

Guests Present

Donahue, Richard
Rodriguez, AJ
Sumanis, Abigail
Marshall, Zane
Hunt, Troy
McKinnon, Angela

CCWRD
CCWRD
CCWRD
SNWA
Geosyntec Consultants
Brown and Caldwell

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 9:03 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 MAY 5, 2021

Todd Tietjen moved and John Bettencourt seconded to accept the May 5, 2021 minutes. The motion was unanimously approved.

4. LAKE MEAD HYDROLOGY PRESENTATION (SNWA)

Zane Marshall provided an update on the hydrology of Lake Mead.

5. DISCUSSION OF QUARTERLY FLOW REPORT

The group discussed the flow report for the second quarter of 2021:

- Flow data from multiple agencies reported increased consumptive usage in 2020 and 2021.
- CCWRD flows have returned to pre-pandemic levels, suggesting that tourism to the Strip is recovering.

6. MEMBER UPDATES

A. Moapa Valley Water District

- Nothing to report.

B. Las Vegas Valley Water District

- Planning is underway for a new lateral pipeline from west Henderson to Lake Mead.
- There are on-going discussions about how the declining Lake level will impact water quality. The most immediate concerns are temperature increases and elevated phosphorous concentrations.
- Released a publication on project modeling temperature driven impacts from the third intake on Lake Mead.

C. Boulder City

- Nothing to report.

D. Virgin Valley Water District

- N/A

E. City of Mesquite

- N/A

F. City of Las Vegas

- Coronavirus has impacted the staffing of the City's main wastewater treatment plant. There are numerous open positions that need to be filled.
- Operations team addressed a minor failure in ferric system before it impacted the phosphorus concentrations.
- CIP Updates:
 - BNR rehabilitation project is 80% complete.
 - Digester rehabilitation project is 90% complete.
 - Filtration rehabilitation project is set to begin in September.
 - Dewatering building rehabilitation project is going into design.

G. Clark County Water Reclamation District

- Collection System Updates:
 - Whitney Lift Station project is in design and is estimated to be 60% complete.
 - Lincoln Lift Station project is also in design and is estimated to be 90% complete.
 - Sandhill interceptor project was recently completed. Project required the installation of 8,000 linear feet of 60" diameter sewer and a 60" diversion structure. Plan to divert all flow from the crosstown interceptor and do a complete conditions assessment of 6 miles of 3/4" concrete pipe.
- Flamingo Plant Updates:
 - The project to expand the plant's headworks facilities is in design.
 - Building new sludge thickeners to produce more consistent VFAs.

H. City of North Las Vegas

- Sewer rehabilitation project for the main line Losee Rd to Cheyenne Rd.
- There is an on-going project to re-line manholes, etc.
- Experiencing recent challenges with the BNR process due to the membrane train consolidation that took place in June, which reduced the number of trains from 12 to 9.
- Planning to hire a consultant to conduct a process evaluation and assist with the optimization of the BNR process.
- Continuing to pump approximately 1 million gallons of reuse water per day to Nellis Air Force Base to irrigate the golf course. CNLV is preparing to fully accept ownership of the project.
- Sludge conveyance project is underway.
- Preparing for a membrane coating project that is scheduled to start October 2021. The project will remove the existing coating of all 12 process trains and applying a new coating system.
- The flow equalization project is scheduled to go out for bid later this year.

I. City of Henderson

- The Lake Las Vegas lift station rehabilitation project is nearing completion. The two existing pumps are being rehabilitated while the new pump is being installed. The system is expected to be online later this year.
- Experiencing frequent clogging issues at lift stations caused by disposable wipes in all systems without chopper pumps. Some areas require weekly maintenance.

- Phase 4 project at the WRF is moving along. Established a plan to rework the headworks facility.
- Backwash filters are continuing to clog so they are moving to a new filter selection. The location of the filter replacement will be determined at a selection meeting later this month.
- Activated sludge process is still in design. Internal coordination is on-going.
- Filled three Wastewater Operator I positions.
- One unit supervisor is retiring in August.
- Howard Analla, the Wastewater Operators Manager is retiring in August.

7. CLARK COUNTY / 208 AREA WIDE WATER QUALITY MANAGEMENT PLAN UPDATE

- Water Quality Standards: The Selenium project in Las Vegas Wash is progressing well. Fish collection is scheduled this month and will be performed by SNWA. Project details are being coordinated with NDEP Bureau of Water Quality Planning.
- MS4 Permit: The co-permittees met with NDEP to discuss comments and redlines on the draft MS4 permit. NDEP was responsive to all major co-permittee concerns.
- 208 Plan: A spreadsheet has been developed to track wastewater treatment plant upgrades since 2008. Work is ongoing to determine future 208 Plan direction.
- Grants: Updates were provided on a potential project grant to assess the effectiveness of Coanda screens in drop inlets and detention basin inlet structures. Under current grant funding, a Stormwater Pollution Awareness Month is being planned in collaboration with NDOT, to include planned proclamations by the Clark County Commission and Governor, and outreach events.

8. MEMBER VACANCIES

- A. Virgin Valley Water District – 1 member vacancy
- B. City of Henderson – 1 member vacancy; 1 alternate vacancy
- C. Clark County Water Reclamation District – 1 alternate vacancy
- D. Boulder City – 1 member vacancy

9. COMMENTS BY THE GENERAL PUBLIC - None

10. DISCUSS FUTURE MEETING FORMAT - SCHEDULE NEXT MEETING

John Bettencourt moved and Todd Tietjen seconded to hold the next meeting as virtual only. The motion was passed unanimously.

The next meeting is scheduled for November 3, 2021 at 9:00 am. A meeting invite will be sent out.

11. ADJOURNMENT

The meeting was adjourned at 10:36 am.

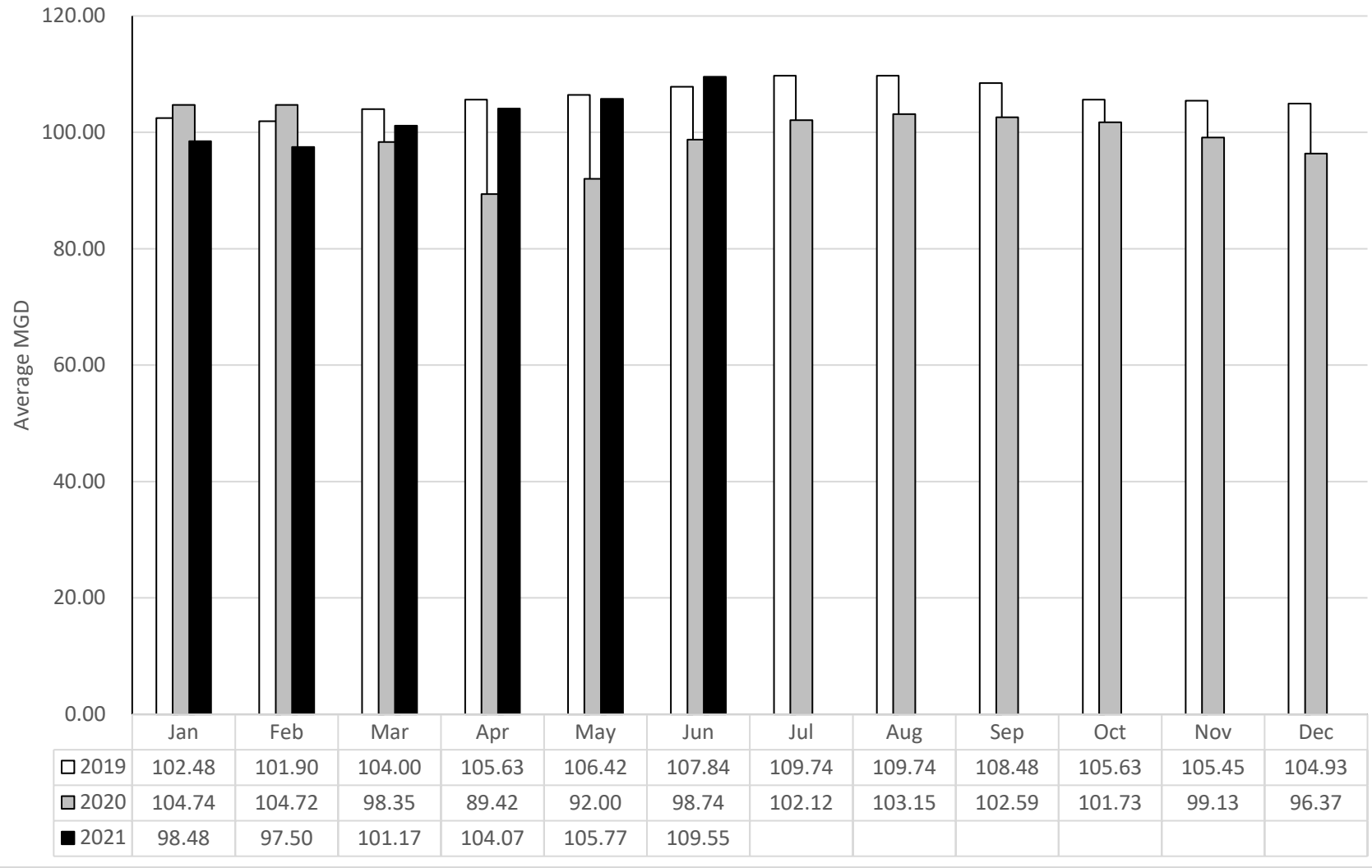
2021
2nd Quarter Flow Report
For
Clark County Sewage
And
Wastewater Advisory
Committee
(SWAC)

