



2021



ANNUAL REPORT

LINCOLN
AVENUE
WATER
COMPANY

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Lincoln Avenue Water Company

March 31, 2021

John Clairday, President
Board of Directors
Lincoln Avenue Water Company
564 W Harriet Street
Altadena, CA 91001



Dear Mr. Clairday:

On behalf of Staff and Management of Lincoln Avenue Water Company (Lincoln Avenue), I am pleased to present the 2021 Annual Report of Operations.

We entered the year with the continued challenges caused by the pandemic. As mandates and safety measures evolved, in June we were able to welcome back our full staff and resume a more normal mode of operations.

The year also began with the second driest winter season on record. California's reservoir levels and snowpack once again began to experience near record lows and in April Governor Newsom issued the first proclamation declaring a drought emergency in Northern California Counties. By October, the proclamation was expanded to include the entire state. While we received much needed rain fall this past December, drought conditions continue to persist.

As we approach Spring and Summer, it is extremely important that we urge all customers to increase their water conservation efforts now. This will be one of our main objectives in the coming months.

The company continues to seek ways to respond to the pandemic and water supply challenges. While meeting these challenges, the company was able to complete a number of Operation and Capital Improvement Projects. Major projects completed include:

- Phase I of the Olive Avenue Pipeline Project. This phase included the replacement of approximately 2,500 feet of aged pipe. The remaining watermain, service lines and paving will be completed in Phase II.
- Wapello Reservoir Support Column Replacement
- Glenrose Reservoir Wrought Iron Security Gate
- SCADA System Security Upgrade

While we welcome the success of prior years, we remain focused on the community we serve and the needs of the company. The professional staff at Lincoln Avenue remain committed to providing the highest quality and most reliable water service to customers at the most economically feasible cost.

Sincerely,
Lincoln Avenue Water Company

A handwritten signature in black ink, appearing to read "Jennifer Betancourt Torres". The signature is fluid and cursive.

Jennifer Betancourt Torres
General Manager

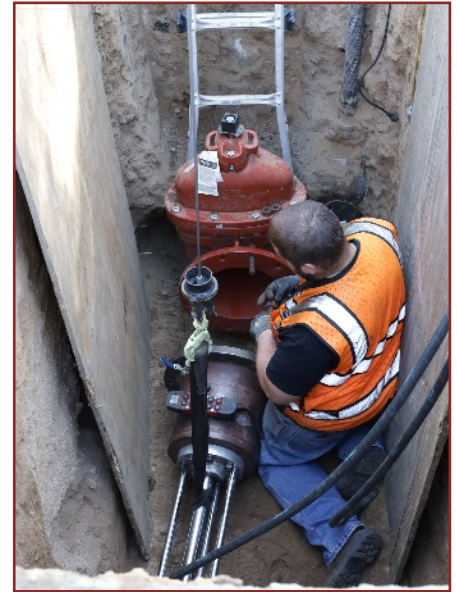
OLIVE AVENUE DUAL PIPELINE PROJECT

IN 2021 WE BEGAN THE OLIVE AVENUE DUAL PIPELINE PROJECT. THIS PROJECT INCLUDED UPGRADING THE AGED 6-INCH WATERMAIN WITH 1500 FEET OF 8-INCH STEEL PIPE. IT ALSO INCLUDED THE REPLACEMENT OF 1600 FEET OF A 10-INCH PIPE WITH NEW 12-INCH STEEL.

DURING THE FIRST PHASE, WE COMPLETED THE INSTALLATION OF 1500 FEET OF 8-INCH STEEL PIPE FROM LOMA ALTA DRIVE TO PALM STREET AND 500 FEET OF 12-INCH STEEL PIPE FROM POPPYFIELDS TO MARIGOLD.



OLIVE AVE DUAL PIPELINE PROJECT



WHILE WE ALWAYS ANTICIPATE SOME OBSTACLES WITH EVERY PROJECT, WE DEFINITELY ENCOUNTERED OUR FAIR SHARE WITH THIS PIPELINE.

