



Colorado River Municipal Water District

Monthly Water Report

March 2020

COLORADO RIVER MUNICIPAL WATER DISTRICT

PO Box 869, 400 East 24th Street

Big Spring, Texas 79721-0869

**Colorado River Municipal Water District
Water Delivered
March 2020**

Raw Water System

Member Cities	Total Deliveries This Month (Gal)	Daily Average For Month (Gal)	2020 Year to Date (Gal)
Big Spring	128,972,000	4,160,387	376,538,000
Odessa	505,026,200	16,291,168	1,439,138,000
Snyder	45,620,000	1,471,613	139,193,000
Subtotal	679,618,200	21,923,168	1,954,869,000

Municipal Customers

Grandfalls	0	0	13,000
Midland - 1966 Contract	7,616,600	245,697	575,082,800
Midland - Ivie Contract	387,378,000	12,496,065	537,058,000
Millersview Doole WSC	25,038,000	807,677	83,218,200
San Angelo - Spence	0	0	0
San Angelo - Ivie	292,904,000	9,448,516	790,172,000
Stanton	5,819,400	187,723	16,618,500
Abilene	76,431,000	2,465,516	225,903,000
Subtotal	795,187,000	25,651,194	2,228,065,500

Industrial Customers

Alon Rural Meters	2,220,900	71,642	6,593,540
Luminant Generation	0	0	202,000
Occidental	1,040	34	14,230
Parallel Petroleum	42,140	1,359	91,360
Power Resources	1,307,000	42,161	14,175,000
Subtotal	3,571,080	115,196	21,076,130

Diverted Water System

Industrial Customers

BASA Resources	7,654,800	246,929	23,134,400
Sabinal	0	0	100
Rover Operating	256,290	8,267	256,290
Sheridan Production	96,710	3,120	366,540
Subtotal	8,007,800	258,316	23,757,330

Total Deliveries	1,486,384,080	47,947,874	4,227,767,960
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**COLORADO RIVER MUNICIPAL WATER DISTRICT
RESERVOIR REPORT
March 2020**

<u>Lake J. B. Thomas</u>	<u>This Month</u>	<u>2020 Year-to-Date Total</u>
<u>CONTENTS IN ACRE FEET</u>		
CAPACITY WHEN FULL	200,604	
CAPACITY THIS DATE	51,267	
PERCENT FULL	25.56%	
FREE CAPACITY THIS DATE	149,337	
INFLOWS*	3,707	5,311
PASS THROUGH / RELEASES	0	0
WITHDRAWALS	502	2,770
EVAPORATION*	(729)	(2,263)

<u>ELEVATION ABOVE MEAN SEA LEVEL</u>		
ELEVATION WHEN FULL	2,258.00	
ELEVATION THIS DATE	2,229.33	

E. V. Spence Reservoir

<u>CONTENTS IN ACRE FEET</u>		
CAPACITY WHEN FULL	517,272	
CAPACITY THIS DATE	140,975	
PERCENT FULL	27.25%	
FREE CAPACITY THIS DATE	376,297	
INFLOWS*	3,633	7,959
PASS THROUGH / RELEASES	0	508
WITHDRAWALS	3	1,203
EVAPORATION*	(768)	(4,911)

<u>ELEVATION ABOVE MEAN SEA LEVEL</u>		
ELEVATION WHEN FULL	1,898.00	
ELEVATION THIS DATE	1,861.76	

**COLORADO RIVER MUNICIPAL WATER DISTRICT
RESERVOIR REPORT
March 2020**

	<u>This Month</u>	<u>2020 Year-to-Date Total</u>
<u>O. H. Ivie Reservoir</u>		
<i><u>CONTENTS IN ACRE FEET</u></i>		
CAPACITY WHEN FULL	554,340	
CAPACITY THIS DATE	399,657	
PERCENT FULL	72.10%	
FREE CAPACITY THIS DATE	154,683	
INFLOWS*	16,085	25,516
PASS THROUGH / RELEASES	148	457
WITHDRAWALS	3,837	8,756
SPILLS	0	0
EVAPORATION*	(430)	(5,174)
<i><u>ELEVATION ABOVE MEAN SEA LEVEL</u></i>		
ELEVATION WHEN FULL	1,551.50	
ELEVATION THIS DATE	1,542.55	

Moss Creek Lake

<i><u>CONTENTS IN ACRE FEET</u></i>		
CAPACITY WHEN FULL	3,441	
CAPACITY THIS DATE	2,631	
PERCENT FULL	76.46%	
FREE CAPACITY THIS DATE	810	
INFLOWS*	32	131
PASS THROUGH / RELEASES	0	0
WITHDRAWALS	273	(184)
SPILLS	0	0
EVAPORATION*	(61)	(123)
<i><u>ELEVATION ABOVE MEAN SEA LEVEL</u></i>		
ELEVATION WHEN FULL	2,336.50	
ELEVATION THIS DATE	2,331.07	

Reservoir Summary						
Reservoir	Elevation	Current Capacity (Acre Feet)	Year to Date Inflow (Acre Feet)	Year to Date Withdrawals (Acre Feet)	Year to Date Pass Through / Releases (Acre Feet)	Year to Date Evaporation (Acre Feet)
Lake J.B. Thomas	2,229.33	51,267	5,311	2,770	0	(2,263)
E.V. Spence Reservoir	1,861.76	140,975	7,959	1,203	508	(4,911)
O.H. Ivie Reservoir	1,542.55	399,657	25,516	8,756	457	(5,174)
Moss Creek Lake	2,331.07	2,631	131	(184)	0	(123)
	Total	594,530	38,917	12,545	965	(12,471)

* Inflow and Evaporation are approximate.

**COLORADO RIVER MUNICIPAL WATER DISTRICT
 DIVERTED / WATER QUALITY ENHANCEMENT SYSTEM
 RESERVOIRS REPORT
 March 2020**

	<u>This Month</u>	<u>2020 Year-to-Date Total</u>
<u>Natural Dam</u>		
<i><u>CONTENTS IN ACRE FEET</u></i>		
CAPACITY WHEN FULL	54,560	
CAPACITY THIS DATE	6,418	
PERCENT FULL	11.76%	
FREE CAPACITY THIS DATE	48,142	
INFLOWS*	0	0
SPILLS	0	0
EVAPORATION*	(552)	(1,117)
<i><u>ELEVATION ABOVE MEAN SEA LEVEL</u></i>		
ELEVATION WHEN FULL	2,457.00	
ELEVATION THIS DATE	2,436.00	
<u>Sulphur Draw Reservoir</u>		
<i><u>CONTENTS IN ACRE FEET</u></i>		
CAPACITY WHEN FULL	7,997	
CAPACITY THIS DATE	348	
PERCENT FULL	4.35%	
FREE CAPACITY THIS DATE	7,649	
INFLOWS*	0	0
PASS THROUGH / RELEASES	0	0
EVAPORATION*	(58)	(118)
<i><u>ELEVATION ABOVE MEAN SEA LEVEL</u></i>		
ELEVATION WHEN FULL	2,541.00	
ELEVATION THIS DATE	2,524.00	

**COLORADO RIVER MUNICIPAL WATER DISTRICT
 DIVERTED / WATER QUALITY ENHANCEMENT SYSTEM
 RESERVOIRS REPORT
 March 2020**

	<u>This Month</u>	<u>2020 Year-to-Date Total</u>
<u>Barber Lake</u>		
<i><u>CONTENTS IN ACRE FEET</u></i>		
CAPACITY WHEN FULL	2,503	
CAPACITY THIS DATE	686	
PERCENT FULL	27.41%	
FREE CAPACITY THIS DATE	1,817	
INFLOWS*	0	0
WIER FLOW	0	0
PUMPED IN	0	133
WITHDRAWALS	0	0
SPILLS	0	0
EVAPORATION*	(27)	(56)
<i><u>ELEVATION ABOVE MEAN SEA LEVEL</u></i>		
ELEVATION WHEN FULL	2,097.00	
ELEVATION THIS DATE	2,083.60	
<u>Red Draw</u>		
<i><u>CONTENTS IN ACRE FEET</u></i>		
CAPACITY WHEN FULL	8,538	
CAPACITY THIS DATE	2,185	
PERCENT FULL	25.59%	
FREE CAPACITY THIS DATE	6,353	
INFLOWS*	0	0
PUMPED IN	237	654
WITHDRAWALS	0	0
SPILLS	0	0
EVAPORATION*	(63)	(127)
<i><u>ELEVATION ABOVE MEAN SEA LEVEL</u></i>		
ELEVATION WHEN FULL	2,445.00	
ELEVATION THIS DATE	2,419.80	

