY End Jun-01	WY End Jun-02	WY End Jun-03	WY End Jun-04	WY End Jun-05	WY End Jun-06	WY End Jun-07	WY End Jun-08	WY End Jun-09	WY End Jun-10	WY End Jun-11
Wilcox Well	93.2	119.6	170.2	165.4	209.6	272.4	216.9	203.7	213.7	148.9	60.2	37.2	70.2	5.6	5.6	7.3	7.1
K-3 Well	285.3	238.3	263.8	330.9	567.3	562.5	425.2	514.3	457.1	551.0	319.3	423.5	860.1	543.9	611.2	610.6	580.2
Total Well	378.5	357.9	434.0	496.3	776.9	834.9	642.1	718.0	670.8	699.9	379.5	460.7	930.3	549.5	616.7	617.8	587.3
Hi-Low Tunnel	71.3	217.0	177.2	146.6	143.1	132.6	111.1	86.0	57.6	59.8	125.6	171.9	131.0	107.6	89.2	80.1	98.8
House Tunnel	37.8	43.9	35.4	33.1	41.1	31.5	26.2	21.5	16.7	12.7	12.6	44.9	26.5	20.6	12.8	13.8	14.5
Eucalyptus Tunnel	56.5	64.9	62.6	58.7	62.4	54.0	44.3	38.6	29.5	41.5	50.0	50.4	44.6	43.2	39.1	37.4	39.8
Delores Tunnel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	126.5	223.3	83.6	63.7	40.2	44.8	98.5
Far Mesa Tunnel	73.6	69.1	67.7	68.3	78.9	74.1	56.7	52.0	47.7	45.6	68.2	39.6	13.1	48.6	42.9	38.9	41.2
Total Tunnel	239.2	394.9	342.9	306.7	325.5	292.2	238.3	198.1	151.5	162.0	382.9	530.1	298.8	283.7	224.2	215.0	292.8
Total Production to System	617.7	752.8	776.9	803.0	1102.4	1127.1	880.4	916.1	822.3	861.9	762.5	990.8	1229.0	833.2	840.9	832.9	880.0
Deliveries to Pasadena	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.5	0.0	0.0	18.8	0.0	0.0	1.5	0.0	0.0
Deliveries to Pasadena	0.0	0.0	0.0	-139.5	-325.8	-222.9	-64.1	-87.3	-61.7	0.0	0.0	-160.6	-321.8	0.0	-42.4	-105.1	-217.4
Net Import/(Export)	0.0	0.0	0.0	-139.5	-325.8	-222.9	-64.1	-87.3	-30.2	0.0	0.0	-141.8	-321.8	0.0	-40.9	-105.1	-217.4
Net Production for Retail	617.7	752.8	776.9	663.5	776.6	904.2	816.3	828.8	792.1	861.9	762.5	849.0	907.2	833.2	800.0	727.8	662.7
Diversion to Spreading in Acre-Feet																	
Source	Jun-95	Jun-96	Jun-97	Jun-98	Jun-99	Jun-00	Jun-01	Jun-02	Jun-03	Jun-04	Jun-05	Jun-06	Jun-07	Jun-08	Jun-09	Jun-10	Jun-11
Hi-Low Tunnel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
House Tunnel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	25.6	0.0	0.0	0.0	4.2	0.0	0.0
Kinneloa Canyon	140.7	50.2	54.3	56.8	48.6	52.1	33.4	28.9	12.2	9.5	31.2	40.4	45.4	27.2	21.4	21.2	37.8
Eucalyptus Tunnel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Brown	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.9	16.7	0.0	0.0	0.0	0.0	0.0
Eaton Wash Sub Total	140.7	50.2	54.3	56.8	48.6	52.1	33.4	28.9	38.0	9.5	81.7	57.2	45.4	27.2	25.6	21.2	37.8
Delores Tunnel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.4	31.1	21.5	44.5	0.0	0.0	0.0	0.0	0.0	0.0
Long Tunnel	35.8	37.2	39.2	39.2	38.9	37.7	38.1	38.0	36.0	35.3	46.8	44.7	37.4	36.0	34.3	33.8	39.8
Far Mesa Tunnel	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.0	0.0	0.0	30.2	42.5	0.0	0.0	0.0	0.0
