



*Colorado River Municipal Water District*

# Monthly Water Report

March 2019

**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 2019**

**Raw Water System**

<b>Member Cities</b>	<b>Total Deliveries This Month (Gal)</b>	<b>Daily Average For Month (Gal)</b>	<b>2019 Year to Date (Gal)</b>
Big Spring	151,071,800	4,873,284	416,422,000
Odessa	554,297,900	17,880,577	1,516,990,100
Snyder	51,264,000	1,653,677	141,041,000
<b>Subtotal</b>	<b>756,633,700</b>	<b>24,407,539</b>	<b>2,074,453,100</b>

**Municipal Customers**

Grandfalls	0	0	0
Midland - 1966 Contract	338,068,600	10,905,439	769,570,000
Midland - Ivie Contract	103,633,000	3,343,000	198,245,000
Millersview Doole WSC	40,999,300	1,322,558	101,981,700
Pyote	1,432,900	46,223	3,831,500
San Angelo - Spence	0	0	0
San Angelo - Ivie	273,198,000	8,812,839	697,569,000
Stanton	10,145,400	327,271	28,721,900
University Lands	0	0	6,000
West Central Texas MWD	92,194,000	2,974,000	200,415,000
<b>Subtotal</b>	<b>859,671,200</b>	<b>27,731,329</b>	<b>2,000,340,100</b>

**Industrial Customers**

Alon Rural Meters	4,332,000	139,742	9,464,900
Luminant Generation	0	0	0
Occidental	8,420	272	11,200
Parallel Petroleum	13,780	445	86,220
Power Resources	14,134,000	455,935	19,619,000
<b>Subtotal</b>	<b>18,488,200</b>	<b>596,394</b>	<b>29,181,320</b>

**Diverted Water System**

**Industrial Customers**

BASA Resources	9,238,800	298,026	24,968,600
Energen	18,100	584	55,000
Fasken Oil Co.	0	0	266,290
Miranda Energy	0	0	0
Rover Operating	132,760	4,283	218,340
Sheridan Production	480,610	15,504	698,190
<b>Subtotal</b>	<b>9,870,270</b>	<b>318,396</b>	<b>26,206,420</b>

<b>Total Deliveries</b>	<b>1,644,663,370</b>	<b>53,053,657</b>	<b>4,130,180,940</b>
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**COLORADO RIVER MUNICIPAL WATER DISTRICT  
RESERVOIR REPORT  
March 2019**

<u>Lake J. B. Thomas</u>	<u>This Month</u>	<u>2019 Year-to-Date Total</u>
<u>CONTENTS IN ACRE FEET</u>		
CAPACITY WHEN FULL	200,604	
CAPACITY THIS DATE	68,774	
PERCENT FULL	34.28%	
FREE CAPACITY THIS DATE	131,830	
INFLOWS*	521	750
PASS THROUGH / RELEASES	0	0
WITHDRAWALS	1,350	3,433
EVAPORATION*	(1,155)	(4,093)

<u>ELEVATION ABOVE MEAN SEA LEVEL</u>		
ELEVATION WHEN FULL	2,258.00	
ELEVATION THIS DATE	2,234.05	

**E. V. Spence Reservoir**

<u>CONTENTS IN ACRE FEET</u>		
CAPACITY WHEN FULL	517,272	
CAPACITY THIS DATE	139,189	
PERCENT FULL	26.91%	
FREE CAPACITY THIS DATE	378,083	
INFLOWS*	1,532	4,646
PASS THROUGH / RELEASES	0	0
WITHDRAWALS	1,314	1,317
EVAPORATION*	(1,389)	(2,888)

<u>ELEVATION ABOVE MEAN SEA LEVEL</u>		
ELEVATION WHEN FULL	1,898.00	
ELEVATION THIS DATE	1,861.48	

**COLORADO RIVER MUNICIPAL WATER DISTRICT  
RESERVOIR REPORT  
March 2019**

	<u>This Month</u>	<u>2019 Year-to-Date Total</u>
<b><u>O. H. Ivie Reservoir</u></b>		
<i><u>CONTENTS IN ACRE FEET</u></i>		
CAPACITY WHEN FULL	554,340	
CAPACITY THIS DATE	302,630	
PERCENT FULL	54.59%	
FREE CAPACITY THIS DATE	251,710	
INFLOWS*	8,322	35,910
PASS THROUGH / RELEASES	172	514
WITHDRAWALS	3,683	8,854
SPILLS	0	0
EVAPORATION*	(740)	(1,489)
<i><u>ELEVATION ABOVE MEAN SEA LEVEL</u></i>		
ELEVATION WHEN FULL	1,551.50	
ELEVATION THIS DATE	1,535.64	

**Moss Creek Lake**

<i><u>CONTENTS IN ACRE FEET</u></i>		
CAPACITY WHEN FULL	3,441	
CAPACITY THIS DATE	1,417	
PERCENT FULL	41.18%	
FREE CAPACITY THIS DATE	2,024	
INFLOWS*	289	295
PASS THROUGH / RELEASES	0	0
WITHDRAWALS	(1,116)	(591)
SPILLS	0	0
EVAPORATION*	(34)	(60)
<i><u>ELEVATION ABOVE MEAN SEA LEVEL</u></i>		
ELEVATION WHEN FULL	2,336.50	
ELEVATION THIS DATE	2,321.29	

<b>Reservoir Summary</b>						
<b>Reservoir</b>	<b>Elevation</b>	<b>Current Capacity (Acre Feet)</b>	<b>Year to Date Inflow (Acre Feet)</b>	<b>Year to Date Withdrawals (Acre Feet)</b>	<b>Year to Date Pass Through / Releases (Acre Feet)</b>	<b>Year to Date Evaporation (Acre Feet)</b>
Lake J.B. Thomas	2,234.05	68,774	750	3,433	0	(4,093)
E.V. Spence Reservoir	1,861.48	139,189	4,646	1,317	0	(2,888)
O.H. Ivie Reservoir	1,535.64	302,630	35,910	8,854	514	(1,489)
Moss Creek Lake	2,321.29	1,417	295	(591)	0	(60)
<b>Total</b>		<b>512,010</b>	<b>41,601</b>	<b>13,013</b>	<b>514</b>	<b>(8,530)</b>

\* Inflow and Evaporation are approximate.

**COLORADO RIVER MUNICIPAL WATER DISTRICT  
 DIVERTED / WATER QUALITY ENHANCEMENT SYSTEM  
 RESERVOIRS REPORT  
 March 2019**

	<u>This Month</u>	<u>2019 Year-to-Date Total</u>
<b><u>Natural Dam</u></b>		
<i><u>CONTENTS IN ACRE FEET</u></i>		
CAPACITY WHEN FULL	54,560	
CAPACITY THIS DATE	7,500	
PERCENT FULL	13.75%	
FREE CAPACITY THIS DATE	47,060	
INFLOWS*	0	0
SPILLS	0	0
EVAPORATION*	(584)	(1,182)
<i><u>ELEVATION ABOVE MEAN SEA LEVEL</u></i>		
ELEVATION WHEN FULL	2,457.00	
ELEVATION THIS DATE	2,436.80	
<b><u>Sulphur Draw Reservoir</u></b>		
<i><u>CONTENTS IN ACRE FEET</u></i>		
CAPACITY WHEN FULL	7,997	
CAPACITY THIS DATE	851	
PERCENT FULL	10.64%	
FREE CAPACITY THIS DATE	7,146	
INFLOWS*	0	0
PASS THROUGH / RELEASES	0	0
EVAPORATION*	(95)	(192)
<i><u>ELEVATION ABOVE MEAN SEA LEVEL</u></i>		
ELEVATION WHEN FULL	2,541.00	
ELEVATION THIS DATE	2,527.00	

**COLORADO RIVER MUNICIPAL WATER DISTRICT  
 DIVERTED / WATER QUALITY ENHANCEMENT SYSTEM  
 RESERVOIRS REPORT  
 March 2019**