**COLORADO RIVER MUNICIPAL WATER DISTRICT
 DIVERTED / WATER QUALITY ENHANCEMENT SYSTEM
 RESERVOIRS REPORT
 March 2020**

<u>Mitchell County</u>	<u>This Month</u>	<u>2020 Year-to-Date Total</u>
<u>CONTENTS IN ACRE FEET</u>		
CAPACITY WHEN FULL	27,266	
CAPACITY THIS DATE	10,710	
PERCENT FULL	39.28%	
FREE CAPACITY THIS DATE	16,556	
INFLOWS*	0	0
SPILLS	0	0
TRANSFERS IN	0	0
EVAPORATION*	(338)	(684)
<u>ELEVATION ABOVE MEAN SEA LEVEL</u>		
ELEVATION WHEN FULL	2,200.00	
ELEVATION THIS DATE	2,185.00	

Diverted / Water Quality Enhancement System Summary				
Reservoir	Elevation	Capacity	Year to Date Inflow (Acre Feet)	Year to Date Evaporation (Acre Feet)
Natural Dam	2,436.00	6,418	0	(1,117)
Sulphur Draw	2,524.00	348	0	(118)
Barber Lake	2,083.60	686	0	(56)
Red Draw	2,419.80	2,185	0	(127)
Mitchell County Reservoir	2,185.00	10,710	0	(684)
	Total	20,347	0	(2,101)

* Inflow and Evaporation are approximate.

Water Quality Diversions		
Source	Current Month (Acre Feet)	Year to Date (Acre Feet)
Colorado River	0	133
Beals Creek	33	91
	Total	224

**COLORADO RIVER MUNICIPAL WATER DISTRICT
GROUNDWATER REPORT
March 2020**

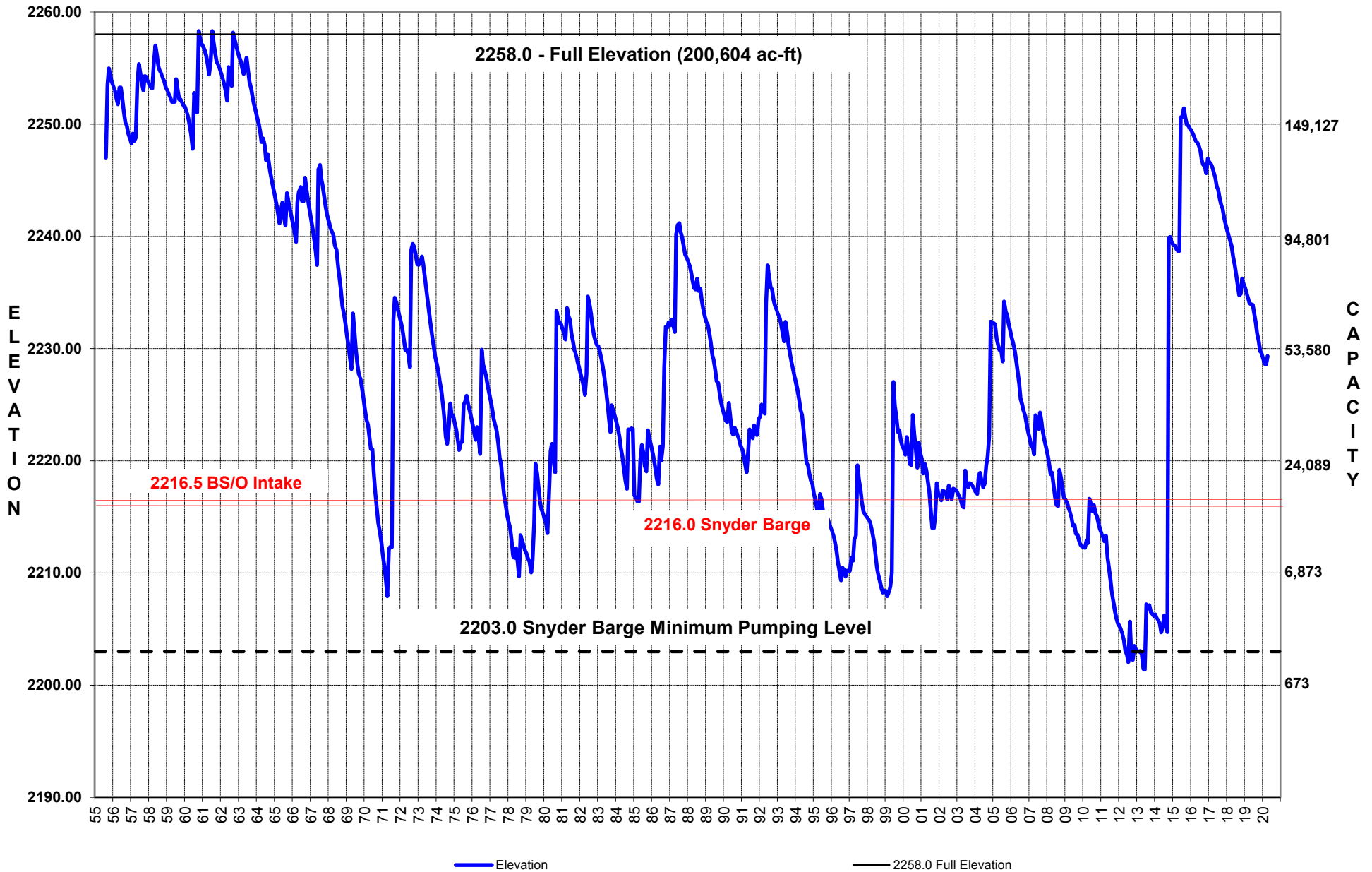
<u>Well Field</u>	<u>Production This Month (Gallons)</u>	<u>Daily Average for Month (Gal)</u>	<u>2020 Production Year-to-Date (Gallons)</u>
Ward County North Well Field	17,767,200	573,135	191,643,400
Ward County South Well Field	0	0	41,899,000
Odessa Well Field (Out of Service)	0	0	0
Martin County Well Field	3,786,300	122,139	45,344,730
Snyder Well Field	0	0	0
Total	21,553,500	695,274	278,887,130

**BIG SPRING RAW WATER PRODUCTION FACILITY
PRODUCTION REPORT
March 2020**

	<u>Production This Month (Gallons)</u>	<u>Daily Average for Month (Gal)</u>	<u>2020 Production Year-to-Date (Gallons)</u>
Big Spring Raw Water Production Facility	6,880,000	221,935	55,210,000

