



### **Guests Present**

Elise Nguyen	CCWQ
Paulina Pinto	CCWQ
Gil Cruz	CCWQ
AJ Rodrigues	CCWRD
Erik Anderson	CCWRD
Erik Dickenson	SNWA
Dan Gerrity	SNWA
Kimberly Frainch	SNHD
Dan Isler	SNHD

#### **1. CALL TO ORDER**

The Sewage and Wastewater Advisory Committee (SWAC) meeting was called to order by Chair Dan Fischer, Clark County Water Reclamation District at 9:01 a.m. It was confirmed that the meeting was properly noticed and posted in accordance with the Open Meeting Law.

#### **2. COMMENTS BY THE GENERAL PUBLIC - None**

#### **3. APPROVAL OF THE MINUTES OF THE MEETING OF AUGUST 2, 2023**

Brian Carlson moved and Alan Wolfley seconded to accept the August 2, 2023 minutes. The motion was unanimously approved.

#### **4. APPROVAL OF AGENDA**

Charles Trushel moved and Brian Carlson seconded to approve the agenda. The motion was unanimously approved.

#### **5. WASTEWATER SURVEILLANCE AND THE SOUTHERN NEVADA HEALTH DISTRICT**

#### **6. PRESENTATION: PFAS SOURCES IN THE LAS VEGAS WASH (SNWA)**

#### **7. DISCUSSION OF QUARTERLY FLOW REPORT**

The group discussed the flow report for the third quarter of 2023:

- The report was modified so that the Las Vegas Wash discharge are the numbers that are being reported by the wastewater agencies.

#### **8. MEMBER UPDATES**

##### **A. Moapa Valley Water District**

- Nothing to report.

##### **B. Las Vegas Valley Water District**

- Staff is reviewing the water quality benefits of the existing Las Vegas Wash weirs to evaluate the feasibility of constructing additional weirs in the Lower Wash, which are being impacted by increasing costs.

##### **C. Boulder City**

- Nothing to report.

##### **D. Virgin Valley Water District**

- N/A

#### **E. City of Mesquite**

- N/A

#### **F. City of Las Vegas**

- O&M Updates:
  - N/A
- CIP Updates:
  - Filtration building rehabilitation project is nearly complete. Remaining work, such as replacing the electrical switch gear and MCCs, will require the building being taken offline. Anticipate the building going offline in mid-November. Additional samples will be collected while the building is offline.
  - Demolition of the process air blowers is going to start soon. Phase I will begin soon after and the new turbo air blower will be installed. Phase II of the project will install three additional new high megawatt turbo blowers. Phase II will go out for bid in early 2024.
  - Facility plan for the WPCF will be reviewed and updated starting in 2024.
  - The following projects are in design:
    - Dewatering building rehabilitation is at 80% design.
    - Headworks rehabilitation is at 30% design.
    - Lab rehabilitation and expansion project is going into design.

#### **G. Clark County Water Reclamation District**

- Collection System Updates:
  - Construction material cost increases and supply chain issues are continuing to delay scheduled construction projects.
- The Flamingo Plant Updates:
  - Convening a Citizens Advisory Committee to discuss a rate increase to address the rising costs of on-going capital improvement projects.
  - Plant expansion is on-going.
    - Construction of three new primary clarifiers and the headworks facility is on-going.
    - Construction of three new secondary trains for biological nutrient removal is on-going.
    - Construction of new sludge thickeners to produce VFAs is on-going.

#### **H. City of North Las Vegas**

- Construction of the flow equalization basin is on-going; project is expected to be complete in early 2024.
- Construction of a septic station is on-going.
- Phase II of the membrane replacement project has been delayed; project is scheduled to begin in mid-December.
- Approaching the end of the TMDL period, which means that repairs and maintenance to the bioreactors and membranes will begin soon. The parts will be taken offline for maintenance, cleaning and inspections.

#### **I. City of Henderson**

- Completed the oxidation ditches project, which removed 485 tons of grit from a single ditch.
- Phase 4 project to expand the capacity of the activated sludge process by 12 MGD is at 100% design. The project is currently in GMP negotiations.

- Factory testing the improvements to the UV system (third channel) are set to begin next week.
- Cadence Lift Station project is in development. The de-watering process is underway; excavation is expected to begin in approximately two months.

**J. Clark County**

- New MS4 Permit is expected to go out for public comment soon and will be issued early next year.
- Revised Selenium Standards became state law last December. Awaiting EPA final approval.

**9. MEMBER VACANCIES**

- A. Virgin Valley Water District – 1 member vacancy
- B. City of Las Vegas – 2 member vacancies

**10. COMMENTS BY THE GENERAL PUBLIC - None**

**11. SCHEDULE NEXT MEETING**

The next meeting is scheduled for February 7, 2024 at 9:00 am. A meeting invite will be sent out.

**12. ADJOURNMENT**

The meeting was adjourned at 11:02 am.

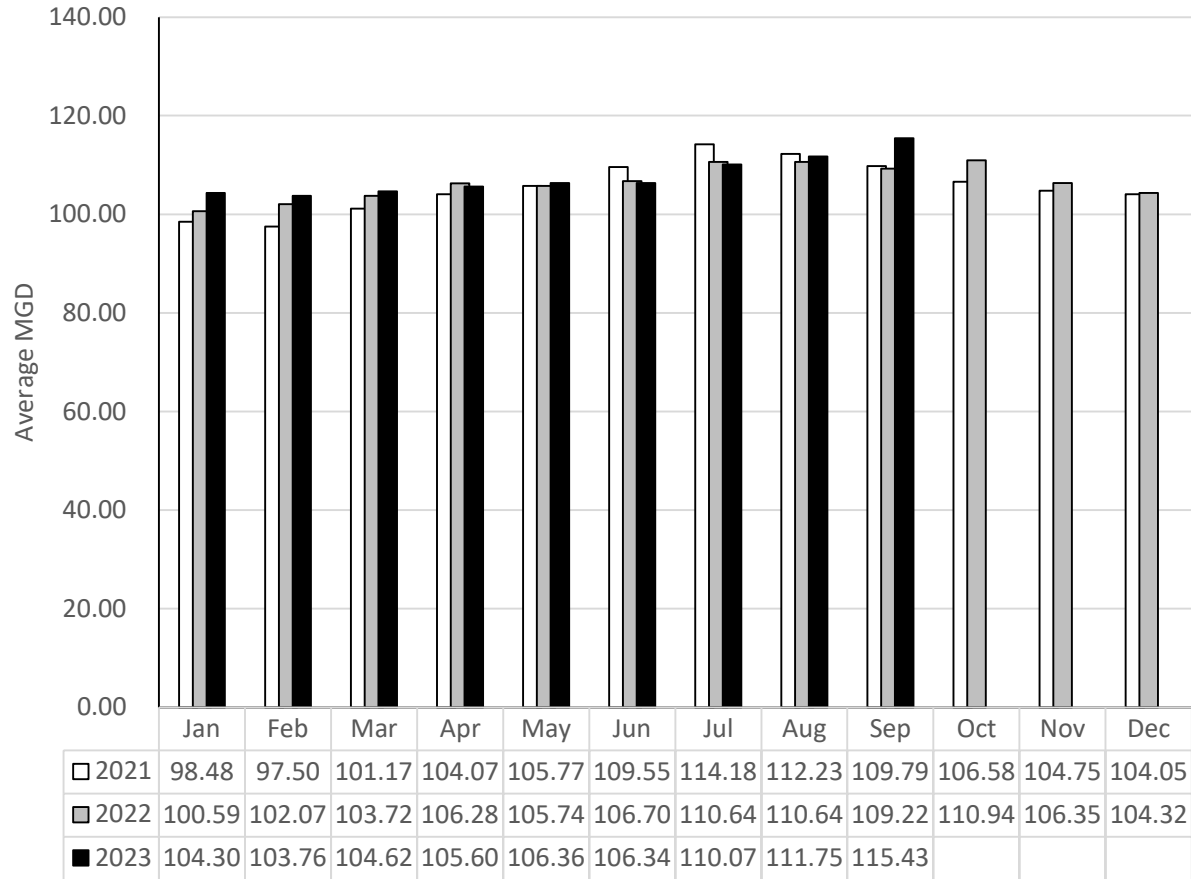
2023  
3<sup>rd</sup> Quarter Flow Report For  
Clark County Sewage And  
Wastewater Advisory  
Committee  
(SWAC)