	<u>This Month</u>	<u>2019 Year-to-Date Total</u>
<b><u>Barber Lake</u></b>		
<i><u>CONTENTS IN ACRE FEET</u></i>		
CAPACITY WHEN FULL	2,503	
CAPACITY THIS DATE	1,194	
PERCENT FULL	47.70%	
FREE CAPACITY THIS DATE	1,309	
INFLOWS*	134	261
WIER FLOW	0	0
PUMPED IN	231	605
WITHDRAWALS	0	0
SPILLS	0	0
EVAPORATION*	(51)	(95)
<i><u>ELEVATION ABOVE MEAN SEA LEVEL</u></i>		
ELEVATION WHEN FULL	2,097.00	
ELEVATION THIS DATE	2,088.90	
<b><u>Red Draw</u></b>		
<i><u>CONTENTS IN ACRE FEET</u></i>		
CAPACITY WHEN FULL	8,538	
CAPACITY THIS DATE	2,214	
PERCENT FULL	25.93%	
FREE CAPACITY THIS DATE	6,324	
INFLOWS*	46	174
PUMPED IN	201	690
WITHDRAWALS	0	0
SPILLS	0	0
EVAPORATION*	(63)	(126)
<i><u>ELEVATION ABOVE MEAN SEA LEVEL</u></i>		
ELEVATION WHEN FULL	2,445.00	
ELEVATION THIS DATE	2,420.00	

**COLORADO RIVER MUNICIPAL WATER DISTRICT  
 DIVERTED / WATER QUALITY ENHANCEMENT SYSTEM  
 RESERVOIRS REPORT  
 March 2019**

<u><b>Mitchell County</b></u>	<u>This Month</u>	<u>2019 Year-to-Date Total</u>
<u>CONTENTS IN ACRE FEET</u>		
CAPACITY WHEN FULL	27,266	
CAPACITY THIS DATE	13,187	
PERCENT FULL	48.36%	
FREE CAPACITY THIS DATE	14,079	
INFLOWS*	0	1,342
SPILLS	0	0
TRANSFERS IN	0	0
EVAPORATION*	(389)	(793)
<u>ELEVATION ABOVE MEAN SEA LEVEL</u>		
ELEVATION WHEN FULL	2,200.00	
ELEVATION THIS DATE	2,187.90	

<b>Diverted / Water Quality Enhancement System Summary</b>				
<b>Reservoir</b>	<b>Elevation</b>	<b>Capacity</b>	<b>Year to Date Inflow (Acre Feet)</b>	<b>Year to Date Evaporation (Acre Feet)</b>
Natural Dam	2,436.80	7,500	0	(1,182)
Sulphur Draw	2,527.00	851	0	(192)
Barber Lake	2,088.90	1,194	261	(95)
Red Draw	2,420.00	2,214	174	(126)
Mitchell County Reservoir	2,187.90	13,187	1,342	(793)
	<b>Total</b>	<b>24,946</b>	<b>1,777</b>	<b>(2,387)</b>

\* Inflow and Evaporation are approximate.

<b>Water Quality Diversions</b>		
<b>Source</b>	<b>Current Month (Acre Feet)</b>	<b>Year to Date (Acre Feet)</b>
Colorado River	231	605
Beals Creek	31	98
	<b>Total</b>	<b>703</b>

**COLORADO RIVER MUNICIPAL WATER DISTRICT  
GROUNDWATER REPORT  
March 2019**

<u>Well Field</u>	<u>Production This Month (Gallons)</u>	<u>Daily Average for Month (Gal)</u>	<u>2019 Production Year-to-Date (Gallons)</u>
Ward County North Well Field	18,765,000	605,323	52,370,900
Ward County South Well Field	4,947,000	159,581	17,217,000
Odessa Well Field (Out of Service)	0	0	0
Martin County Well Field	3,224,370	104,012	8,011,380
Snyder Well Field	0	0	0
Pyote Well Field	1,720,000	55,484	4,799,000
<b>Total</b>	<b>28,656,370</b>	<b>924,399</b>	<b>82,398,280</b>

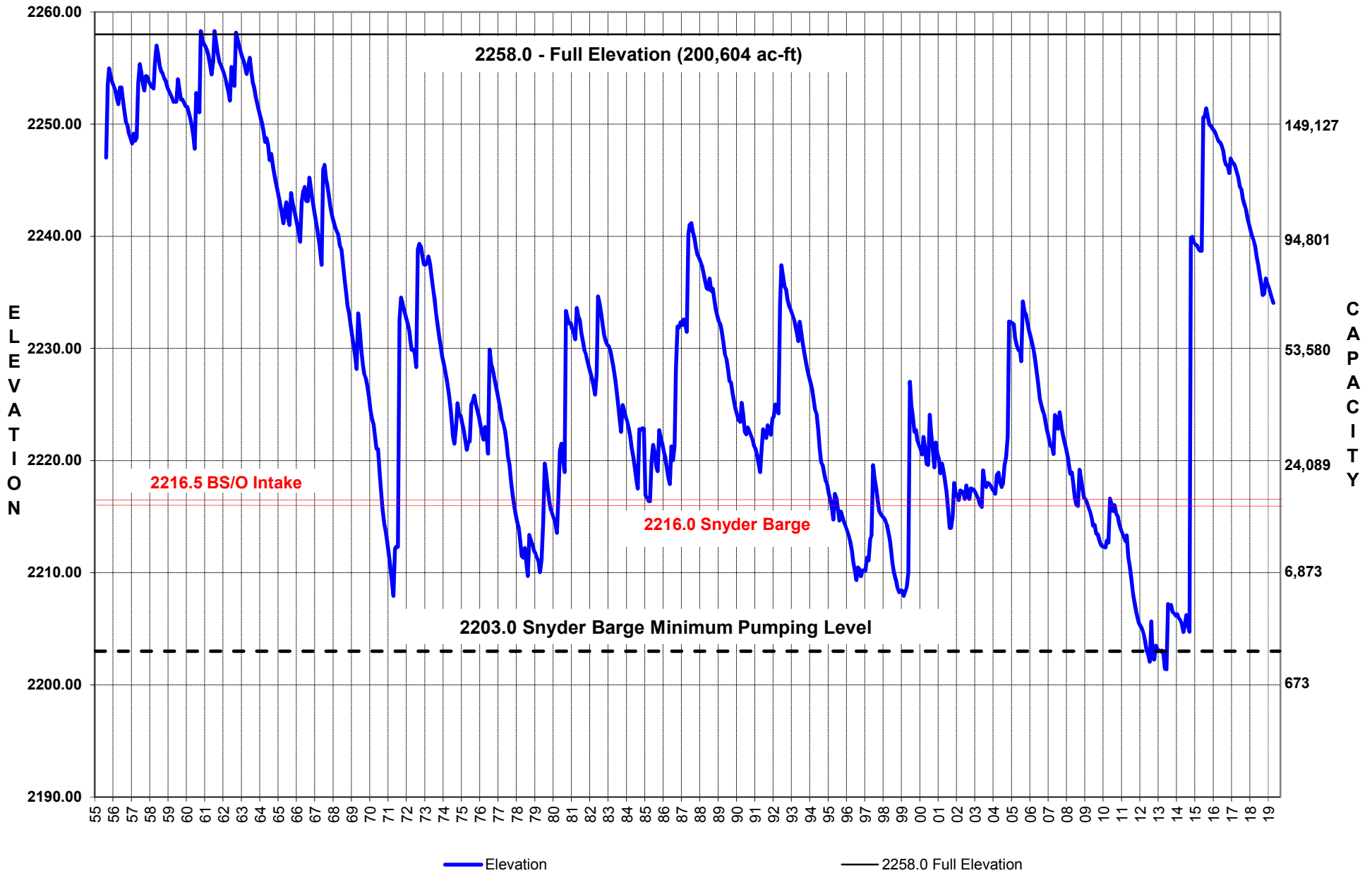
**BIG SPRING RAW WATER PRODUCTION FACILITY  
PRODUCTION REPORT  
March 2019**

	<u>Production This Month (Gallons)</u>	<u>Daily Average for Month (Gal)</u>	<u>2019 Production Year-to-Date (Gallons)</u>
Big Spring Raw Water Production Facility	0	0	12,660,000