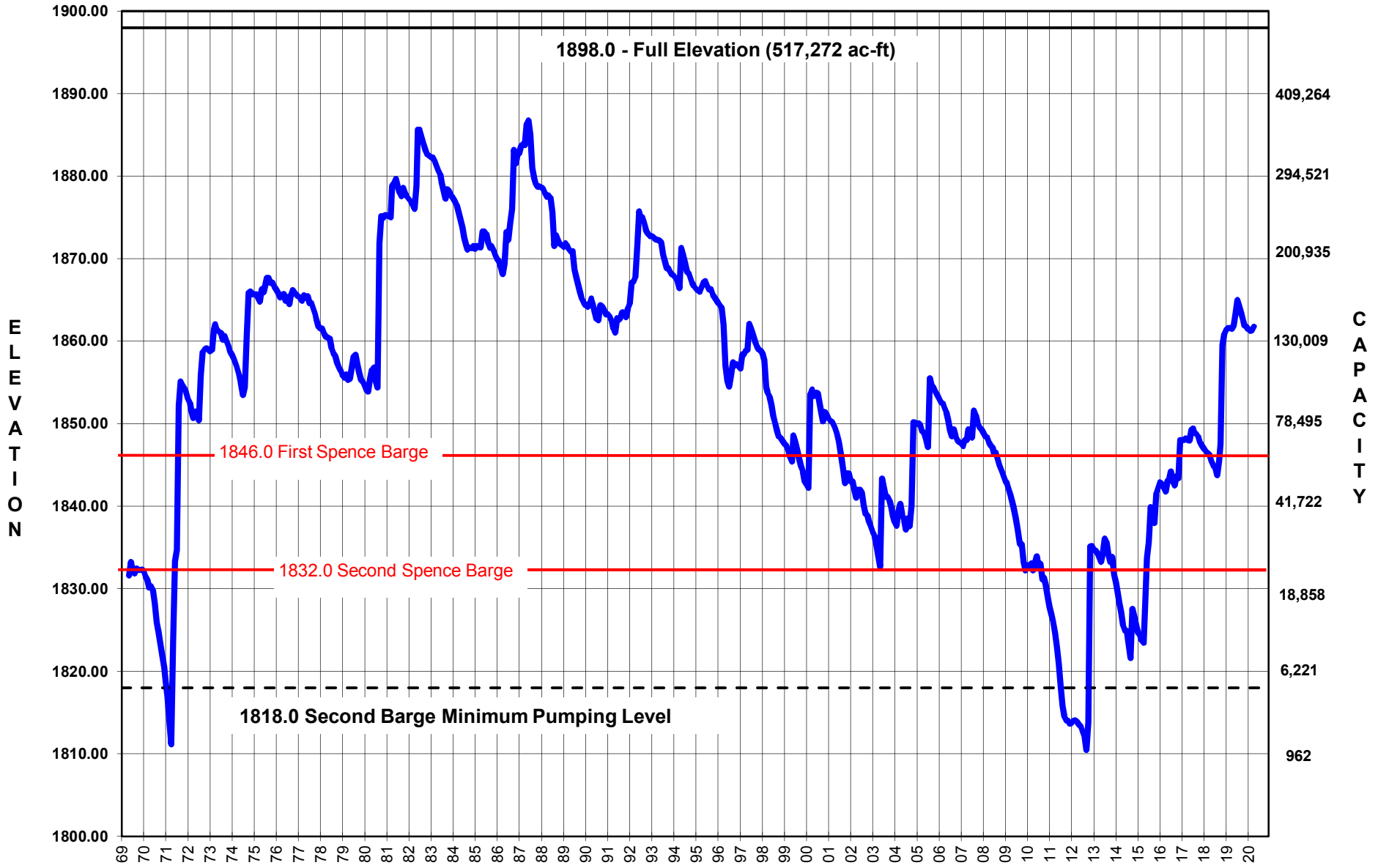
LAKE J.B. THOMAS

Elevation August 1955 - March 2020



E.V. SPENCE RESERVOIR

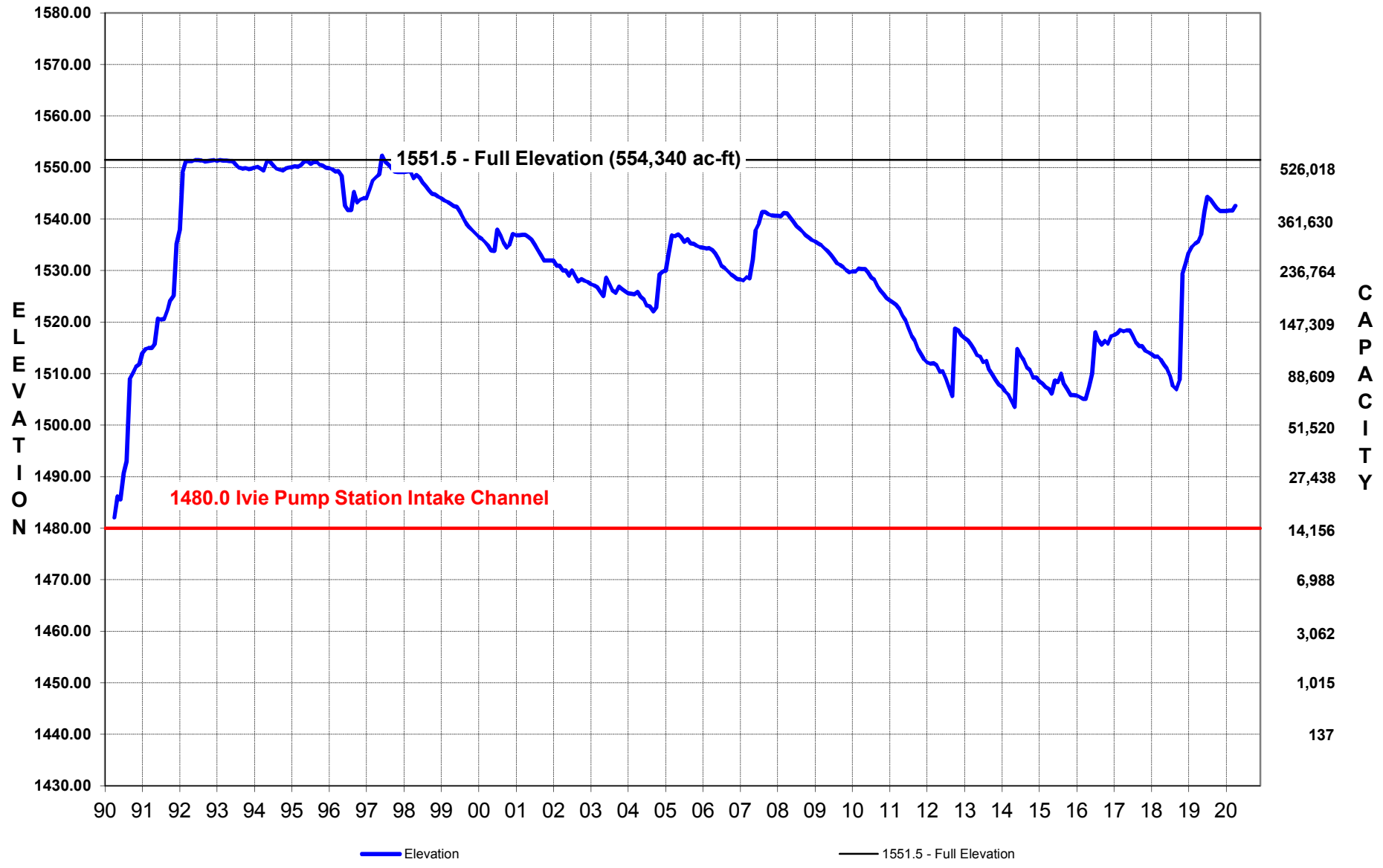
Elevation May 1969 - March 2020



— Elevation — 1898.0-Full Elevation

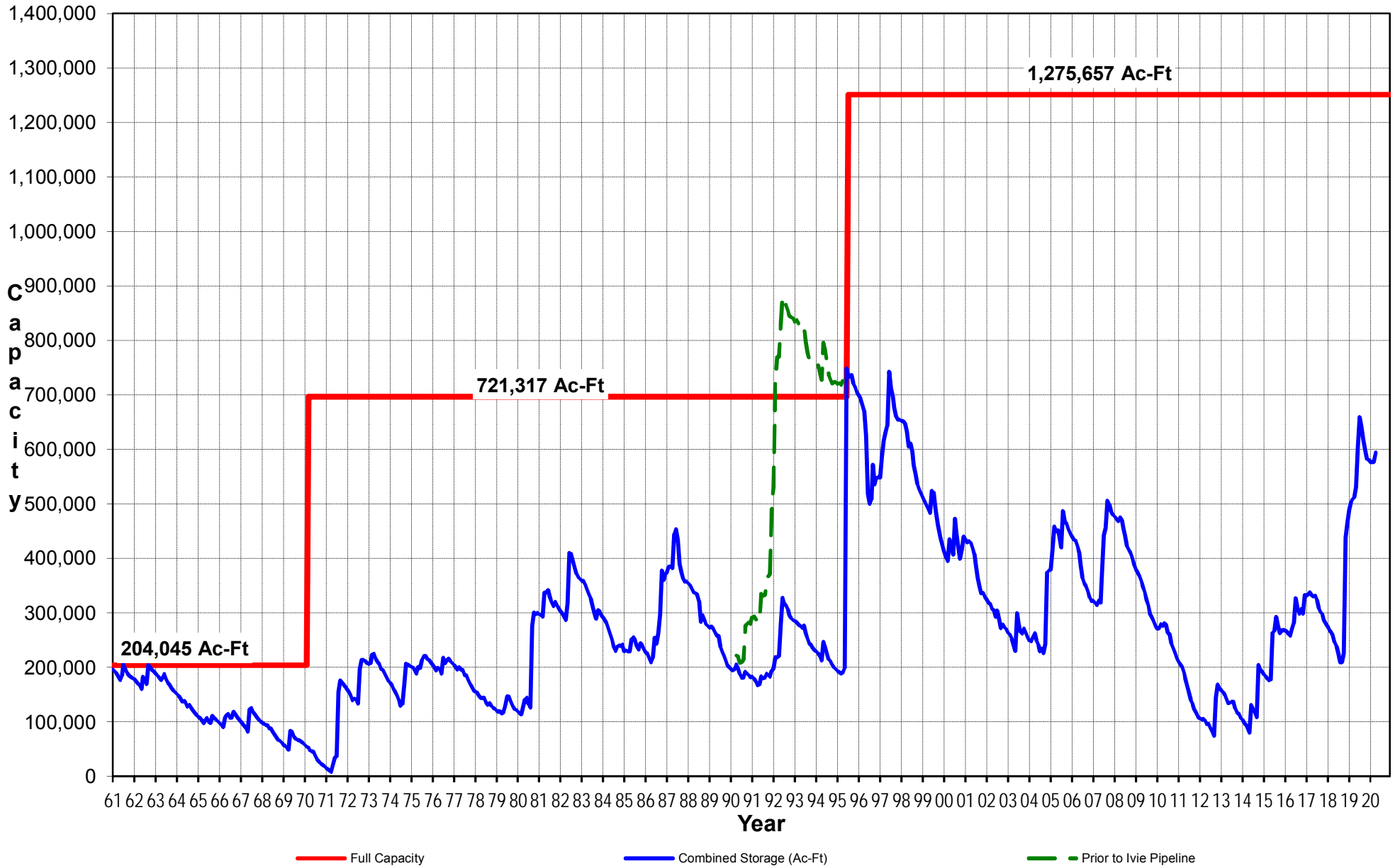
O.H. IVIE RESERVOIR

Elevation April 1990 - March 2020



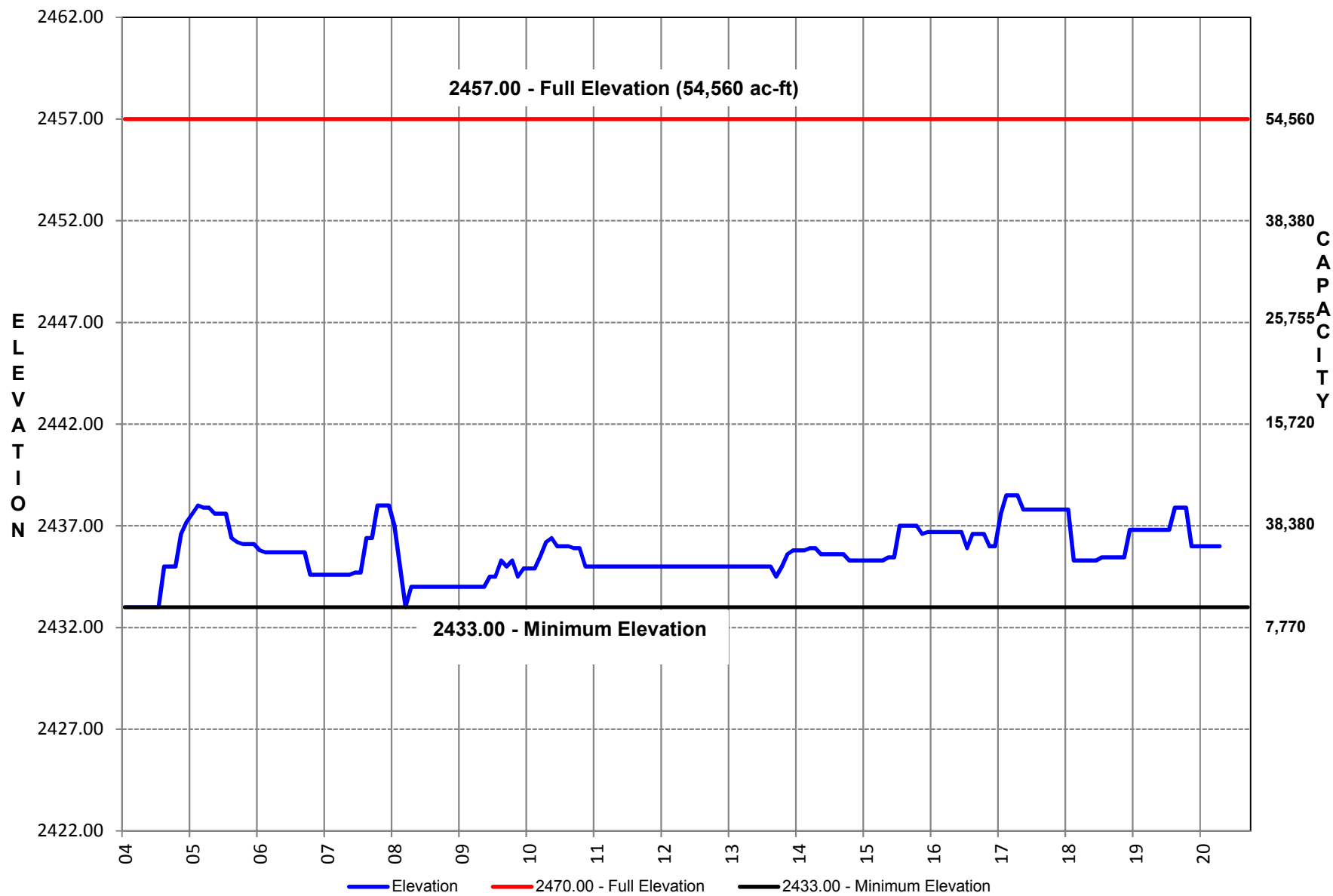
COLORADO RIVER MUNICIPAL WATER DISTRICT

COMBINED STORAGE Thomas, Spence, Moss, Ivie



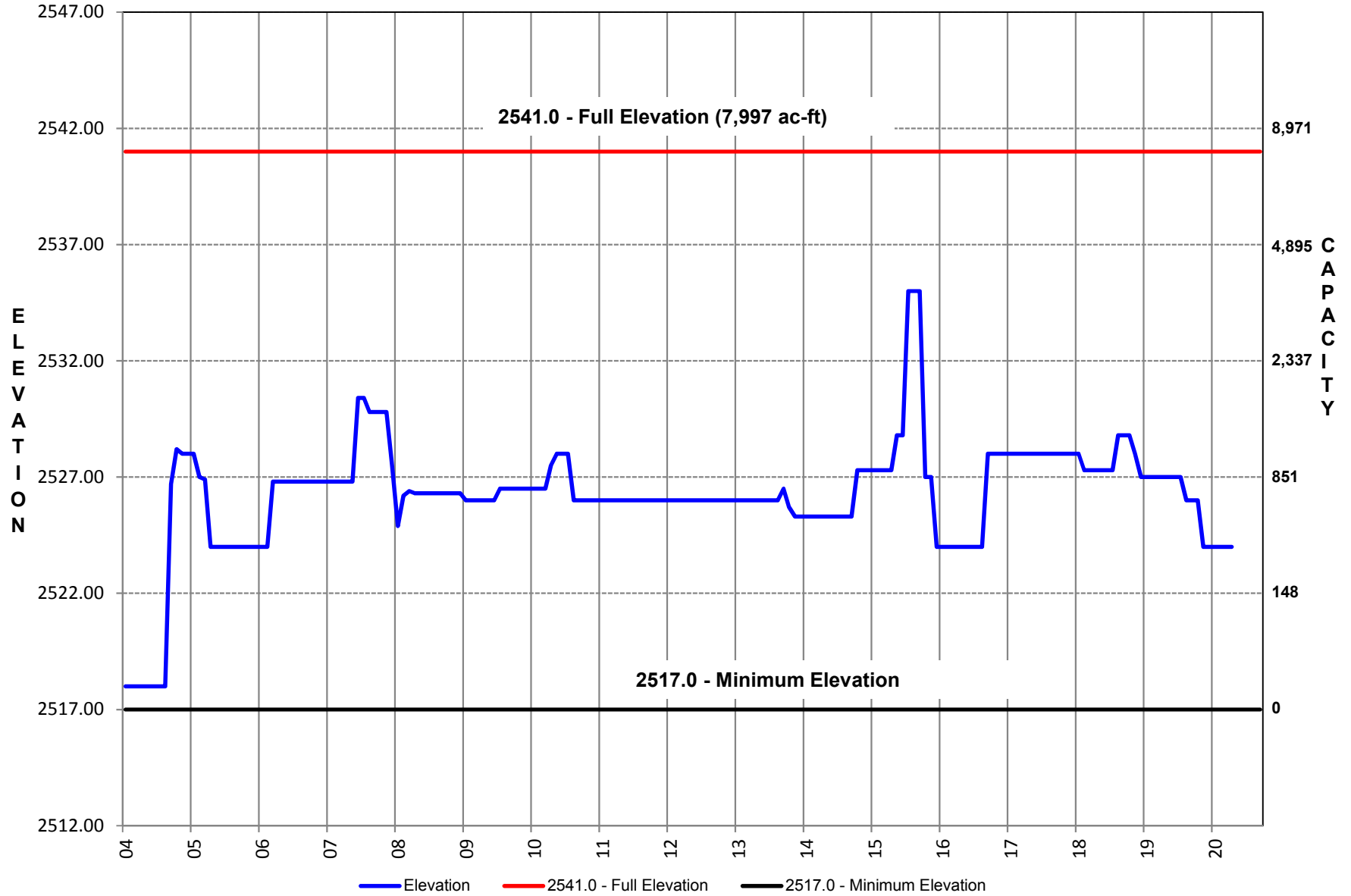
Natural Dam Reservoir

Elevation January 2004 - March 2020



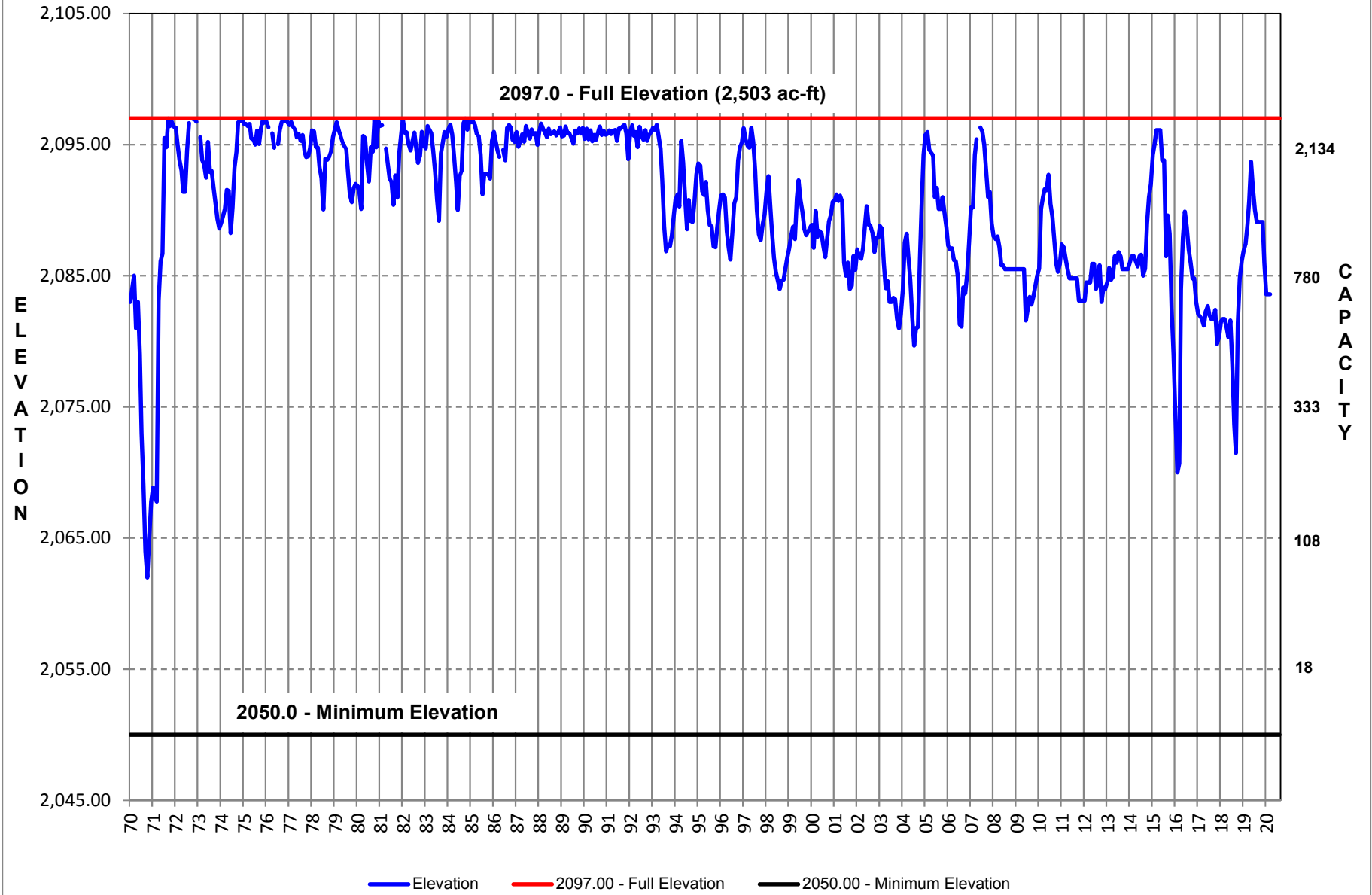
Sulphur Draw Reservoir

