



*Colorado River Municipal Water District*

# Monthly Water Report

November 2018

**COLORADO RIVER MUNICIPAL WATER DISTRICT**

PO Box 869, 400 East 24th Street

Big Spring, Texas 79721-0869

**Colorado River Municipal Water District  
Water Delivered  
November 2018**

**Raw Water System**

<b>Member Cities</b>	<b>Total Deliveries This Month (Gal)</b>	<b>Daily Average For Month (Gal)</b>	<b>2017 Year to Date (Gal)</b>
Big Spring	141,519,000	4,717,300	1,908,960,000
Odessa	500,156,800	16,671,893	7,198,738,600
Snyder	48,967,000	1,632,233	637,800,000
<b>Subtotal</b>	<b>690,642,800</b>	<b>23,021,427</b>	<b>9,745,498,600</b>

**Municipal Customers**

Grandfalls	0	0	7,239,000
Midland - 1966 Contract	312,785,100	10,426,170	3,639,539,600
Midland - Ivie Contract	0	0	640,717,000
Millersview Doole WSC	41,508,000	1,383,600	424,863,600
Pyote	1,020,800	34,027	17,261,600
San Angelo - Spence	0	0	0
San Angelo - Ivie	273,659,000	9,121,967	3,729,994,000
Stanton	9,727,600	324,253	93,656,600
University Lands	0	0	163,000
West Central Texas MWD	93,016,000	3,100,533	1,399,352,000
<b>Subtotal</b>	<b>731,716,500</b>	<b>24,390,550</b>	<b>9,952,786,400</b>

**Industrial Customers**

Alon Rural Meters	2,416,420	80,547	56,652,310
Luminant Generation	110,000	3,667	1,096,000
Occidental	17,590	586	274,330
Parallel Petroleum	12,800	427	780,960
Power Resources	2,618,000	87,267	111,463,000
<b>Subtotal</b>	<b>5,174,810</b>	<b>172,494</b>	<b>170,266,600</b>

**Diverted Water System**

**Industrial Customers**

BASA Resources	10,437,700	347,923	89,222,400
Energen	7,500	250	75,400
Fasken Oil Co.	142,660	4,755	2,344,350
Miranda Energy	0	0	14,300
Rover Operating	98,780	3,293	213,520
Sheridan Production	150,840	5,028	1,841,830
<b>Subtotal</b>	<b>10,837,480</b>	<b>361,249</b>	<b>93,711,800</b>

<b>Total Deliveries</b>	<b>1,438,371,590</b>	<b>47,945,720</b>	<b>19,962,263,400</b>
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**COLORADO RIVER MUNICIPAL WATER DISTRICT  
RESERVOIR REPORT  
November 2018**

<b><u>Lake J. B. Thomas</u></b>	<u>This Month</u>	<u>2018 Year-to-Date Total</u>
<i><u>CONTENTS IN ACRE FEET</u></i>		
CAPACITY WHEN FULL	200,604	
CAPACITY THIS DATE	75,910	
PERCENT FULL	37.84%	
FREE CAPACITY THIS DATE	124,694	
INFLOWS*	43	11,499
PASS THROUGH / RELEASES	0	0
WITHDRAWALS	805	13,228
EVAPORATION*	(1,344)	(21,477)

<i><u>ELEVATION ABOVE MEAN SEA LEVEL</u></i>		
ELEVATION WHEN FULL	2,258.00	
ELEVATION THIS DATE	2,235.78	

**E. V. Spence Reservoir**

<i><u>CONTENTS IN ACRE FEET</u></i>		
CAPACITY WHEN FULL	517,272	
CAPACITY THIS DATE	135,293	
PERCENT FULL	26.16%	
FREE CAPACITY THIS DATE	381,979	
INFLOWS*	8,665	92,556
PASS THROUGH / RELEASES	0	0
WITHDRAWALS	398	8,085
EVAPORATION*	(741)	(15,897)

<i><u>ELEVATION ABOVE MEAN SEA LEVEL</u></i>		
ELEVATION WHEN FULL	1,898.00	
ELEVATION THIS DATE	1,860.86	

**COLORADO RIVER MUNICIPAL WATER DISTRICT  
RESERVOIR REPORT  
November 2018**

	<u>This Month</u>	<u>2018 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	252,415	
PERCENT FULL	45.53%	
FREE CAPACITY THIS DATE	301,925	
INFLOWS*	25,853	195,344
PASS THROUGH / RELEASES	173	2,679
WITHDRAWALS	2,947	38,371
SPILLS	0	0
EVAPORATION*	0	(17,188)
<i><u>ELEVATION ABOVE MEAN SEA LEVEL</u></i>		
ELEVATION WHEN FULL	1,551.50	
ELEVATION THIS DATE	1,531.43	