July 29, 2021

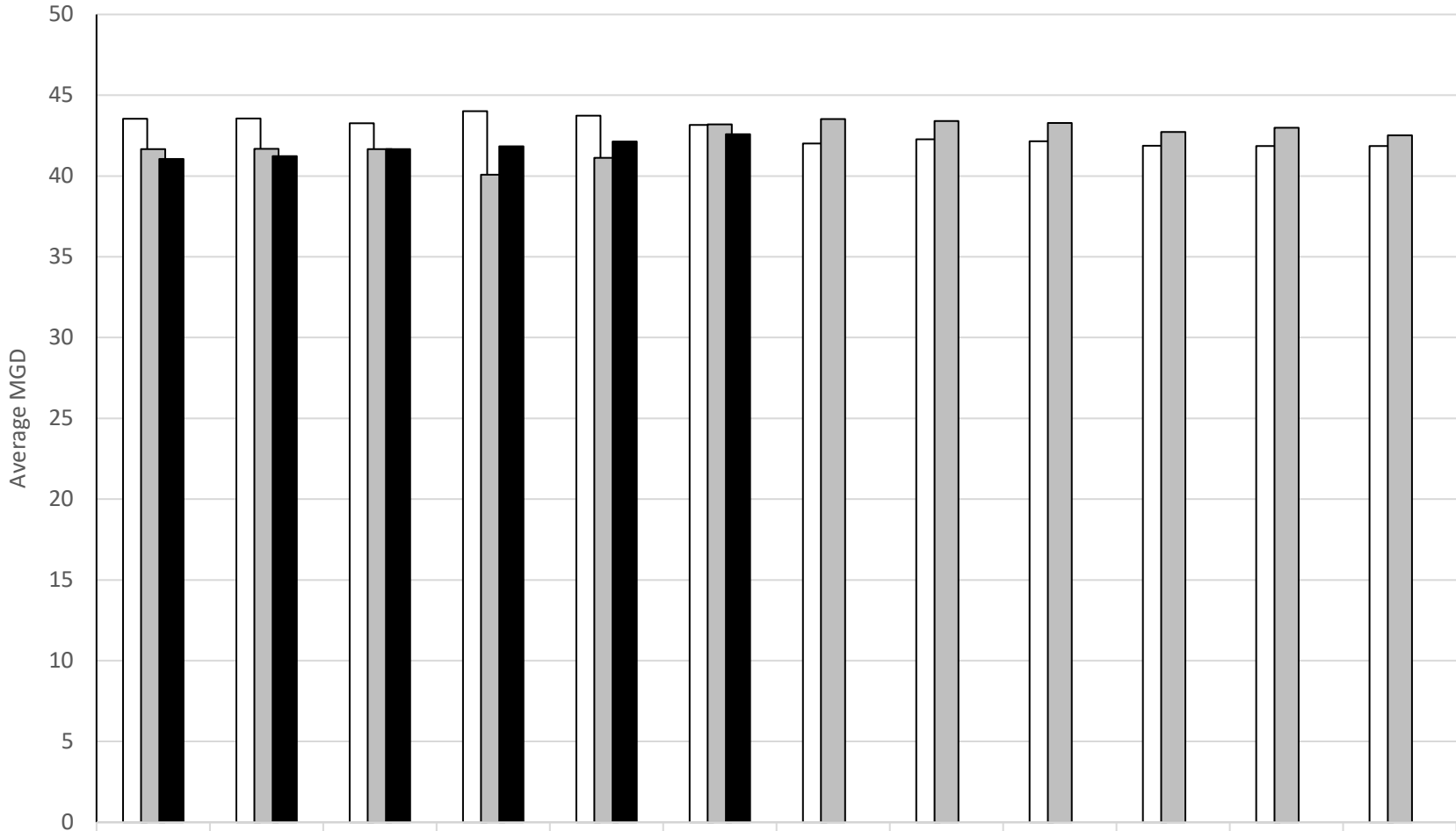
Wastewater Flows

2019 through 2021

Clark County Water Reclamation District Wastewater Flows

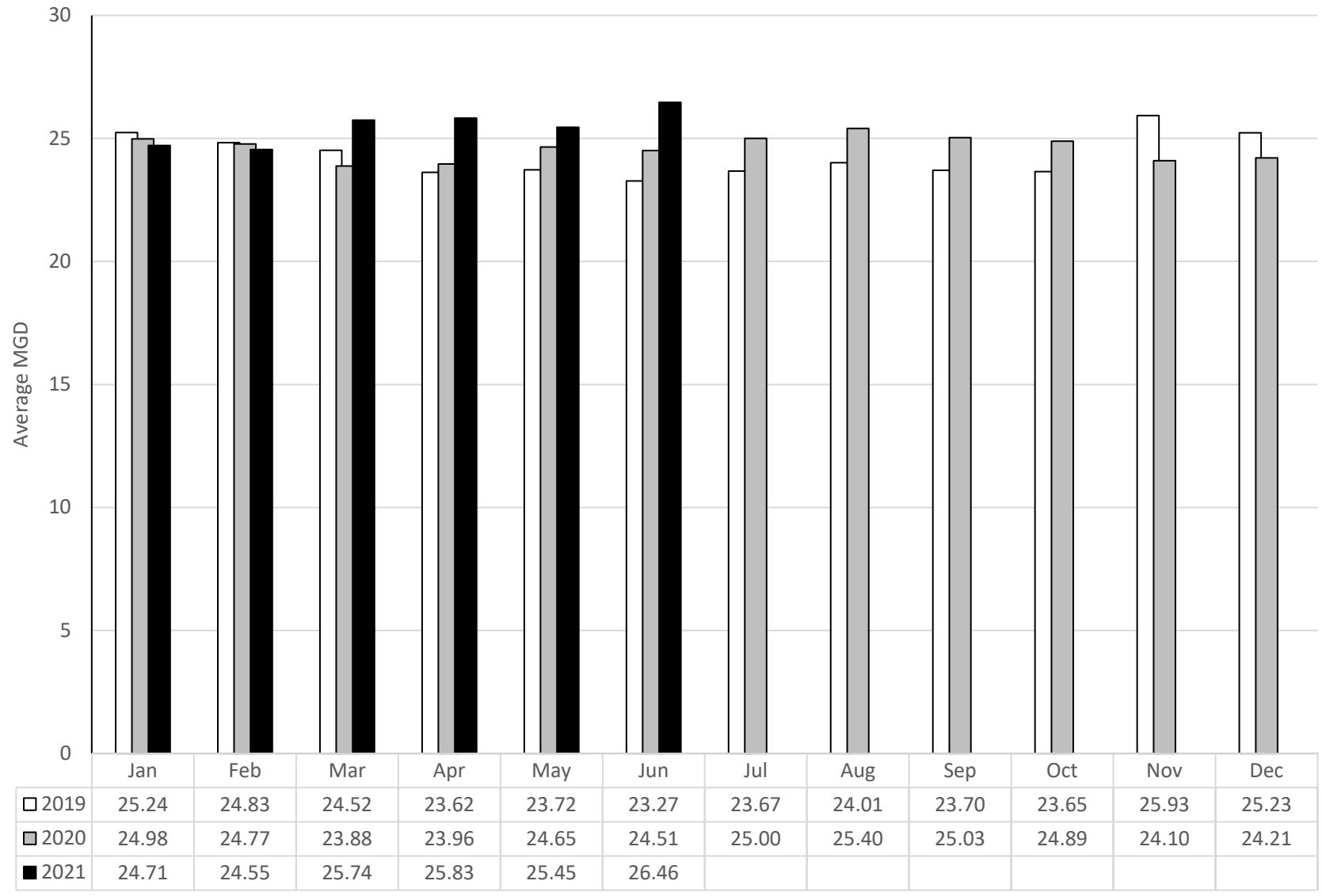


City of Las Vegas Wastewater Flows

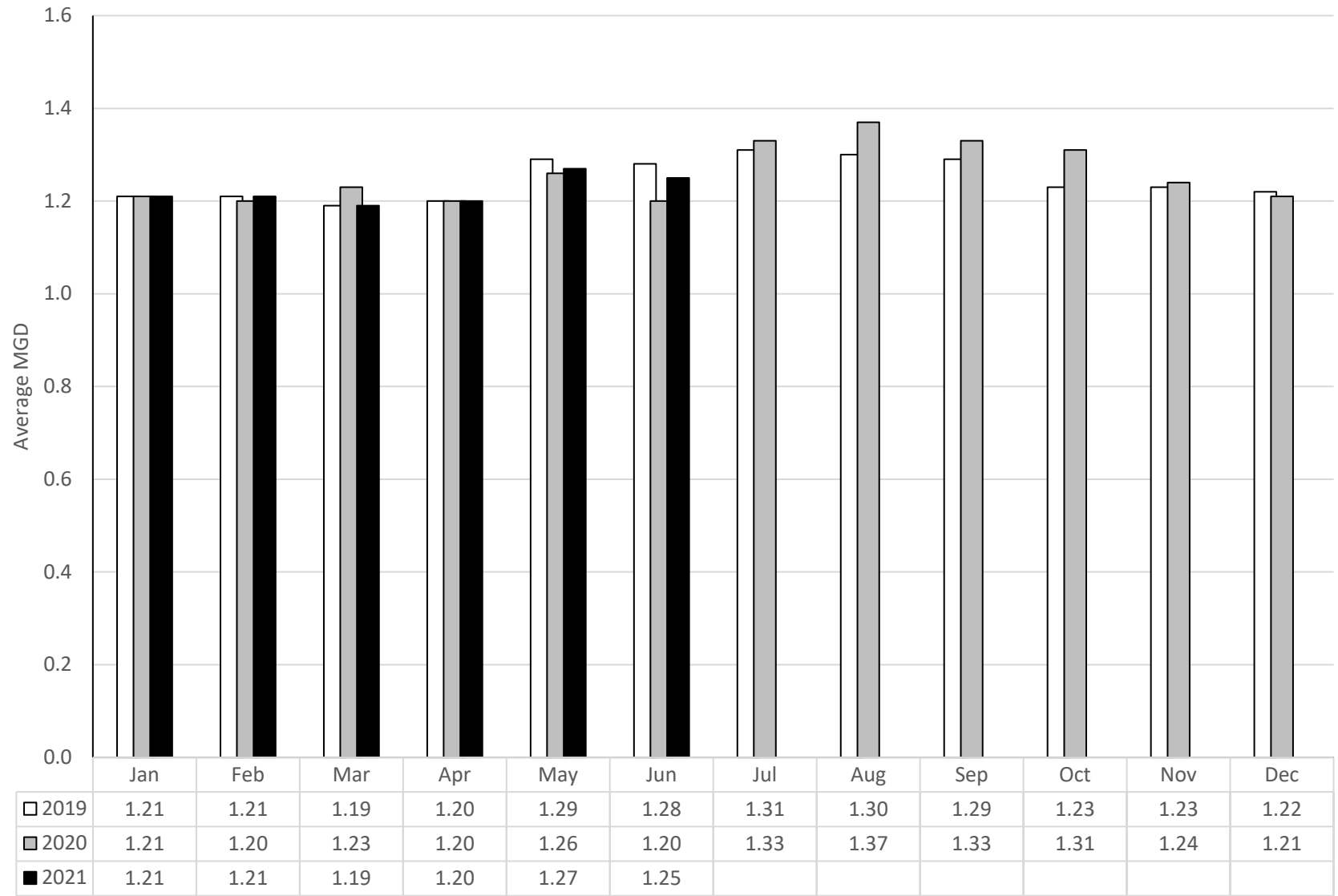


	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
□ 2019	43.54	43.56	43.27	44.01	43.74	43.17	42.02	42.27	42.15	41.87	41.85	41.86
■ 2020	41.67	41.68	41.67	40.09	41.13	43.20	43.52	43.41	43.28	42.73	42.99	42.52
■ 2021	41.06	41.23	41.67	41.84	42.14	42.58						

