2022 ANNUAL REPORT





OUR MISSION

The mission of Vista Irrigation District is to provide a reliable supply of high quality water that meets the needs of its present and future customers in an economically and environmentally responsible manner.

Vista Irrigation District serves roughly 134,000 people through approximately 29,000 residential and business connections in Vista and portions of Escondido, Oceanside, San Marcos and unincorporated areas of San Diego County.



Cover photos:

Center: Photograph by Damir Mijailovic via Canva Outside: Vista Irrigation District photographs, charts

and map from this annual report.

A Message from the Board President



Marty Miller 2022 Board President Director, Division 1

As a Board Member of Vista Irrigation District for the past fourteen years, I have seen the District go through many changes and face many challenges, including several droughts, legislative and regulatory hurdles and the rising cost of purchased water. This past year, I was honored to serve my third term as Board President and work with the District's dedicated staff to continue to provide you, our customers, with reliable water service.

Aging infrastructure, algal blooms and the rising cost of purchased water are an ongoing challenge for our District. The Board and staff work hard to ensure that addressing these issues has the least impact on our customers. The District's 99th year of service to its customers saw important upgrades to pipelines and reservoirs, the development of a plan to mitigate algal blooms at Lake Henshaw, our local water supply, and the use of rebates received from the San Diego County Water Authority to lessen the impact of higher water costs to its customers.

In 2023, the District will turn 100 years old. The District is proud of its accomplishments over the last century and looks forward to providing reliable water service to the residents and businesses its serves for years to come. I encourage you to contact the District to offer your suggestions on how we can continue to provide the best service possible. We value your input.

A Message from the General Manager

Since 1923, Vista Irrigation District has been providing its customers with a reliable supply of high quality water. We are committed to doing what it takes to deliver reliable water service at a fair price now and in the future to those who live, work and play in the communities that we serve. Our knowledgeable and skilled staff make sure that we provide the best quality product and service to the residents and businesses we serve day in and day out, and our Board of Directors are committed to making investments today to secure and deliver safe, reliable water in the future.

Over the past year, we continued to implement an aggressive capital improvement program, replacing aging pipelines, reservoirs and other key components of our local water system. Planning for the replacement of the near 100-year old, 11-mile Vista Flume, which carries water from the Escondido-Vista Water Treatment plant to our distribution system, continued with the number of new routes being evaluated being narrowed to three. Construction of the new Edgehill Reservoir and Pump Station project is underway and slated to be completed in 2024; the new reservoir will be larger than the 93-year old reservoir it is replacing, nearly doubling the storage capacity at this location (1.5 million gallons to 2.92 million gallons).

Next year will mark Vista Irrigation District's 100th year of serving the community. We were formed in 1923 to provide water to the farms and orchards of the growing community of Vista. In those days, we served a population of roughly 300; today, we serve a population of over 134,000. Vista Irrigation District is proud of its track record over the last century and looks forward to many more successful years of service.



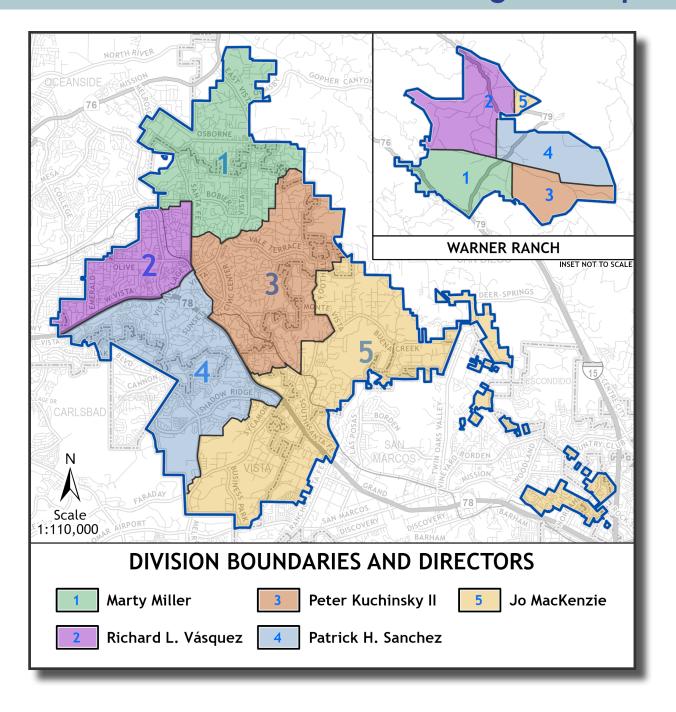
Brett L. Hodgkiss General Manager

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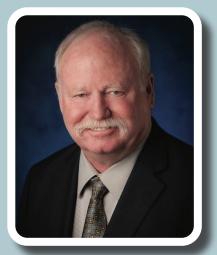