**Moss Creek Lake**

<i><u>CONTENTS IN ACRE FEET</u></i>		
CAPACITY WHEN FULL	3,441	
CAPACITY THIS DATE	2,333	
PERCENT FULL	67.80%	
FREE CAPACITY THIS DATE	1,108	
INFLOWS*	23	697
PASS THROUGH / RELEASES	0	0
WITHDRAWALS	612	(791)
SPILLS	0	0
EVAPORATION*	(32)	(705)
<i><u>ELEVATION ABOVE MEAN SEA LEVEL</u></i>		
ELEVATION WHEN FULL	2,336.50	
ELEVATION THIS DATE	2,328.94	

<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	2,235.78	75,910	11,499	13,228	0	(21,477)
E.V. Spence Reservoir	1,860.86	135,293	92,556	8,085	0	(15,897)
O.H. Ivie Reservoir	1,531.43	252,415	195,344	38,371	2,679	(17,188)
Moss Creek Lake	2,328.94	2,333	697	(791)	0	(705)
<b>Total</b>		<b>465,951</b>	<b>300,096</b>	<b>58,893</b>	<b>2,679</b>	<b>(55,267)</b>

\* Inflow and Evaporation are approximate.

**COLORADO RIVER MUNICIPAL WATER DISTRICT  
 DIVERTED / WATER QUALITY ENHANCEMENT SYSTEM  
 RESERVOIRS REPORT  
 November 2018**

<u>Natural Dam</u>	<u>This Month</u>	<u>2018 Year-to-Date Total</u>
<u>CONTENTS IN ACRE FEET</u>		
CAPACITY WHEN FULL	54,560	
CAPACITY THIS DATE	7,500	
PERCENT FULL	13.75%	
FREE CAPACITY THIS DATE	47,060	
INFLOWS*	1,785	1,977
SPILLS	0	0
EVAPORATION*	(320)	(6,350)
<u>ELEVATION ABOVE MEAN SEA LEVEL</u>		
ELEVATION WHEN FULL	2,457.00	
ELEVATION THIS DATE	2,436.80	
 <u>Sulphur Draw Reservoir</u>		
<u>CONTENTS IN ACRE FEET</u>		
CAPACITY WHEN FULL	7,997	
CAPACITY THIS DATE	851	
PERCENT FULL	10.64%	
FREE CAPACITY THIS DATE	7,146	
INFLOWS*	0	566
PASS THROUGH / RELEASES	0	0
EVAPORATION*	(52)	(1,320)
<u>ELEVATION ABOVE MEAN SEA LEVEL</u>		
ELEVATION WHEN FULL	2,541.00	
ELEVATION THIS DATE	2,527.00	

**COLORADO RIVER MUNICIPAL WATER DISTRICT  
 DIVERTED / WATER QUALITY ENHANCEMENT SYSTEM  
 RESERVOIRS REPORT  
 November 2018**

	<u>This Month</u>	<u>2018 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	766	
PERCENT FULL	30.60%	
FREE CAPACITY THIS DATE	1,737	
INFLOWS*	53	434
WIER FLOW	0	2
PUMPED IN	278	1,107
WITHDRAWALS	0	0
SPILLS	0	0
EVAPORATION*	(17)	(213)
<i><u>ELEVATION ABOVE MEAN SEA LEVEL</u></i>		
ELEVATION WHEN FULL	2,097.00	
ELEVATION THIS DATE	2,084.80	
<b><u>Red Draw</u></b>		
<i><u>CONTENTS IN ACRE FEET</u></i>		
CAPACITY WHEN FULL	8,538	
CAPACITY THIS DATE	1,823	
PERCENT FULL	21.35%	
FREE CAPACITY THIS DATE	6,715	
INFLOWS*	117	1380
PUMPED IN	229	1111
WITHDRAWALS	0	1
SPILLS	0	0
EVAPORATION*	(30)	(532)
<i><u>ELEVATION ABOVE MEAN SEA LEVEL</u></i>		
ELEVATION WHEN FULL	2,445.00	
ELEVATION THIS DATE	2,417.20	