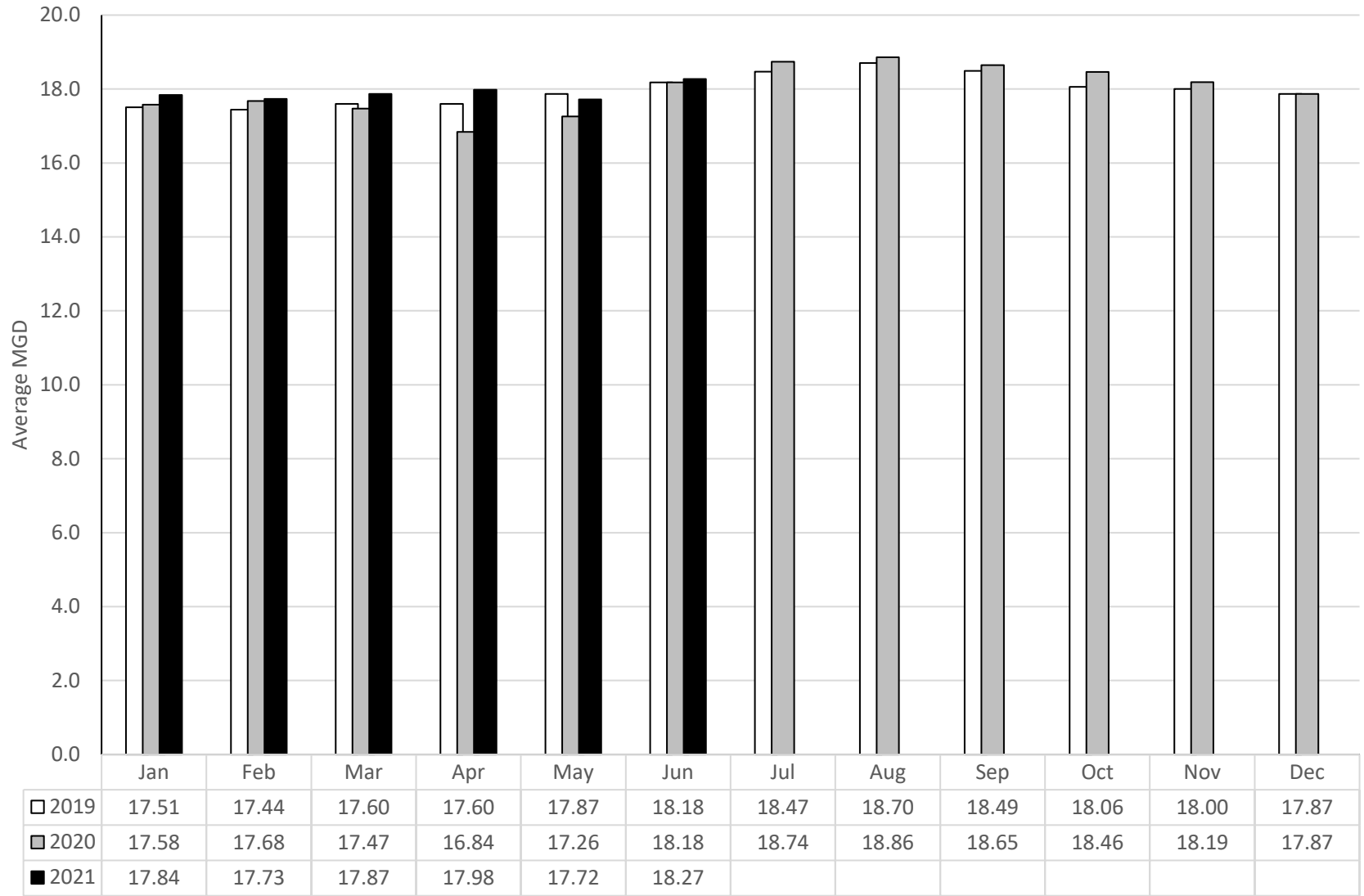
City of Henderson Wastewater Flows



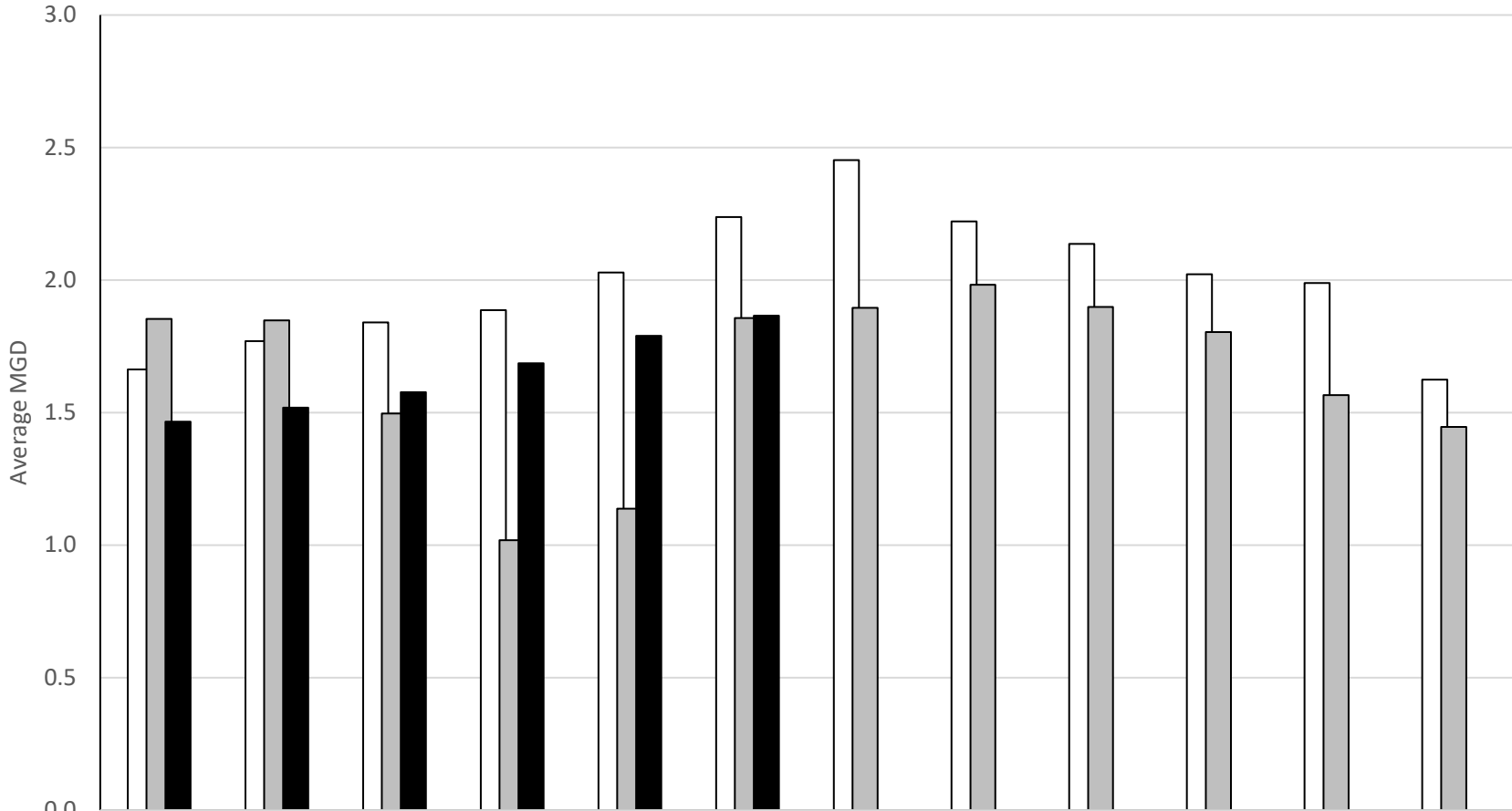
Boulder City Wastewater Flows



City of North Las Vegas Wastewater Flows

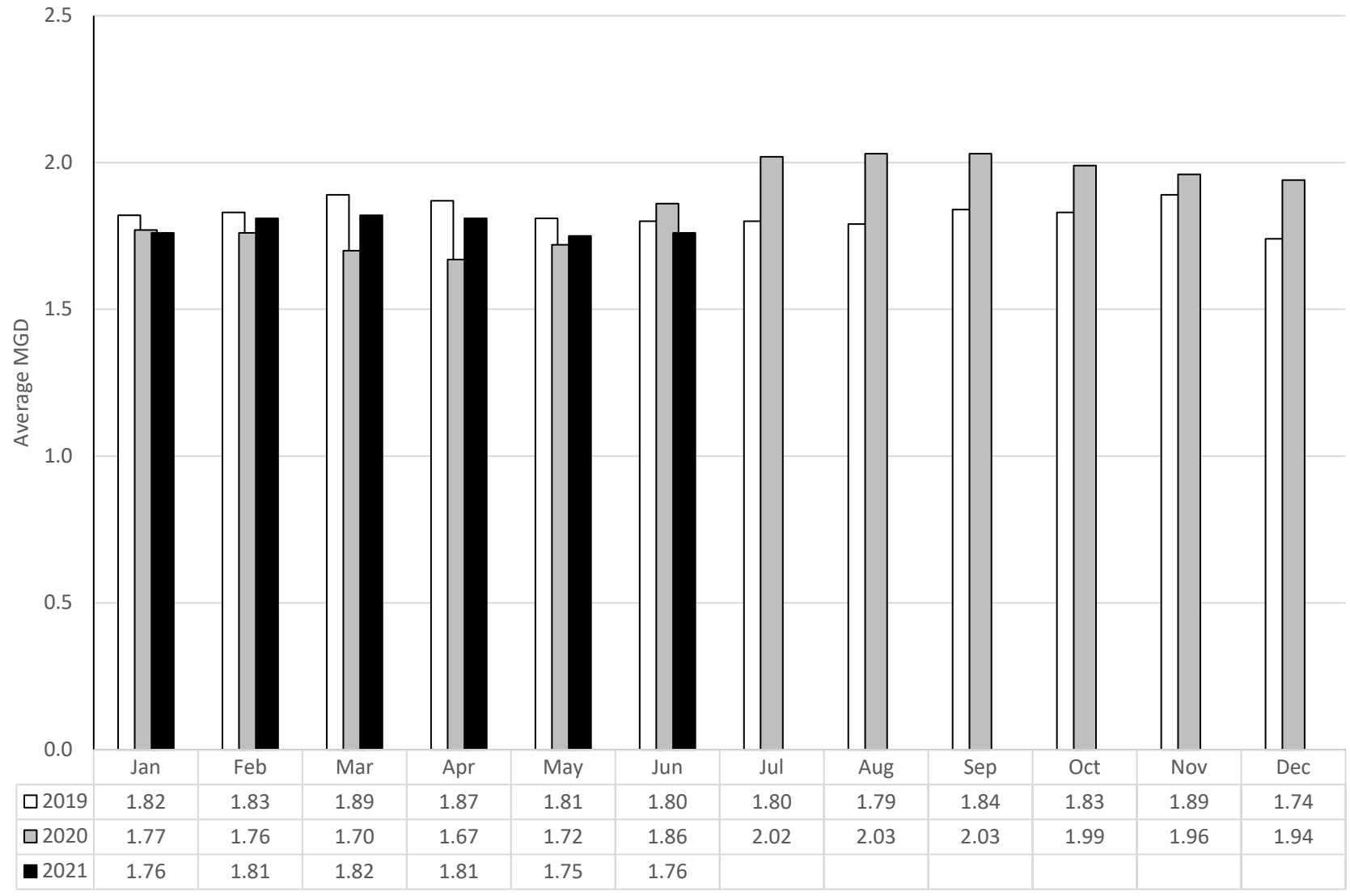


Laughlin Wastewater Flows