Glen Wash	429.3	396.3	262.5	321.3	359.1	174.8	156.7	52.7	26.7	28.1	933.9	161.4	74.0	56.7	59.0	45.1	188.0
Tent Tunnel	5.1	5.5	5.4	5.3	5.8	3.4	2.4	2.3	2.1	2.0	3.2	3.5	2.9	2.5	2.1	2.0	1.8
Pasadena Glen Sub Total	470.2	439.0	307.1	365.8	403.8	215.9	201.8	134.4	95.9	86.9	1028.5	239.8	156.7	95.2	95.4	80.8	229.6
Sierra Madre Villa DB Outflow	-256.7	-32.8	-7.2	-33.7	0.0	0.0	0.0	0.0	0.0	0.0	-459.7	0.0	0.0	0.0	0.0	0.0	0.0
Net Pasadena Glen Sub Total	213.5	406.2	299.9	332.1	403.8	215.9	201.8	134.4	95.9	86.9	568.8	239.8	156.7	95.2	95.4	80.8	229.6
Total Diverted	354.2	456.4	354.2	388.9	452.4	268.0	235.2	163.3	133.9	96.4	650.5	297.0	202.1	122.4	121.0	102.1	267.4
Gross Tunnel Production																	
Hi-Low Tunnels	71.3	217.0	177.2	146.6	143.1	132.6	111.1	86.0	69.9	59.8	125.6	171.9	131.0	107.6	89.2	80.1	98.8
House Tunnel	37.8	43.9	35.4	33.1	41.1	31.5	26.2	21.5	20.3	12.7	38.2	44.9	26.5	20.6	16.9	13.8	14.5
Eucalyptus Tunnel	56.5	64.9	62.6	58.7	62.4	54.0	44.3	38.6	39.4	41.5	50.0	50.4	44.6	43.2	39.1	37.4	39.8
Delores Tunnel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.4	31.1	23.9	171.0	223.3	83.6	63.7	40.2	44.8	98.5
Far Mesa Tunnel	73.6	69.1	67.7	68.3	78.9	74.1	61.3	52.0	47.7	45.6	68.2	69.8	55.6	48.6	42.9	38.9	41.2
Long Tunnel	35.8	37.2	39.2	39.2	38.9	37.7	38.1	38.0	36.0	35.3	46.8	44.7	37.4	36.0	34.3	33.8	39.8
Tent Tunnel	5.1	5.5	5.4	5.3	5.8	3.4	2.4	2.3	2.1	2.0	3.2	3.5	2.9	2.5	2.1	2.0	1.8
Kinneloa Canyon	140.7	50.2	54.3	56.8	48.6	52.1	33.4	28.9	12.2	9.5	31.2	40.4	45.4	27.2	21.4	21.2	37.8
Glen Wash	429.3	396.3	262.5	321.3	359.1	174.8	156.7	52.7	26.7	28.1	933.9	161.4	74.0	56.7	59.0	45.1	188.0
Brown/Kinneloa Mesa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.9	16.7	0.0	0.0	0.0	0.0	0.0
Outflow	-256.7	-32.8	-7.2	-33.7	0.0	0.0	0.0	0.0	0.0	0.0	-459.7	0.0	0.0	0.0	0.0	0.0	0.0
SUBTOTAL	593.4	851.3	697.1	695.6	777.9	560.2	473.5	361.4	285.4	258.4	1033.4	827.0	500.9	406.1	345.2	317.1	560.1
Other Data																	
Rainfall (inches)	43.6	22.6	22.8	52.3	14.5	18.8	20.0	7.9	24.5	10.1	58.0	21.8	5.8	24.6	16.1	23.6	31.3
Metered Water Usage (AF)	582.0	668.8	679.9	600.4	666.3	782.9	710.9	739.1	717.7	772.6	672.6	785.8	816.3	754.1	729.7	665.9	590.8
Unmetered Water Loss (AF)	35.7	84.0	97.0	63.1	110.3	121.3	105.4	89.7	74.4	89.3	89.8	63.2	90.9	79.0	70.3	61.9	71.8
Unmetered Water Loss (%)	5.8	11.2	12.5	7.9	10.0	10.8	12.0	9.8	9.0	10.4	11.8	6.4	7.4	9.5	8.4	7.4	8.2
RBMB LTS Account (AF)											326.9	847.9	728.6	797.9	789.9	790.0	790.0
Power (\$)	71,086	55,137	68,132	57,193	86,488	97,064	77,780	111,676	111,062	100,410	87,537	82,476	112,924	89,011	92,204	92,700	92,700
Power (\$ per AF of TProduction)	115	73	88	71	78	86	88	122	135	116	115	83	92	107	110	111	105