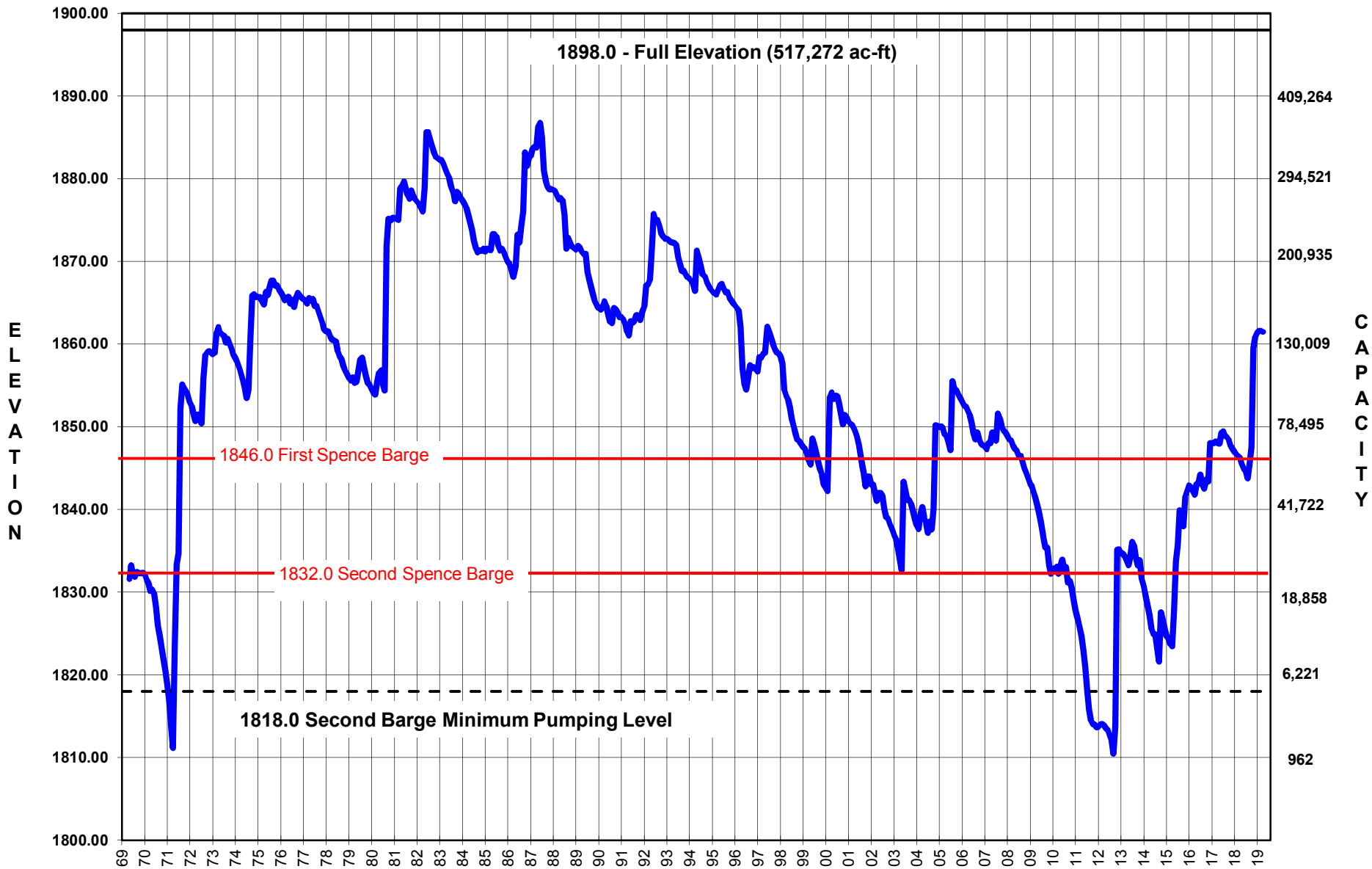
# LAKE J.B. THOMAS

## Elevation August 1955 - March 2019



# E.V. SPENCE RESERVOIR

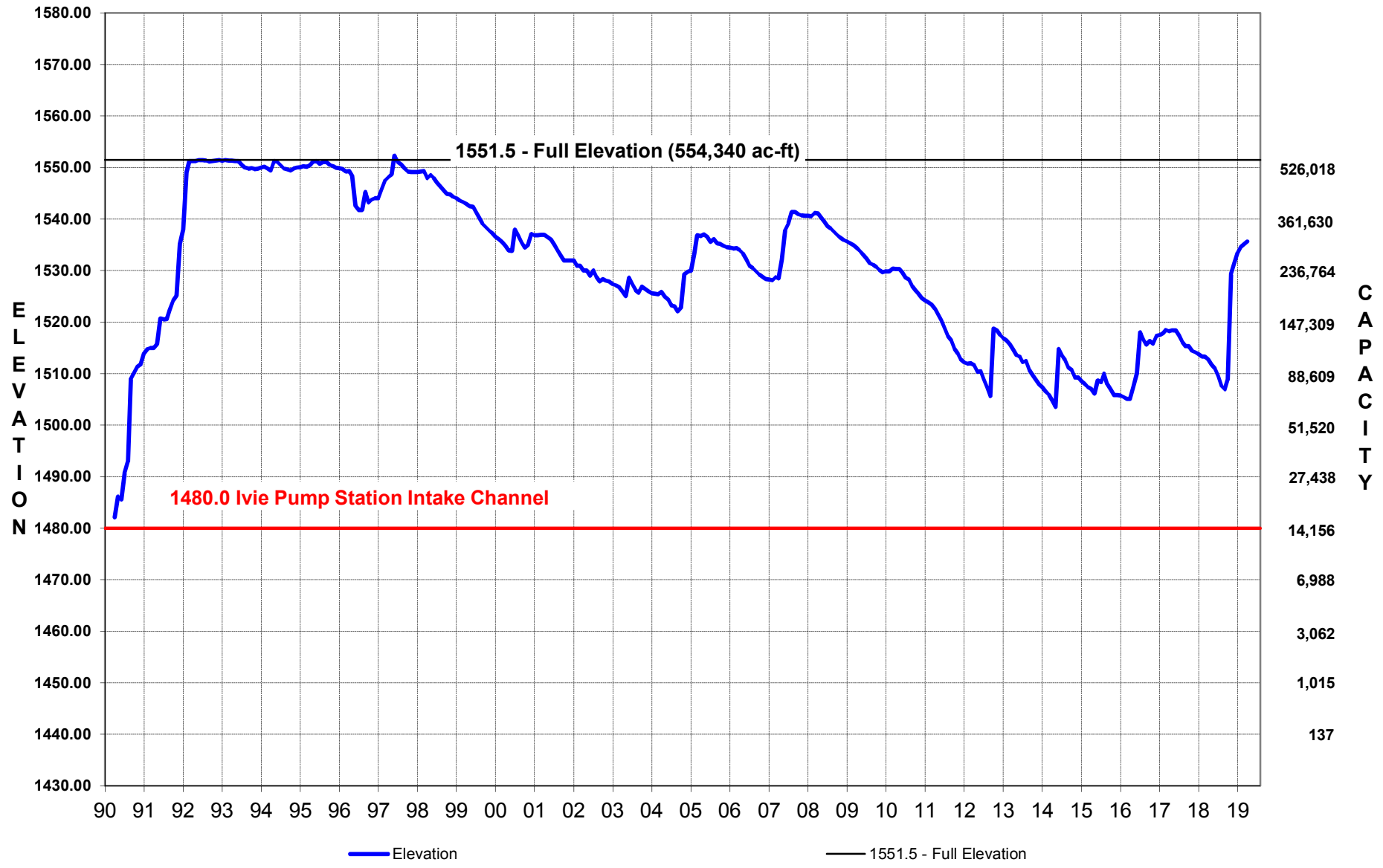
Elevation May 1969 - March 2019