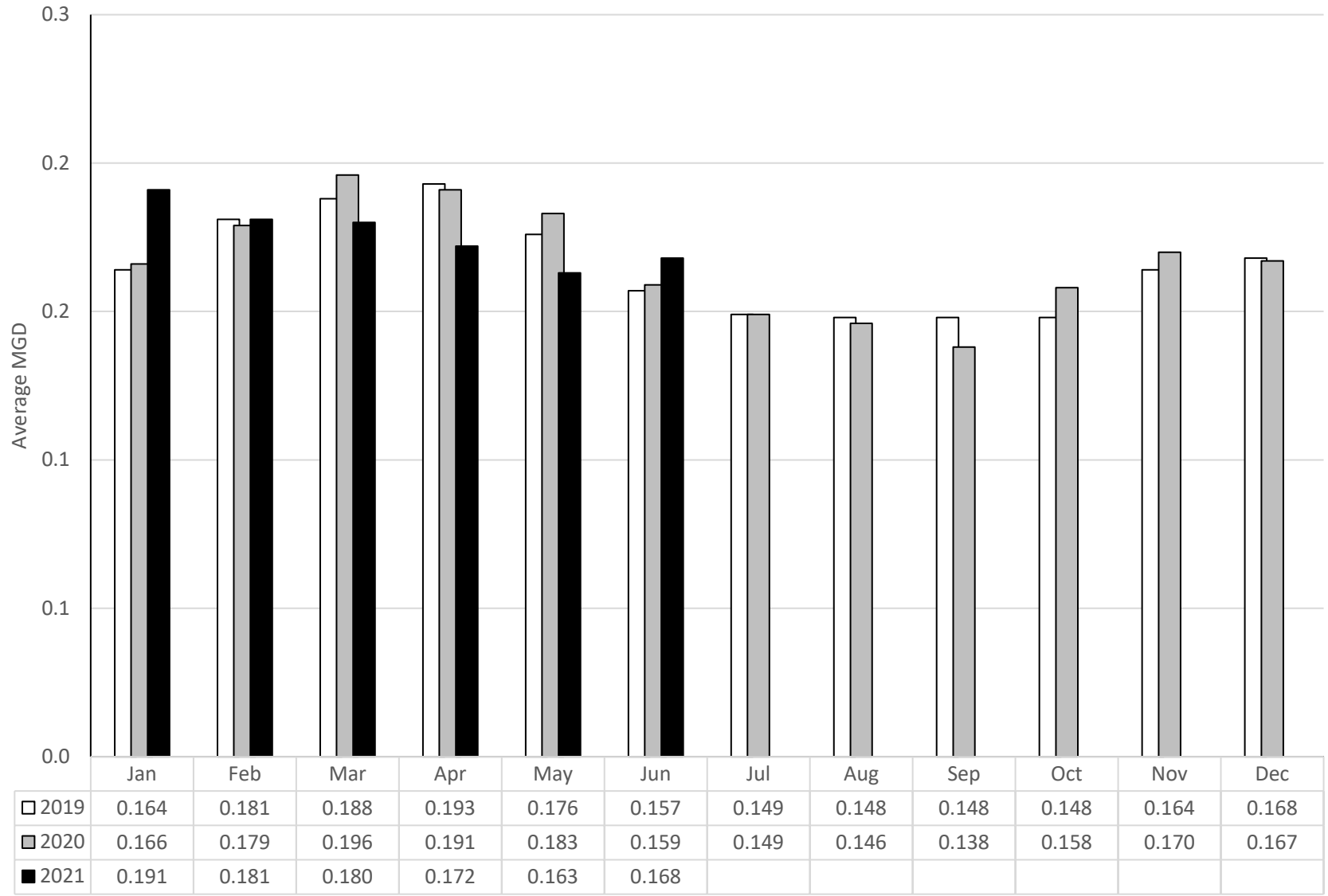


	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
□ 2019	1.66	1.77	1.84	1.89	2.03	2.24	2.45	2.22	2.14	2.02	1.99	1.62
■ 2020	1.85	1.85	1.50	1.02	1.14	1.86	1.90	1.98	1.90	1.80	1.57	1.45
■ 2021	1.47	1.52	1.58	1.69	1.79	1.87						