Division Boundary Map

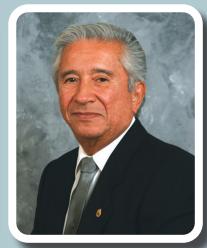


Vista Irrigation District Board of Directors

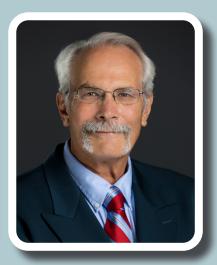
Marty Miller
Division 1



Richard L. Vásquez
Division 2



Peter Kuchinsky II Division 3



Patrick H. Sanchez Division 4



Jo MacKenzie
Division 5



Board meetings are generally held on the first and third Wednesday of each month. Standing committees meet on an as needed basis. Meetings are held at the District office. Meetings are accessible to the public, and agendas are posted the Friday prior to the scheduled meeting. For further information about a meeting, or to request a copy of an agenda or staff report, please contact the Board Secretary at (760) 597-3128.

Our Region's Trusted Water Leader San Diego County Water Authority



The San Diego County Water Authority is the region's wholesale water provider and is responsible for the construction and maintenance of regional water storage and delivery and treatment infrastructure providing water to 24 member agencies, including Vista Irrigation District.

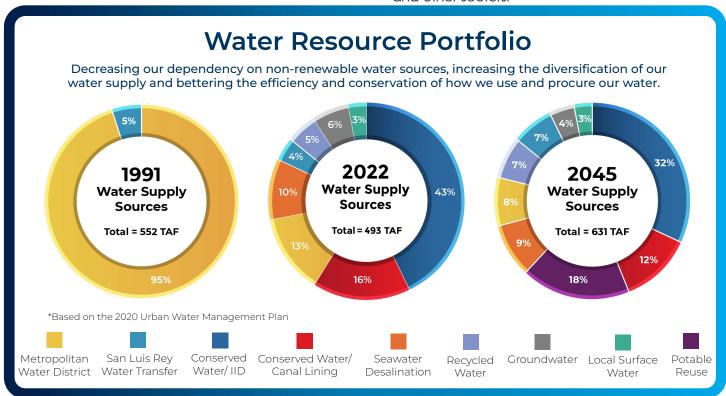
Strategic Investments Create a Vibrant Regional Future

A safe and reliable water supply is crucial to sustain the San Diego region's \$268 billion economy and quality of life for 3.3 million residents. To maximize the reliability of the region's most precious resource, San Diego County Water Authority (SDCWA) is executing a successful long-term strategy to diversify its water resources, make major upgrades in the regional water delivery and storage system, and improve water-use efficiency.

While the San Diego region has sunshine in spades, it doesn't have significant local water supplies. In fact, human history in this semi-arid region has always been marked by the search for reliable water supplies. With intermittent rainfall and

sparse groundwater, the region today relies on low-cost base water supplies from the Colorado River Quantification Settlement Agreement, other imported water supplies, and a variety of local sources, including water recycling.

After decades of strategic investments, the Water Authority today is a model for statewide efforts to develop diversified water supply portfolios. The San Diego region's resources range from the nation's largest seawater desalination plant to the nation's largest ag-to-urban water conservation-and-transfer agreement. These assets provide supply security for the region's diverse economy that includes tourism, agriculture, biotech, defense and other sectors.



Graphs and information from SDCWA. To learn more about regional investments in local water supply visit www.sdcwa.org/your-water/



Customer Showcases a WaterSmart Landscape



"I wanted a lush and colorful landscape with as low of a water bill as possible!" said Ms. Dell. "What was a mundane, flat waste of water is now, and will increasingly be, a joyful, colorful, and dynamic habitat for humans and other wildlife."

~Jennifer Dell



Every year several local water agencies, including Vista Irrigation District, hold WaterSmart Landscape Contests which provides an opportunity to highlight residential water-efficient landscapes throughout the region. Vista Irrigation District's top entry showed how colorful waterwise flora can create a beautiful habitat for local fauna.