**COLORADO RIVER MUNICIPAL WATER DISTRICT  
 DIVERTED / WATER QUALITY ENHANCEMENT SYSTEM  
 RESERVOIRS REPORT  
 November 2018**

<u>Mitchell County</u>	<u>This Month</u>	<u>2018 Year-to-Date Total</u>
<u>CONTENTS IN ACRE FEET</u>		
CAPACITY WHEN FULL	27,266	
CAPACITY THIS DATE	16,154	
PERCENT FULL	59.25%	
FREE CAPACITY THIS DATE	11,112	
INFLOWS*	2,210	10,848
SPILLS	0	0
TRANSFERS IN	0	(932)
EVAPORATION*	(231)	(4,570)
<u>ELEVATION ABOVE MEAN SEA LEVEL</u>		
ELEVATION WHEN FULL	2,200.00	
ELEVATION THIS DATE	2,191.00	

<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	1,977	(6,350)
Sulphur Draw	2,527.00	851	566	(1,320)
Barber Lake	2,084.80	766	434	(213)
Red Draw	2,417.20	1,823	1,380	(532)
Mitchell County Reservoir	2,191.00	16,154	10,848	(4,570)
<b>Total</b>		<b>27,094</b>	<b>15,205</b>	<b>(12,985)</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	278	1,107
Beals Creek	4	534
<b>Total</b>	<b>283</b>	<b>1,641</b>

**COLORADO RIVER MUNICIPAL WATER DISTRICT  
GROUNDWATER REPORT  
November 2018**

<u>Well Field</u>	<u>Production This Month (Gallons)</u>	<u>Daily Average for Month (Gal)</u>	<u>2018 Production Year-to-Date (Gallons)</u>
Ward County North Well Field	17,229,190	574,306	354,191,680
Ward County South Well Field	7,646,000	254,867	49,039,800
Odessa Well Field (Out of Service)	0	0	0
Martin County Well Field	6,700	223	3,791,820
Snyder Well Field	0	0	17,732,400
Pyote Well Field	1,313,000	43,767	21,515,000
<b>Total</b>	<b>26,194,890</b>	<b>873,163</b>	<b>446,270,700</b>

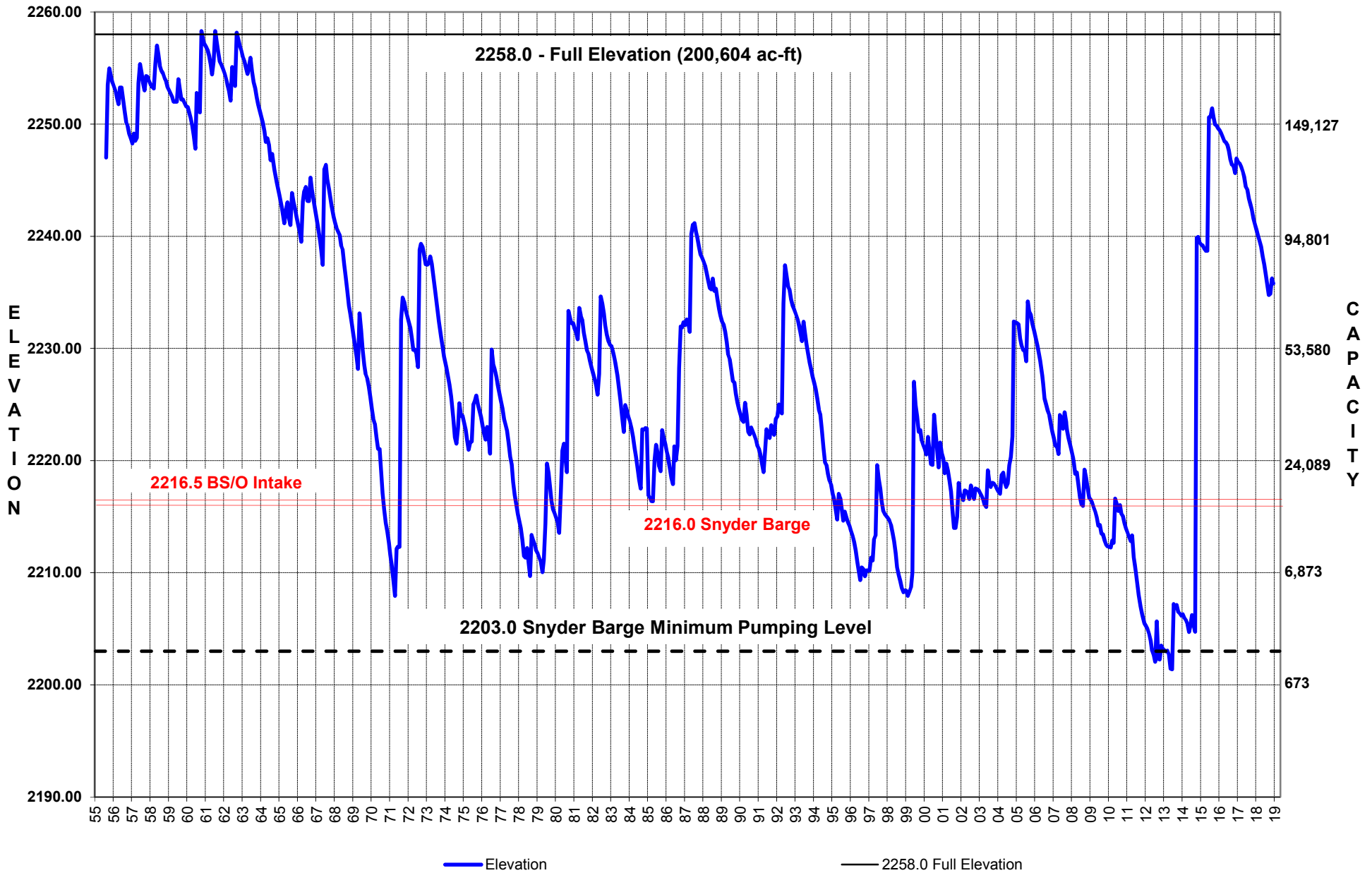
**BIG SPRING RAW WATER PRODUCTION FACILITY  
PRODUCTION REPORT  
November 2018**