October 31, 2023

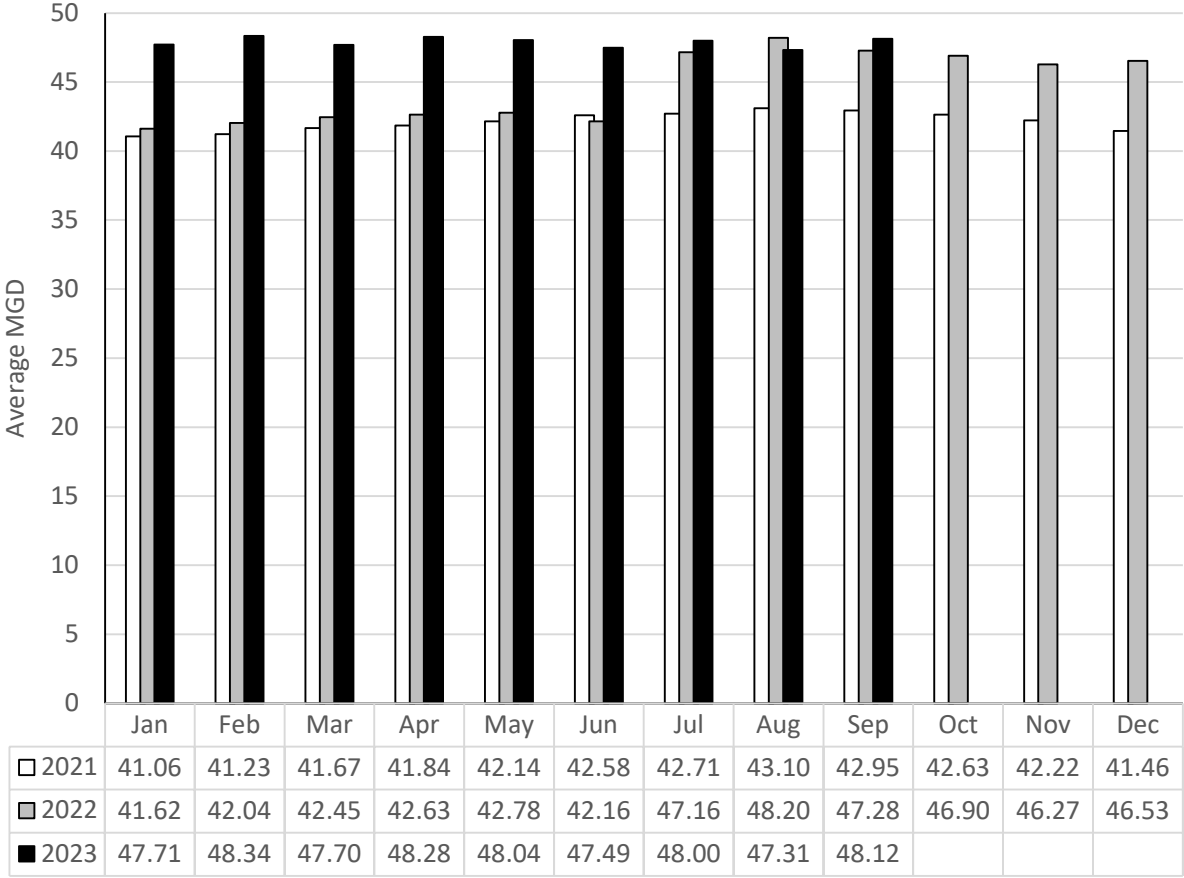
# Wastewater Flows

2021 through 2023

# Clark County Water Reclamation District Wastewater Flows

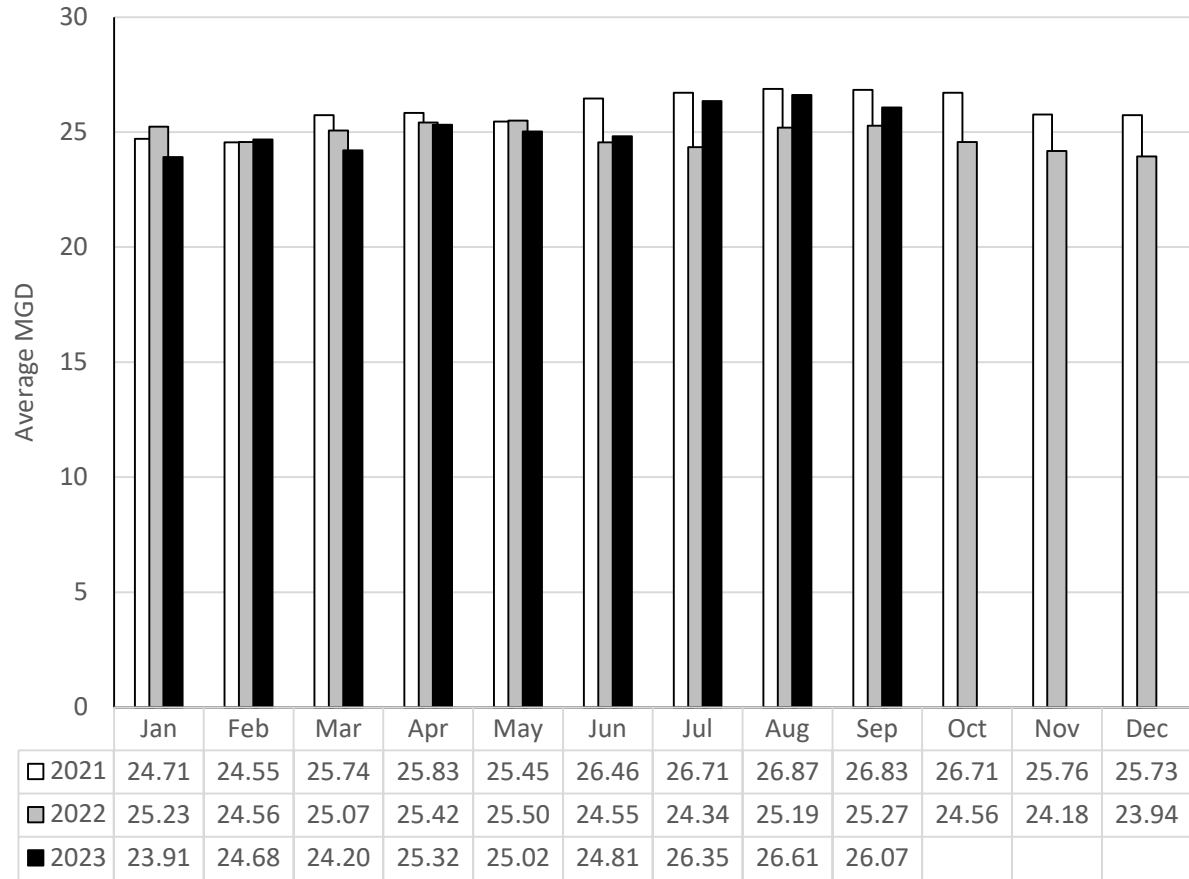


# City of Las Vegas Wastewater Flows

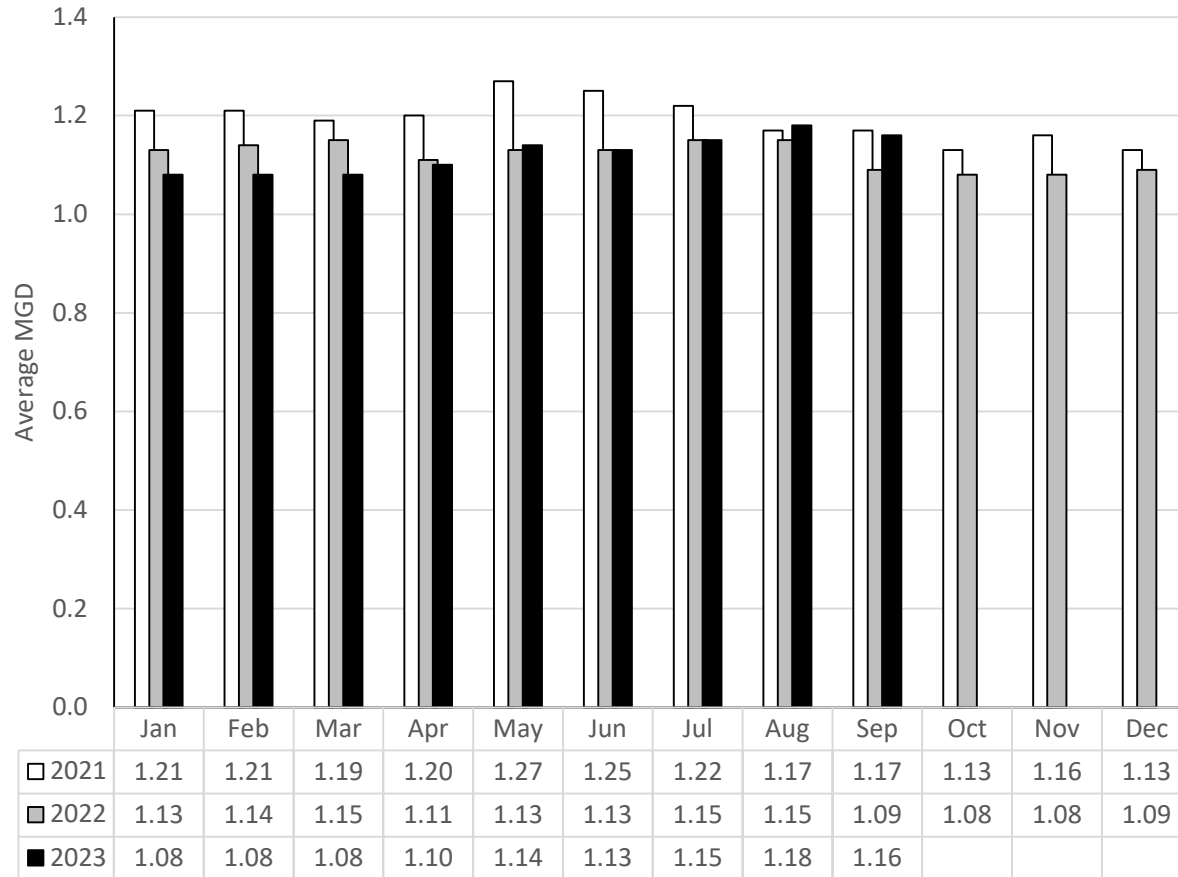