Jennifer Dell was recognized as the Vista Irrigation District's 2022 WaterSmart Landscape Contest winner. Replacing the standard, water intensive lawn of her home was a high priority when Ms. Dell purchased the property in 2019; she used upcycled landscape materials and water smart trees, shrubs and perennials to transform her front yard into a thriving landscape. Podocarpus and Purple Hopseed evergreens circle the yard to create a verdant privacy screen that provides seasonal color all year, and spears of deep purple from Pride of Madeira, Lavender and Mexican Sage Bush throughout create a colorful and blossoming habitat for butterflies, bees and birds. Honevsuckle, Star Jasmine and Floribunda Iceberg Roses provide fragrant bursts of color; Ms. Dell also planted a variety of fruit trees that she irrigates with rainwater collected in a rain barrel catchment system.

With a majority of their water consumption going to watering landscapes, homeowners are searching for ways to decrease their water use outdoors. By showcasing beautiful landscapes in the WaterSmart Landscape Contest, Vista Irrigation District customers are providing other homeowners with great ideas about how to reduce their own outdoor water use by installing attractive water wise landscaping. For more information about the contest and to see more examples of water wise landscaping, visit www.landscapecontest.com.



Photo Credits: Jennifer Dell

District Narrows New Vista Flume Routes to Two

Vista Irrigation District (District) is getting closer to making a decision on the route that a new water supply conveyance, which will replace the nearly 100-year old Vista Flume (Flume),

will take. The District is reliant on the Flume to deliver treated water from the Escondido-Vista Water Treatment Plant to its service area. This includes delivery of treated local water from Lake Henshaw, which the District owns and manages.

Constructed in the 1920's, the Flume is built through rugged country hillsides and valleys, spanning just over 11 miles and serves as the District's main water supply conduit to its distribution system. The Flume has been indispensable in supplying reliable water service to our customers

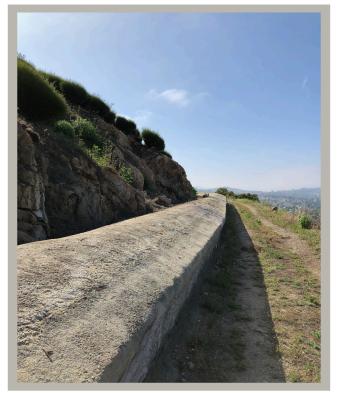
for almost a century. An engineering feat that has stood the test of time, the Flume is approaching its useful life.

In 2020, the Board initiated a multi-phased Flume Replacement Alignment Study (Study) to conduct a thorough analysis of project affordability, feasibility and implementation. As with any large

infrastructure project, numerous considerations. such as constructability, operational, environmental and community impacts evaluated. be The Study's third phase narrowed six alignment alternatives down two, which will be further evaluated and include detailed cost estimates that will ultimately lead to the selection of the top alignment (expected by winter 2023). The final phase will develop design criteria and a final detailed cost estimate for the selected route.

Transparency is a priority as the District moves through each phase of the Study. The District is committed to keeping our customers

informed and ensuring the District determines the most reliable, affordable and responsible option for Flume replacement.



The Vista Flume, 2019



WATER SUPPLY FACTS

WATER SOURCES

Vista Irrigation District's original source of water, dating back to 1926, was from Lake Henshaw. The lake, along with the 43,000-acre Warner Ranch, was purchased by the District in 1946. However, drought conditions and population growth eventually caused the District to look for additional water sources. In 1954, the District became a member of the San Diego County Water Authority to take advantage of water imported from the Colorado River and Northern California.



Purchased Water Source: California Aqueduct Photo Credit: Ken James, DWR

Typically, 15 to 25 percent of the District's water comes from Lake Henshaw and the remainder comes from purchased water sources, including the Colorado River, desalinated seawater and the Sacramento River/San Joaquin River Delta in Northern California. Harmful Algal Blooms at Lake Henshaw significantly reduced water deliveries from this source in Fiscal Year 2022; only three percent of the District's water came from Lake Henshaw last fiscal year.



Local Water Source: Lake Henshaw, 2022 Photo Credit: R. Larsen

WATER QUALITY

Vista Irrigation District takes all steps necessary to safeguard its water supply. Each year staff conducts more than 12,000 tests for over 75 drinking water contaminants, ensuring that the District's water meets safe drinking water standards. Last year, the District's water met or exceeded all Federal and State safe drinking water standards.