— Elevation — 1898.0-Full Elevation

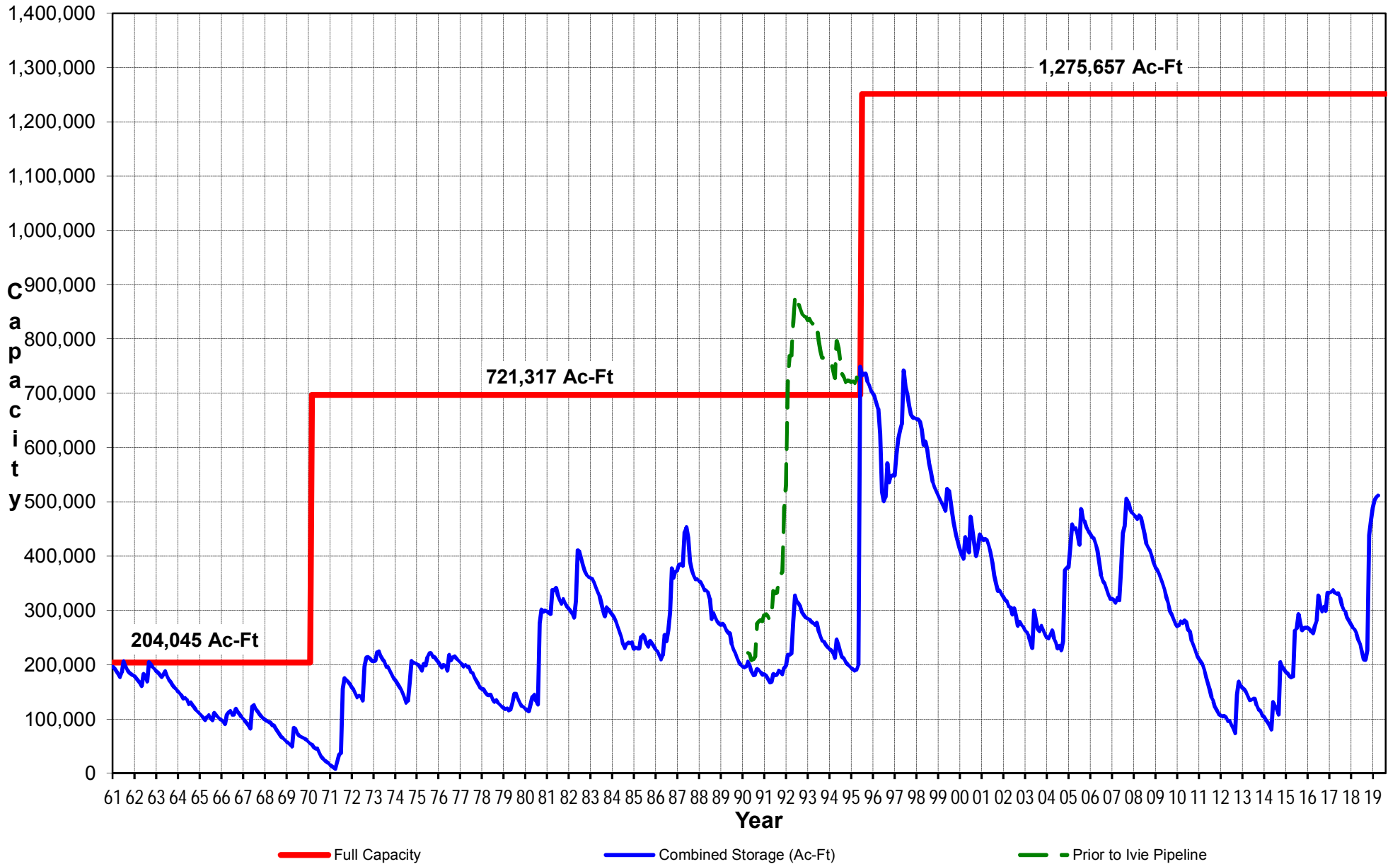
# O.H. IVIE RESERVOIR

Elevation April 1990 - March 2019



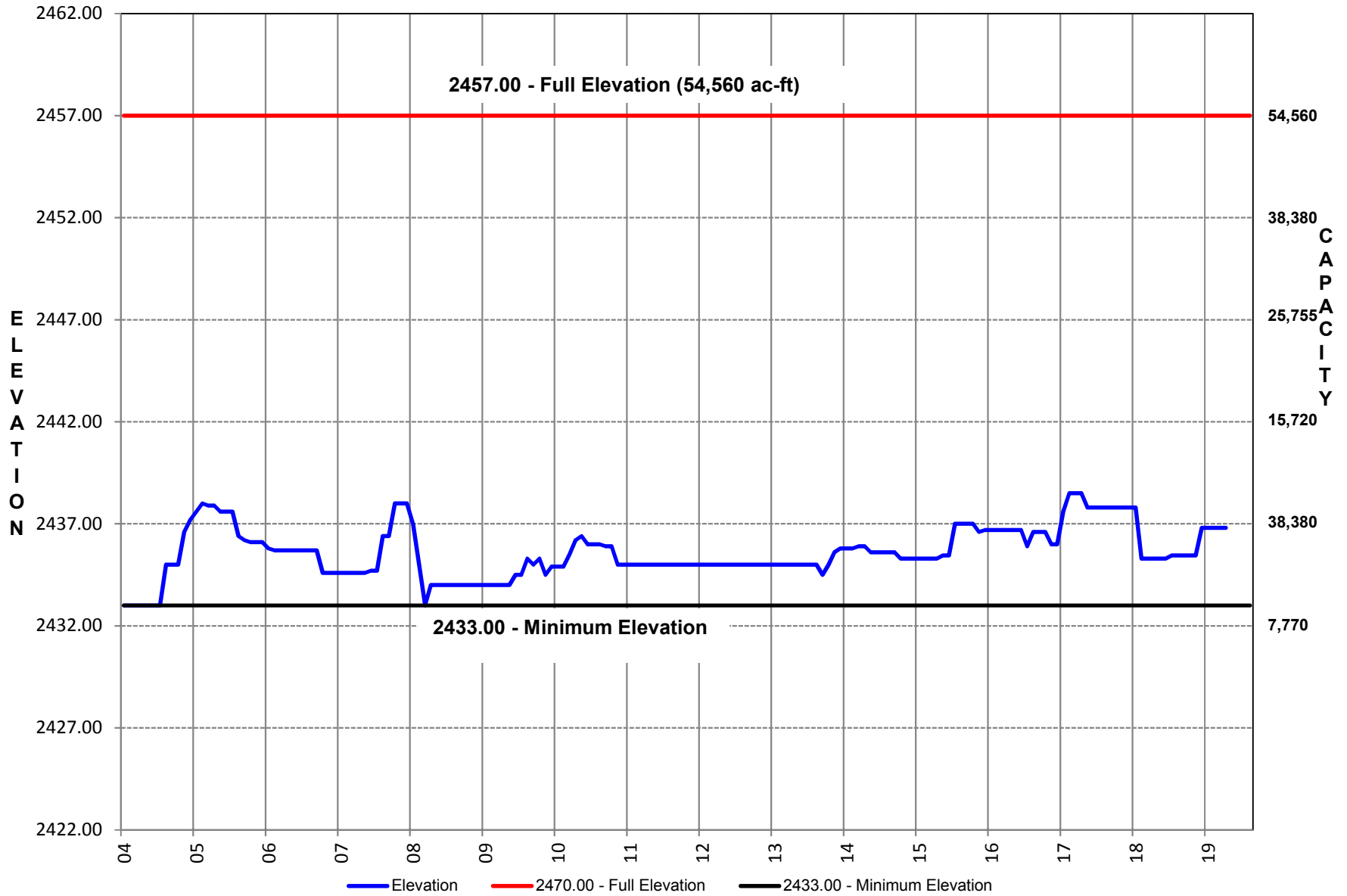
# COLORADO RIVER MUNICIPAL WATER DISTRICT