Elevation January 2004 - March 2020



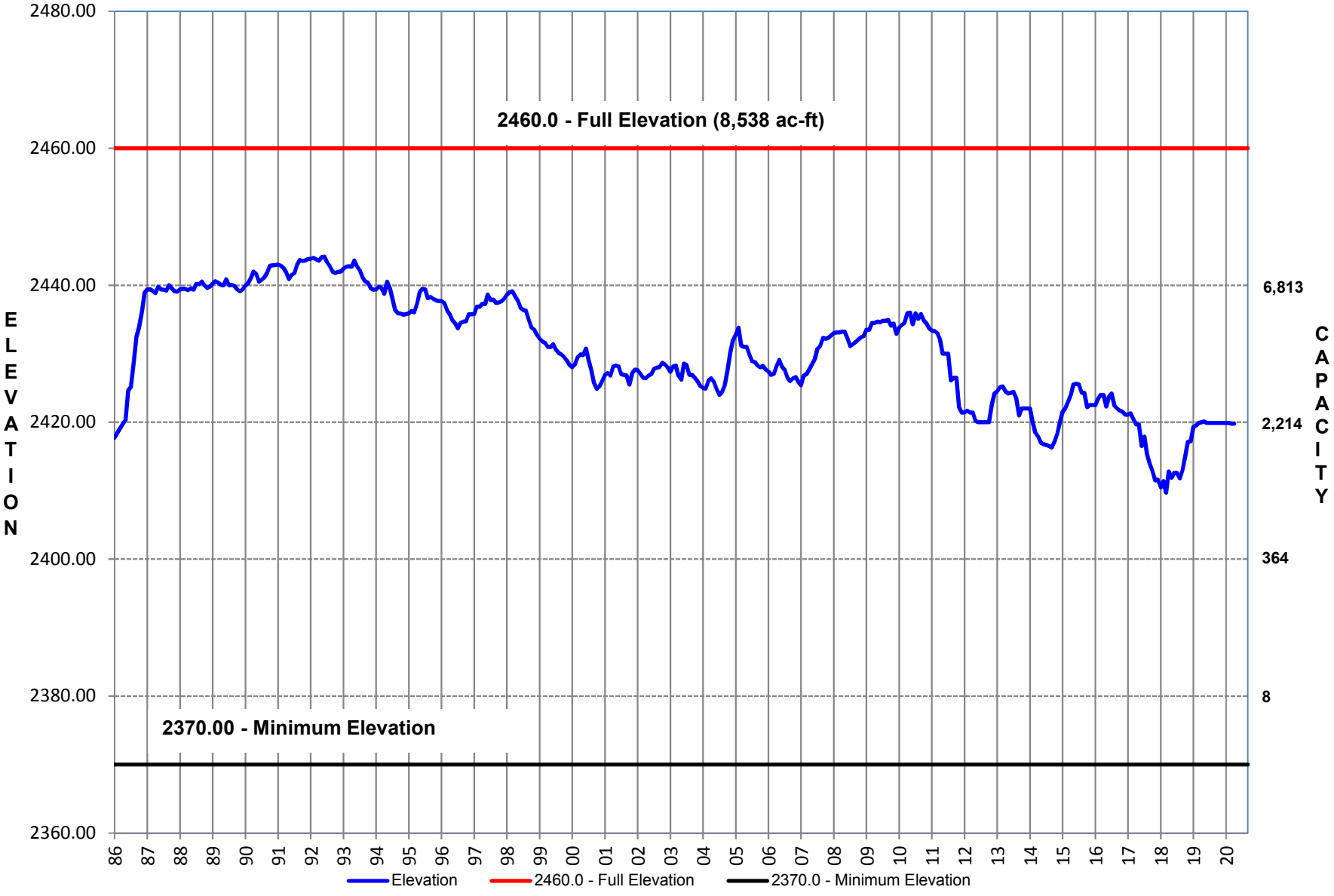
Barber Lake

Elevation February 1970 - March 2020



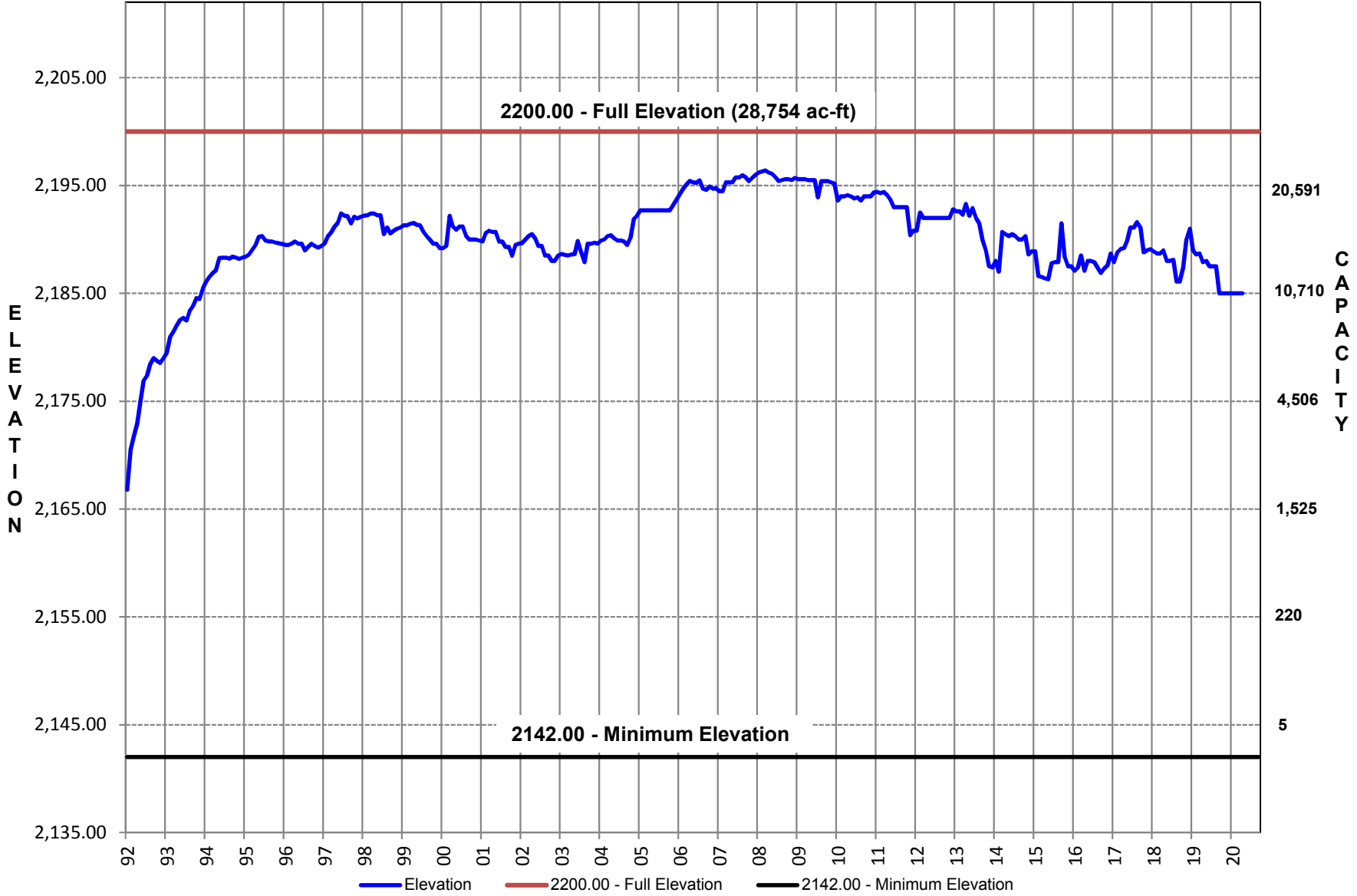
Red Draw

Elevation January 1986 - March 2020



Mitchell County Reservoir

Elevation January 1992 - March 2020



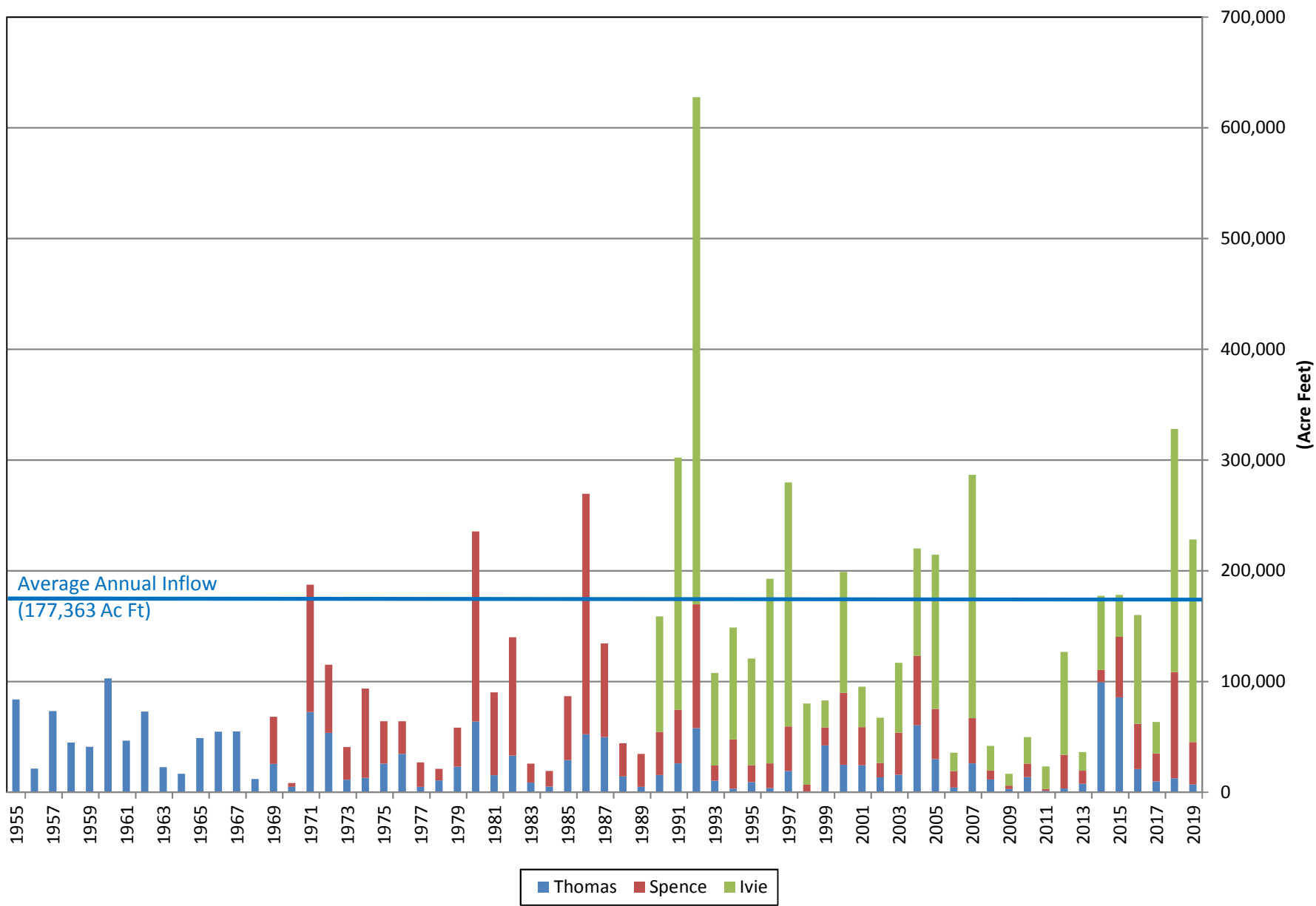
Annual Historical Data

COLORADO RIVER MUNICIPAL WATER DISTRICT

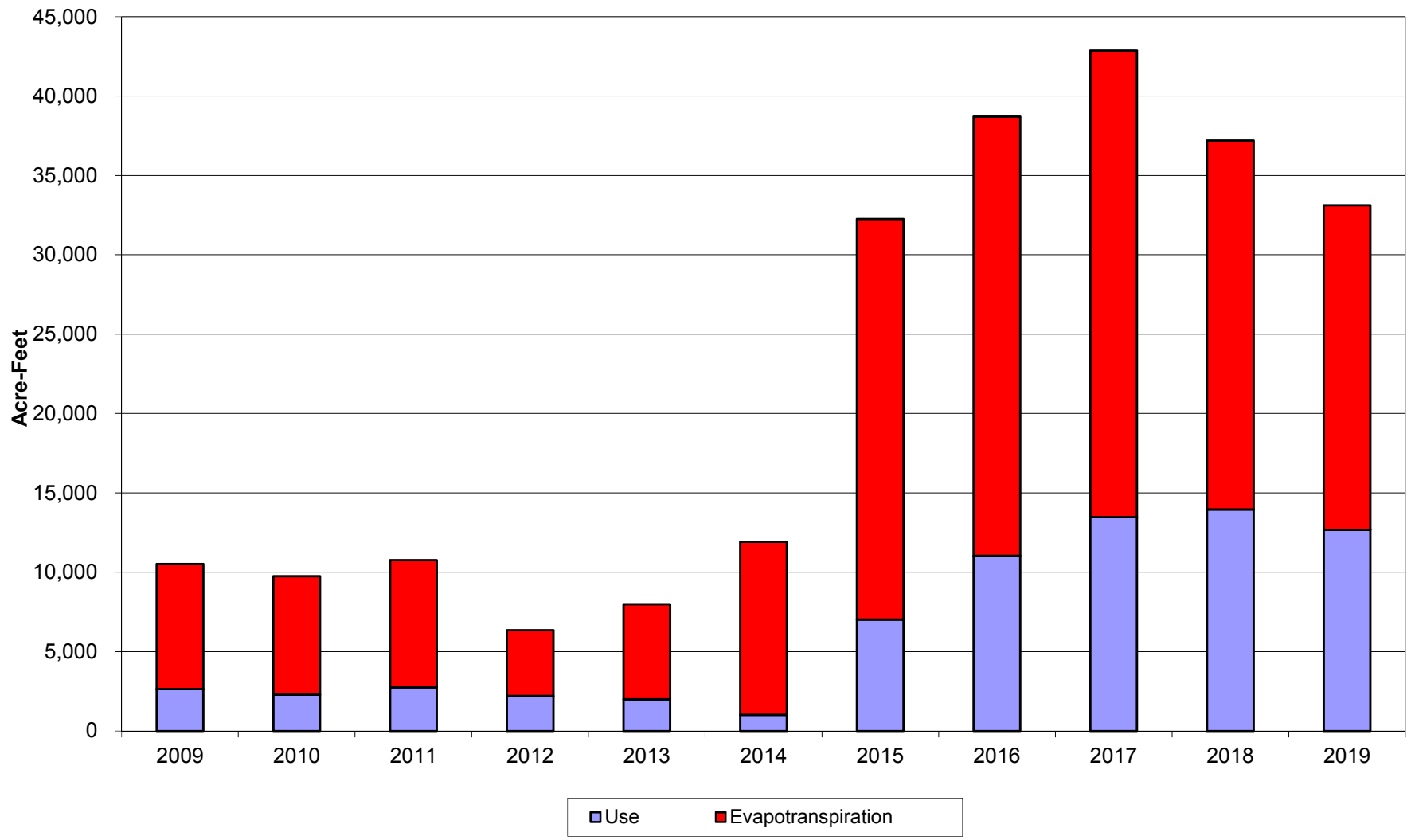
RESERVOIR INFLOW SUMMARY

Calendar Year	J.B. Thomas (AC-FT)	E.V. Spence (AC-FT)	O.H. Ivie (AC-FT)	Total (AC-FT)
2019	7,085	38,224	182,888	228,197
2018	12,555	96,010	219,357	327,922
2017	9,768	25,255	28,405	63,428