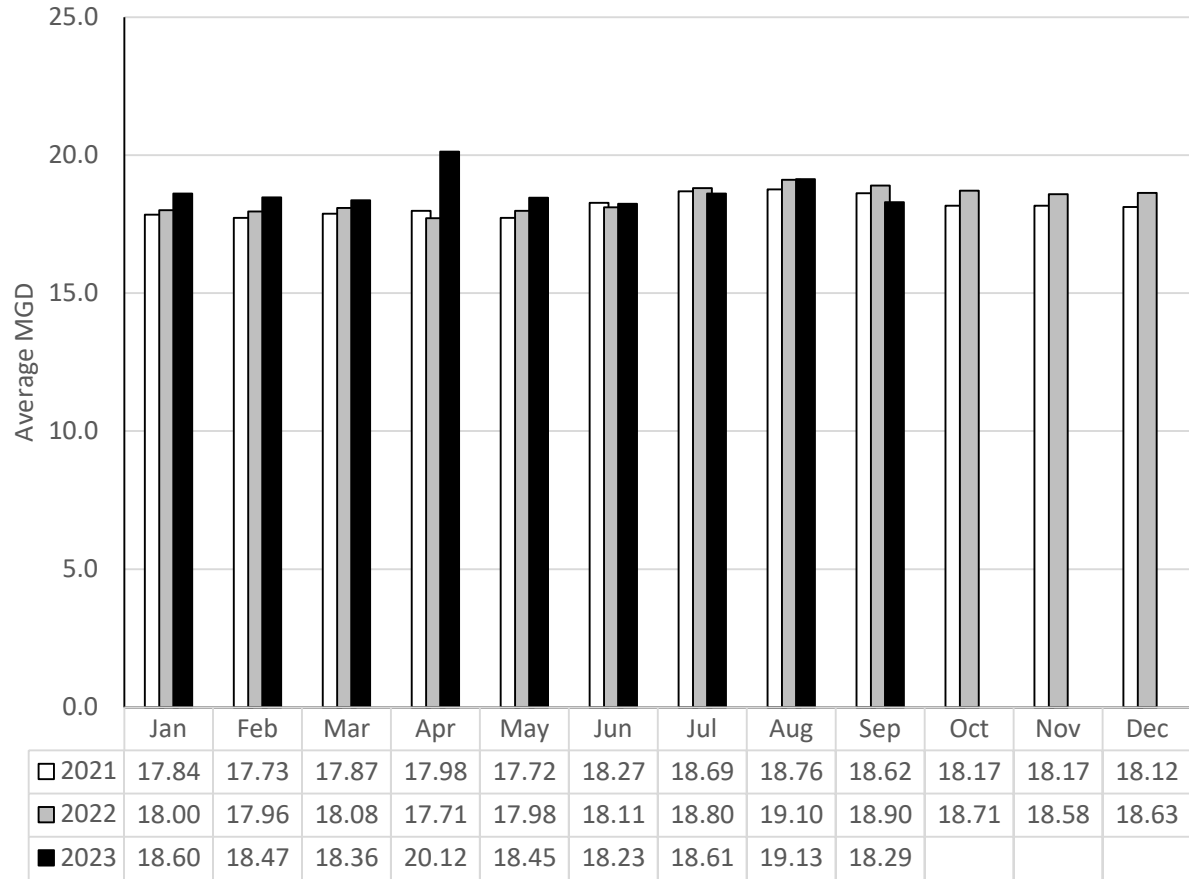
# City of Henderson Wastewater Flows



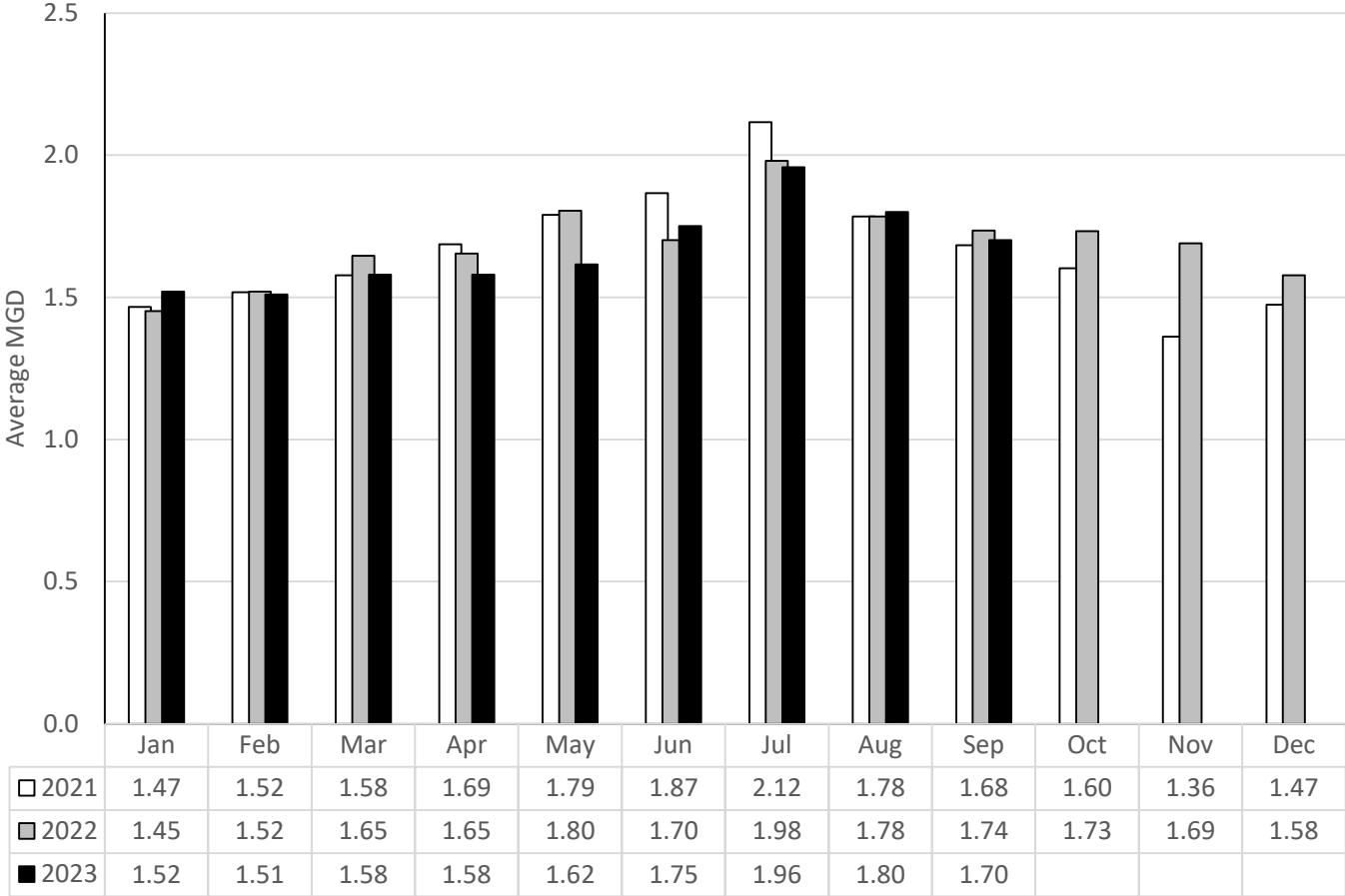
# Boulder City Wastewater Flows



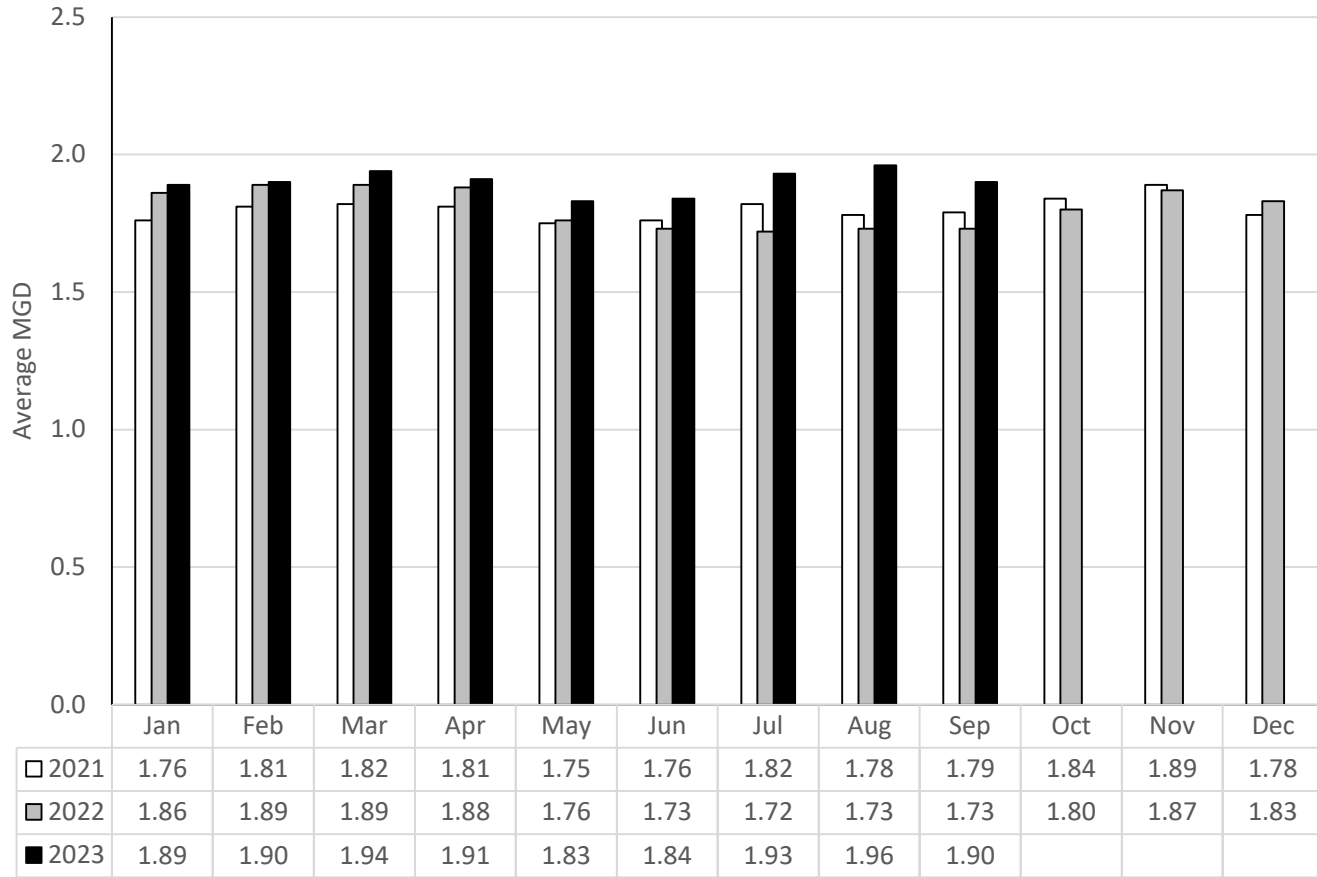
# City of North Las Vegas Wastewater Flows