## COMBINED STORAGE Thomas, Spence, Moss, Ivie



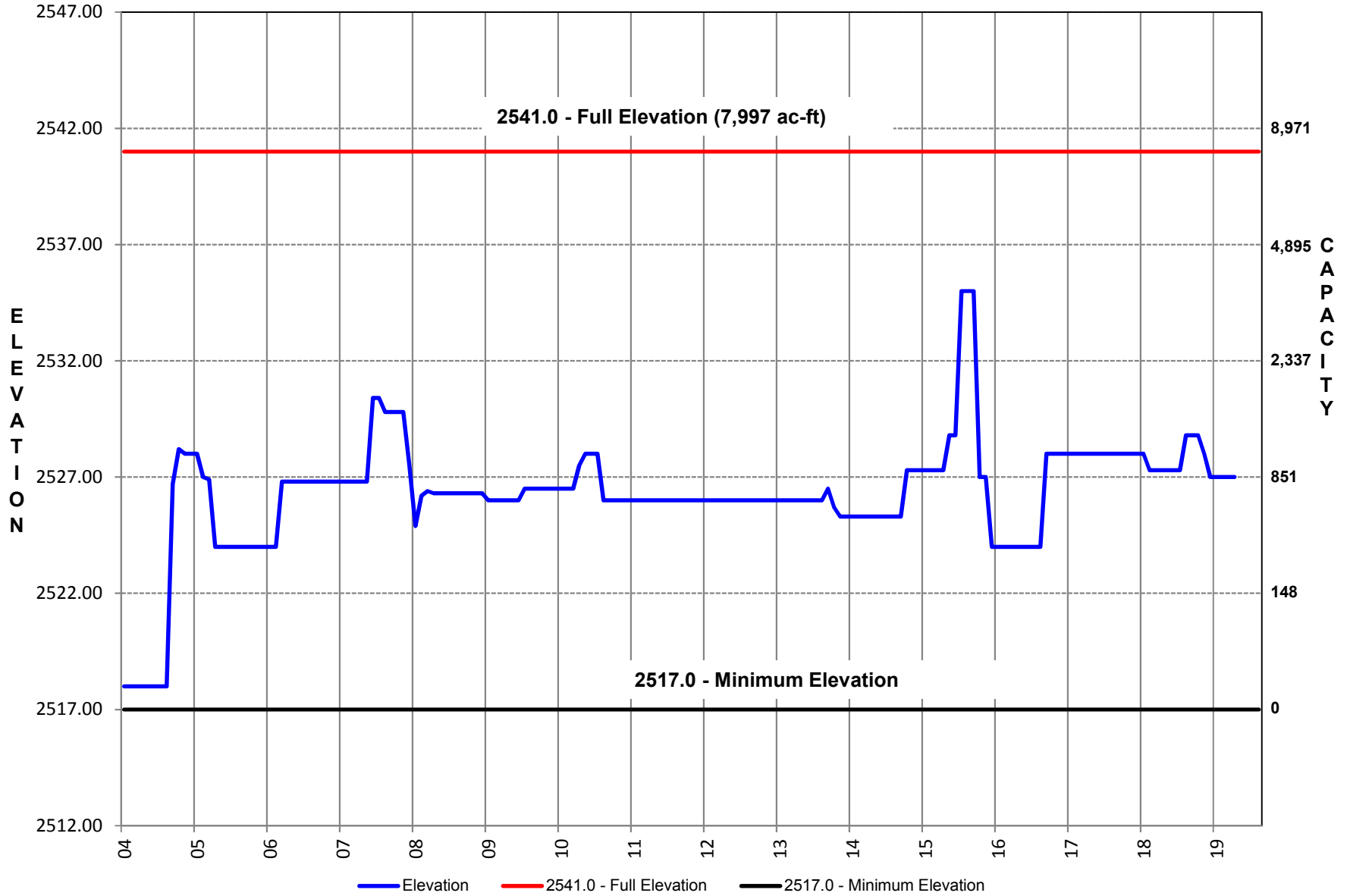
# Natural Dam Reservoir

Elevation January 2004 - March 2019



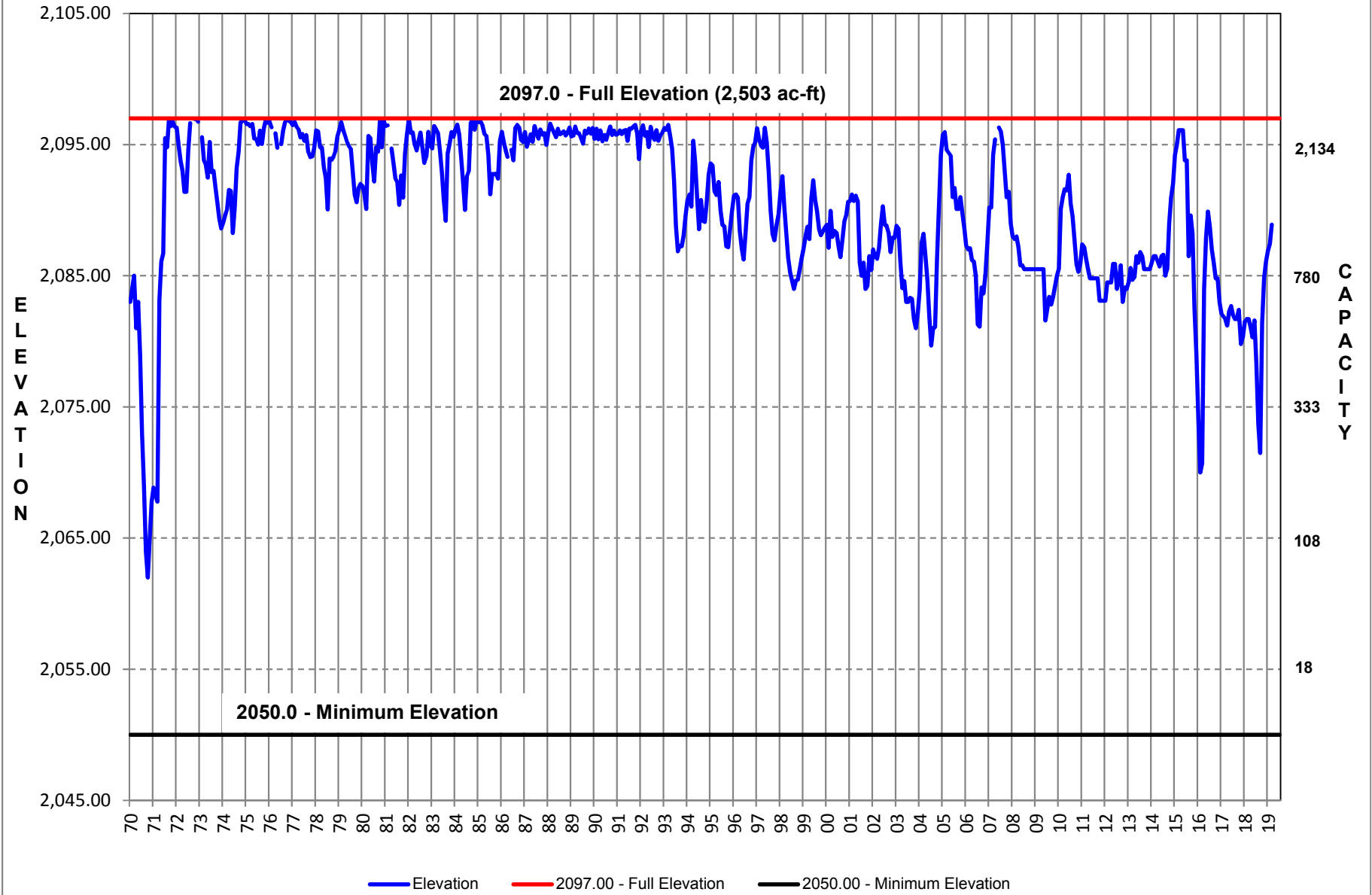
# Sulphur Draw Reservoir

Elevation January 2004 - March 2019



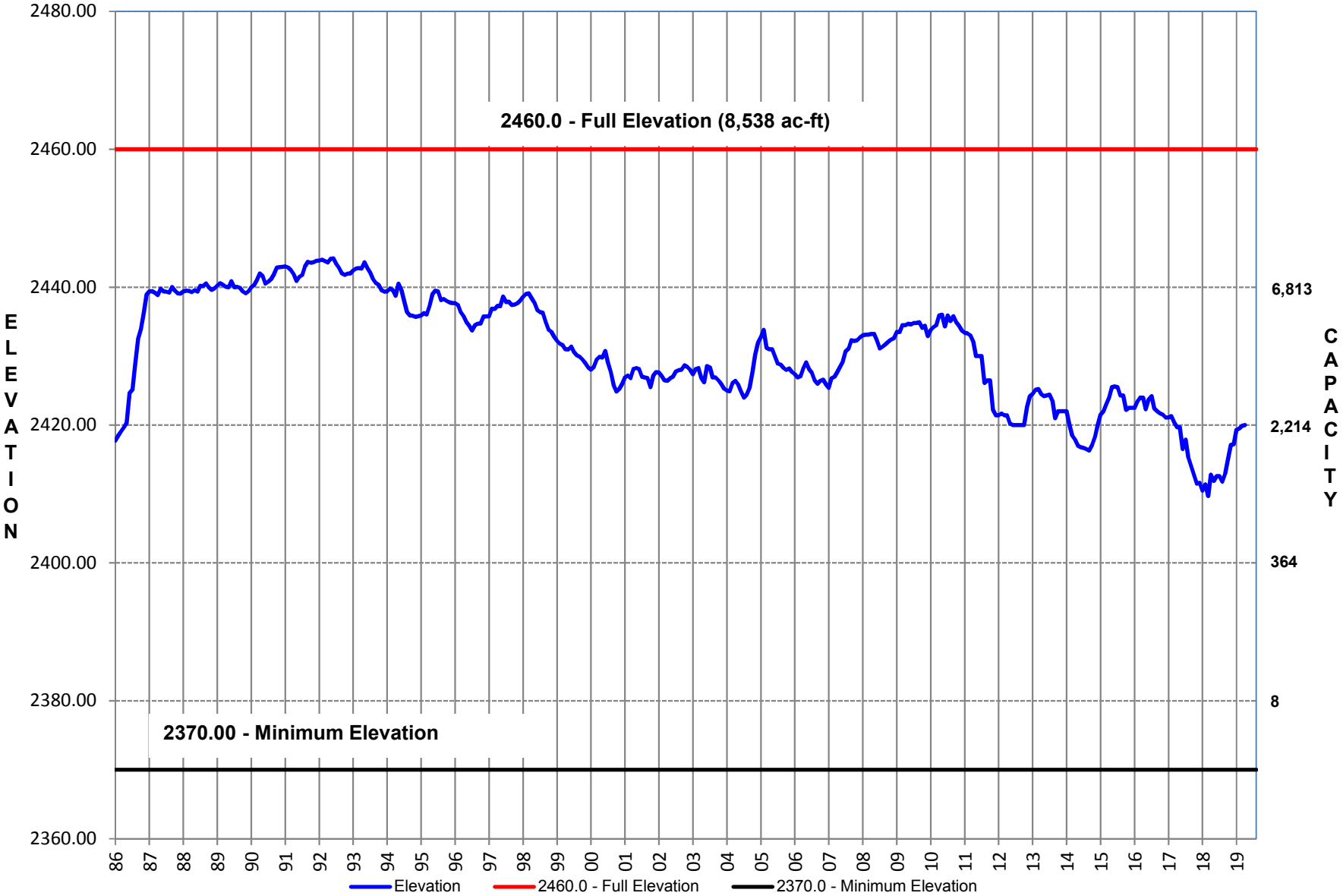
# Barber Lake

Elevation February 1970 - March 2019