FROM SMALL BOULDERS, UN-MAPPED UNDERGROUND FACILITIES TO WATER LEAKS AND SHUT-OFFS, DIGGING AND COMPACTING ON OLIVE AVENUE PROVED TO BE CHALLENGING FOR LINCOLN AVENUE AND THE SURROUNDING RESIDENTS.

WE ARE GRATEFUL FOR THE PATIENCE AND UNDERSTANDING OF THE COMMUNITY.

Wapello Reservoir Support Column Replacement

Built in 1891, our South Wapello Reservoir holds approximately 800,000 gallons of water.

During an engineering inspection multiple support columns were identified as needing replacing.



Last replaced in 1978, the existing wood columns exceeded their life expectancy by more than a decade.

Once the water was drained, it's easy to see how the exposure has affected the columns over the past 40 years.



Wapello Reservoir Support Column Replacement



The 15 foot tall wood columns were replaced in 6-inch epoxy
The new columns increase the strength and stability of this reservoir and is only one of many rehab project planned for this storage facility.



GLENROSE RESERVOIR SECURITY GATE UPGRADE



Security is always a priority when it comes to our facilities.

Several seen and unseen measures are in place at all times. The first line of protection at any facility starts with a strong security gate.



The 6 foot chain link fence topped with barbed wire certainly accomplished some security objectives; however there is always room for improvement.



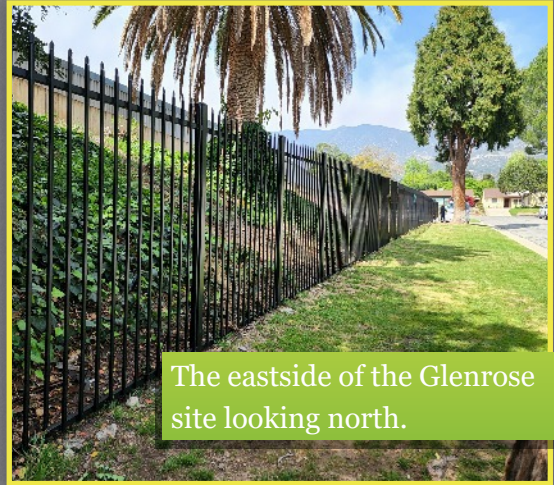
GLENROSE RESERVOIR SECURITY GATE UPGRADE



The new 7 foot high wrought iron gate improves protection and the overall look of the property.



Several of our facilities are located within the residential community. While security is essential, we never forget about aesthetics. Enhancing the area to look less industrial is always a goal.



The eastside of the Glenrose site looking north.



It was necessary to remove the overgrown ivy that covered the old fence.