City of Mesquite Wastewater Flows



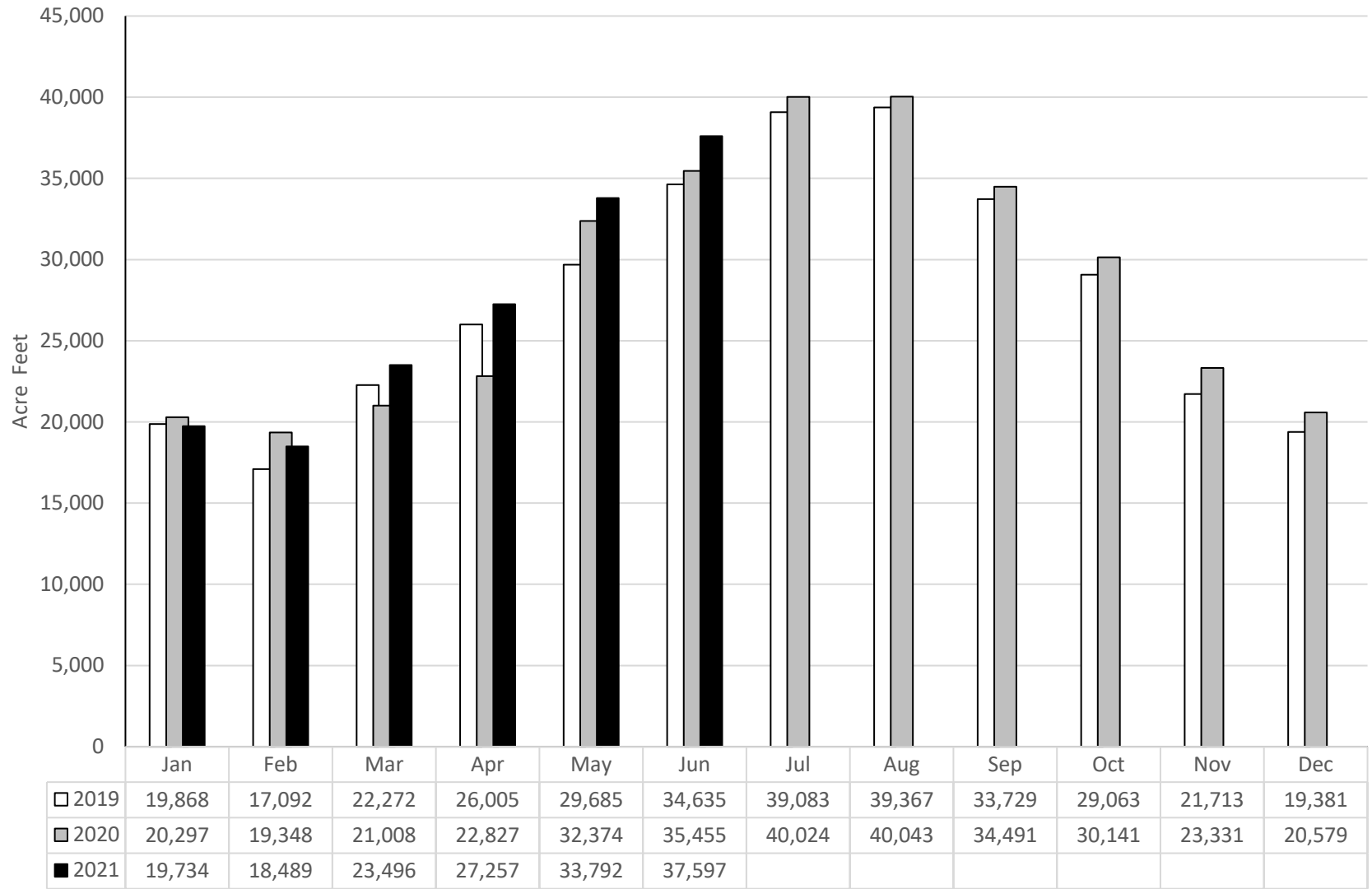
Moapa Wastewater Flows



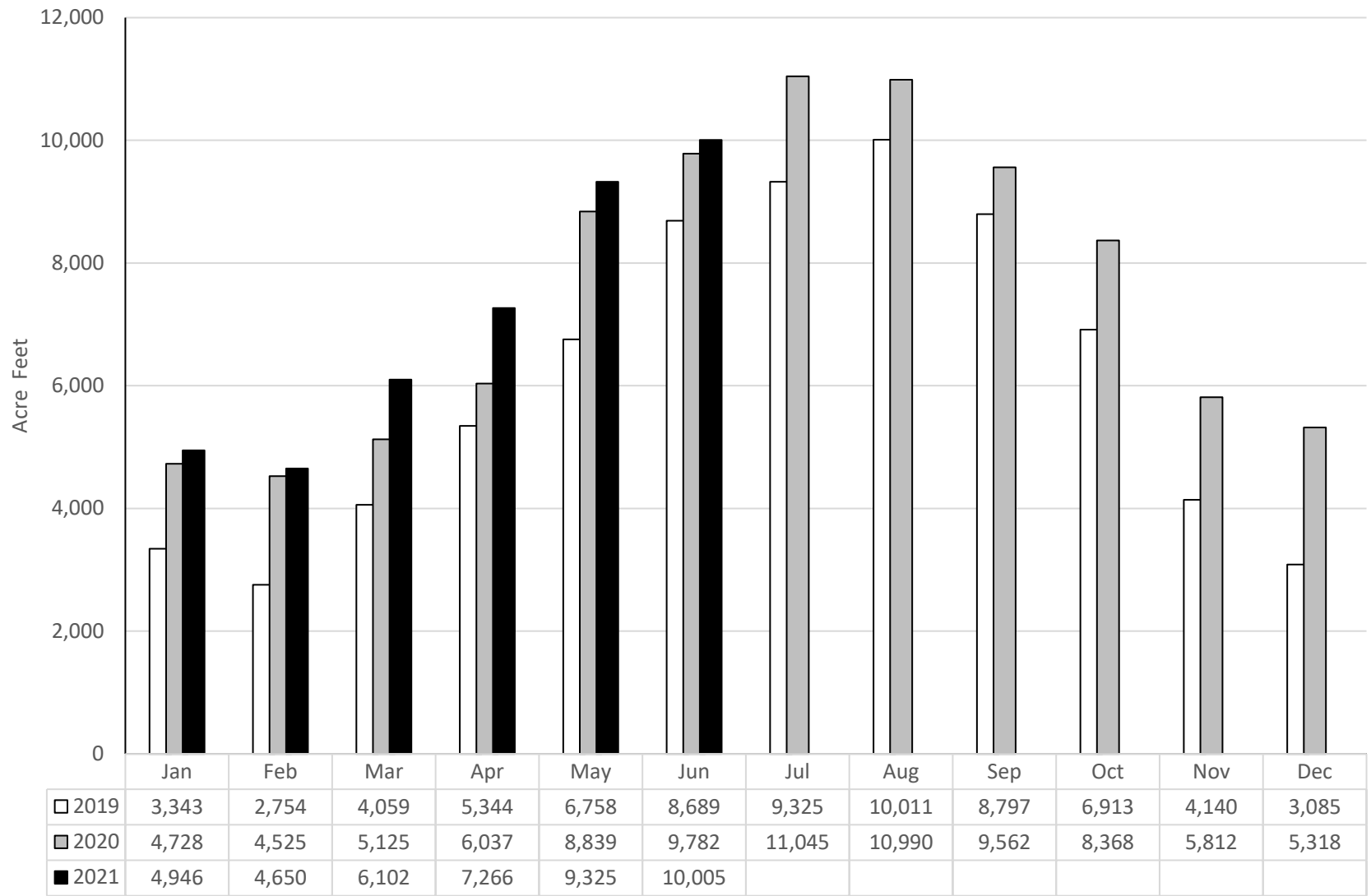
Water Production

2019 through 2021

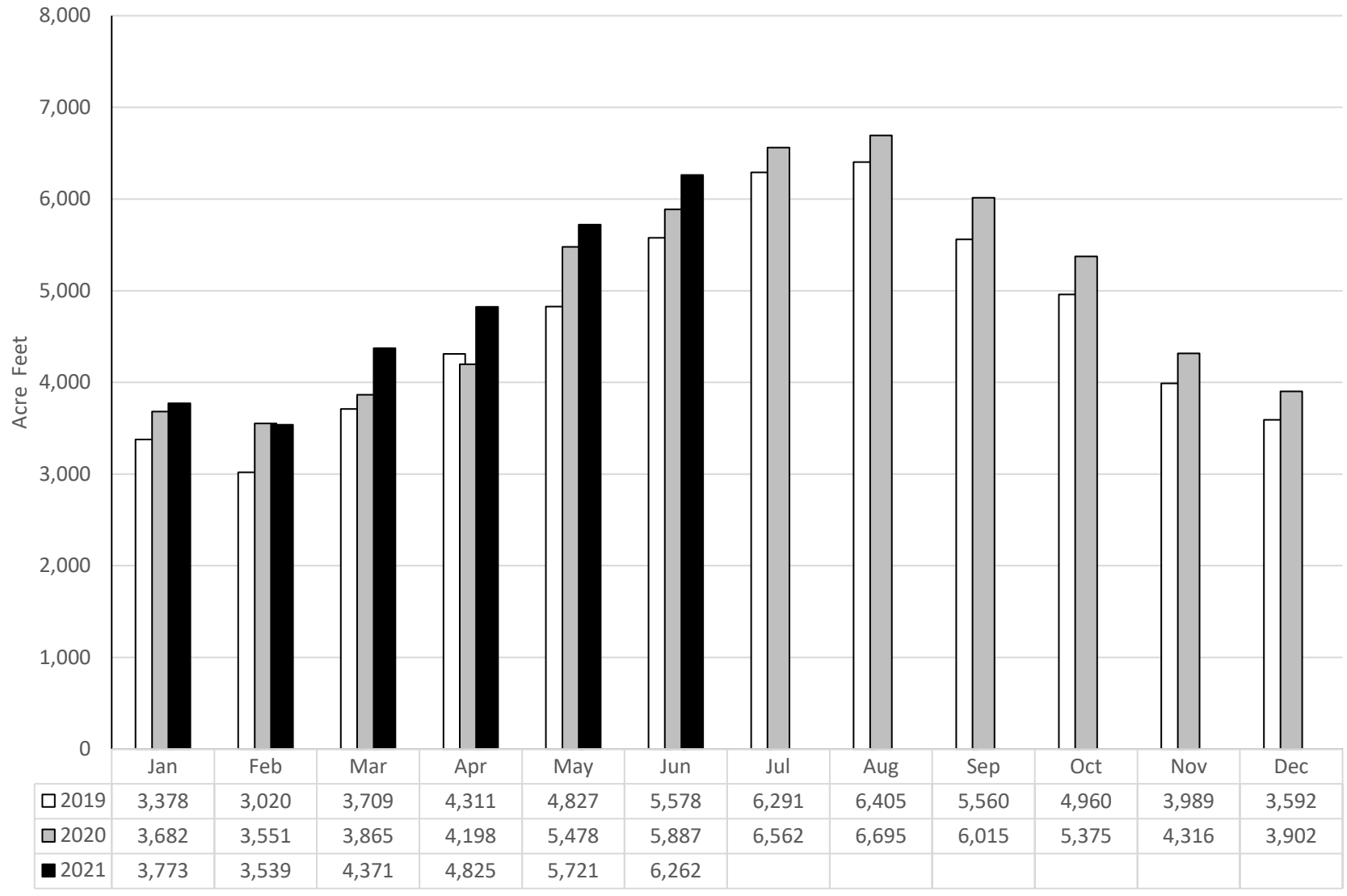
Las Vegas Valley Water District Water Production