	<u>Production This Month (Gallons)</u>	<u>Daily Average for Month (Gal)</u>	<u>2018 Production Year-to-Date (Gallons)</u>
Big Spring Raw Water Production Facility	37,260,000	1,242,000	425,720,000



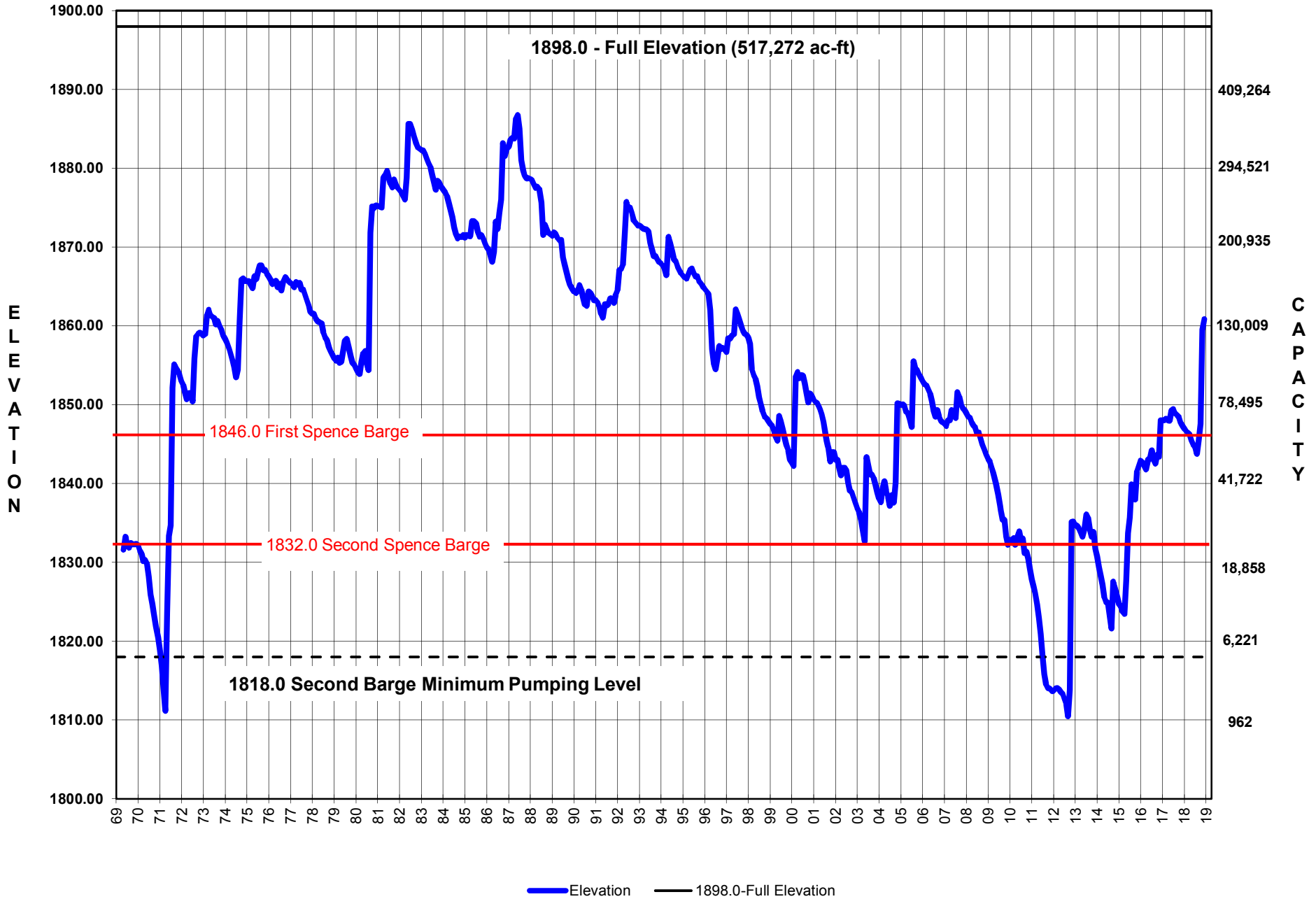
# LAKE J.B. THOMAS

## Elevation August 1955 - November 