Figure 1

Data for Watermaster Year (July through June) 2011-2012 through 2023-2024

*Production in Acre-Feet Source	WY End Jun-12	WY End Jun-13	WY End Jun-14	WY End Jun-15	WY End Jun-16	WY End Jun-17	WY End Jun-18	WY End Jun-19	WY End Jun-20	WY End Jun-21	WY End Jun-22	WY End Jun-23	WY End Jun-24	30-Year Average
Wilcox Well	9.5	57.6	11.5	8.7	8.3	5.1	2.7	1.0	1.4	4.9	61.7	34.5	50.8	75.5
K-3 Well	708.0	584.2	676.6	574.2	574.4	556.9	706.7	649.0	649.4	745.7	583.6	469.9	332.1	531.8
Total Well	717.5	641.9	688.0	582.9	582.7	562.0	709.4	650.1	650.7	750.6	645.3	504.4	382.9	607.3
Hi-Low Tunnel	94.3	53.5	36.2	40.2	36.7	40.9	33.5	44.0	52.0	43.8	36.8	59.9	34.0	87.1
House Tunnel	15.7	14.3	10.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	14.0	8.8	10.0	17.3
Eucalyptus Tunnel	40.5	40.7	41.5	40.0	39.4	39.0	48.1	44.0	45.6	55.7	48.2	35.4	0.0	44.5
Delores Tunnel	57.7	17.4	22.9	11.0	5.1	11.7	2.3	21.0	26.8	14.1	5.8	107.5	112.4	36.6
Far Mesa Tunnel	41.2	39.3	38.6	35.9	31.3	28.5	28.8	33.2	33.7	31.3	33.5	34.6	20.0	45.2
Total Tunnel	249.3	165.2	149.4	127.6	112.4	120.0	112.7	142.2	158.0	144.9	138.3	246.2	176.4	230.7
Total Production to System	966.8	807.0	837.4	710.5	695.2	682.0	822.1	792.2	808.7	895.5	783.6	750.6	559.3	838.0
Deliveries from Pasadena	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	36.7	0.0	0.0	0.0	3.0
Deliveries to Pasadena	-239.0	-47.8	0.0	-9.0	-86.4	-55.5	-87.2	-133.6	-119.4	-138.8	-51.5	-203.0	0.0	-97.3
Net Import/(Export)	-237.8	-47.8	0.0	-9.0	-86.4	-55.5	-87.2	-133.6	-119.5	-102.0	-51.5	-203.0	0.0	-94.3
Net Production for Retail	729.1	759.3	837.4	701.5	608.8	626.5	734.9	658.6	689.2	793.5	732.2	547.6	559.3	743.7
Diversions to Spreading in Acre-Feet														
Source	Jun-12	Jun-13	Jun-14	Jun-15	Jun-16	Jun-17	Jun-18	Jun-19	Jun-20	Jun-21	Jun-22	Jun-23	Jun-24	Average
Hi-Low Tunnel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
House Tunnel	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	14.4	13.2	10.2	12.1	21.2
Kinneloa Canyon	37.8	35.6	27.7	30.4	30.6	33.0	16.8	20.4	18.2	14.6	14.8	33.4	72.1	36.6
Eucalyptus Tunnel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5	77.8	3.5
Brown	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	1.4
Eaton Wash Sub Total	37.8	35.6	27.7	30.7	30.6	33.0	16.8	20.8	32.6	27.8	25.0	63.0	250.3	48.0
Delores Tunnel	0.0	0.0	0.0	1.7	0.0	0.0	0.0	1.2	0.0	0.0	0.0	3.3	83.9	7.6
Long Tunnel	38.4	34.4	29.9	28.5	27.7	33.9	32.7	38.7	41.3	33.5	32.8	42.9	59.3	37.4
Far Mesa Tunnel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	29.2	3.8