# Red Draw

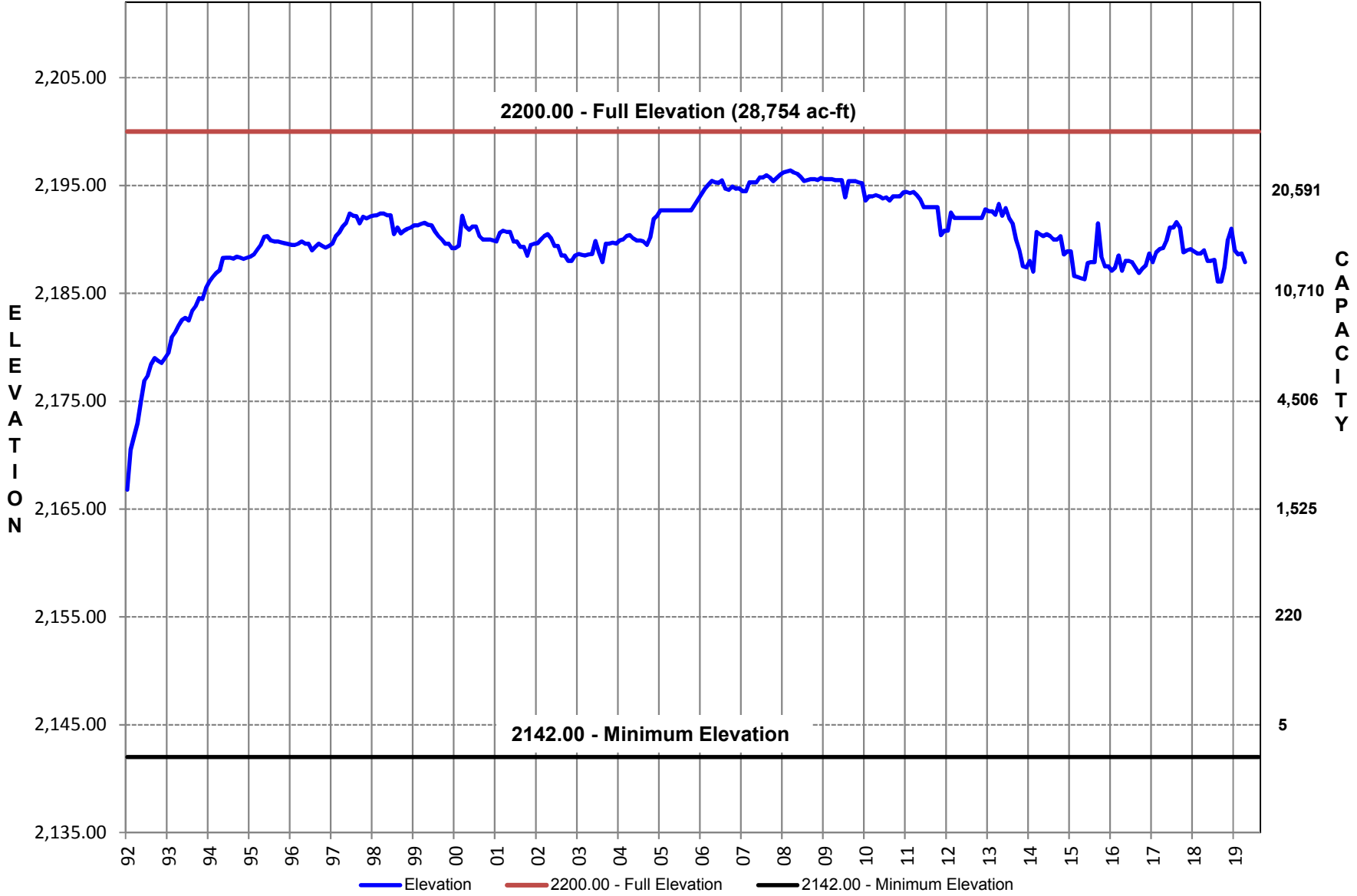
Elevation January 1986 - March 2019





# Mitchell County Reservoir

Elevation January 1992 - March 2019



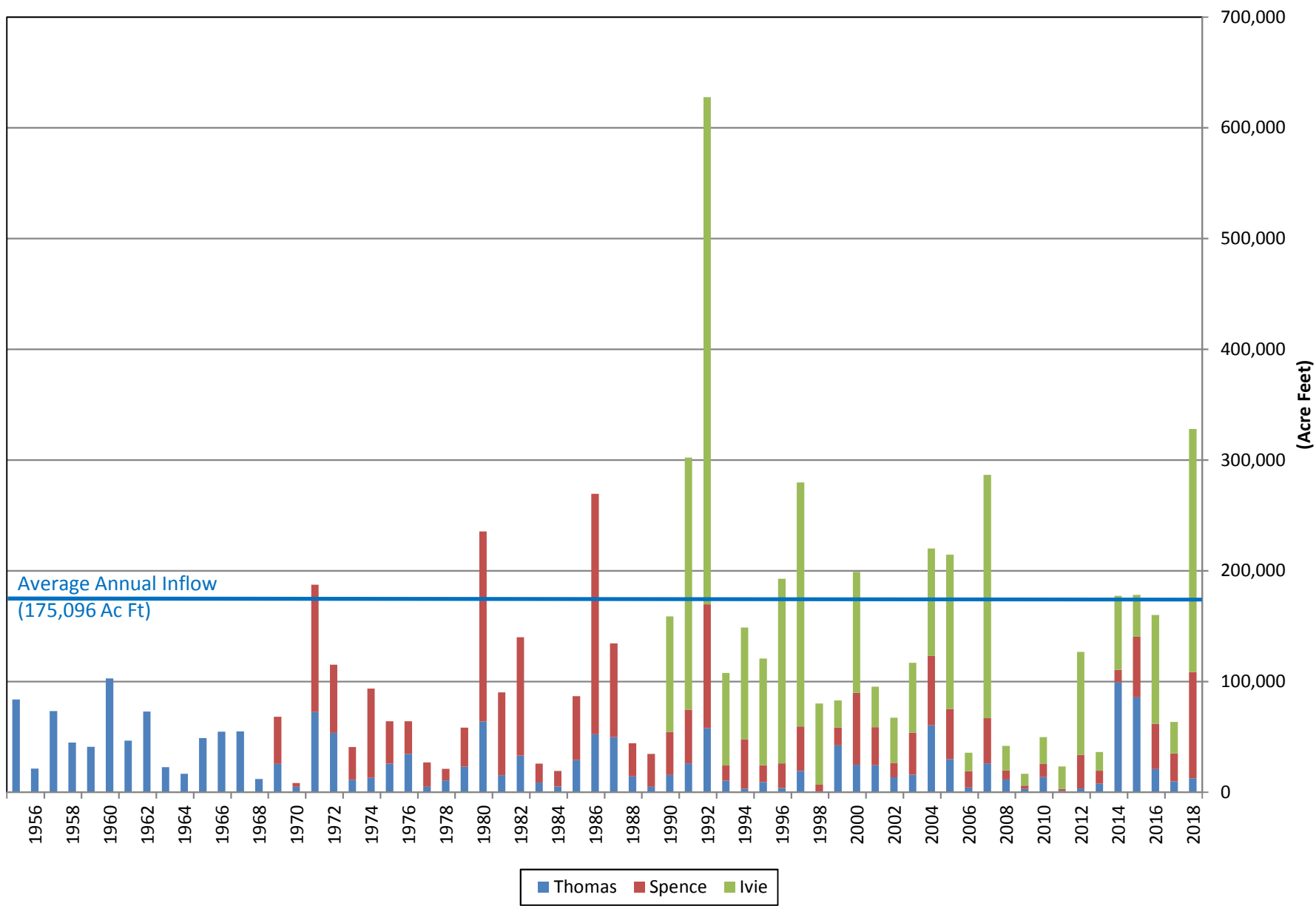
# **Annual Historical Data**

COLORADO RIVER MUNICIPAL WATER DISTRICT

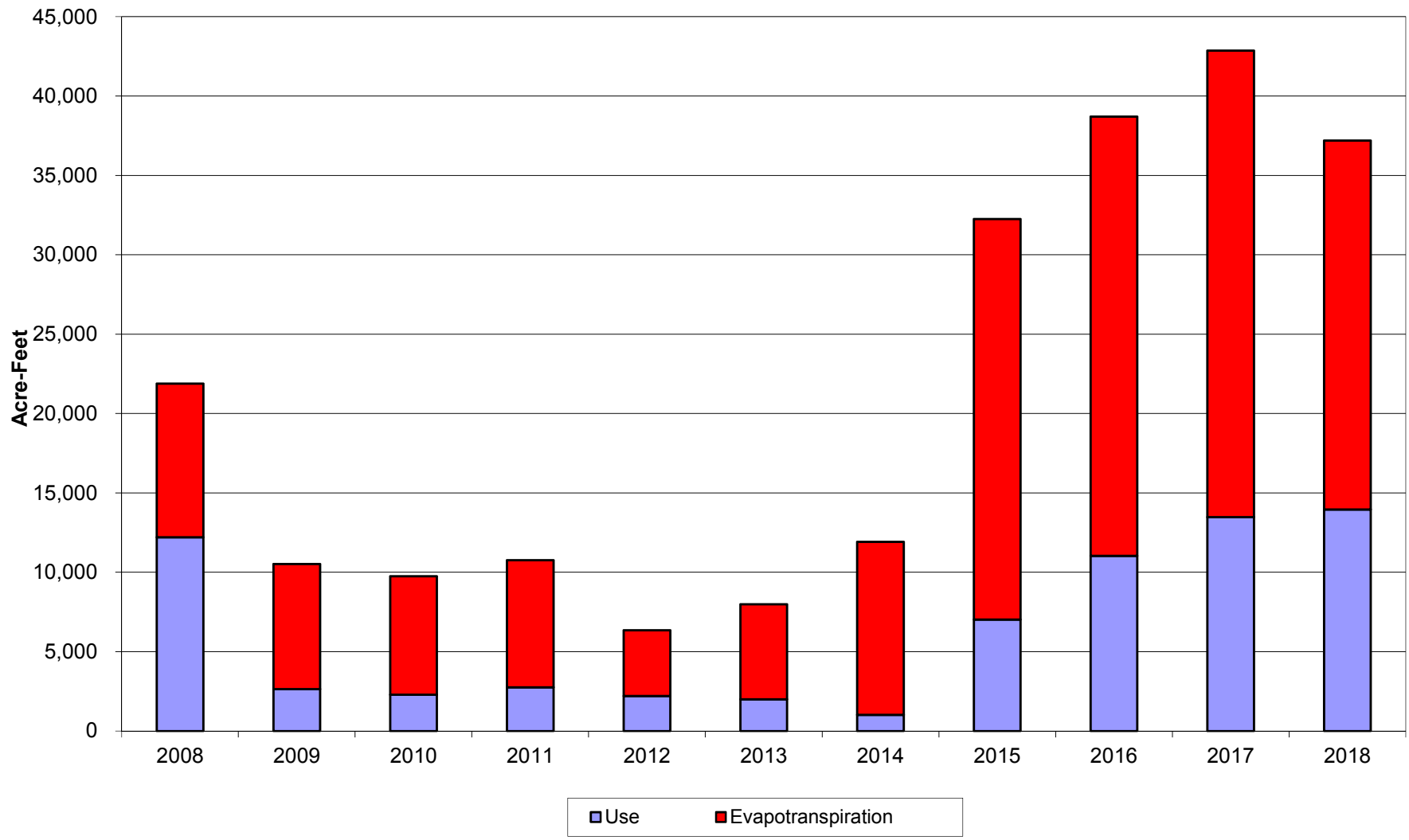