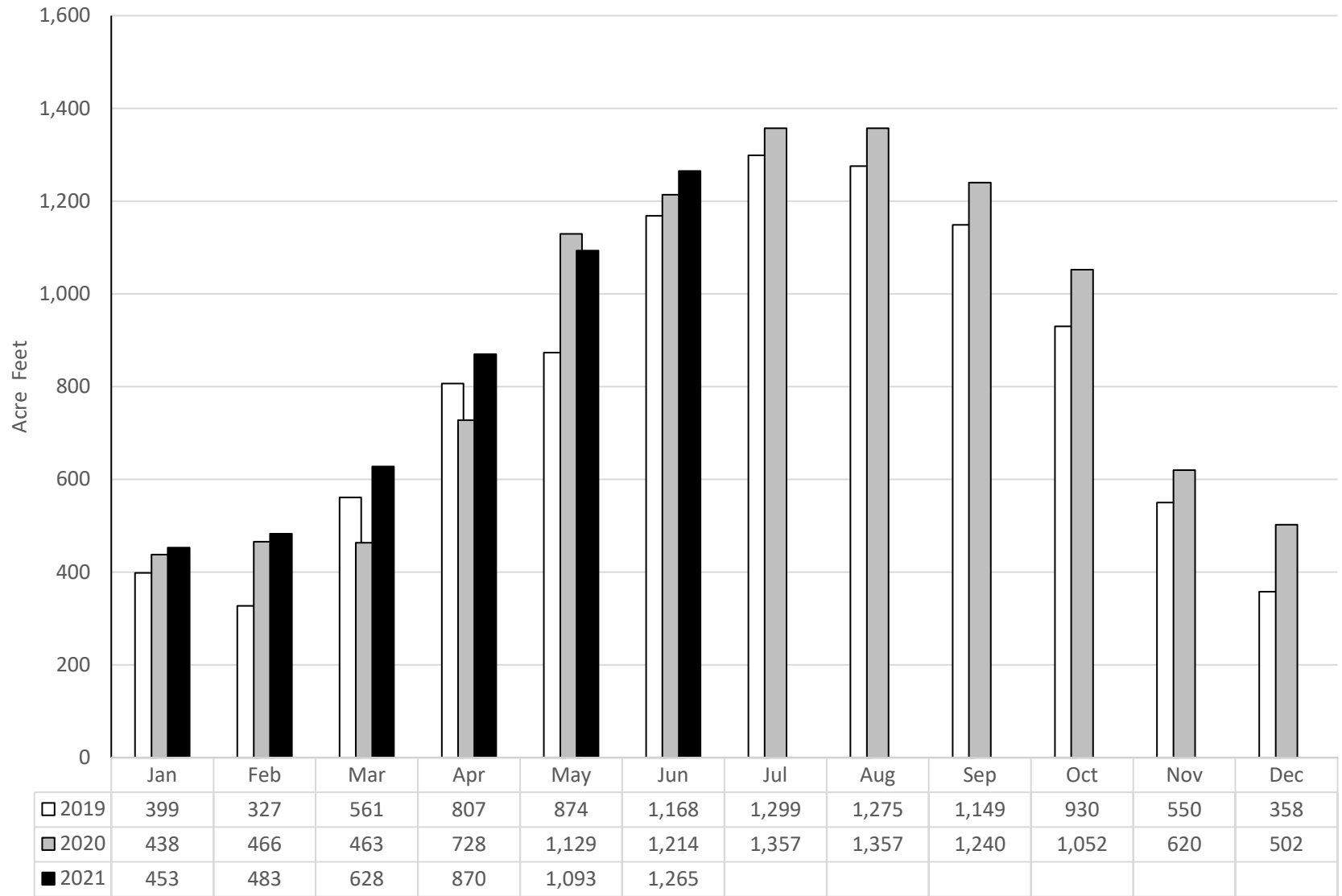
City of Henderson Water Production



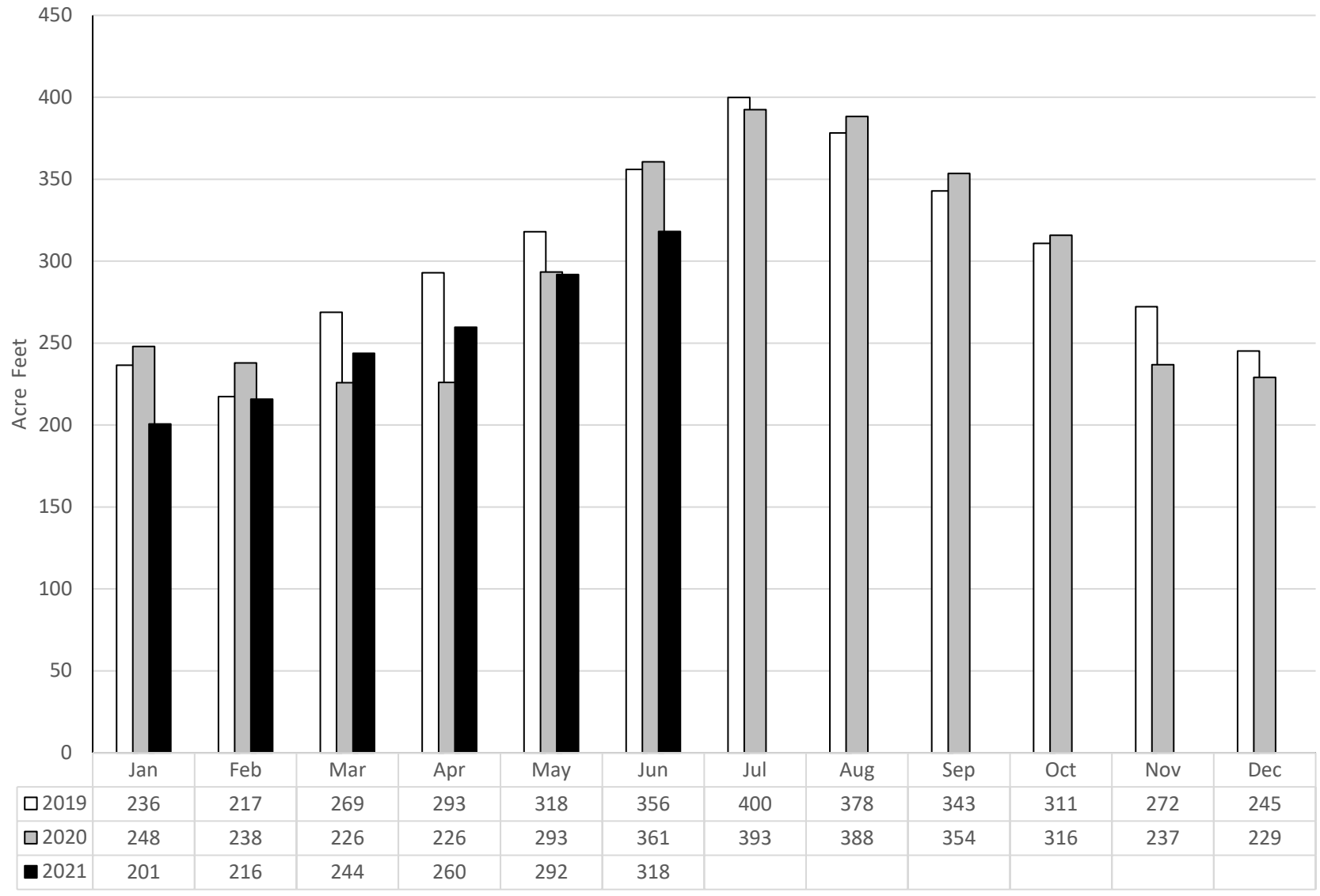
City of North Las Vegas Water Production