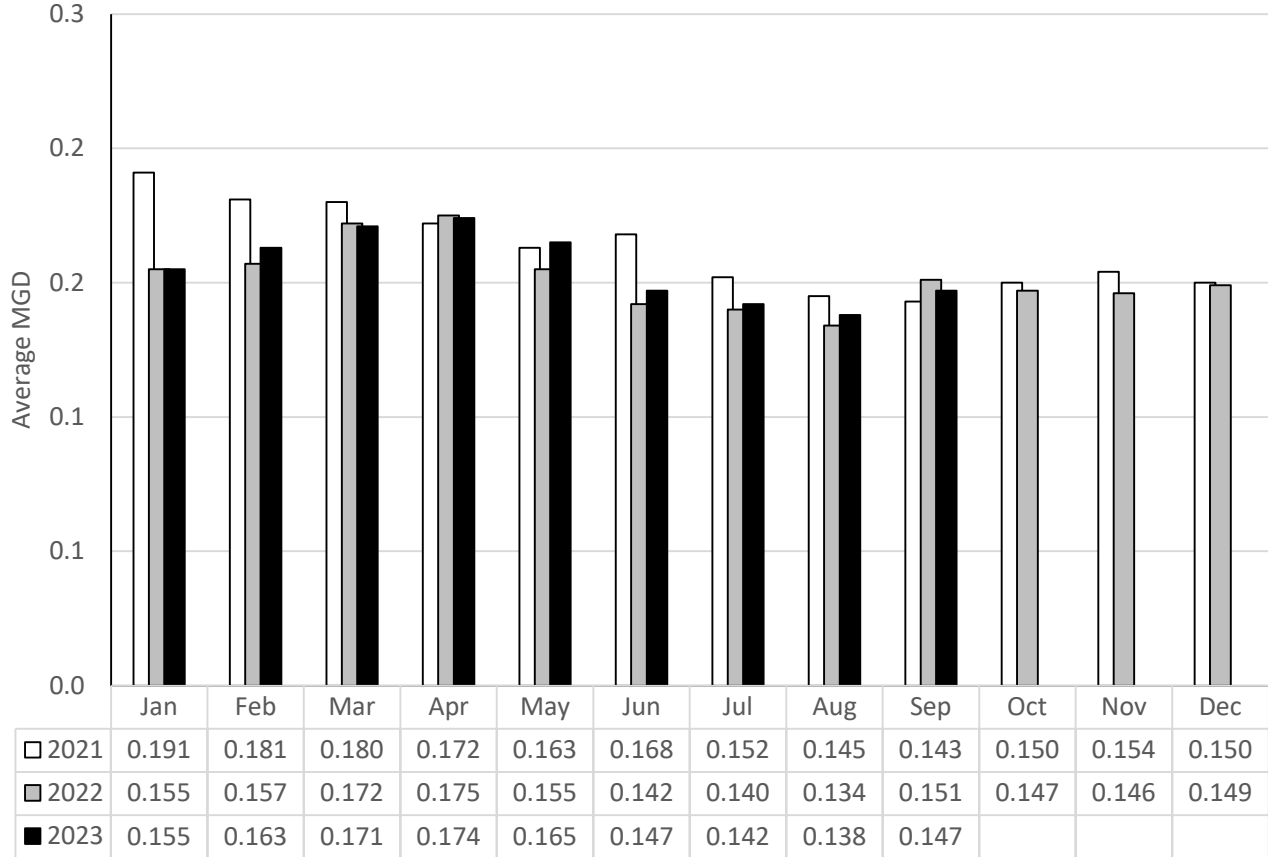
# Laughlin Wastewater Flows



## City of Mesquite Wastewater Flows



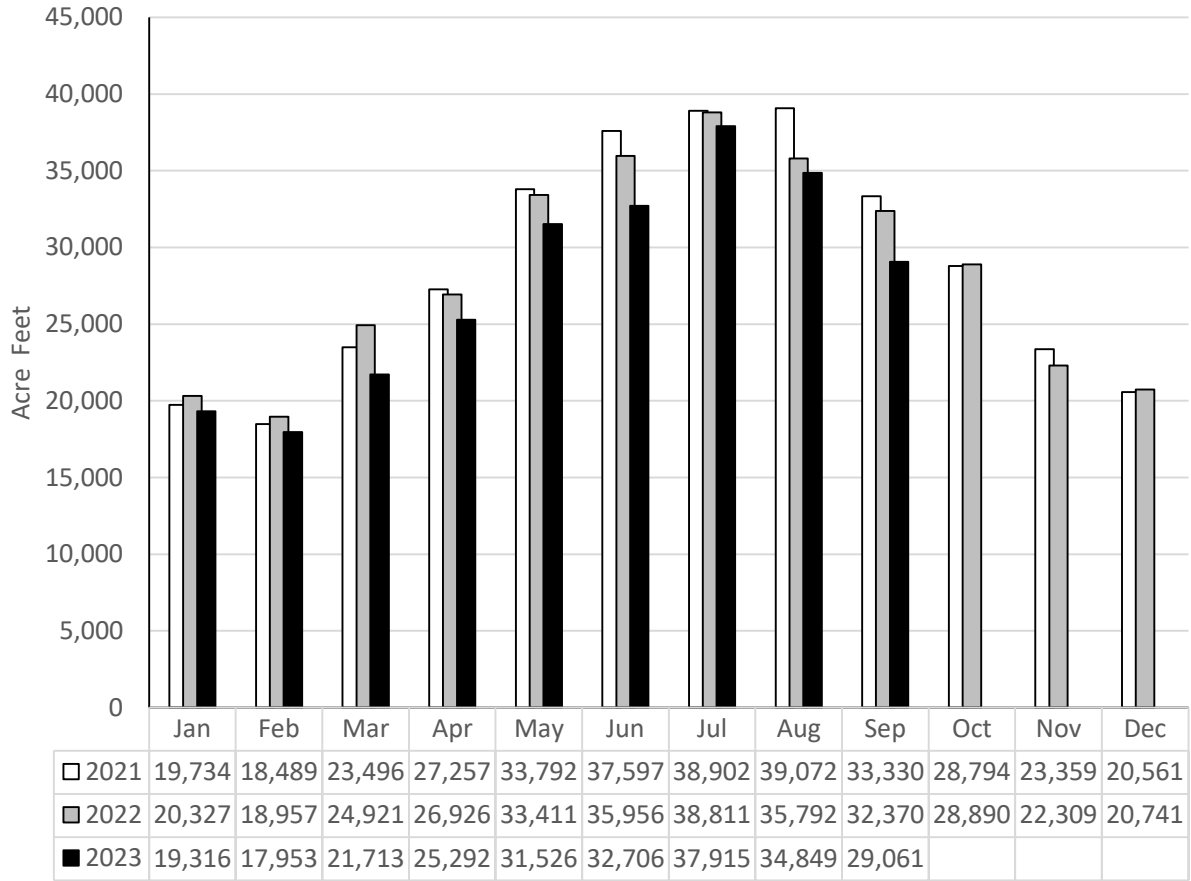
# Moapa Wastewater Flows



# Water Production

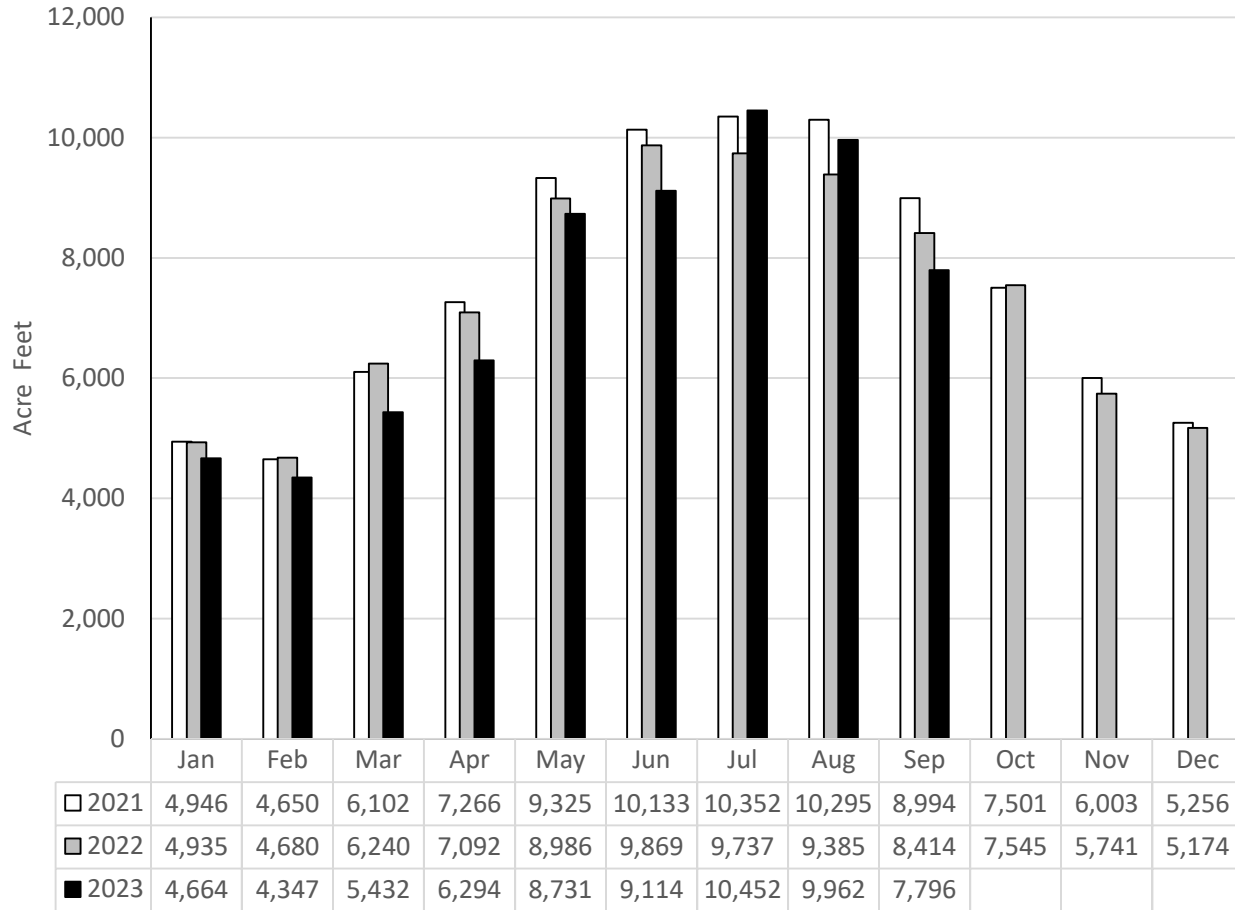