Every June, the District makes available its Consumer Confidence Report, also known as the Water Quality Report. The report provides a snapshot of the quality of water provided during the past year. Included are details about what is in your water and how it compares to prescribed standards. It also provides answers to commonly asked questions, such as "what affects the taste of my water?"

The District is committed to providing its customers with information about drinking water because informed customers are the District's best customers. If customers have questions or concerns about water quality, they may contact the District and speak with the water distribution supervisor.



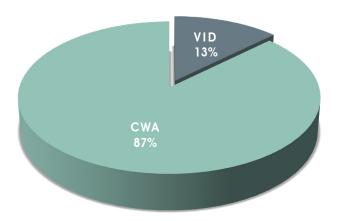
					Treatment Plant Effluents					
Parameter	Units	Federal or State MCL [MRDL]	PHG (MCLG) [MRDLG]	Range Average	Escondido-Vista Water Treatment Plant	Skinner, Twin Oaks Valley, & Weese Water Treatment Plants Combined Effluents	Carlsbad Desalination Plant	DLR	Typical Source/ Comments	
Primary Stand	dards									
Clarity (Turbidit	y)									
				Range	0.02 - 0.12	ND - ND	NR - NR	NA.		
	NTU	TT=1	NA	Average	0.04	0.03	NR		Soil Runoff	
Combined Filter Effluent Turbidity*				Highest	0.12	0.14	0.09			
Emuent Turbidity	%	TT=95% of samples ≤ 0.3%	NA	Percentage	100%	100%	100%	NA	Soil Runoff	
* Turbidity is a measure considered to be in con				a good indica	tor of water quality and	fitration performance. 7	urbidity results, which	meet po	erformance standards, an	
Inorganic Const	ituents									
Arsenic (As)	uat	10	0.004	Range	ND - 2	ND - 2	ND - ND	,	Erosion of natural deposits: glass and	
Arsenic (As)	ugit	10	0.004	Average	ND	ND	ND	1 1	electronics production waste	
Chlorite		1		Range	0.14 - 0.53	NR - NR	NR - NR	0.02	By-products of drinking	
Uniorne	mg/L	1 1	0.05 A	Average	0.26	NR	NR	0.02	water chlorination	
				Range	06.08	03.09	ND - 0.8			Erosion of natural de-
Fluoride (F-) Treatment Related	mg/L	2						0.1	posits: water additive fo	

Excerpts from the 2022 Consumer Confidence Report (CCR). The 2023 CCR will be available July 1, 2023.

WATER SUPPLY FACTS

2022 WATER RATES AND CHARGES

2022 Water Usage Charge Allocation

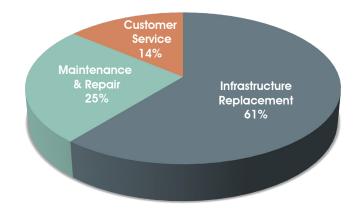


In 2022, approximately 13 percent of the revenue generated by water usage charges was utilized by Vista Irrigation District to cover operating and maintenance expenses; the remaining 87 percent was used to pay the San Diego County Water Authority (Water Authority) for water purchases.

The Water Authority is responsible for supplying water to 24 member agencies within San Diego County. Not simply a water provider, the Water Authority is also responsible for the construction and maintenance of regional storage, delivery and treatment infrastructure necessary to ensure the reliable delivery of water to local water agencies like Vista Irrigation District.

Vista Irrigation District's service charge helps pay the District's fixed costs, which exist regardless of the amount of water pumped and delivered. Fixed costs continue without regard to the amount of water that a customer uses and are sometimes called "readiness-to-serve" charges because they are incurred as part of keeping the water system ready to deliver water to any customer at a moment's notice. In 2022, the largest component of the service charge recovers the cost of replacing the District's aging water system infrastructure.

2022 VID Service Charge Components



WATER INFRASTRUCTURE

Replacement of aging infrastructure has always been a high priority for the District. In 1995, the Board of Directors initiated an on-going Main Replacement Program (Program) with the goal of replacing aging pipelines before they reach the end of their useful life and become a maintenance liability. The formalized Program has allowed pipe replacements to be prioritized based on a variety of factors, including age of pipe, leak history, pipe material and input from District crews who evaluate every line's condition at the time repairs are being made.

Since its inception, the District has allocated \$34.6 million to this program, which has allowed the replacement of nearly 38 miles of older pipe ranging in size from four to 20 inches. The Board of Directors approved another \$2.5 million for this Program as part of the budget for Fiscal Year 2023.