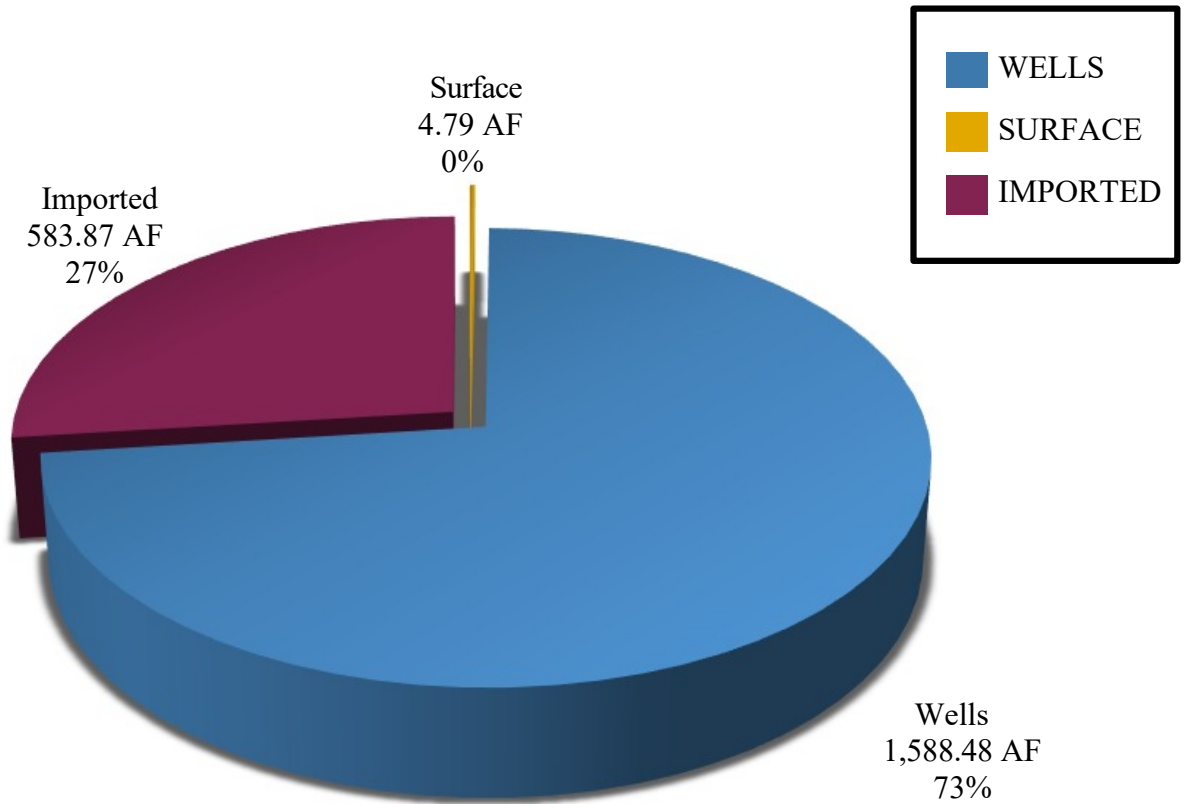
Future landscaping will help conceal our newly rehabilitated site.



*40 Years
Of Service*

Following 40 years of exemplary service, in December Maria Roxana Autran retired as the Administrative Supervisor at Lincoln Avenue Water Company. Her contributions were integral to our success and continuity. Ms. Autran's hard work, commitment and dedication will always be valued and remembered.

2021 WATER PRODUCTION BY SOURCE



Wells	1,588.48 AF
Surface	4.79 AF
Imported	583.87 AF
Total Production	2,352.40 AF

**WATER SALES AND PRODUCTION FOR 2021
IN ACRE FEET**

MONTH	IMPORTED WATER PURCHASE	WELL PRODUCTION	LOCAL SURFACE WATER	TOTAL PRODUCTION	LEASE WATER DELIVERY	SALES	RAIN FALL (INCHES)
January	0	142.77	0	142.77	0	126.24	3.11
February	0	131.34	1.50	132.84	0	137.44	0.16
March	0	144.01	3.29	147.30	0	124.57	1.86
April	30.19	145.42	0	175.61	0	154.08	0.38
May	39.81	161.04	0	200.85	0	180.66	0.33
June	130.49	92.83	0	223.32	0	215.16	0
July	152.34	87.07	0	239.41	0	212.73	0.38
August	107.60	129.77	0	237.37	0	199.55	0.04
September	64.55	145.12	0	209.67	0	219.48	0
October	29.32	142.62	0	171.94	0	182.10	2.27
November	20.62	144.27	0	164.89	0	146.27	0
December	8.95	122.22	0	131.17	0	142.79	15.29
TOTAL	583.87	1588.48	4.79	2177.14	0	2041.07	23.82

PUMPED FROM WELLS

WELL #3	0.14
WELL #5	238.84
WELL #6	1349.50
TOTAL	<u>1588.48</u>

Total Production	2177.14
Lease Water Delivery	<u>0</u>
Production for Lincoln	2177.14
Total Sales	<u>-2041.07</u>
Subtotal	136.07
Treatment Plant Operation & Water Quality Control	<u>-39.71</u>
Non-Sales Production	96.36 or 4.5%

Non-Sales Production is water used for routine water quality sampling, evaporation from reservoirs, irrigating at Company sites, water quality flushing, pipeline ditch compaction, fire fighting, fire training, leaks on mains, etc.