2018



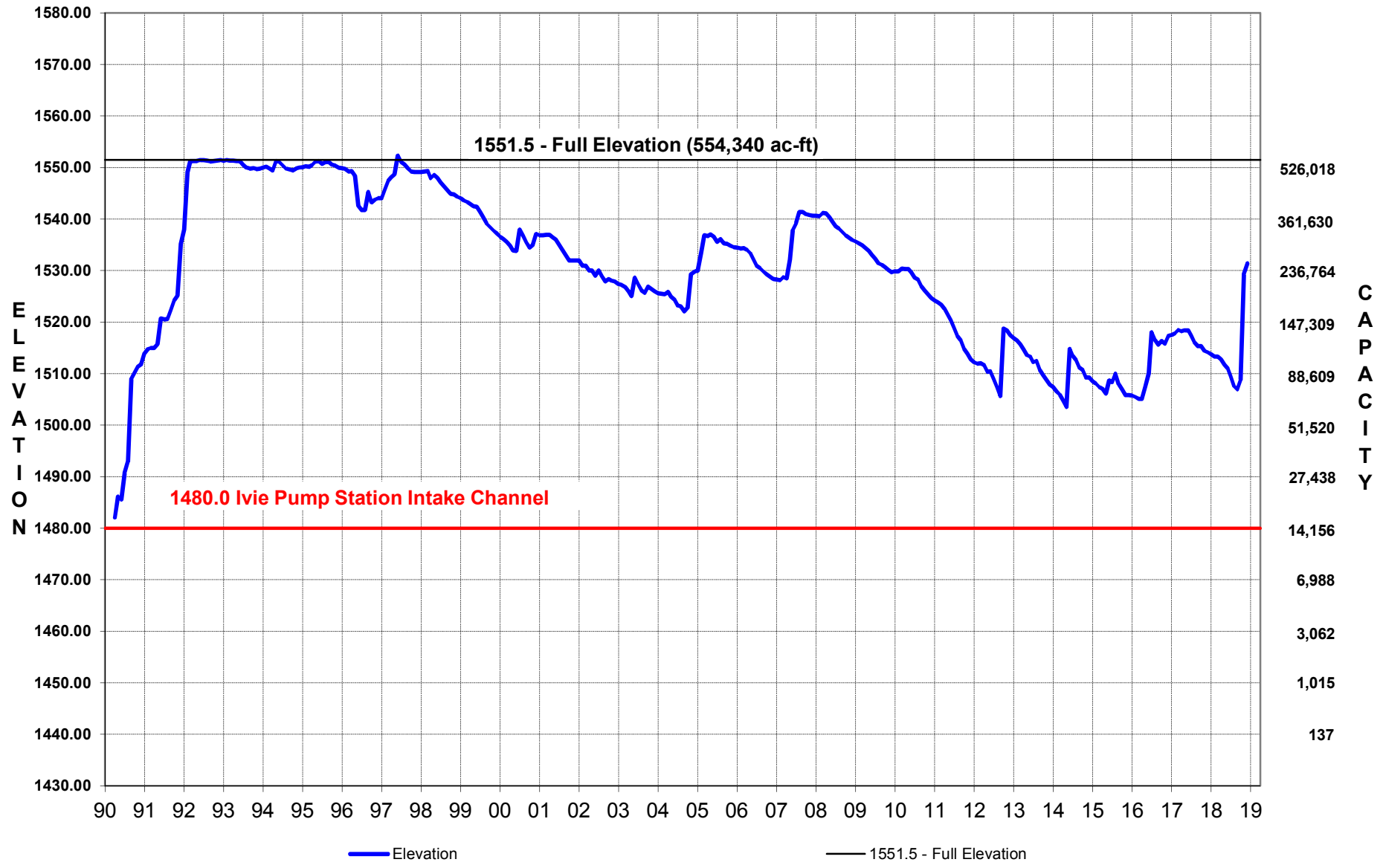
# E.V. SPENCE RESERVOIR

Elevation May 1969 - November 2018



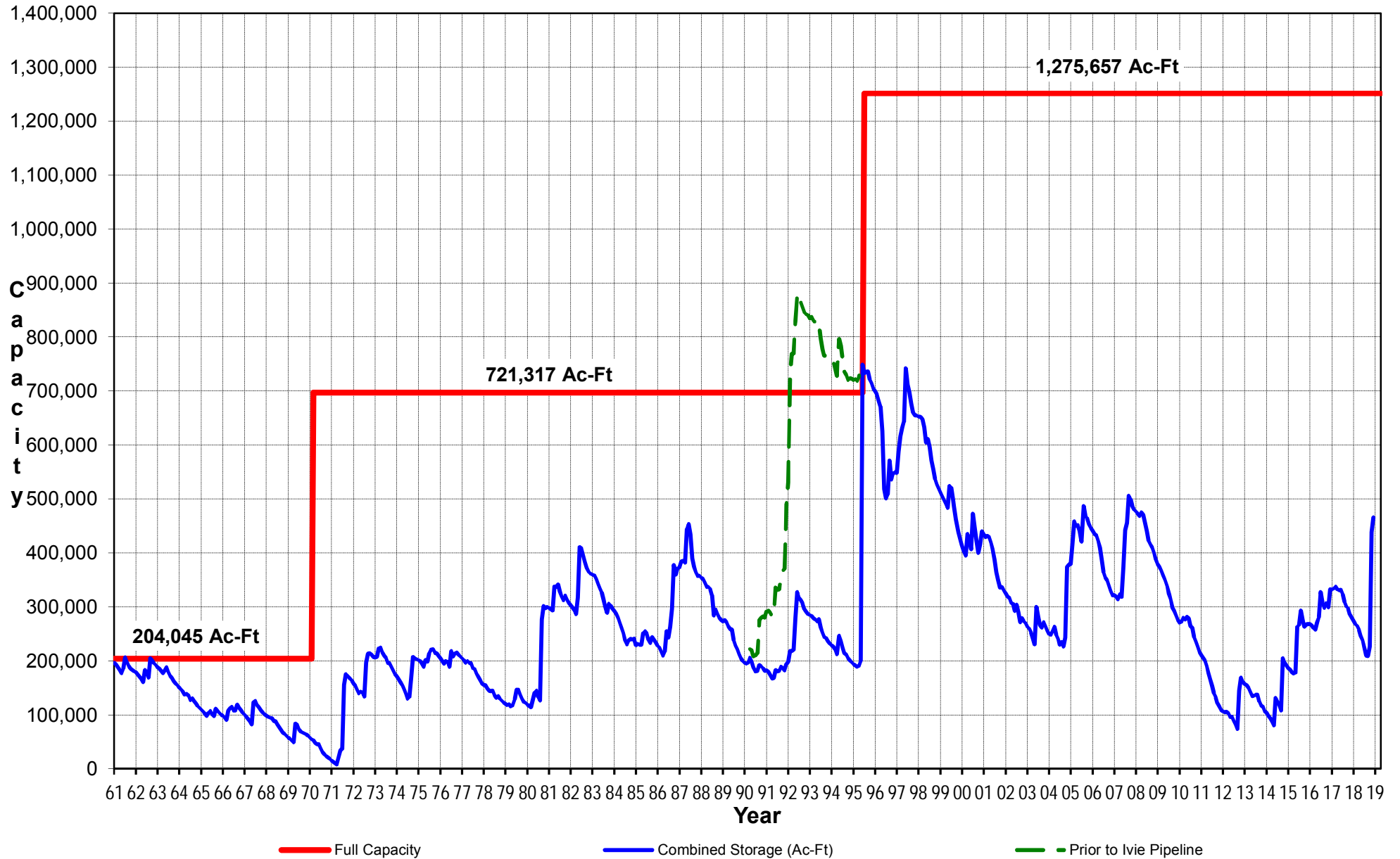