The District's investments in the Main Replacement Program as well as system upgrades and other infrastructure improvements, including the rehabilitation and replacement of reservoirs, help the District meet its goal of providing a reliable and high quality water supply to its customers.



Pictured: Mainline Replacement on San Clemente Ave



Information about Vista Irrigation District's water supply as well as an electronic copy of the latest Consumer Confidence Report can be found on the District's web site, www.vidwater.org. Additionally, you can find out more information about District services, rates, water conservation and recent announcements. Customers can also download publications, such as the District's direct payment program application and engineering standard specifications/drawings.

EMPLOYEE SERVICE AWARDS

Annually, the Board of Directors recognizes employees who have reached major milestones in their careers with Vista Irrigation District. Longevity is a hallmark of the District, and this year was no exception. The pictured employees received service awards commemorating their dedicated service to the District and its customers.





Don Gordon





Joel Gullingsrud



Allie Valladares





Jessica Sherwood





Berto Alvarez



Stephen Huynh



Jason Jones



Rick Pooley







Over 29,000 Meters

18 Culture Interagency Connections

Over

134

Thousand Customers



Reservoirs

The District has 12 treated water reservoirs with a total storage capacity of 46.3 million gallons; the storage capacity of individual reservoirs range from 0.2 to 20 million gallons.

Water Transmission Facilities

Escondido Canal and Intake	Carrying Capacity: 50 CFS	VID rights = 1/2
Vista Main Canal (Flume)	Carrying Capacity: 30 CFS	Eleven miles of conduit from the Escondido-Vista Water Treatment Plant to Pechstein Reservoir

Water Meters

This table shows the total number of meters in service by the use type.

Residential (Single and Multi-Family) 24,864

Total	29,056
<u>Governmental</u>	91
Fire Service (Fire Sprinklers)	1,299
Agricultural	279
Irrigation	945
Commercial/Industrial	1,578

VID Pipelines

This table shows miles of pipeline in the District's distribution system by size and material type.

4" to 12" AC	240 miles
14" to 36" AC	17 miles
2.5" to 12" PVC	106 miles
14" to 24" PVC	3 miles
4" to 12" Steel	36 miles
14" to 36" Steel	25 miles
All other materials larger than 4"	2 miles

Total 429 miles

Water Equivalents

- 1 Acre Foot equals 325,900 gallons
- 1 Acre Foot equals 43,560 cubic feet
- 1 Cubic Foot equals 7.48 gallons
- 1 Cubic Foot per Second (CFS) equals 449 gallons per minute and in 24 hours equals 1.983-acre feet

<u>Performance of Distribution Systems</u>

(Fiscal Year 2021-2022)

This table shows water delivered to the District (from purchased and local sources) versus how much was delivered to customers. Losses encompass water that was delivered to the District but not sold to customers. Water losses can be attributable to a number of factors, including pipeline leaks and breaks, theft, hit fire hydrants and fire suppression activities.

	Acre Feet		
	Water In	Water Out	
Local Water Received at Escndido-Vista Water Treatment Plant (Henshaw Water)	519		
Received from San Diego Aqueduct (Purchased)	16,832		
Metered to VID users		16,444	
Losses		907	
Total	17,351	17,351	

Lake Henshaw Properties

			_		
v	/ar	ner	KΩ	nch:	

43,402 acres (68 square miles)

Semi-Hydraulic Earth Fill Dam:

Height 110 feet, Length 1,950 feet

Groundwater Development:

12 active production wells and 91,000 feet of conduit

Reservoir (Lake Henshaw):

51,832 acre feet capacity; 2,256 acres in area, 203 square mile watershed

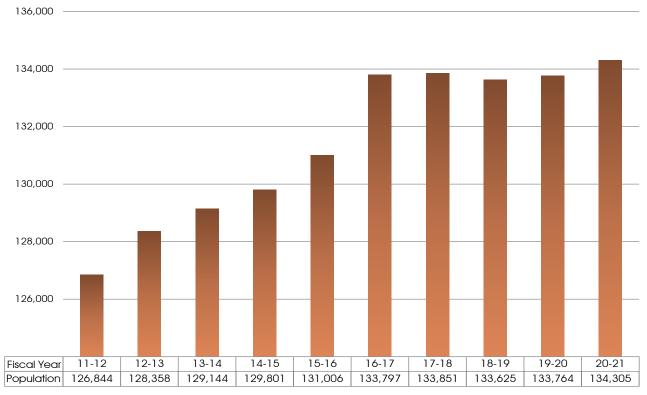
Lake Henshaw Performance

This table presents an annual accounting of various sources of inflows, such as run-off and pumped water from the Warner Basin aquifer, and outflows of water from the lake.