2016	20,888	40,914	98,262	160,064
2015	85,698	54,737	37,696	178,131
2014	99,308	11,218	66,819	177,345
2013	7,739	11,754	16,824	36,317
2012	3,408	30,247	93,091	126,746
2011	1,343	1,585	20,411	23,339
2010	13,717	12,034	24,069	49,820
2009	2,901	2,996	10,659	16,556
2008	11,565	8,125	22,229	41,919
2007	26,077	40,861	219,568	286,506
2006	4,339	14,624	16,716	35,679
2005	29,804	45,367	139,349	214,520
2004	60,474	62,624	96,945	220,043
2003	15,828	38,048	62,910	116,786
2002	13,341	13,094	40,928	67,363
2001	24,294	34,528	36,355	95,177
2000	24,713	65,118	109,145	198,976
1999	42,206	16,323	24,368	82,897
1998	856	6,032	73,280	80,168
1997	19,189	40,288	220,148	279,625
1996	3,920	22,193	166,633	192,746
1995	9,176	15,140	96,358	120,674
1994	3,100	44,557	101,101	148,758
1993	10,473	13,600	83,592	107,665
1992	57,863	111,840	457,817	627,520
1991	26,110	48,525	227,569	302,204
1990	15,584	38,972	104,278	158,834
1989	4,832	29,657	-	34,489
1988	14,181	29,968	-	44,149
1987	49,818	84,582	-	134,400
1986	52,244	217,121	-	269,365
1985	29,106	57,565	-	86,671
1984	5,027	14,101	-	19,128
1983	8,661	17,236	-	25,897
1982	33,049	106,852	-	139,901
1981	15,314	74,911	-	90,225
1980	63,972	171,415	-	235,387
1979	23,011	35,366	-	58,377
1978	10,553	10,674	-	21,227
1977	4,802	22,138	-	26,940
1976	34,534	29,457	-	63,991