# O.H. IVIE RESERVOIR

Elevation April 1990 - November 2018



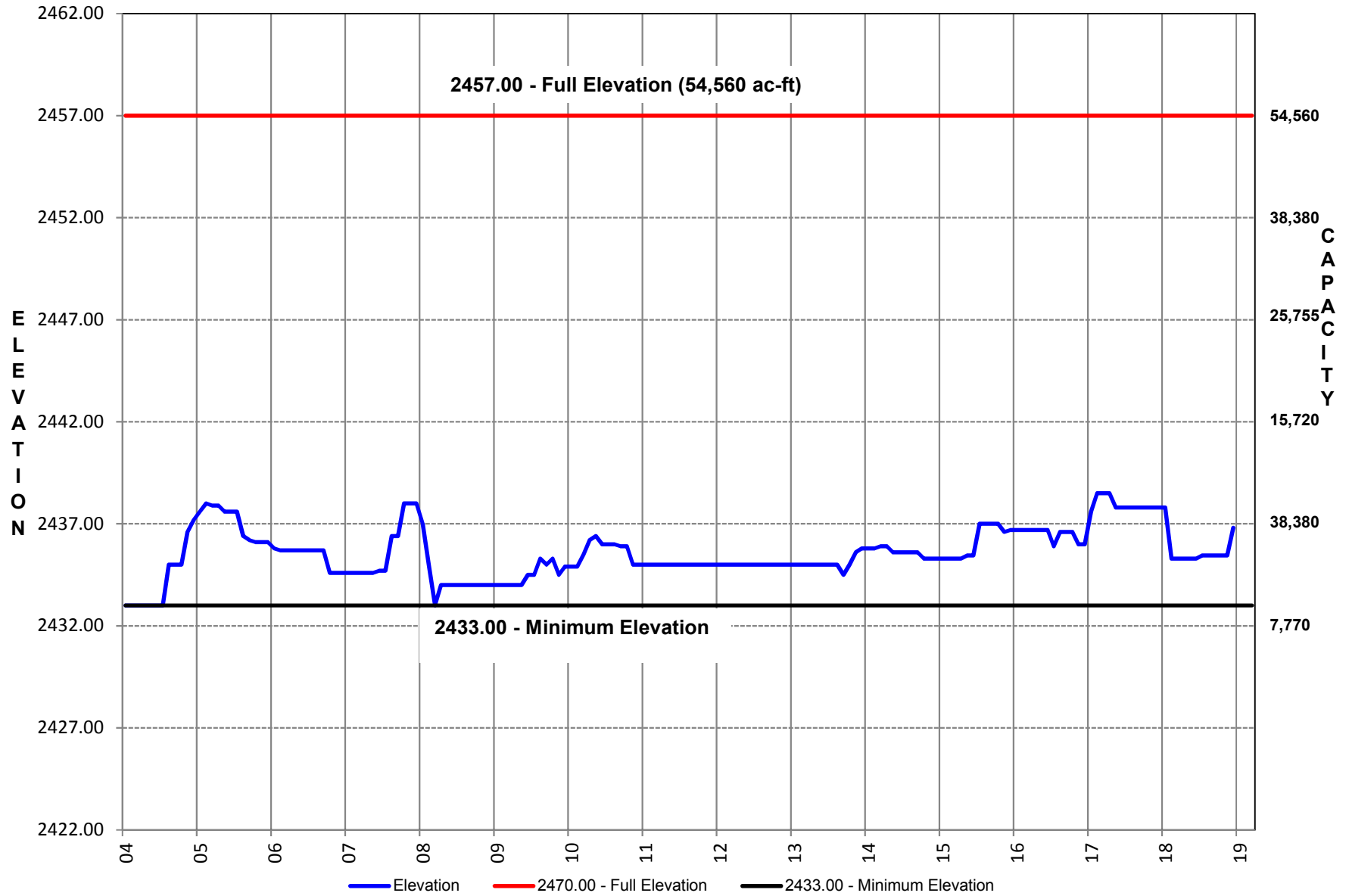
# COLORADO RIVER MUNICIPAL WATER DISTRICT