Glen Wash	88.7	89.2	73.1	55.6	52.5	60.5	30.0	52.0	43.5	35.6	36.6	79.2	62.3	149.5
Tent Tunnel	2.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	0.4	0.0	0.0	0.0	0.0	2.5
Pasadena Glen Sub Total	129.9	125.9	105.3	88.1	82.4	96.8	65.0	94.1	85.2	69.1	69.4	133.2	234.7	200.9
Sierra Madre Villa DB Outflow	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-26.3
Net Pasadena Glen Sub Total	129.9	125.9	105.3	88.1	82.4	96.8	65.0	94.1	85.2	69.1	69.4	133.2	234.7	174.5
Total Diverted	167.7	161.4	133.0	118.8	113.0	129.7	81.8	114.9	117.8	96.9	94.3	196.2	485.0	222.5
Gross Tunnel Production														
Source	Jun-12	Jun-13	Jun-14	Jun-15	Jun-16	Jun-17	Jun-18	Jun-19	Jun-20	Jun-21	Jun-22	Jun-23	Jun-24	Average
Hi-Low Tunnels	94.3	53.5	36.2	40.2	36.7	40.9	33.5	44.0	52.0	43.8	36.8	59.9	113.2	90.1
House Tunnel	15.7	14.3	10.2	0.9	0.0	0.0	0.0	0.0	14.4	13.2	24.2	20.9	31.2	20.8
Eucalyptus Tunnel	40.5	40.7	41.5	40.0	39.4	39.0	48.1	44.0	45.6	55.7	48.2	52.8	77.8	48.0
Delores Tunnel	57.7	17.4	22.9	12.8	5.1	11.7	2.3	22.2	26.8	14.1	5.8	110.7	196.3	44.2
Far Mesa Tunnel	41.2	39.3	38.6	35.9	31.3	28.5	28.8	33.2	33.7	31.3	33.5	42.4	49.2	49.0
Long Tunnel	38.4	34.4	29.9	28.5	27.7	33.9	32.7	38.7	41.3	33.5	32.8	42.9	59.3	37.4
Tent Tunnel	2.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	0.4	0.0	0.0	0.0	0.0	2.5
Kinneloa Canyon	37.8	35.6	27.7	30.4	30.6	33.0	16.8	20.4	18.2	14.6	14.8	33.4	72.1	36.6
Glen Wash	88.7	89.2	73.1	55.6	52.5	60.5	30.0	52.0	43.5	35.6	36.6	79.2	62.3	149.5
Brown/Kinneloa Mesa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	1.4
Outflow	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUBTOTAL	417.0	326.6	282.4	246.4	225.4	249.7	194.5	257.1	275.8	241.8	232.6	442.4	661.4	453.2
Other Data														
Source	Jun-12	Jun-13	Jun-14	Jun-15	Jun-16	Jun-17	Jun-18	Jun-19	Jun-20	Jun-21	Jun-22	Jun-23	Jun-24	Average
Rainfall (inches)	11.8	8.3	5.2	8.2	12.3	24.1	10.3	27.8	19.5	5.6	17.7	48.6	33.8	21.7
Metered Water Usage (AF)	654.9	696.2	760.2	642.7	502.6	568.8	628.4	562.1	579.1	676.0	615.5	493.2	474.8	659.7
Unmetered Water Loss (AF)	74.1	63.1	77.2	58.8	106.1	57.7	106.5	96.5	110.2	117.4	116.6	54.4	84.5	84.0
Unmetered Water Loss (%)	7.7	7.8	9.2	8.3	15.3	8.5	13.0	12.2	13.6	13.1	14.9	7.2	15.1	10.1
RBMB LTS Account (AF)	790.0	790.0	790.0	790.0	790.0	790.0	790.0	782.1	774.3	766.6	758.9	751.3	743.8	758.9
Power (\$)	93,964	105,248	113,611	114,917	103,595	117,767	127,709	116,189	128,377	152,357	186,323	175,469	175,453	106,552
Power (\$ per AF of FTProduction)	97	130	136	162	149	173	155	147	159	170	238	234	314	132