## 2021 through 2023

# Las Vegas Valley Water District Water Production

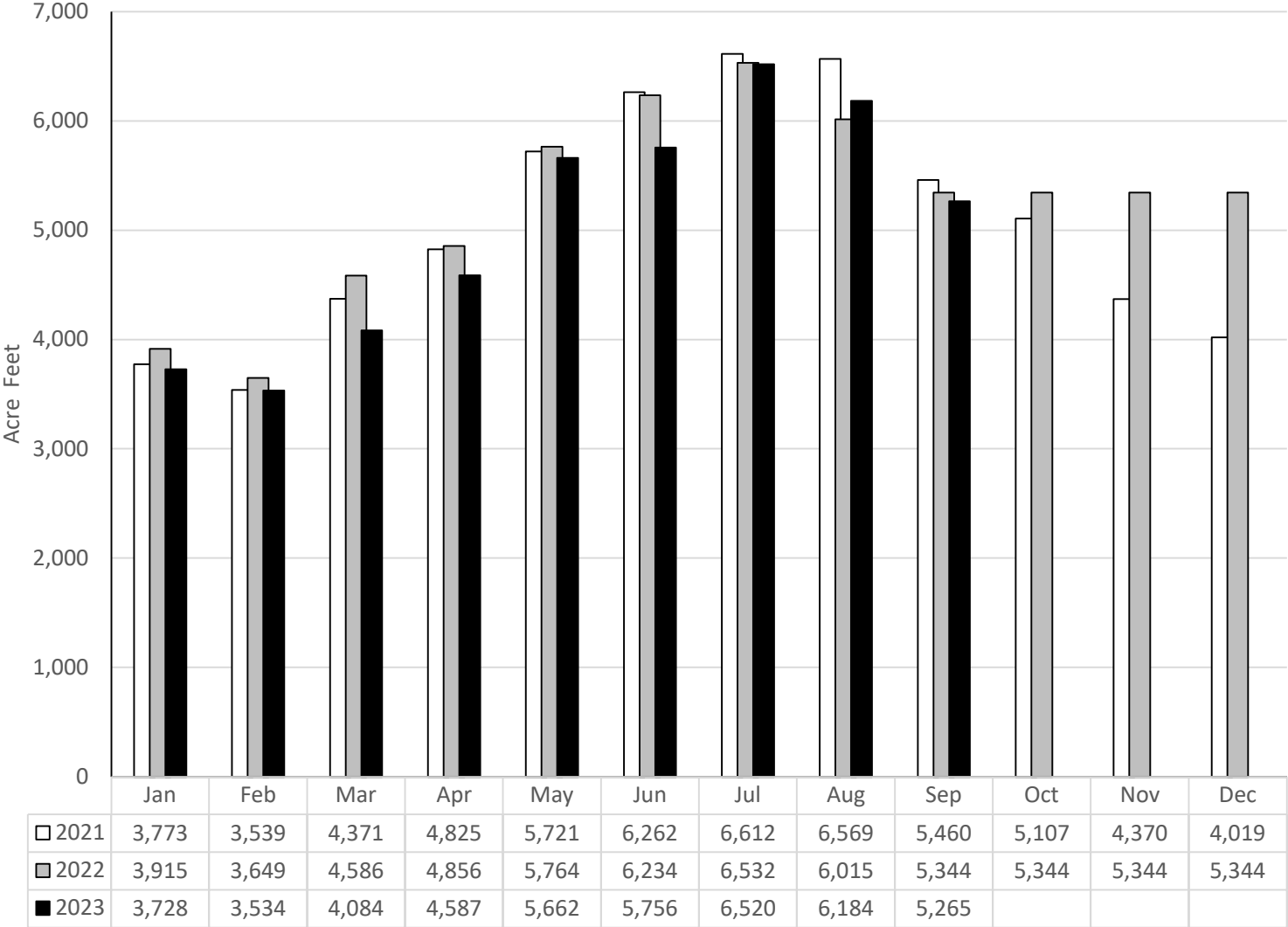




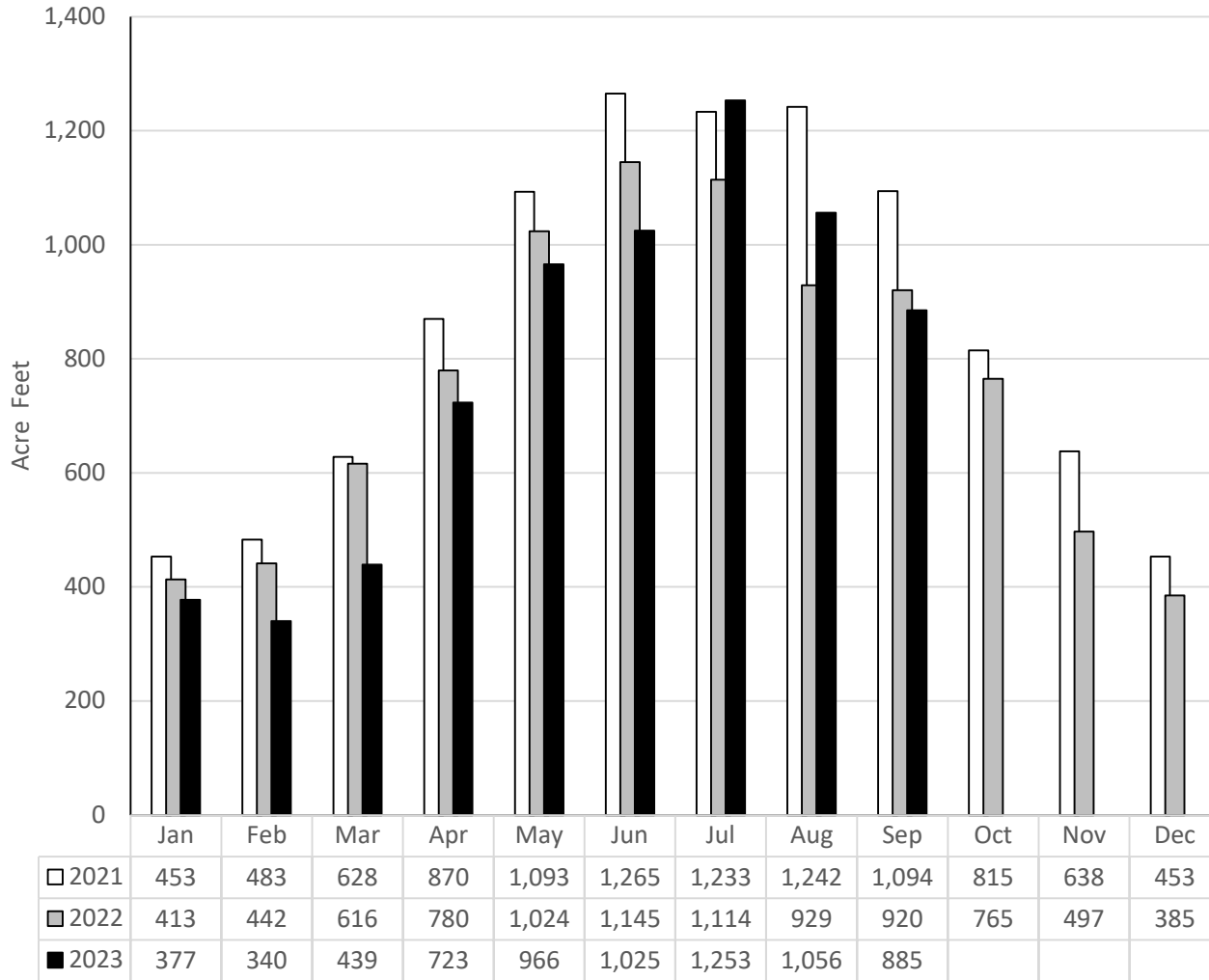
# City of Henderson Water Production



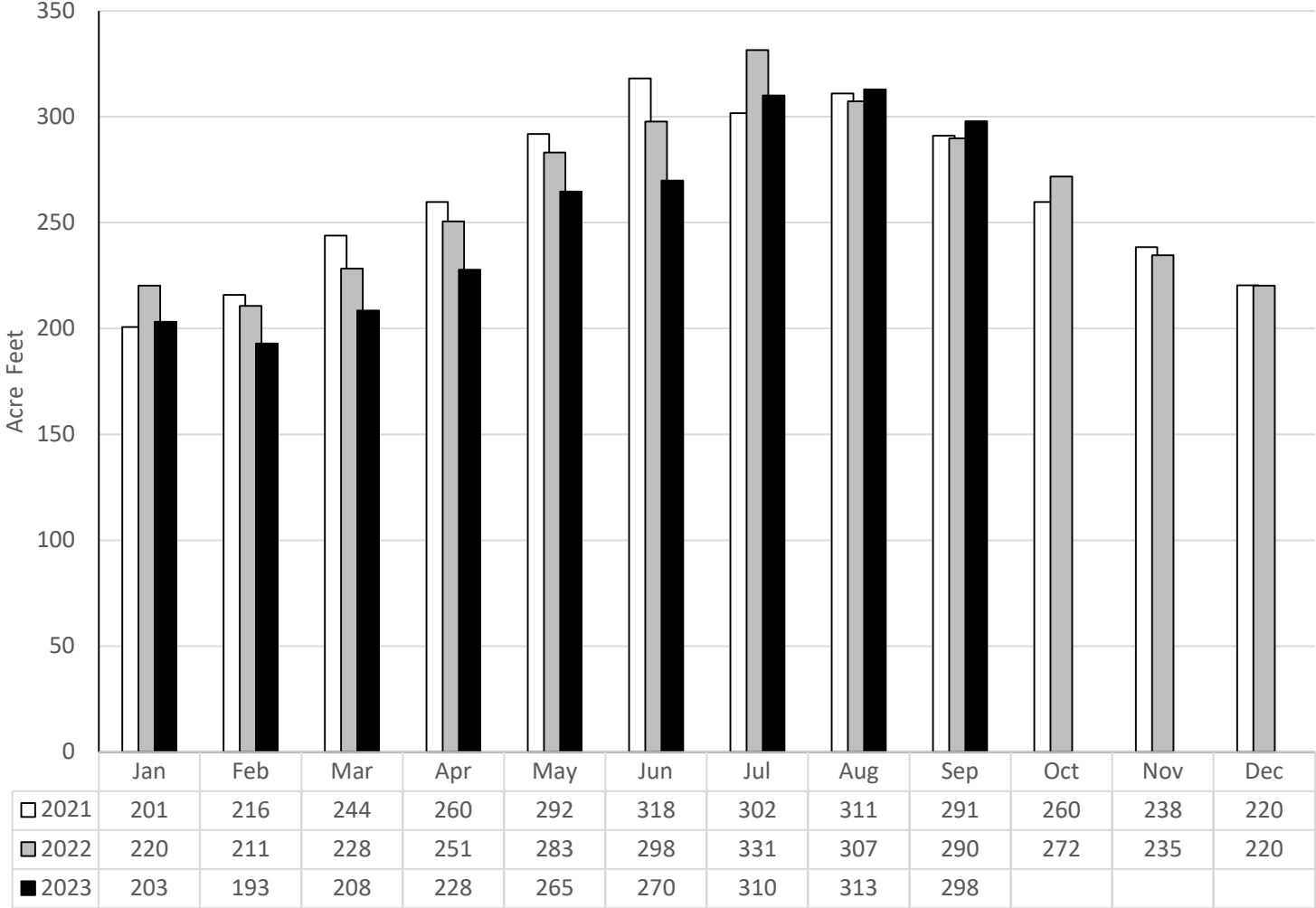