The Company's well production consists of 567 acre feet annual decreed right plus spread credit from mountain run-off, and available leased groundwater rights.

ENERGY COST BY WELLS AND PUMPING STATIONS

2017 - 2021

PUMPING STATIONS	2021 ANNUAL		2020 ANNUAL		2019 ANNUAL		2018 ANNUAL		2017 ANNUAL	
	ENERGY COST	COST/AF	ENERGY COST	COST/AF	ENERGY COST	COST/AF	ENERGY COST	COST/AF	ENERGY COST	COST/AF
Well #3 (Pump to Main Plant)	2,030.89		1,798.08		493.40		1,104.99		22,453.11	
	N/A		N/A		N/A		84.35		75.47	
Well #5 (Pump to Main Plant)	18,707.94		2,797.34		17,302.41		5,544.79		11,690.17	
	78.33		69.62		68.54		65.23		66.73	
Well #6 (Pump to Main Plant)	164,123.84		188,913.89		110,599.19		155,201.39		68,304.34	
	121.62		93.14		77.24		80.85		100.21	
Main Plant (Pump to Glenrose Resv.)	156,380.73		146,873.32		99,378.19		116,716.73		95,843.33	
	71.76		67.21		55.27		54.32		46.33	
Glenrose Reservoir (Pump to Wapello Resv.)	58,298.39		46,251.85		34,375.46		35,405.63		39,256.78	
	59.41		48.75		36.23		32.23		38.47	
Wapello Reservoir (Pump to Ware & La Vina & Swigart Resv.)	61,718.15		49,713.42		39,396.18		44,594.31		43,256.69	
	70.72		61.00		53.91		51.39		53.81	
Ware Reservoir (Pump to Coulter Resv.)	5738.72*		2901.89*		704.18*		1284.19*		4,153.23	
	27.45		20.41		6.10		6.28		23.98	
TOTAL ANNUAL ENERGY COST	\$466,998.66		\$439,249.79		\$302,249.01		\$359,852.03		\$284,962.65	

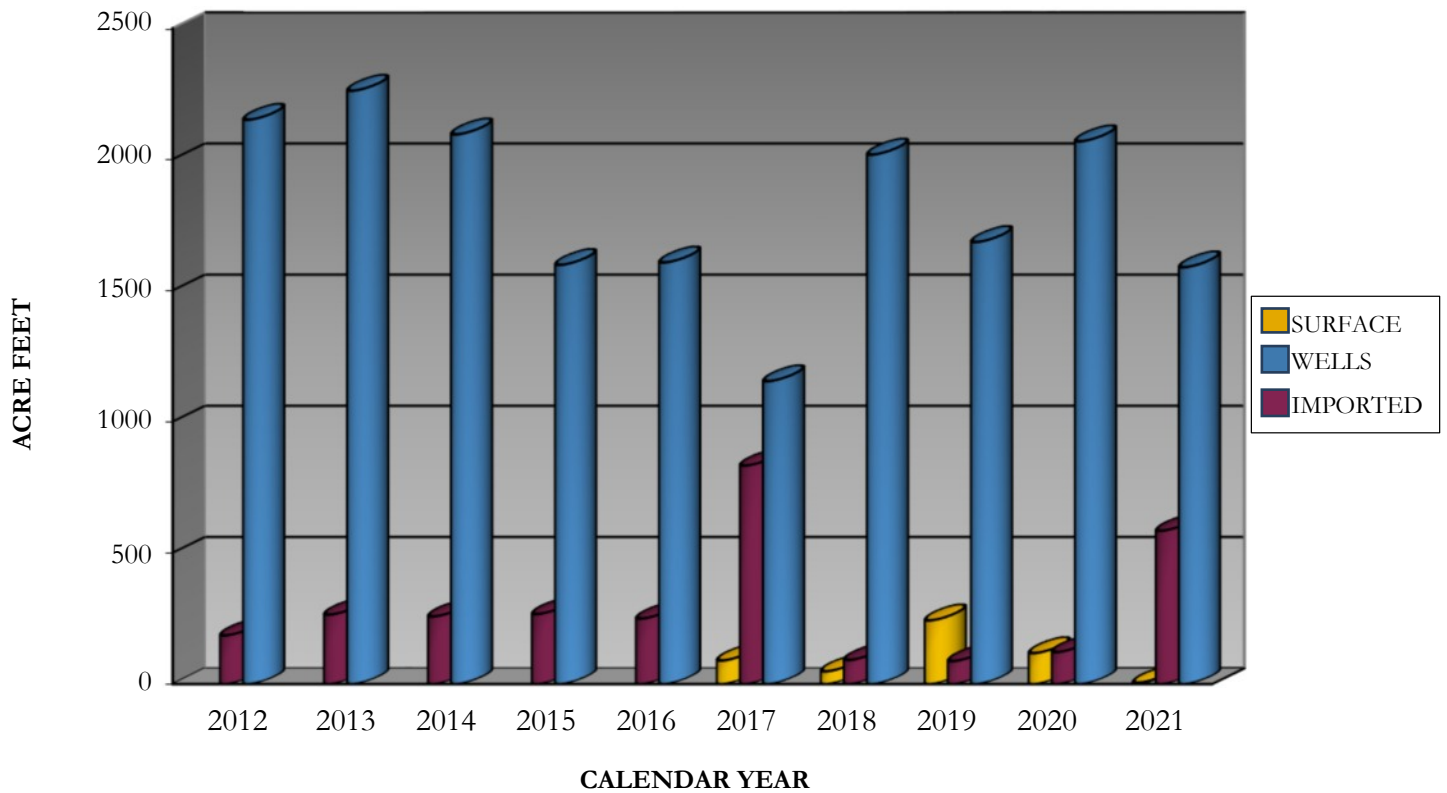
*Total cost after applying Solar Energy Generation Credit.