Figure 2
Total System Production
July through June

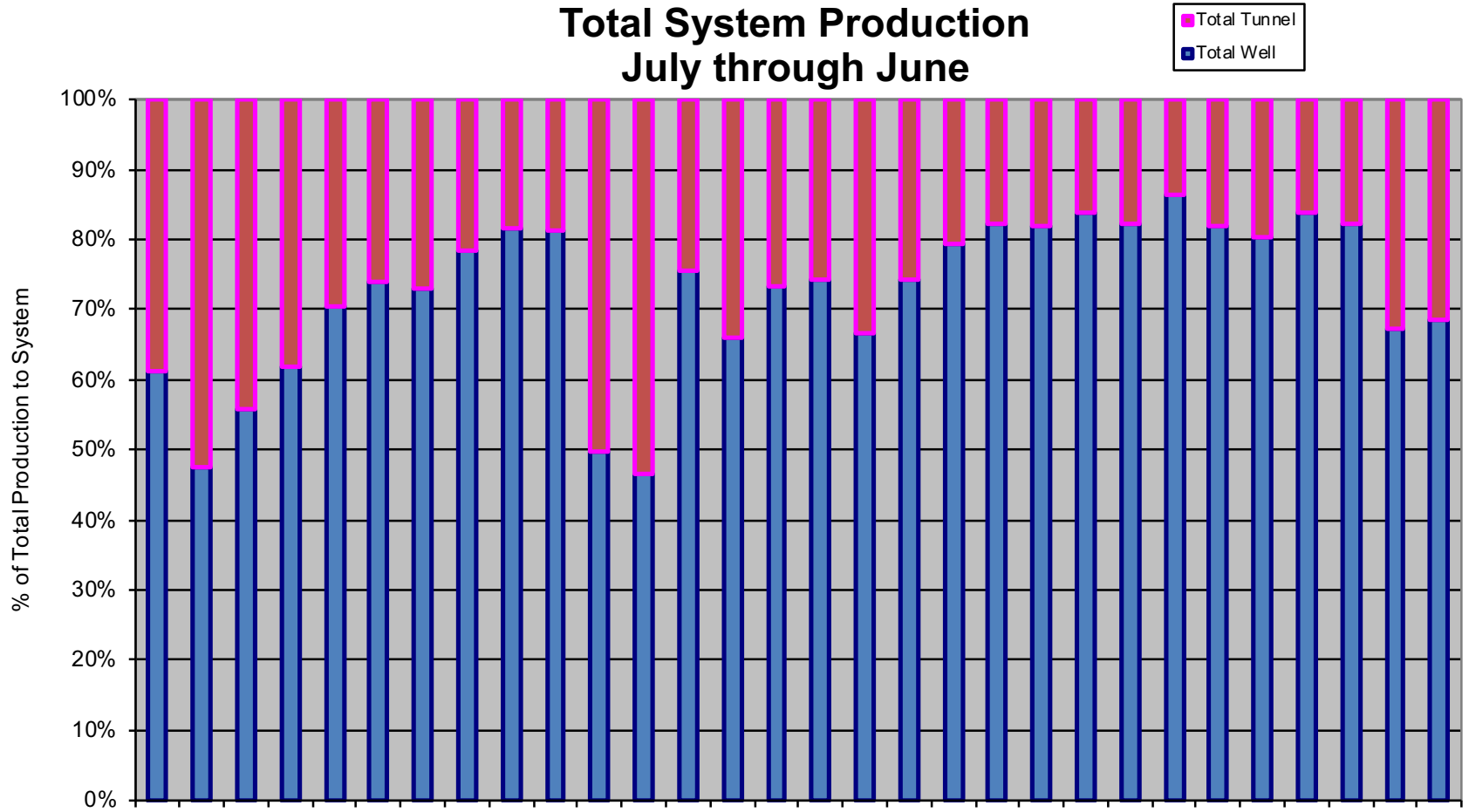


Figure 3
2023-2024 Production Sources

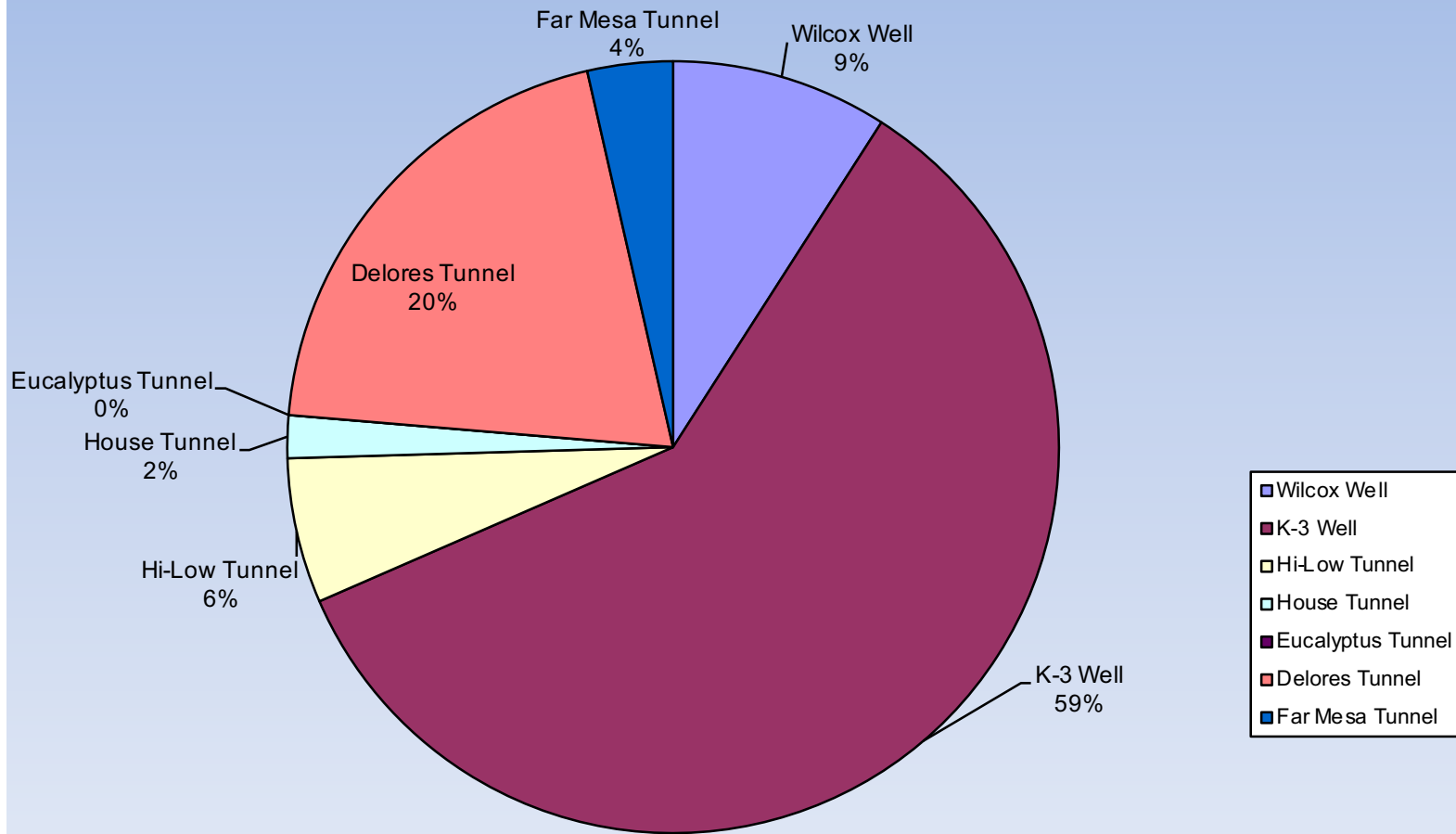


Figure 4
Annual Water Sales
July through June

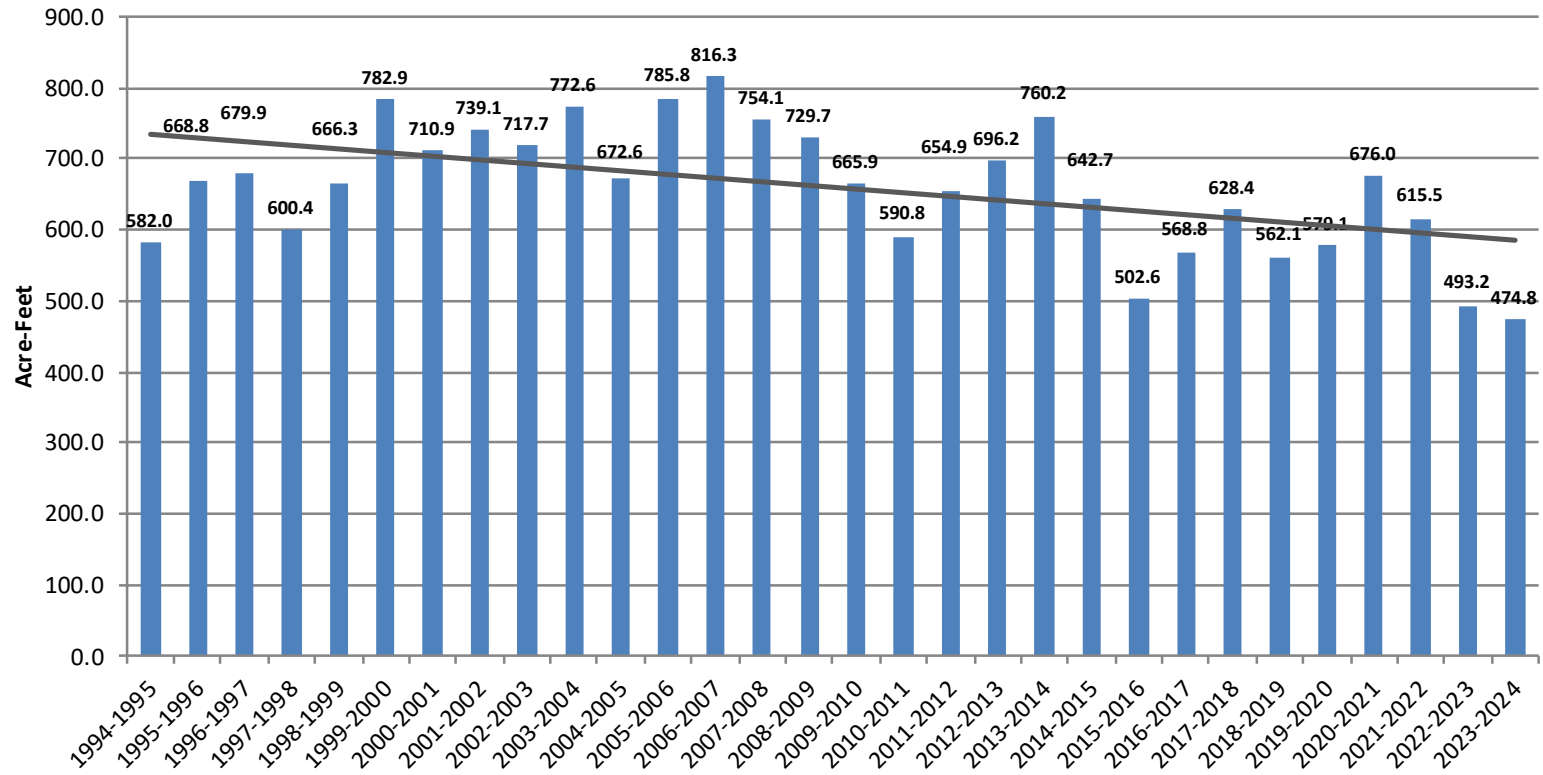


Figure 5

**Average Monthly Water Sales (CCF)
July through June
1994-1995 through 2023-2024**

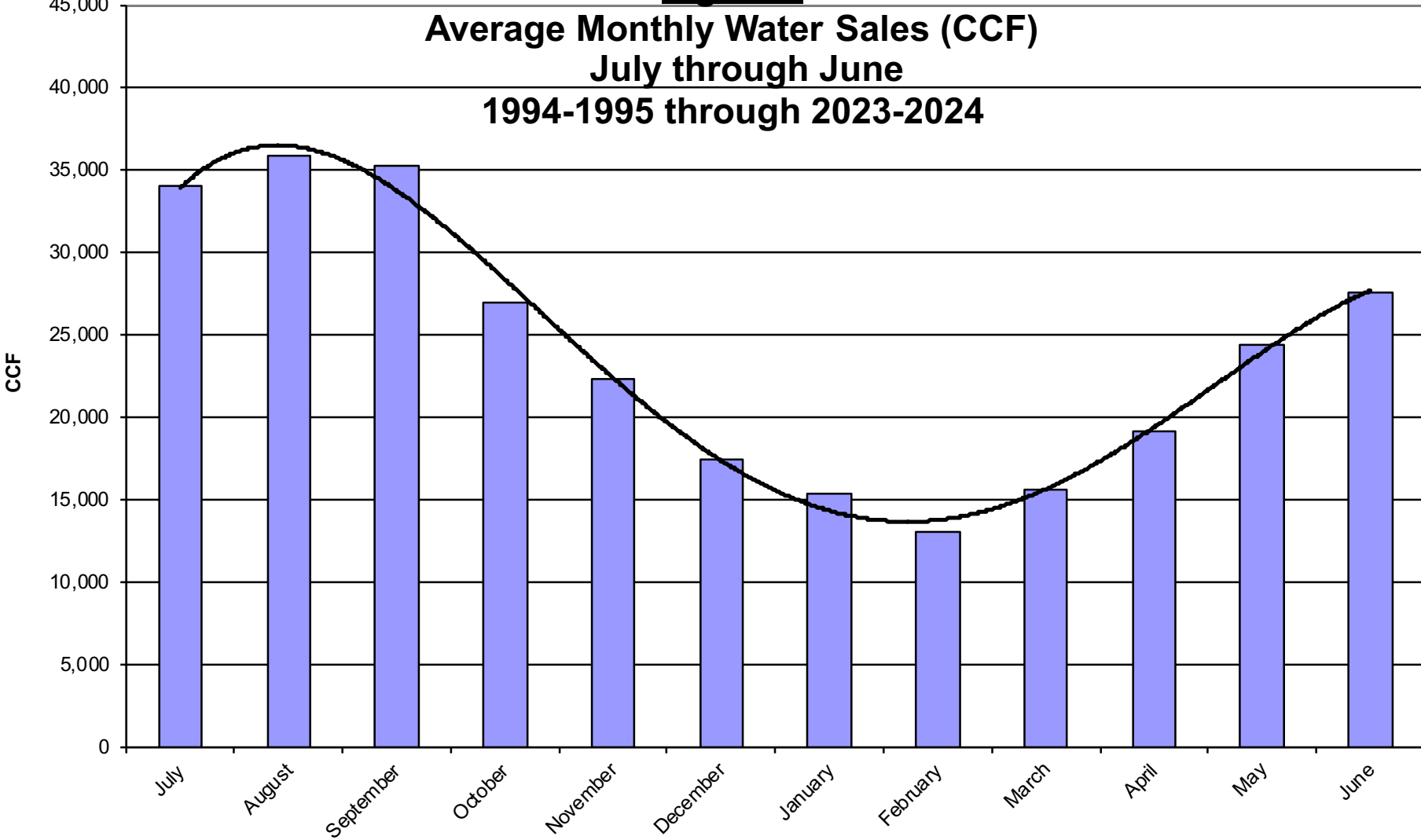


Figure 6
Rainfall

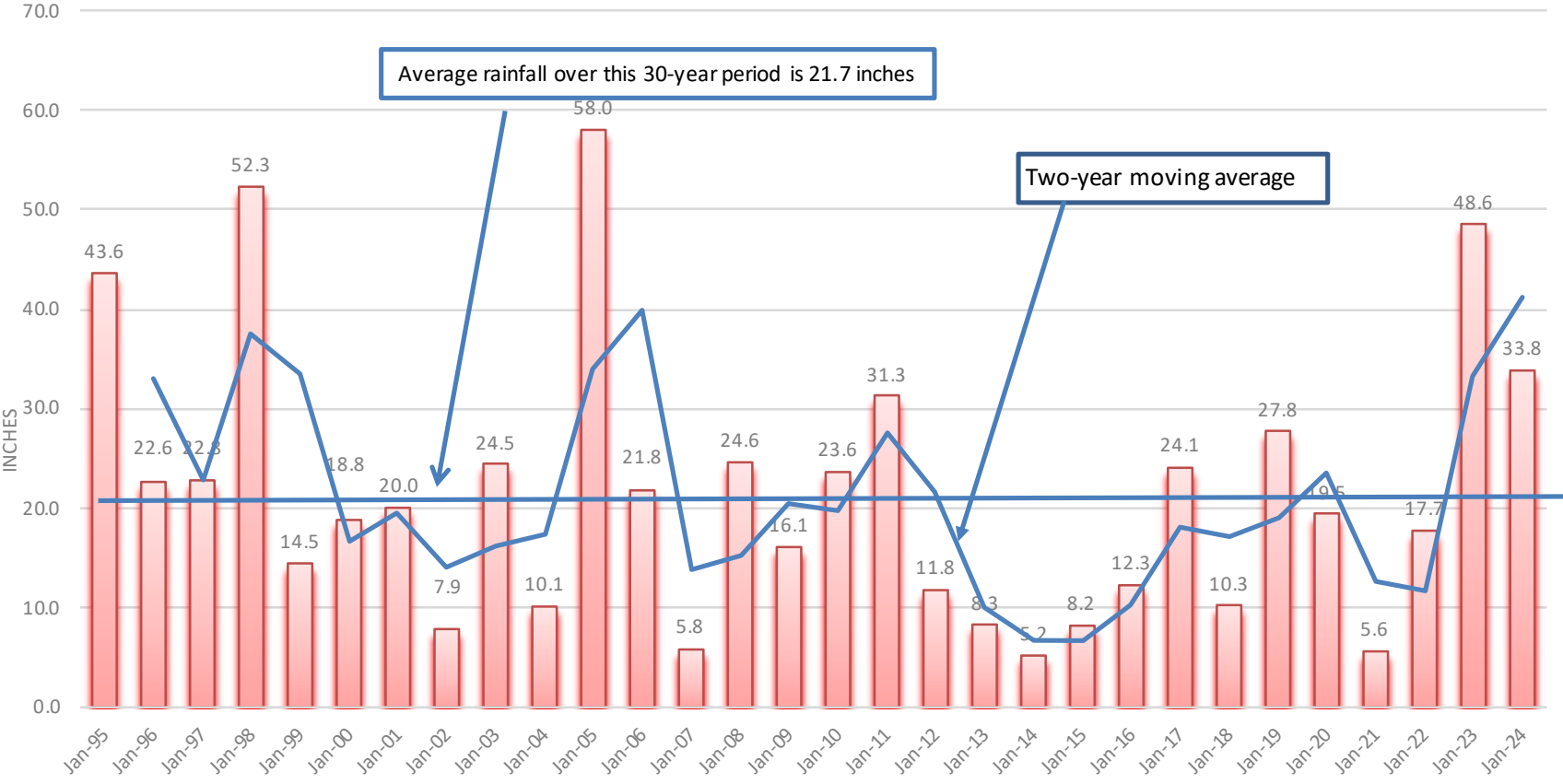