# City of North Las Vegas Water Production



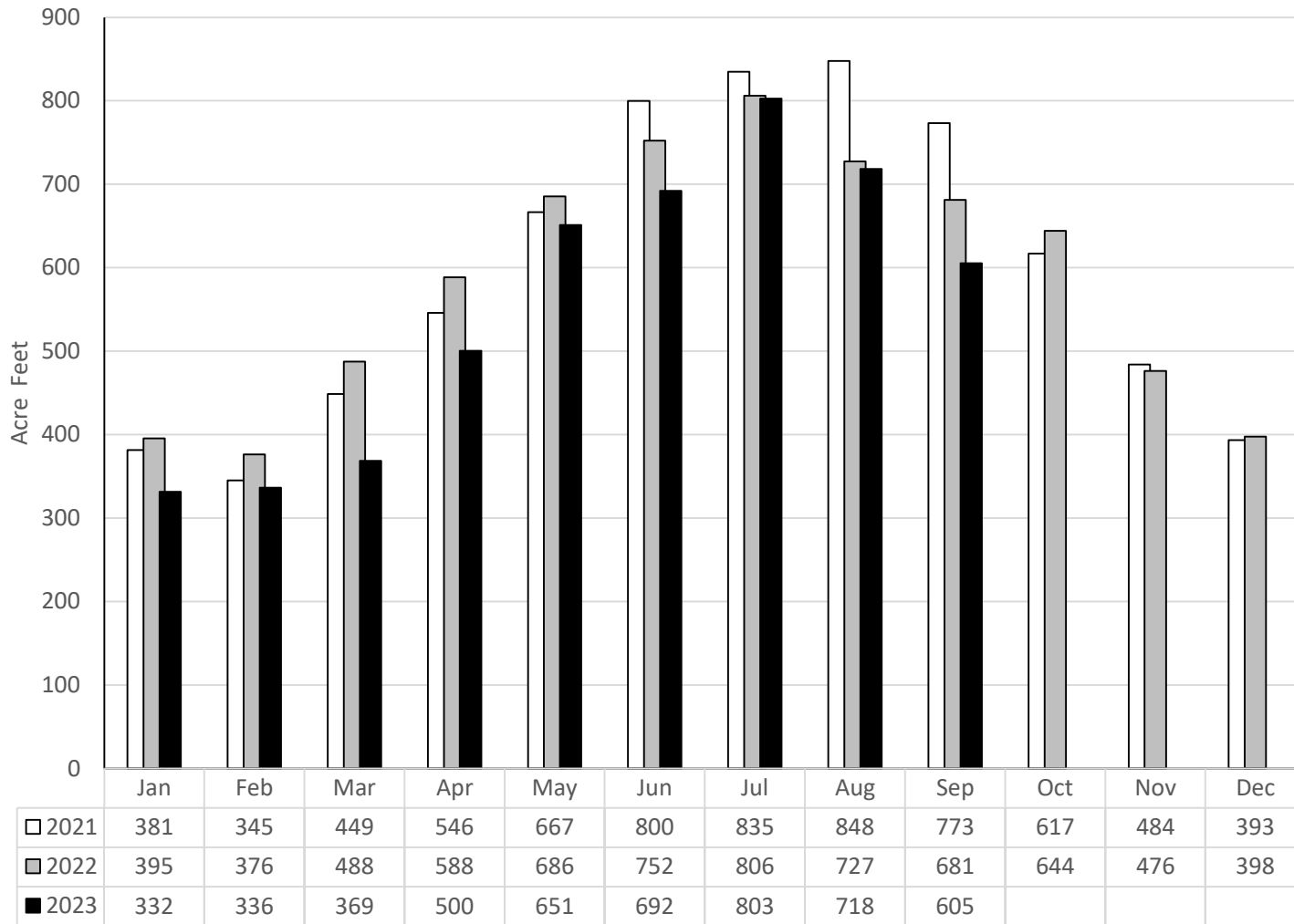
# Boulder City Water Production



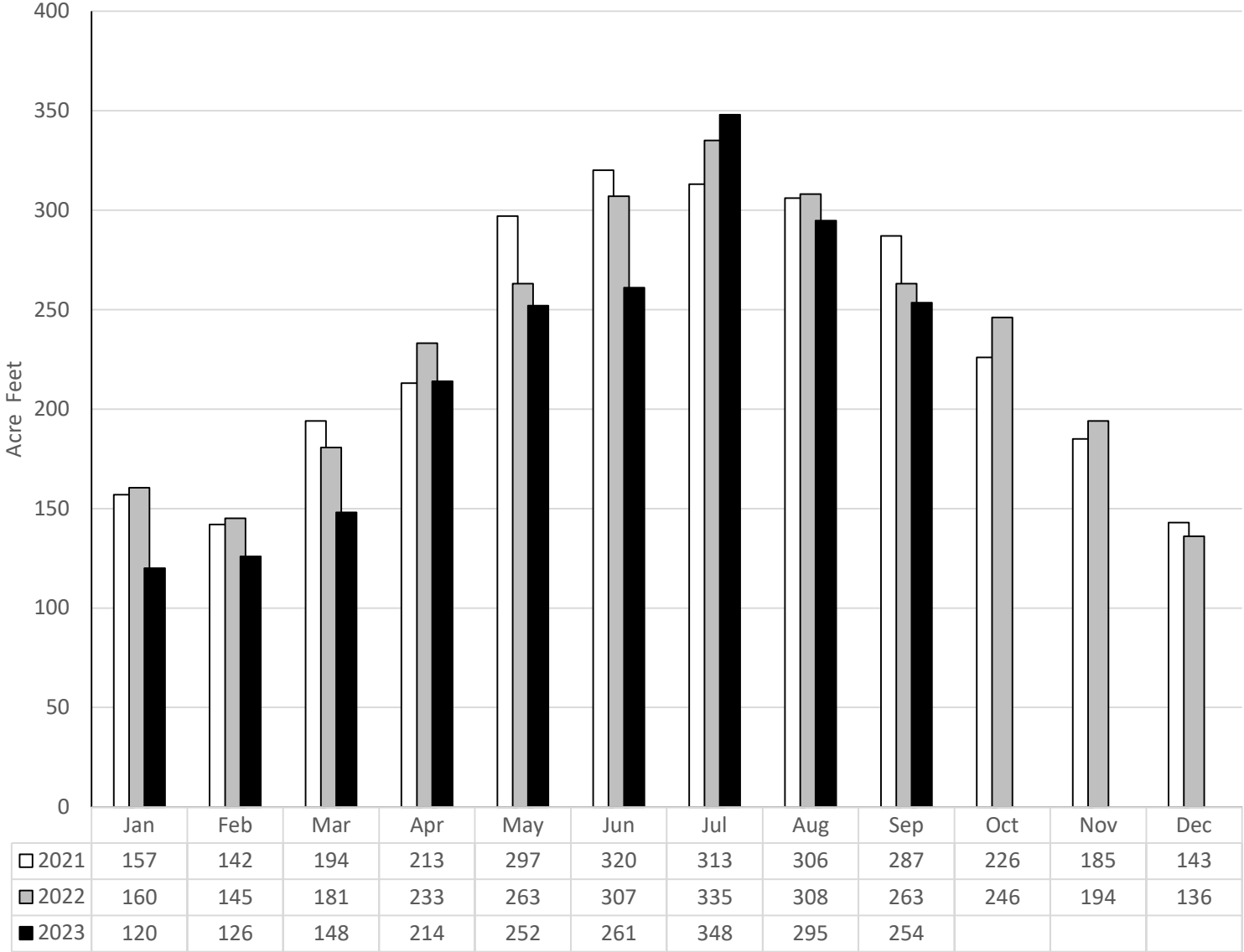
# Big Bend Water District Water Production