	Acre Feet
Total Storage July 1, 2021	4,188
Plus Pumped Water	8,386
Plus (minus) other gains/(losses)	87
Less Release	(3,975)
Less Evaporation	(4,564)
Less Spill	0
Total Storage July 1, 2022	4,122

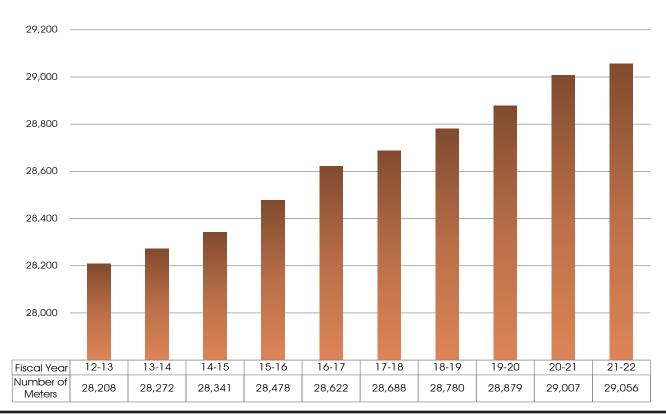
Population

The graph depicts population growth within the District's service area, which is comprised of the city of Vista as well as portions of San Marcos, Escondido, Oceanside and unincorporated areas of the county. Source: San Diego Association of Governments.



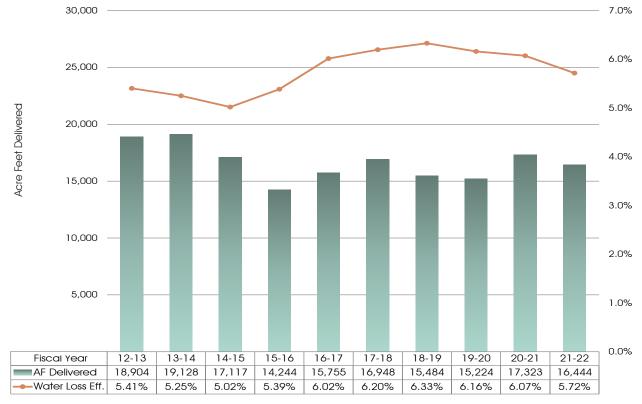
Meters in Use

This graph shows the increase in the number of meters in use over a ten year period.



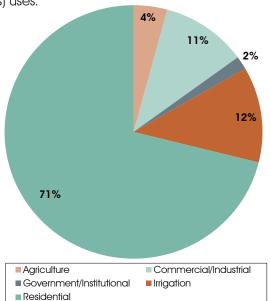
Distribution Efficiency

The Distribution Efficiency graph shows water delivered to customers (from purchased and local sources) which is represented by the blue bars. The green line shows historical water losses. Losses encompass water that was delivered to the District but not sold to customers. Water losses can be attributable to a number of factors, including pipeline leaks and breaks, under-registering meters, evaporation, theft, hit fire hydrants and fire suppression activities.



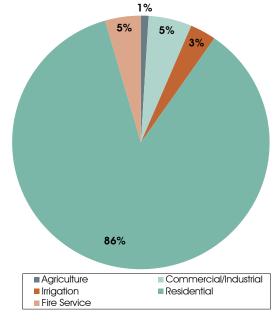
Water Delivered by Use Type

This graph shows how much water is delivered for different uses. As illustrated, a majority of the water delivered to District customers (71%) is for residential use. The balance is delivered for irrigation, commercial/industrial (business), agriculture and governmental/institutional (parks, libraries, schools) uses.