ANNUAL PRODUCTION IN ACRE FEET
2012 - 2021

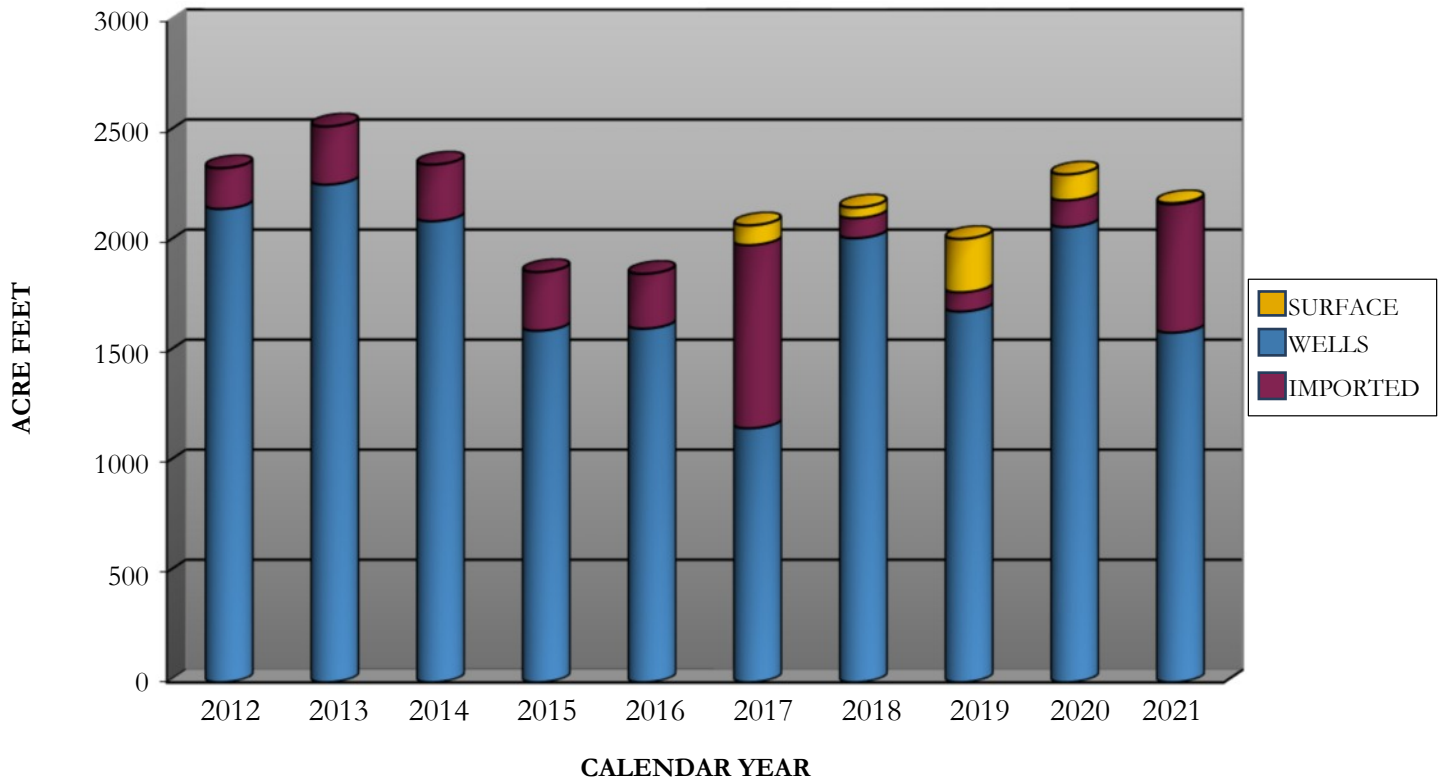
CALENDAR YEAR	WELL #3	WELL #5	WELL #6	SURFACE	IMPORTED	TOTAL PRODUCTION	LESS LEASE WATER DELIVERY	ACTUAL PRODUCTION (LINCOLN)	RAINFALL (INCHES)
2021	0.14	238.84	1349.50	1349.5	583.87	2177.14	0	2177.14	23.82
2020	0.04	40.18	2028.31	117.66	121.73	2307.92	119.76	2188.16	15.00
2019	0.27	252.43	1431.90	242.43	87.51	2014.54	0	2014.54	36.16
2018	13.10	85.00	1919.72	48.23	91.55	2157.61	0	2157.61	15.99
2017	297.50	175.19	681.60	89.49	832.43	2076.21	0	2076.21	19.47
2016	597.73	1008.99		0	249.26	1855.98	0	1855.98	18.60
2015	599.02	998.41		0	266.71	1864.14	0	1864.14	10.22
2014	944.15	1150.76		0	257.49	2352.40	0	2352.40	14.88
2013	989.88	1271.38		0	264.35	2525.61	96.39	2429.22	10.13
2012	691.28	1459.58		0	185.33	2336.19	0	2336.19	18.20