# Virgin Valley Water District Water Production



# Moapa Valley Water District Water Production



# Historic Trends Influent Wastewater Flows

(Avg. in MGD)

Month	Clark County Water Reclamation District *			City of Las Vegas			City of North Las Vegas			City of Henderson			Boulder City		
	2021	2022	2023	2021	2022	2023	2021	2022	2023	2021	2022	2023	2021	2022	2023
Jan	98.48	100.59	104.30	41.06	41.62	47.71	17.84	18.00	18.60	24.71	25.23	23.91	1.21	1.13	1.08
Feb	97.50	102.07	103.76	41.23	42.04	48.34	17.73	17.96	18.47	24.55	24.56	24.68	1.21	1.14	1.08
Mar	101.17	103.72	104.62	41.67	42.45	47.70	17.87	18.08	18.36	25.74	25.07	24.20	1.19	1.15	1.08
Apr	104.07	106.28	105.60	41.84	42.63	48.28	17.98	17.71	20.12	25.83	25.42	25.32	1.20	1.11	1.10
May	105.77	105.74	106.36	42.14	42.78	48.04	17.72	17.98	18.45	25.45	25.50	25.02	1.27	1.13	1.14
Jun	109.55	106.70	106.34	42.58	42.16	47.49	18.27	18.11	18.23	26.46	24.55	24.81	1.25	1.13	1.13
Jul	114.18	110.64	110.07	42.71	47.16	48.00	18.69	18.80	18.61	26.71	24.34	26.35	1.22	1.15	1.15
Aug	112.23	110.64	111.75	43.10	48.20	47.31	18.76	19.10	19.13	26.87	25.19	26.61	1.17	1.15	1.18
Sep	109.79	109.22	115.43	42.95	47.28	48.12	18.62	18.90	18.29	26.83	25.27	26.07	1.17	1.09	1.16
Oct	106.58	110.94		42.63	46.90		18.17	18.71		26.71	24.56		1.13	1.08	
Nov	104.75	106.35		42.22	46.27		18.17	18.58		25.76	24.18		1.16	1.08	
Dec	104.05	104.32		41.46	46.53		18.12	18.63		25.73	23.94		1.13	1.09	
ANNUAL	105.68	106.43	107.58	42.13	44.92	47.89	18.16	18.38	18.70	25.95	24.82	25.22	1.19	1.12	1.12

\* Includes estimated .5 MGD NLV

# Historic Trends Influent Wastewater Flows

Month	Searchlight			Blue Diamond			MVWRC			Laughlin			Mesquite			Indian Springs		
	2021	2022	2023	2021	2022	2023	2021	2022	2023	2021	2022	2023	2021	2022	2023	2021	2022	2023
Jan	0.030	0.041	0.039	0.017	0.017	0.019	0.191	0.155	0.155	1.47	1.45	1.52	1.76	1.86	1.89	0.072	0.088	0.106
Feb	0.029	0.042	0.040	0.020	0.026	0.009	0.181	0.157	0.163	1.52	1.52	1.51	1.81	1.89	1.90	0.073	0.091	0.098
Mar	0.034	0.039	0.042	0.020	0.017	0.016	0.180	0.172	0.171	1.58	1.65	1.58	1.82	1.89	1.94	0.074	0.095	0.138
Apr	0.027	0.043	0.040	0.016	0.015	0.016	0.172	0.175	0.174	1.69	1.65	1.58	1.81	1.88	1.91	0.082	0.095	0.139
May	0.340	0.044	0.041	0.016	0.010	0.016	0.163	0.155	0.165	1.79	1.80	1.62	1.75	1.76	1.83	0.082	0.098	0.145
Jun	0.028	0.042	0.042	0.014	0.009	0.015	0.168	0.142	0.147	1.87	1.70	1.75	1.76	1.73	1.84	0.081	0.101	0.150
Jul	0.042	0.048	0.042	0.018	0.011	0.011	0.152	0.140	0.142	2.12	1.98	1.96	1.82	1.72	1.93	0.092	0.101	0.157
Aug	0.041	0.045	0.042	0.015	0.012	0.013	0.145	0.134	0.138	1.78	1.78	1.80	1.78	1.73	1.96	0.098	0.104	0.191
Sep	0.030	0.042	0.014	0.018	0.011	0.015	0.143	0.151	0.147	1.68	1.74	1.70	1.79	1.73	1.90	0.104	0.101	0.156
Oct	0.033	0.039		0.017	0.012		0.150	0.147		1.60	1.73		1.84	1.80		0.095	0.094	
Nov	0.046	0.039		0.018	0.016		0.154	0.146		1.36	1.69		1.89	1.87		0.085	0.094	
Dec	0.040	0.039		0.021	0.012		0.150	0.149		1.47	1.58		1.78	1.83		0.092	0.120	
ANNUAL	0.060	0.042	0.038	0.018	0.014	0.014	0.167	0.152	0.156	1.66	1.69	1.67	1.80	1.81	1.90	0.086	0.099	0.142

Indian Springs calculation revised in 2021



# Non-Discharging Facilities

Boulder City				
(Avg. in MGD)			(Total in MG)	
Month	Influent Flow	Reuse	Influent Flow	Reuse
Jan	1.08	0.12	33.5	3.72
Feb	1.08	0.11	30.2	3.08
Mar	1.08	0.13	33.5	4.03
Apr	1.1	0.08	33	2.4
May	1.14	0.08	35.30	2.48
Jun	1.13	0.10	33.90	3.00
Jul	1.15	0.06	35.70	1.86
Aug	1.18	0.15	36.60	4.65
Sep	1.16	0.15	34.80	4.50
Oct				
Nov				
Dec				
Annual	1.12	0.11	306.50	29.72

## Las Vegas Wash and Colorado River Dischargers (2023)

Month	Clark County Water Reclamation District*					City of Las Vegas						City of Henderson			City of North Las Vegas		
	Influent Flow	Main Plant Reuse	DBWRC Reuse	Total Reuse	Net to LV Wash	Influent Flow	WPCF Reuse	BMWRC Reuse	DHWRC Reuse	Total Reuse	Net to LV Wash	Influent Flow	Reuse	Net to LV Wash	Influent Flow	Reuse	Net to LV Wash
Jan	104.30	0.06	0.00	0.06	107.53	47.71	0.11	0.00	0.00	0.11	48.99	23.91	2.22	20.70	18.60	0.00	18.60
Feb	103.76	0.10	0.00	0.10	107.11	48.34	0.16	0.00	0.00	0.16	47.60	24.68	3.83	19.30	18.47	0.00	18.47
Mar	104.62	0.18	0.00	0.18	107.43	47.70	0.16	0.00	0.00	0.16	46.78	24.20	3.95	19.06	18.36	0.15	18.21
Apr	105.60	0.64	0.00	0.64	108.87	48.28	0.43	0.00	0.00	0.43	47.06	25.32	7.66	15.98	20.12	1.15	18.97
May	106.36	1.74	0.00	1.74	108.81	48.04	0.47	0.00	0.00	0.47	46.68	25.02	8.68	15.34	18.45	2.15	16.30
Jun	106.34	1.12	0.00	1.12	110.22	47.49	0.50	0.00	0.00	0.50	45.76	24.81	9.23	14.52	18.23	3.15	15.08
Jul	110.07	3.85	0.00	3.85	111.65	48.00	0.77	0.00	0.00	0.77	46.38	26.35	9.46	14.55	18.61	3.01	15.60
Aug	111.75	3.85	0.00	2.78	114.54	47.31	0.60	0.00	0.00	0.60	47.80	26.61	10.31	14.13	19.13	1.97	17.16
Sep	115.43	3.85	0.00	1.02	116.04	48.12	0.67	0.00	0.00	0.67	48.60	26.07	9.67	15.06	18.29	1.29	17.00
Oct																	
Nov																	
Dec																	
<b>Average</b>	107.58	1.71	0.00	1.28	110.24	47.89	0.43	0.00	0.00	0.43	47.29	25.22	7.22	16.52	18.70	1.43	17.27
<b>YTD total</b>	968.23	15.38	0.00	11.48	992.20	430.99	3.86	0.00	0.00	3.86	425.65	226.97	65.01	148.64	168.26	####	155.39

Net to LV Wash is measured effluent at each treatment plant

## Las Vegas Wash and Colorado River Dischargers (2023)

Month	Las Vegas Wash Discharge (Avg in MGD)			Discharge Directly to Colorado River (Avg in MGD)			Total Discharge (Totals in A/F)
	Influent Flow	Reuse	Net to LV Wash	Laughlin Influent Flow	Laughlin Reuse	Net to River	Effluent Flow
Jan	194.52	2.39	195.82	1.52	0.00	1.52	18,774.04
Feb	195.25	4.09	192.48	1.51	0.00	1.51	17,264.67
Mar	194.88	4.44	191.48	1.58	0.00	1.58	17,181.90
Apr	199.32	9.88	190.88	1.58	0.00	1.58	17,128.50
May	197.87	13.04	187.13	1.62	0.00	1.62	16,797.97
Jun	196.87	13.99	185.58	1.75	0.00	1.75	16,672.03
Jul	203.03	17.09	188.18	1.96	1.00	1.96	16,921.76
Aug	204.80	15.66	193.63	1.80	2.00	1.80	17,392.83
Sep	207.91	12.65	196.70	1.70	3.00	1.70	17,657.24
Oct							
Nov							
Dec							
<b>Annual Avg</b>	199.38	10.36	191.32	1.67	0.67	1.67	155790.94