Meters in Service by Use Type

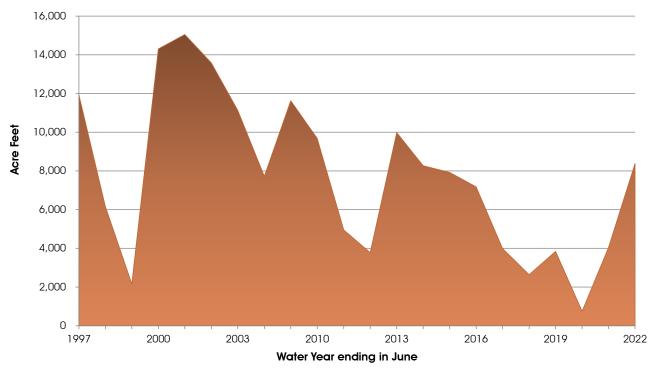
This graph shows meters in service by use. Almost 86% of the District's 29,056 meters are used to supply water to single-family residences.



Note: Government/Institutional meters in use less than one percent; not shown in chart.

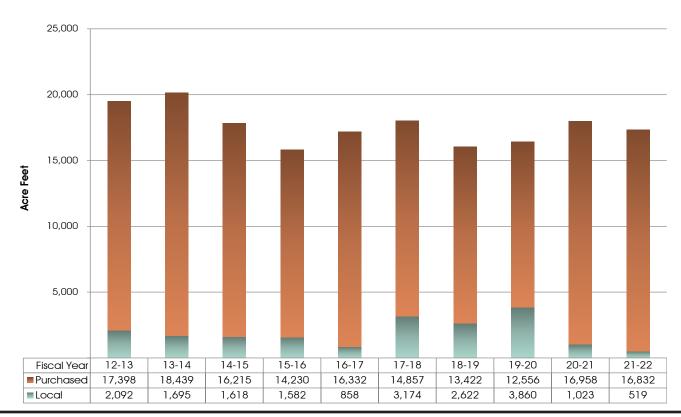
Water Pumped from Warner Basin (Yearly Totals)

Lake Henshaw's water comes from run-off as well as pumped groundwater from the Warner Basin, which surrounds the lake. This graph shows pumped water totals from 1997 to 2022. Typically, pumped water is more heavily relied on during extended dry periods.



Water Received

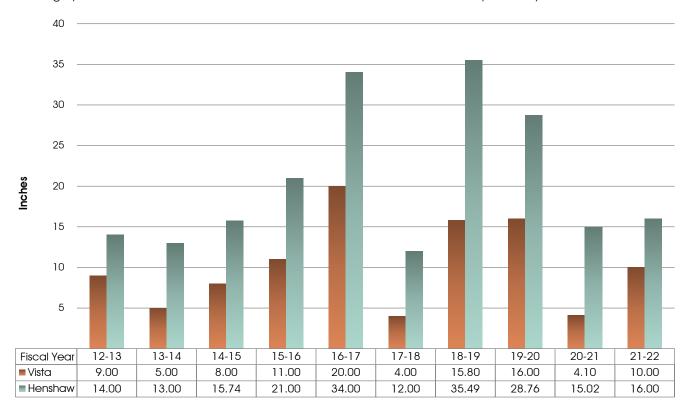
The District receives water from Lake Henshaw (local) and from Northern California, the Colorado River and desalinated sea water (purchased). This graph shows how much of each source was received in a given year.



Rainfall

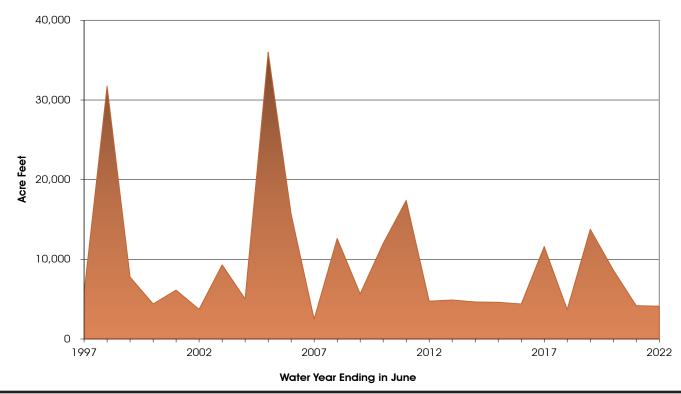
(July 1 - June 30)

This graph shows rainfall totals for Vista and the Lake Henshaw area over the past ten years.