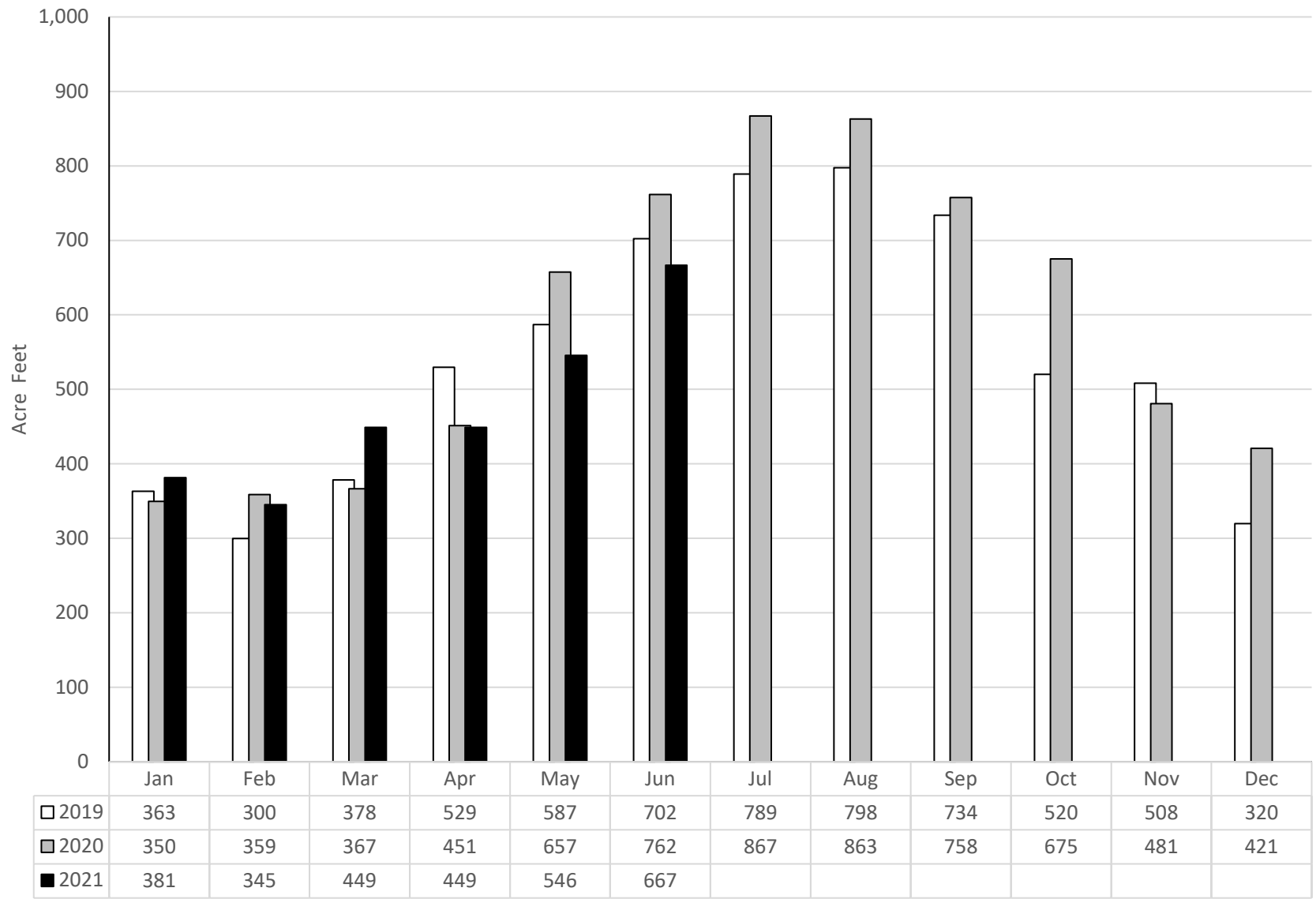
Boulder City Water Production



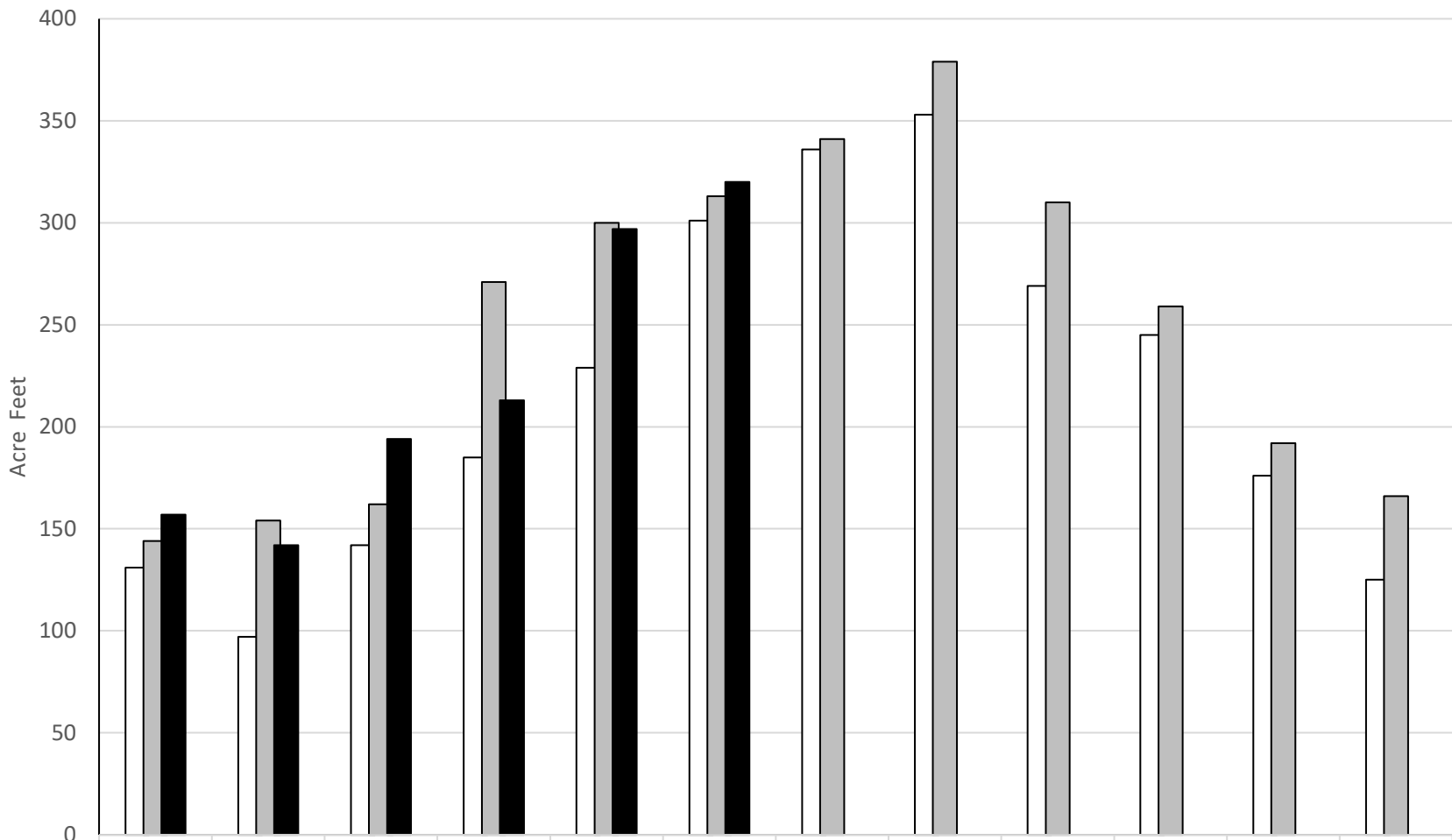
Big Bend Water District Water Production



Virgin Valley Water District Water Production



Moapa Valley Water District Water Production



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2019	131	97	142	185	229	301	336	353	269	245	176	125
2020	144	154	162	271	300	313	341	379	310	259	192	166
2021	157	142	194	213	297	320						

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		
	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Jan	102.48	104.74	98.48	43.54	41.67	41.06	17.51	17.58	17.84	25.24	24.98	24.71	1.21	1.21	1.21
Feb	101.90	104.72	97.50	43.56	41.68	41.23	17.44	17.68	17.73	24.83	24.77	24.55	1.21	1.20	1.21
Mar	104.00	98.35	101.17	43.27	41.67	41.67	17.60	17.47	17.87	24.52	23.88	25.74	1.19	1.23	1.19
Apr	105.63	89.42	104.07	44.01	40.09	41.84	17.60	16.84	17.98	23.62	23.96	25.83	1.20	1.20	1.20
May	106.42	92.00	105.77	43.74	41.13	42.14	17.87	17.26	17.72	23.72	24.65	25.45	1.29	1.26	1.27
Jun	107.84	98.74	109.55	43.17	43.20	42.58	18.18	18.18	18.27	23.27	24.51	26.46	1.28	1.20	1.25
Jul	109.74	102.12		42.02	43.52		18.47	18.74		23.67	25.00		1.31	1.33	
Aug	109.74	103.15		42.27	43.41		18.70	18.86		24.01	25.40		1.30	1.37	
Sep	108.48	102.59		42.15	43.28		18.49	18.65		23.70	25.03		1.29	1.33	
Oct	105.63	101.73		41.87	42.73		18.06	18.46		23.65	24.89		1.23	1.31	
Nov	105.45	99.13		41.85	42.99		18.00	18.19		25.93	24.10		1.23	1.24	
Dec	104.93	96.37		41.86	42.52		17.87	17.87		25.23	24.21		1.22	1.21	
ANNUAL	106.02	99.42		42.78	42.32	41.75	17.98	17.98		24.48	24.62		1.24	1.26	

* Includes estimated .5 MGD NLV

Does This continue to be Correct

Historic Trends Influent Wastewater Flows

	Searchlight			Blue Diamond			MVWRC			Laughlin			Mesquite			Indian Springs		
Month	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Jan	0.046	0.033	0.030	0.014	0.018	0.017	0.164	0.166	0.191	1.66	1.85	1.47	1.82	1.77	1.76	0.106	0.121	0.103
Feb	0.048	0.041	0.029	0.009	0.016	0.020	0.181	0.179	0.181	1.77	1.85	1.52	1.83	1.76	1.81	0.112	0.118	0.105
Mar	0.042	0.030	0.034	0.009	0.019	0.020	0.188	0.196	0.180	1.84	1.50	1.58	1.89	1.70	1.82	0.101	0.113	0.107
Apr	0.041	0.026	0.027	0.008	0.015	0.016	0.193	0.191	0.172	1.89	1.02	1.69	1.87	1.67	1.81	0.112	0.108	0.118
May	0.045	0.030	0.340	0.008	0.023	0.016	0.176	0.183	0.163	2.03	1.14	1.79	1.81	1.72	1.75	0.114	0.125	0.118
Jun	0.032	0.032	0.028	0.005	0.015	0.014	0.157	0.159	0.168	2.24	1.86	1.87	1.80	1.86	1.76	0.121	0.121	0.117
Jul	0.039	0.034		0.014	0.018		0.149	0.149		2.45	1.90		1.80	2.02		0.117	0.117	
Aug	0.037	0.034		0.017	0.016		0.148	0.146		2.22	1.98		1.79	2.03		0.120	0.115	
Sep	0.039	0.033		0.022	0.017		0.148	0.138		2.14	1.90		1.84	2.03		0.119	0.109	
Oct	0.031	0.029		0.020	0.018		0.148	0.158		2.02	1.80		1.83	1.99		0.127	0.111	
Nov	0.035	0.028		0.017	0.015		0.164	0.170		1.99	1.57		1.89	1.96		0.120	0.096	
Dec	0.034	0.028		0.017	0.018		0.168	0.167		1.62	1.45		1.74	1.94		0.114	0.101	
ANNUAL	0.039	0.032	0.081	0.013	0.017	0.017	0.165	0.167	0.176	1.99	1.65	1.65	1.75	1.87		0.103	0.113	0.111