1975	25,897	38,081	-	63,978
1974	13,095	80,377	-	93,472
1973	11,190	29,502	-	40,692
1972	53,512	61,546	-	115,058
1971	72,391	115,082	-	187,473
1970	4,945	3,364	-	8,309
1969	25,609	42,628	-	68,237
1968	11,977	-	-	11,977
1967	54,971	-	-	54,971
1966	54,777	-	-	54,777
1965	48,975	-	-	48,975
1964	16,660	-	-	16,660
1963	22,580	-	-	22,580
1962	72,841	-	-	72,841
1961	46,456	-	-	46,456
1960	102,836	-	-	102,836
1959	41,080	-	-	41,080
1958	44,921	-	-	44,921
1957	73,285	-	-	73,285
1956	21,240	-	-	21,240
1955	83,755	-	-	83,755
Annual Average	29,468	44,636	103,259	177,363

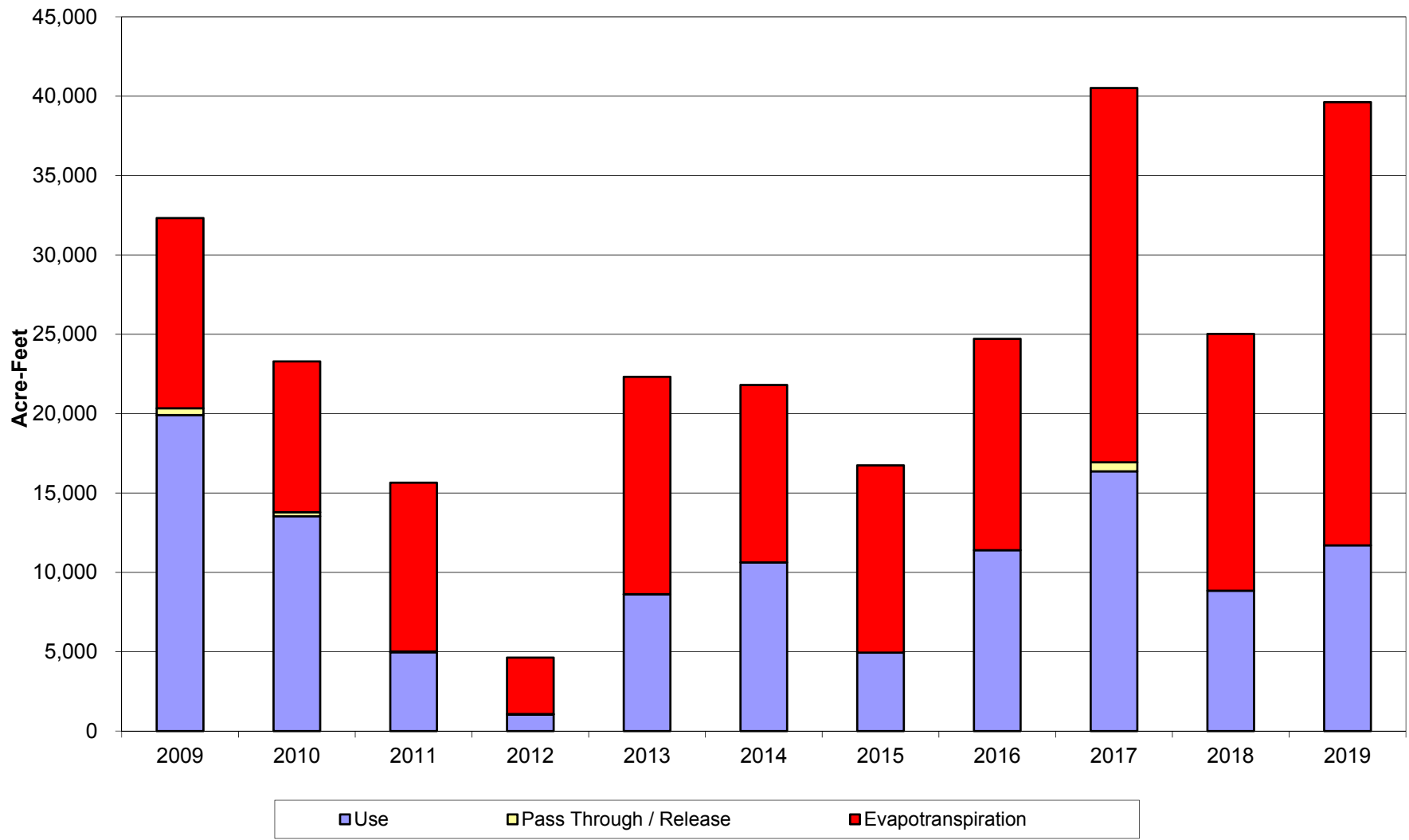
Combined Inflow (1955 through 2019)