RESERVOIR INFLOW SUMMARY

Calendar Year	J.B. Thomas (AC-FT)	E.V. Spence (AC-FT)	O.H. Ivie (AC-FT)	Total (AC-FT)
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
<b>Annual Average</b>	<b>29,818</b>	<b>44,765</b>	<b>100,513</b>	<b>175,096</b>

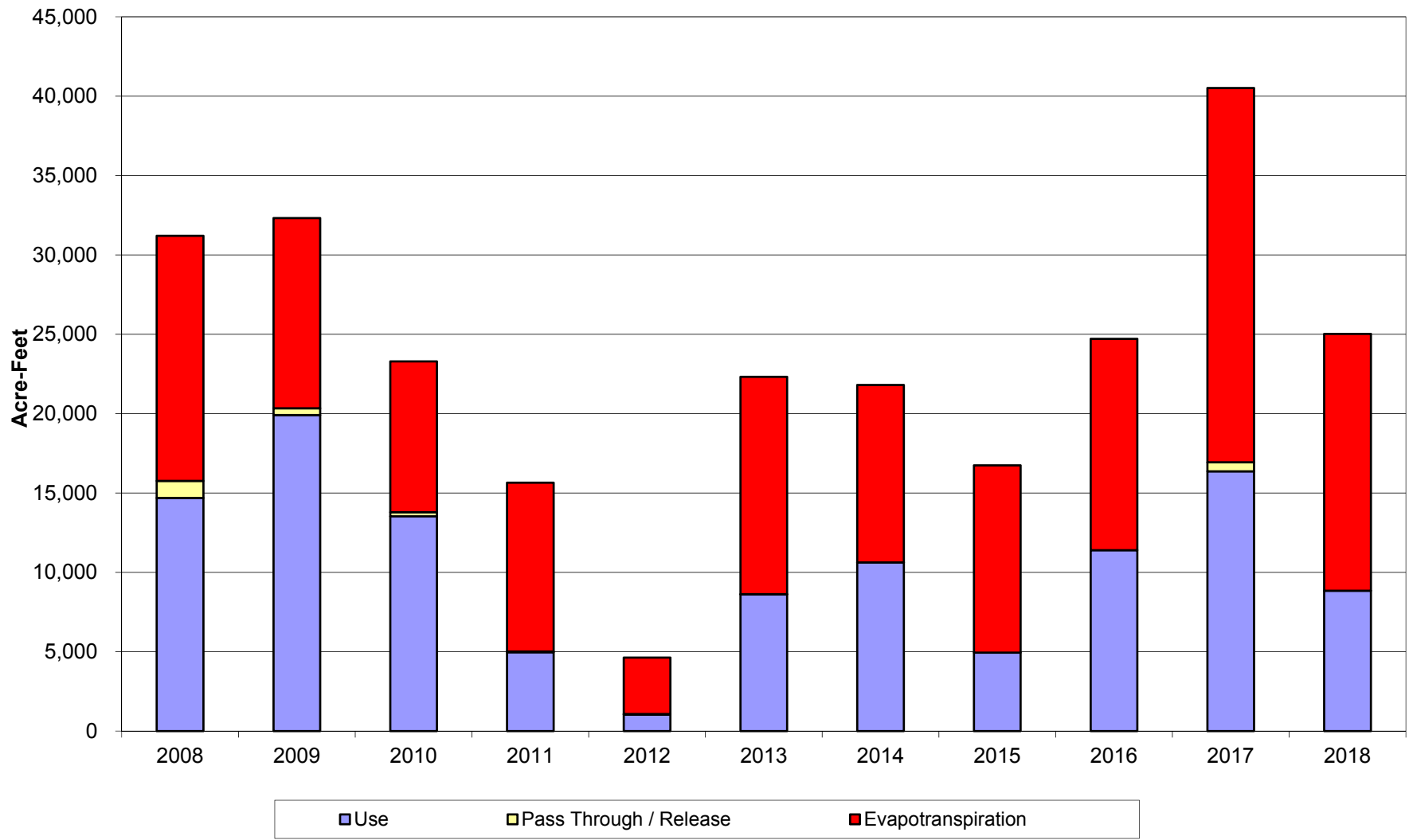
## Combined Inflow (1955 through 2018)