Note: Well 6 began operation in August 2017

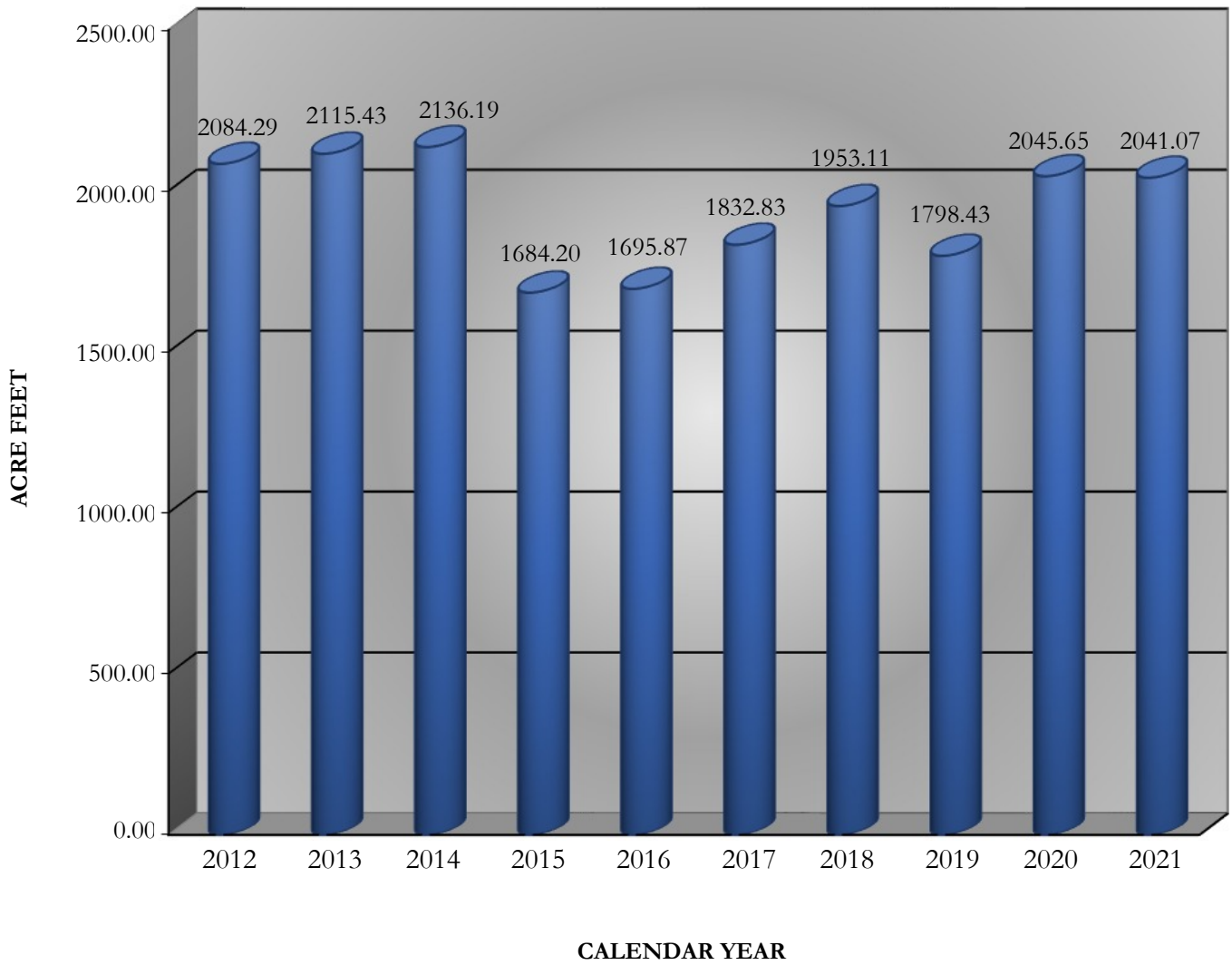
ANNUAL PRODUCTION BY SOURCE - SURFACE, WELLS & IMPORTED



TOTAL ANNUAL PRODUCTION - SURFACE, WELLS & IMPORTED



**ANNUAL WATER SALES IN ACRE FEET
2012 - 2021**



METERS AND SERVICE CONNECTIONS

New service connections installed in 2021	1
Meters replaced in 2021	580
Distribution system service connections in 2020	4477
2021 average consumption per meter per day - Residential	367 gal.
2021 average consumption per meter per day - Commercial	1568 gal.
2021 average consumption per capita per day - Residential	105 gal.

NUMBER OF METERS BY SIZE

5/8"	1985
3/4"	2016
1"	368
1½"	28
2"	71
3"	6
4"	3
TOTAL	4477

WELL PRODUCTION CAPACITY

Well #3 (drilled 1924)	900 GPM
Well #5 (drilled 1971)	1100 GPM
Well #6 (drilled 2016)	2000 GPM

DISTRIBUTION LINES IN LINEAR FEET

Distribution System	288,323
Pumping Lines	18,128
TOTAL	306,451 or 58 miles

ANNUAL CANYON WATER BASIN RECHARGE IN ACRE FEET

CANYON WATER BASIN RECHARGE

Swigart	104.03
El Prieto	14.18
Millard/La Vina*	109.91
TOTAL	228.12

All canyon water that flows to the spreading basin is metered with an allowable extraction the following year based on Raymond Basin Management Board percolation calculations.

*Maximum allowable spread credit for Millard/La Vina is 0.65 CFS.