Figure 7
Supply Portfolio Composition
Watermaster Years Ending 2005-2024

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Net Decreed Rights	516.00	516.00	516.00	516.00	516.00	485.04	454.08	423.12	392.16	361.20	361.20	361.20	361.20	361.20	361.20	361.20	361.20	361.20	361.20	361.20
Tunnels to System	382.93	530.09	298.77	283.65	224.20	215.02	292.76	249.34	165.18	149.40	127.58	112.43	120.01	112.71	142.15	157.99	144.91	138.29	246.18	176.40
Spreading Credits	76.60	469.02	221.75	161.70	95.70	95.70	79.10	209.30	133.60	128.40	106.50	93.30	89.22	103.00	65.40	87.80	93.40	77.40	74.61	133.68
Leased Rights	150.00	0.00	0.00	0.00	0.00	50.00	62.00	93.00	124.00	155.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00	0.00
Total Produced	762.47	990.78	1,229.02	833.17	840.93	832.86	880.04	966.84	807.03	837.40	710.49	695.15	682.01	822.12	792.21	808.73	895.52	783.63	750.58	559.30
Total Pumped	379.54	460.69	930.25	549.52	616.73	617.84	587.28	717.50	641.85	688.00	582.91	582.72	562.00	709.41	650.06	650.74	750.61	645.34	504.40	382.90
Sales - Total	672.63	927.59	1,138.09	754.14	770.61	770.99	808.20	892.69	743.97	760.15	651.72	589.02	624.29	715.57	695.73	698.57	778.08	667.01	696.21	474.79
Sales - Retail	672.63	785.81	816.30	754.14	729.67	665.90	590.83	654.90	696.19	760.16	642.73	502.64	568.80	628.36	562.09	579.07	676.04	615.54	493.24	474.79