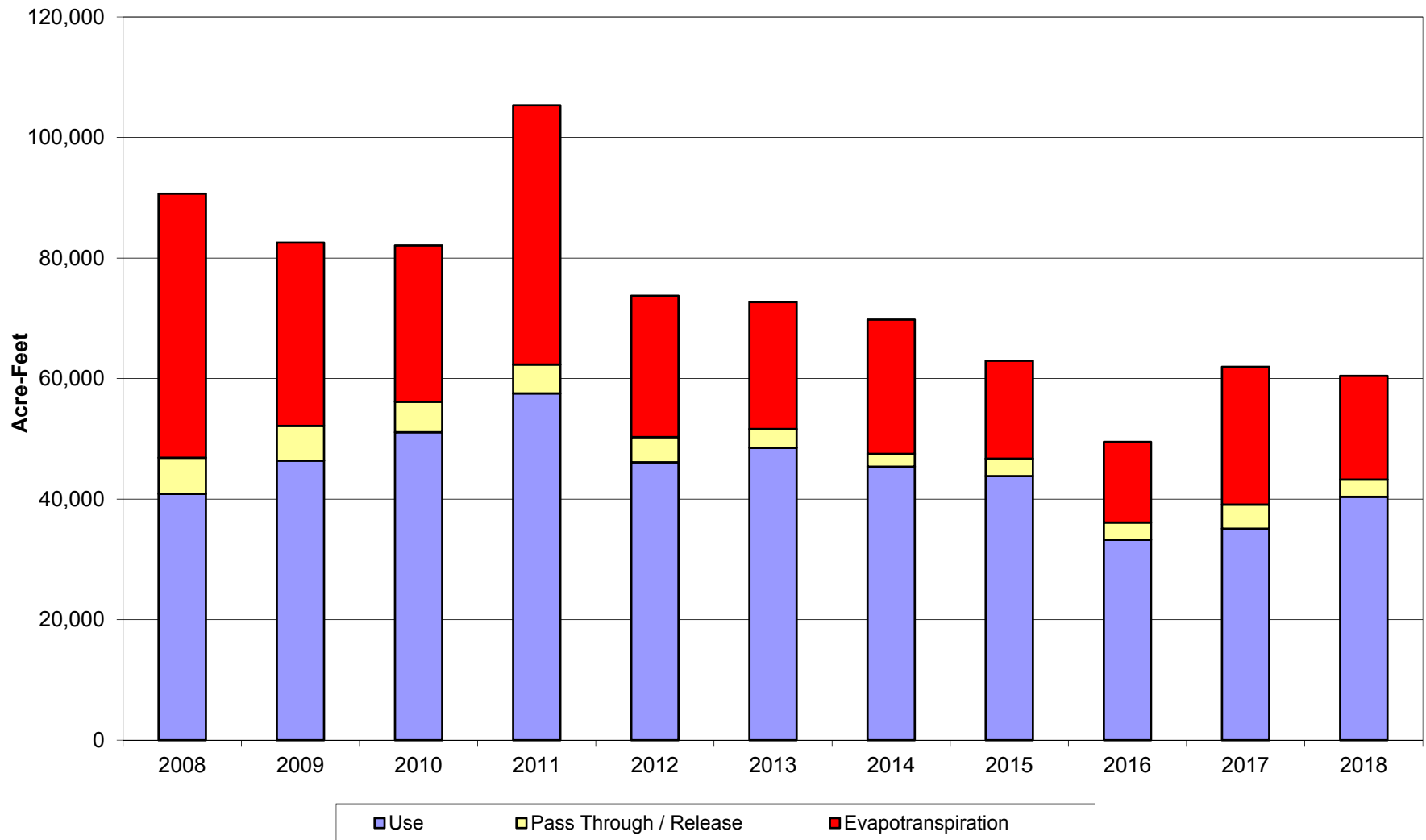
Lake J.B. Thomas  
January 2008 thru December 2018



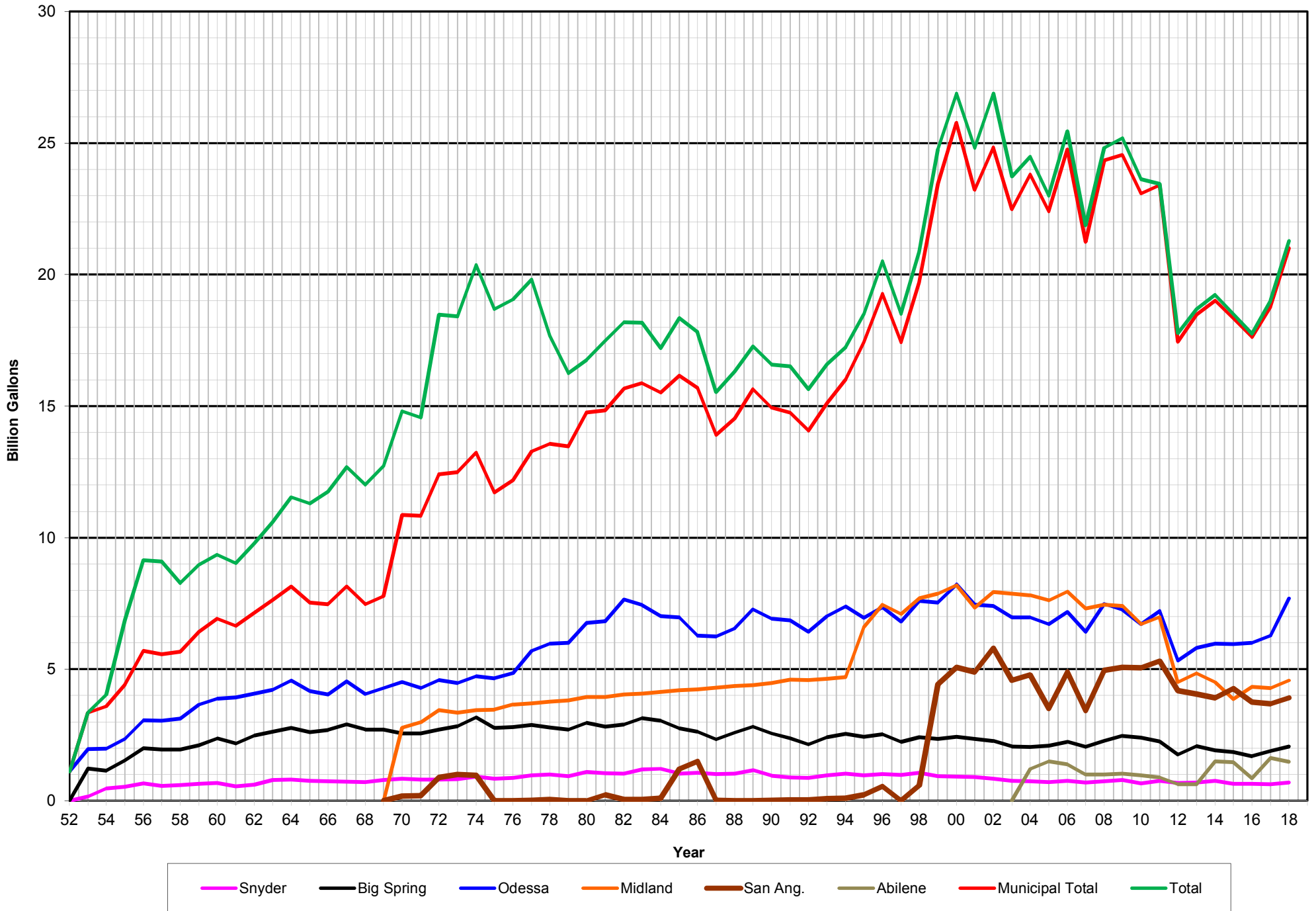
**E.V. Spence Reservoir  
January 2008 thru December 2018**



O.H. Ivie Reservoir  
January 2008 thru December 2018



# Colorado River Municipal Water District Historical Water Delivery - FY 1952 - 2018





# Colorado River Municipal Water District Source of Supply January 1962 through December 2018