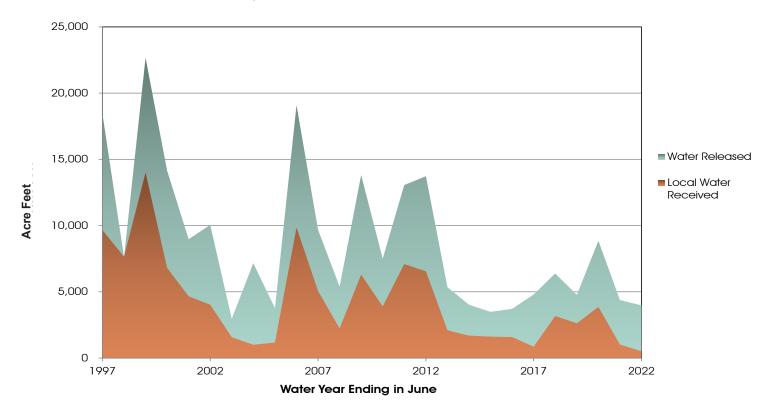
Water Stored in Lake Henshaw

Lake Henshaw's storage capacity is 51,832 acre feet. This graph shows water stored in Lake Henshaw for the past 25 years.



Water Released from Lake Henshaw versus Local Water Received

This graph compares the amounts of water released from Lake Henshaw with local water received by the District. Typically, the amount of local water received is less than the amount of water released because a portion of the released water also serves the City of Escondido and the Rincon Band of the Mission Indians.



DISTRICT FINANCIAL SUMMARY

For the Year Ended June 30, 2022



Vista Irrigation District Financial Summary For the Year Ended June 30, 2022

Below is a summary of Vista Irrigation District's financial performance for the fiscal year ended June 30, 2022. The below summary information should not be relied upon to make financial decisions. For a comprehensive representation of the financial position and results of operations of the District, please see the Annual Comprehensive Financial Report for Fiscal Year Ended June 30, 2022, which can be found on Vista Irrigation District website at https://www.vidwater.org/audited-annual-comprehensive-financial-reports.

The below summary of the District's financial statements include two components:

- Net Position
- Changes in Net Position

The Net Position table includes the District's assets, deferred outflows, liabilities and deferred inflows, with the difference reported as net position. Net position provides the basis for evaluating the capital structure of the District and assessing its liquidity and financial flexibility.

Net Position

The District's overall net position increased \$5.9 million between fiscal years 2021 and 2022 from \$133.7 to \$139.6 million, primarily due to operating income of \$6.2, as well as \$.9 million in contributed capital.

Vista Irrigation District Net Position (In Millions of Dollars)

	2022	2021
Current assets Noncurrent assets Total Assets	\$ 59.9 115.1 175.0	\$ 56.7 109.2 165.9
Deferred outflows of resources	5.3	5.9
Current liabilities Noncurrent liabilities Total Liabilities	17.0 10.6 27.6	14.7 21.0 35.7
Deferred inflows of resources	13.1	2.4
Net Position: Investment in capital assets Unrestricted Total Net Position	111.0 28.6 \$ 139.6	109.2 24.5 \$ 133.7

Vista Irrigation District Financial Summary For the Year Ended June 30, 2022

Change in Net Position

The Changes in Net Position table presents information identifying how the District's net position changed during each year. All of the year's revenues and expenses are recorded when the underlying transaction occurs, regardless of the timing of the related cash flows. Changes in net position measure the success of the District's operations during the year and determine whether the District has recovered its costs of providing water through user fees and other charges.

In fiscal year 2022, the District's operating revenues increased by 0.8% to \$54.9 million, and 97.1% of the District's operating revenues came from water sales and service charge revenues.

During fiscal year 2022, the District's operating expenses decreased 8.3% to \$48.7 million primarily due to pension income resulting from increased investment earnings in the pension plan portfolio.

Vista Irrigation District Changes in Net Position (In Millions of Dollars)

	2022	- _	2021
Operating Revenues		_	_
Water sales, net	\$ 53.4	\$	52.5
Property rentals	0.9		0.8
System fees	0.3		8.0
Other services	0.3	-	0.5
Total Operating Revenues	54.9	-	54.6
Operating Expenses	48.7	-	53.2
Operating Income	6.2	-	1.4
Nonoperating Revenues (Expenses)			
Property taxes	0.6		0.5
Investment income	(0.1)		0.1
Gain (Loss) on disposal of capital	(1.7)	_	
Total Nonoperating Revenues	(1.2)	_	0.6
Contributed Capital	0.9	_	1.4
Changes in Net Position	5.9		3.4
Total Net Position - beginning	133.7	_	130.3
Total Net Position - ending	\$ <u>139.6</u>	\$.	133.7



1391 Engineer Street Vista, CA 92081 (760) 597-3100 www.vidwater.org