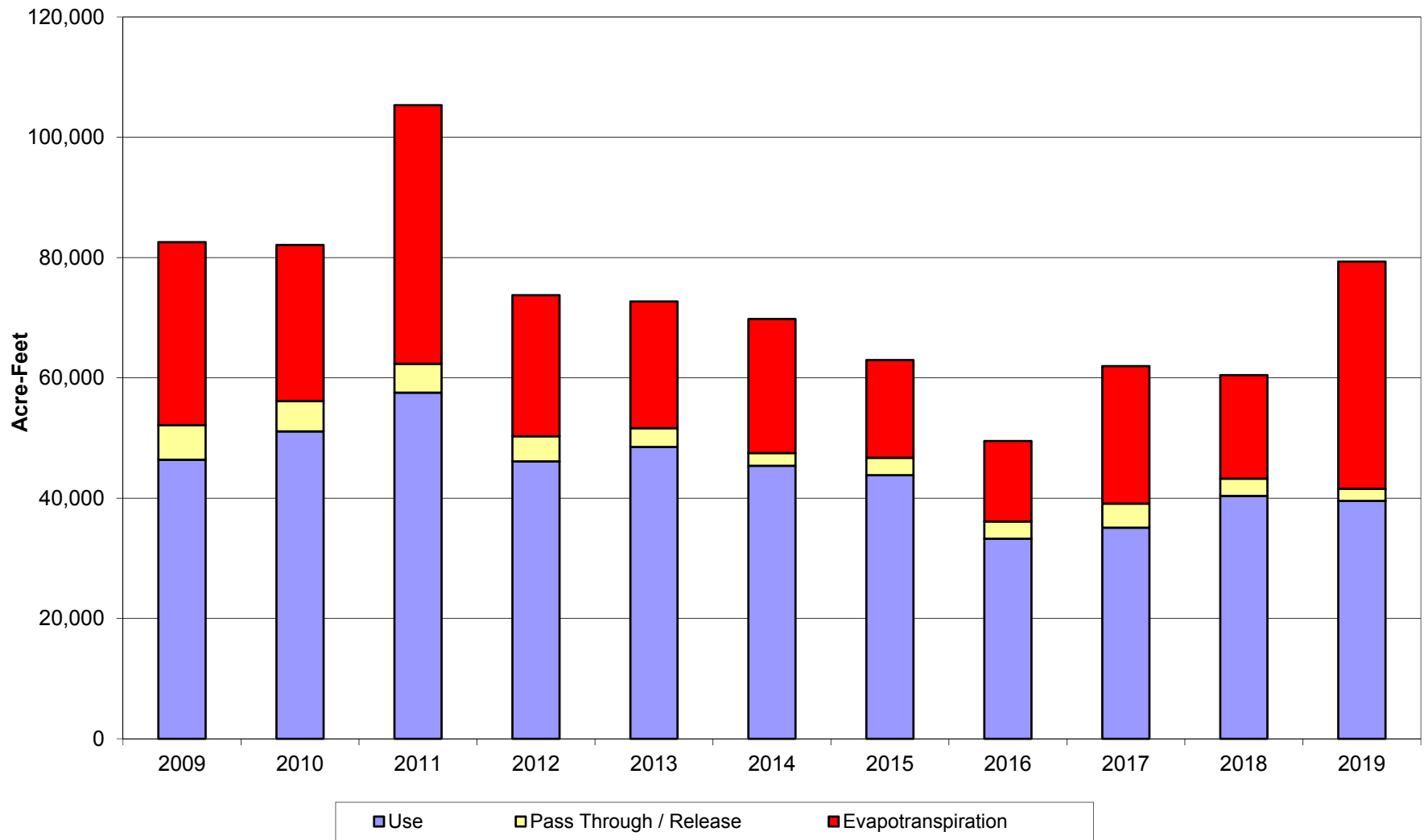
Lake J.B. Thomas
January 2009 thru December 2019



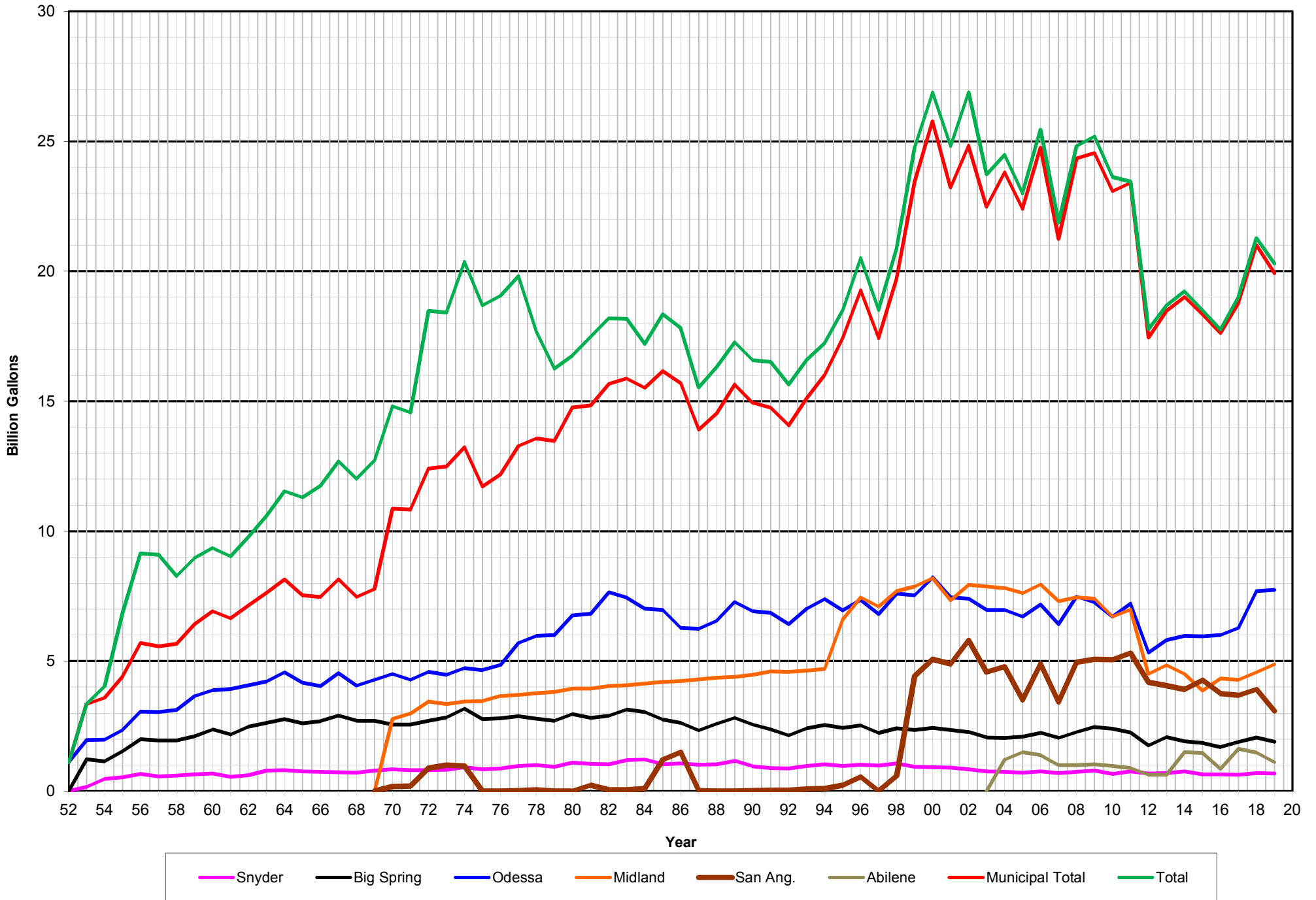
**E.V. Spence Reservoir
January 2009 thru December 2019**



O.H. Ivie Reservoir
January 2009 thru December 2019



Colorado River Municipal Water District Historical Water Delivery - FY 1952 - 2019



Colorado River Municipal Water District Source of Supply January 1962 through December 2019