Non-Discharging Facilities

Boulder City				
(Avg. in MGD)			(Total in MG)	
Month	Influent Flow	Reuse	Influent Flow	Reuse
Jan	1.21	0.38	37.50	11.80
Feb	1.21	0.52	33.90	14.60
Mar	1.19	0.69	36.90	21.40
Apr	1.20	0.77	36.00	23.10
May	1.27	0.62	39.40	19.20
Jun	1.25	0.98	37.50	29.40
Jul				
Aug				
Sep				
Oct				
Nov				
Dec				
Annual	1.22	0.66	221.20	119.50

Las Vegas Wash and Colorado River Dischargers (2021)

Month	Clark County Water Reclamation District* (Avg. in MGD)					City of Las Vegas (Avg. in MGD)						City of Henderson (Avg. in MGD)			City of North Las Vegas (Avg. in MGD)		
	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	98.48	8.26	0.00	8.26	90.22	41.06	0.38	0.00	0.00	0.38	40.68	24.71	4.18	16.34	17.84	0.00	17.84
Feb	97.50	7.56	0.00	7.56	89.94	41.23	0.44	0.00	0.00	0.44	40.79	24.55	4.22	15.22	17.73	0.00	17.73
Mar	101.17	7.80	0.00	7.80	93.37	41.67	0.46	0.00	0.00	0.46	41.21	25.74	5.24	16.04	17.87	0.00	17.87
Apr	104.07	8.16	0.00	8.16	95.91	41.84	1.19	0.00	0.00	1.19	40.65	25.83	5.88	17.24	17.98	1.10	19.08
May	105.77	10.29	0.00	10.29	95.48	42.14	1.73	0.00	0.00	1.73	40.41	25.45	6.83	16.28	17.72	0.90	18.62
Jun	109.55	10.50	0.00	10.50	99.05	42.58	2.20	0.00	0.00	2.20	40.38	26.46	9.19	14.34	18.27	0.90	19.17
Jul				0.00	0.00					0.00	0.00						0.00
Aug				0.00	0.00					0.00	0.00						0.00
Sep				0.00	0.00					0.00	0.00						0.00
Oct				0.00	0.00					0.00	0.00						0.00
Nov				0.00	0.00					0.00	0.00						0.00
Dec				0.00	0.00					0.00	0.00						0.00
YTD	102.76	8.76	0.00	4.38	47.00	41.75	1.07	0.00	0.00	0.53	20.34	25.46	5.92	15.91	17.90	0.48	9.19

Las Vegas Wash and Colorado River Dischargers (2021)

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	182.09	12.82	165.08	1.47	0.00	1.47	15,844.82
Feb	181.01	12.21	163.69	1.52	0.00	1.52	14,702.78
Mar	186.45	13.49	168.50	1.58	0.00	1.58	15,136.11
Apr	189.72	16.33	172.88	1.69	1.00	2.69	15,624.89
May	191.08	19.75	170.79	1.79	2.00	3.79	15,537.31
Jun	196.86	22.80	172.94	1.87	3.00	4.87	15,823.89
Jul							
Aug							
Sep							
Oct							
Nov							
Dec							
YTD	1127.21	97.40	1013.87	9.90	6.00	15.90	92669.80

Water Production (2021)

(Totals in AF)

Month	Las Vegas Valley Water District			City of Henderson			City of North Las Vegas			Boulder City			Nellis Air Force Base			Totals	
	WELLS	SNWS	TOTAL	SNWS	BMI	TOTAL	WELLS	SNWS	TOTAL	RMTP	SNWS	TOTAL	WELL	SNWS	TOTAL	WELLS	SNWS
Jan	995	18,739	19,734	4,849	96	4,946	0	3,773	3,773	127	326	453	0.01	61	61	995	27,875
Feb	2,762	15,727	18,489	4,120	530	4,650	0	3,539	3,539	134	349	483	0.02	61	61	2,762	23,929
Mar	0	23,496	23,496	5,182	920	6,102	0	4,371	4,371	181	447	628	0.05	75	75	0	33,753
Apr	0	27,257	27,257	6,039	1,226	7,266	97	4,728	4,825	273	597	870	61.04	82	143	158	38,977
May	4,407	29,385	33,792	8,305	1,021	9,325	142	5,580	5,721	367	727	1,093	3.27	94	97	4,552	44,457
Jun	6,476	31,121	37,597	9,560	445	10,005	62	6,200	6,262	450	815	1,265	4.61	102	106	6,543	48,247
Jul																	
Aug																	
Sep																	
Oct																	
Nov																	
Dec																	
YTD	14,640	145,726	160,366	38,056	4,239	42,294	301	28,191	28,492	1,531	3,260	4,791	69	474	543	15,010	217,238

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		
	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Jan	19,868	20,297	19,734	3,343	4,728	4,946	3,378	3,682	3,773	399	438	453	236	248	201	363	350	381	131	144	157
Feb	17,092	19,348	18,489	2,754	4,525	4,650	3,020	3,551	3,539	327	466	483	217	238	216	300	359	345	97	154	142
Mar	22,272	21,008	23,496	4,059	5,125	6,102	3,709	3,865	4,371	561	463	628	269	226	244	378	367	449	142	162	194
Apr	26,005	22,827	27,257	5,344	6,037	7,266	4,311	4,198	4,825	807	728	870	293	226	260	529	451	449	185	271	213
May	29,685	32,374	33,792	6,758	8,839	9,325	4,827	5,478	5,721	874	1,129	1,093	318	293	292	587	657	546	229	300	297
Jun	34,635	35,455	37,597	8,689	9,782	10,005	5,578	5,887	6,262	1,168	1,214	1,265	356	361	318	702	762	667	301	313	320
Jul	39,083	40,024		9,325	11,045		6,291	6,562		1,299	1,357		400	393		789	867		336	341	
Aug	39,367	40,043		10,011	10,990		6,405	6,695		1,275	1,357		378	388		798	863		353	379	
Sep	33,729	34,491		8,797	9,562		5,560	6,015		1,149	1,240		343	354		734	758		269	310	
Oct	29,063	30,141		6,913	8,368		4,960	5,375		930	1,052		311	316		520	675		245	259	
Nov	21,713	23,331		4,140	5,812		3,989	4,316		550	620		272	237		508	481		176	192	
Dec	19,381	20,579		3,085	5,318		3,592	3,902		358	502		245	229		320	421		125	166	
ANNUAL	331,890	339,918	160,366	73,217	90,131	42,294	55,618	59,525	28,492	9,697	10,567	4,791	3,639	3,508	1,530	6,528	7,009	2,836	2,589	2,991	1,323

Wastewater/Water Production Ratios

*Calc. as combined CLV and CCWRDwastewater / LVVWD Production

**Calc. as the sum of all entities wastewater / the sum of all entities production

Month	City of Las Vegas/Clark County*			City of Henderson			City of North Las Vegas			Boulder City			Big Bend Water District			All Entities **		
	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021
Jan	0.70	0.69	0.67	0.72	0.50	0.48	0.49	1.55	0.45	0.29	0.26	0.25	0.85	0.67	0.70	0.67	0.62	0.60
Feb	0.73	0.65	0.64	0.77	0.47	0.45	0.50	1.67	0.43	0.32	0.22	0.22	0.85	0.70	0.60	0.70	0.59	0.58
Mar	0.63	0.63	0.58	0.57	0.44	0.40	0.45	1.70	0.39	0.20	0.25	0.18	0.77	0.65	0.62	0.59	0.57	0.52
Apr	0.53	0.52	0.49	0.41	0.37	0.33	0.38	1.90	0.34	0.14	0.15	0.13	0.72	0.59	0.60	0.49	0.47	0.44
May	0.48	0.39	0.42	0.33	0.27	0.26	0.35	2.34	0.29	0.14	0.11	0.11	0.63	0.61	0.58	0.44	0.35	0.37
Jun	0.40	0.37	0.37	0.25	0.23	0.24	0.30	2.61	0.27	0.10	0.09	0.09	0.55	0.58	0.54	0.36	0.33	0.33
Jul	0.37	0.35		0.24	0.22		0.28	2.76		0.10	0.09		0.51	0.58		0.33	0.31	
Aug	0.37	0.35		0.23	0.22		0.28	2.77		0.10	0.10		0.53	0.56		0.33	0.31	
Sep	0.41	0.39		0.25	0.24		0.31	2.61		0.10	0.10		0.51	0.57		0.36	0.34	
Oct	0.48	0.46		0.33	0.28		0.35	2.27		0.13	0.12		0.51	0.62		0.43	0.40	
Nov	0.62	0.56		0.58	0.38		0.42	1.95		0.21	0.18		0.63	0.67		0.58	0.50	
Dec	0.72	0.64		0.78	0.43		0.47	1.69		0.32	0.23		0.66	0.63		0.69	0.57	
AVG.	0.50	0.47	0.50	0.37	0.31	0.33	0.36	2.16	0.35	0.14	0.13	0.14	0.64	0.62	0.61	0.46	0.42	0.45

Water Production and Water Flows

Monthly flows in AF

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	19,734	13,275	4,946	2,351	3,773	1,697	453	115	201	139	29,106	17,578
Feb	18,489	11,921	4,650	2,110	3,539	1,524	483	104	216	130	27,376	15,788
Mar	23,496	13,589	6,102	2,449	4,371	1,700	628	113	244	150	34,841	18,001
Apr	27,257	13,433	7,266	2,378	4,825	1,655	870	110	260	155	40,478	17,733
May	33,792	14,071	9,325	2,421	5,721	1,686	1,093	121	292	170	50,224	18,470
Jun	37,597	14,006	10,005	2,436	6,262	1,682	1,265	115	318	172	55,447	18,411
Jul												
Aug												
Sep												
Oct												
Nov												
Dec												
YTD	160,366	80,296	42,294	14,145	28,492	9,944	4,791	679	1,530	917	237,473	105,981

Recharge and Recovery

Monthly Flows in AF

*Data provided by SNWA

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	0	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 2021	0	0	0	0	0	0	0
Total 2020	0	0	0	672	0	0	0
Total 2019	0	0	0	0	0	0	0