# Water Production (2023)

## (Totals in AF)

	Las Vegas Valley Water District			City of Henderson			City of North Las Vegas			Boulder City			Nellis Air Force Base			Totals	
Month	WELLS	SNWS	TOTAL	SNWS	BMI	TOTAL	WELLS	SNWS	TOTAL	RMTP	SNWS	TOTAL	WELL	SNWS	TOTAL	WELLS	SNWS
Jan	2	19,314	19,316	4,664	0	4,664	0	3,728	3,728	68	309	377	6.09	63	69	8	28,146
Feb	12	17,941	17,953	4,347	0	4,347	0	3,534	3,534	79	261	340	4.28	58	62	16	26,220
Mar	9	21,704	21,713	5,432	0	5,432	0	4,084	4,084	113	326	439	10.05	66	76	19	31,725
Apr	5,388	19,904	25,292	6,294	0	6,294	0	4,587	4,587	261	463	723	22.49	76	99	5,410	31,585
May	6,484	25,042	31,526	8,731	0	8,731	0	5,662	5,662	371	595	966	19.92	77	97	6,504	40,478
Jun	7,415	25,291	32,706	9,114	0	9,114	0	5,756	5,756	382	643	1,025	16.33	83	100	7,431	41,269
Jul	6,976	30,939	37,915	10,452	0	10,452	0	6,520	6,520	485	768	1,253	8.13	106	114	6,984	49,270
Aug	5,951	28,898	34,849	9,962	0	9,962	0	6,184	6,184	388	668	1,056	10.04	100	110	5,961	46,200
Sep	5,702	23,359	29,061	7,796	0	7,796	0	5,265	5,265	330	555	885	13.16	84	97	5,715	37,388
Oct																	
Nov																	
Dec																	
YTD	37,939	212,392	250,331	66,792	0	66,792	0	45,320	45,320	2,476	4,589	7,065	110	713	824	38,049	332,282

Historic Trends Water Production  
(Totals in AF)

Month	Las Vegas Valley Water District			City of Henderson			City of North Las Vegas			Boulder City			Big Bend Water District			Virgin Valley Water District			Moapa Valley Water District		
	2021	2022	2023	2021	2022	2023	2021	2022	2023	2021	2022	2023	2021	2022	2023	2021	2022	2023	2021	2022	2023
Jan	19,734	20,327	19,316	4,946	4,935	4,664	3,773	3,915	3,728	453	413	377	201	220	203	381	395	332	157	160	120
Feb	18,489	18,957	17,953	4,650	4,680	4,347	3,539	3,649	3,534	483	442	340	216	211	193	345	376	336	142	145	126
Mar	23,496	24,921	21,713	6,102	6,240	5,432	4,371	4,586	4,084	628	616	439	244	228	208	449	488	369	194	181	148
Apr	27,257	26,926	25,292	7,266	7,092	6,294	4,825	4,856	4,587	870	780	723	260	251	228	546	588	500	213	233	214
May	33,792	33,411	31,526	9,325	8,986	8,731	5,721	5,764	5,662	1,093	1,024	966	292	283	265	667	686	651	297	263	252
Jun	37,597	35,956	32,706	10,133	9,869	9,114	6,262	6,234	5,756	1,265	1,145	1,025	318	298	270	800	752	692	320	307	261
Jul	38,902	38,811	37,915	10,352	9,737	10,452	6,612	6,532	6,520	1,233	1,114	1,253	302	331	310	835	806	803	313	335	348
Aug	39,072	35,792	34,849	10,295	9,385	9,962	6,569	6,015	6,184	1,242	929	1,056	311	307	313	848	727	718	306	308	295
Sep	33,330	32,370	29,061	8,994	8,414	7,796	5,460	5,344	5,265	1,094	920	885	291	290	298	773	681	605	287	263	254
Oct	28,794	28,890		7,501	7,545		5,107	5,344		815	765		260	272		617	644		226	246	
Nov	23,359	22,309		6,003	5,741		4,370	5,344		638	497		238	235		484	476		185	194	
Dec	20,561	20,741		5,256	5,174		4,019	5,344		453	385		220	220		393	398		143	136	
<b>ANNUAL</b>	<b>344,383</b>	<b>339,413</b>	<b>250,331</b>	<b>90,823</b>	<b>87,798</b>	<b>66,792</b>	<b>60,627</b>	<b>62,926</b>	<b>45,320</b>	<b>10,266</b>	<b>9,029</b>	<b>7,065</b>	<b>3,152</b>	<b>3,145</b>	<b>2,287</b>	<b>7,137</b>	<b>7,018</b>	<b>5,006</b>	<b>2,783</b>	<b>2,771</b>	<b>2,017</b>

# Wastewater/Water Production Ratios

Month	City of Las Vegas/Clark County*			City of Henderson			City of North Las Vegas			Boulder City			Big Bend Water District			All Entities **		
	2021	2022	2023	2021	2022	2023	2021	2022	2023	2021	2022	2023	2021	2022	2023	2021	2022	2023
Jan	0.67	0.67	0.75	0.48	0.49	0.49	0.45	0.44	0.47	0.25	0.26	0.27	0.70	0.63	0.71	0.60	0.60	0.66
Feb	0.64	0.65	0.73	0.45	0.45	0.49	0.43	0.42	0.45	0.22	0.22	0.27	0.60	0.62	0.67	0.58	0.58	0.64
Mar	0.58	0.56	0.67	0.40	0.38	0.42	0.39	0.38	0.43	0.18	0.18	0.23	0.62	0.69	0.72	0.52	0.50	0.59
Apr	0.49	0.51	0.56	0.33	0.33	0.37	0.34	0.34	0.40	0.13	0.13	0.14	0.60	0.61	0.64	0.44	0.45	0.50
May	0.42	0.42	0.47	0.26	0.27	0.27	0.29	0.30	0.31	0.11	0.10	0.11	0.58	0.61	0.58	0.37	0.37	0.40
Jun	0.37	0.38	0.43	0.24	0.23	0.25	0.27	0.27	0.29	0.09	0.09	0.10	0.54	0.53	0.60	0.33	0.33	0.38
Jul	0.38	0.39	0.40	0.25	0.24	0.24	0.27	0.27	0.27	0.09	0.10	0.09	0.67	0.57	0.60	0.34	0.34	0.35
Aug	0.38	0.42	0.43	0.25	0.26	0.25	0.27	0.30	0.29	0.09	0.12	0.11	0.55	0.55	0.55	0.34	0.37	0.38
Sep	0.42	0.45	0.52	0.27	0.28	0.31	0.31	0.33	0.32	0.10	0.11	0.12	0.53	0.55	0.53	0.38	0.40	0.45
Oct	0.49	0.53		0.34	0.31		0.34	0.36		0.13	0.13		0.59	0.61		0.44	0.46	
Nov	0.58	0.63		0.40	0.39		0.38	0.41		0.17	0.20		0.53	0.66		0.51	0.55	
Dec	0.67	0.69		0.47	0.44		0.43	0.45		0.24	0.27		0.64	0.68		0.60	0.61	
AVG.	0.48	0.50	0.52	0.32	0.32	0.32	0.34	0.34	0.35	0.13	0.14	0.13	0.59	0.61	0.62	0.43	0.44	0.46

# Water Production and Waste Flows

## Monthly Flows in A/F

Month	CLV and Clark County Monthly Flow in AF		City of Henderson Monthly Flow in AF		City of North Las Vegas Monthly Flow in AF		Boulder City Monthly Flow in AF		Big Bend Water District Monthly Flow in AF		All Entities Monthly Flow in AF	
	Water Production	Waste Flow	Water Production	Waste Flow	Water Production	Waste Flow	Water Production	Waste Flow	Water Production	Waste Flow	Water Production	Waste Flow
Jan	19,316	14,462	4,664	2,275	3,728	1,770	377	103	203	145	28,288	18,753
Feb	17,953	13,070	4,347	2,121	3,534	1,587	340	93	193	130	26,367	17,000
Mar	21,713	14,491	5,432	2,302	4,084	1,747	439	103	208	150	31,877	18,793
Apr	25,292	14,167	6,294	2,331	4,587	1,852	723	101	228	145	37,124	18,597
May	31,526	14,689	8,731	2,380	5,662	1,755	966	108	265	154	47,149	19,087
Jun	32,706	14,163	9,114	2,284	5,756	1,678	1,025	104	270	161	48,871	18,390
Jul	37,915	15,038	10,452	2,507	6,520	1,770	1,253	110	310	186	56,450	19,611
Aug	34,849	15,132	9,962	2,532	6,184	1,820	1,056	112	313	171	52,364	19,767
Sep	29,061	15,057	7,796	2,400	5,265	1,684	885	107	298	157	43,305	19,405
Oct	0	0	0	0	0	0	0	0	0	0	0	0
Nov	0	0	0	0	0	0	0	0	0	0	0	0
Dec	0	0	0	0	0	0	0	0	0	0	0	0
YTD	250,331	130,269	66,792	21,132	45,320	15,664	7,065	941	2,287	1,399	371,795	169,404

# Recharge and Recovery

Monthly Flows In Acre-Feet

Month	Recharged			Recovered			
	LVVWD	NLV	Total	LVVWD	LV Paiute	NLV	Total
Jan	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0
Sep	0	0	0	130	0	0	0
Oct	0	0	0	0	0	0	0
Nov	0	0	0	0	0	0	0
Dec	0	0	0	0	0	0	0
Total 2023	0	0	0	130	0	0	0
Total 2022	0	0	0	797	0	0	0
Total 2021	0	0	0	688	0	0	0