WATER QUALITY



California State Water Resources Control Board, Division of Drinking Water (DDW) requires Lincoln Avenue Water Company to take distribution system water quality samples which include bacteriological, total trihalomethanes, volatile organic compounds, general physical, general mineral and inorganics, along with other scheduled analyses. Lincoln's system was in compliance with DDW water quality standards at all times during 2021.

BOARD OF DIRECTORS FOR THE YEAR 2021



JOHN CLAIRDAY

PRESIDENT

John Clairday, a graduate of the University of Southern California and Loyola Law School, has served on Lincoln Avenue's Board since 1993. Mr. Clairday retired, after 27 years, from the Metropolitan Water District of Southern California, where he served as Chief Deputy General Counsel within the legal department, and as manager of the District's Real Estate Group. In addition to serving as President of Lincoln Avenue's Board, Mr. Clairday is a member of the San Gabriel Valley Habitat for Humanity Board of Directors.



ROBERT J. GOMPERZ

VICE PRESIDENT

Robert J. Gomperz has been a Board member since 1990. He is retired from the Metropolitan Water District of Southern California where he coordinated various communications programs to the public about Metropolitan's programs and policies. Mr. Gomperz has been a public relations professional for more than five decades. He has a degree in Management from the University of Redlands. Prior to joining Metropolitan, he was Pasadena City College's Public Information Director for 12 years. Mr. Gomperz also represented West Altadena for 10 years as a Foothill Municipal Water District director and as a Southern California region director on the Association of California Water Agencies Board.



LAWRENCE W. DUNCAN

1ST VICE PRESIDENT

Lawrence W. Duncan is a retired textile industry supervisor and a 53-year Altadena resident. Mr. Duncan is entering his 21st year as a member of the Lincoln Board and also serves as the Company's Community Liaison Officer. He is a longtime active member of the Southern California Water Utilities Association. In 2019 the Association honored Mr. Duncan with the prestigious Doctor of Water Award.



DIEGO FERNANDEZ

TREASURER

Diego Fernandez is an Operating Partner with the El Cholo Restaurant Management Group LLC. He started work with El Cholo at the age of 18 and in 1994 he was promoted to the position of General Manager. In 2000 he became an Operating Partner. As a partner, Diego has been involved with the opening of El Cholo-Pasadena, Rose City Catering and Hart Pony Baseball & Softball. Mr. Fernandez brings a broad array of business and management skills to Lincoln Avenue. Mr. Fernandez has lived in Altadena for the past 16 years and was appointed to the Board in 2014.



VICKIE THOMPSON

ASSISTANT SECRETARY

Vickie Thompson graduated from Humboldt State College and went to work at the City of Hope - Beckman Research Institute in Duarte. She retired after working there for 40 years. She started work as a Research Associate, became the Manager of the Research Storeroom, and retired as the Manager of Purchasing. She has lived in Altadena since 1995 and enjoys walking with her husband in the neighborhood and near-by foothills. She was appointed to the Board in November 2020.

Office Staff

**Maria
Roxanna
Autran**

**Years of
Service
40**



Office Supervisor
oversees Bookkeeping/Accounting
and all administrative compliance.

**Benjamin
Bowen**

**Years of
Service
3**



Water Quality Coordinator
and Administrative Assistant
oversees all areas of water quality compliance.

**Wendy
Childs**

**Years of
Service
14**



Customer Service Representative,
Water Stock Clerk and
Water Conservation Coordinator

**Jesus
Bugarin**

**Years of
Service
11**



Customer Service Representative
and Administrative Assistant

Field Staff



Name - Title - Years of Service

Back Row:

Jeremy Rogers - Water System Operator - 4 years

John Earnest - Water System Operator - 2 year

Michael Cotter - Field Supervisor - 18 years

Andres Estrada - Water System Operator - >1 year

Front Row:

Justin LaPoint - Water System Operator - >1 year

Dave Castillo - Water System Operator - 7 years

Jack Harms - Senior Water System Operator - 21 years

Not Pictured Above:

Asia Smith - Field Supervisor - 33 years