## COMBINED STORAGE Thomas, Spence, Moss, Ivie



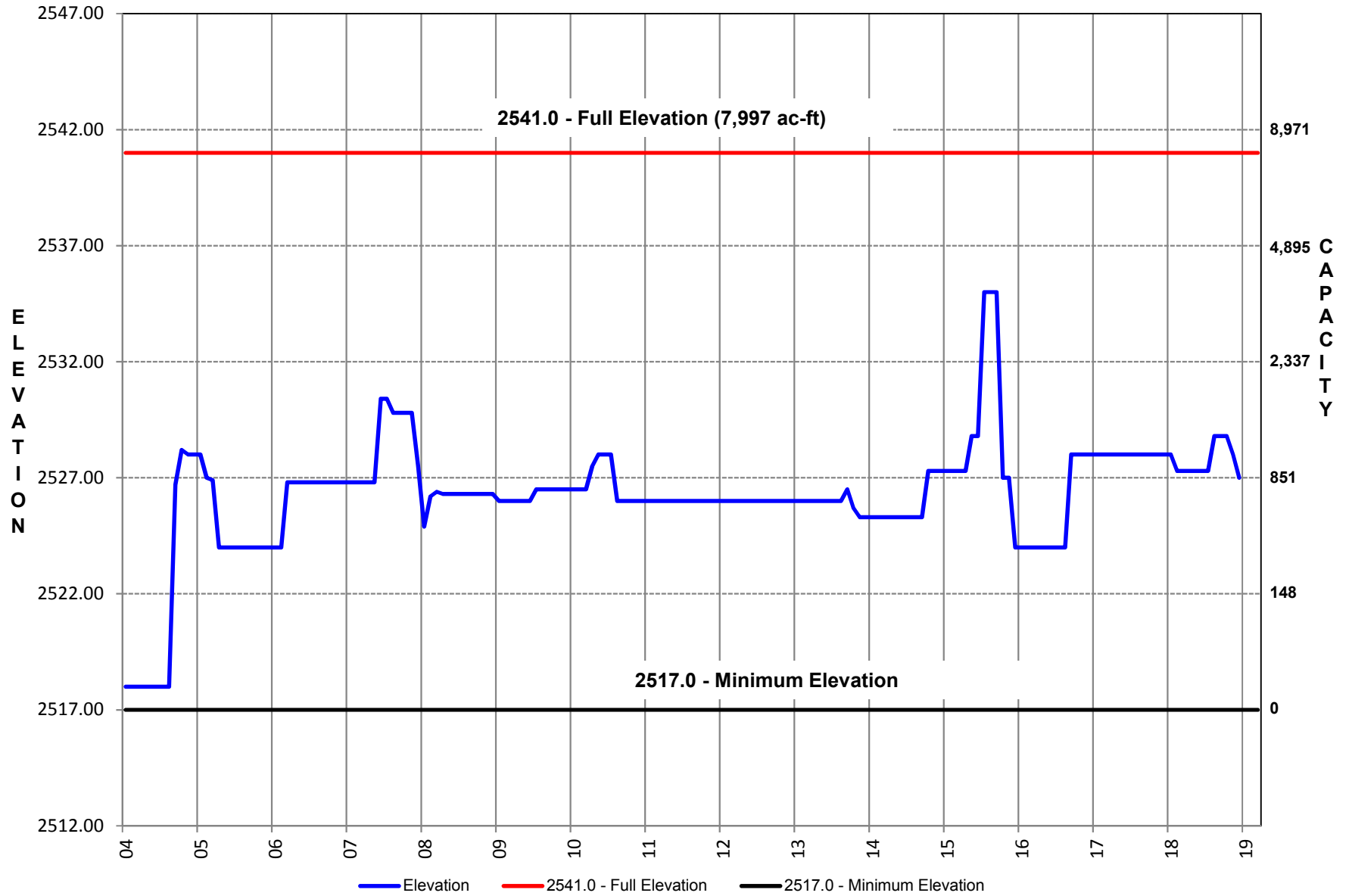
# Natural Dam Reservoir

## Elevation January 2004 - November 2018



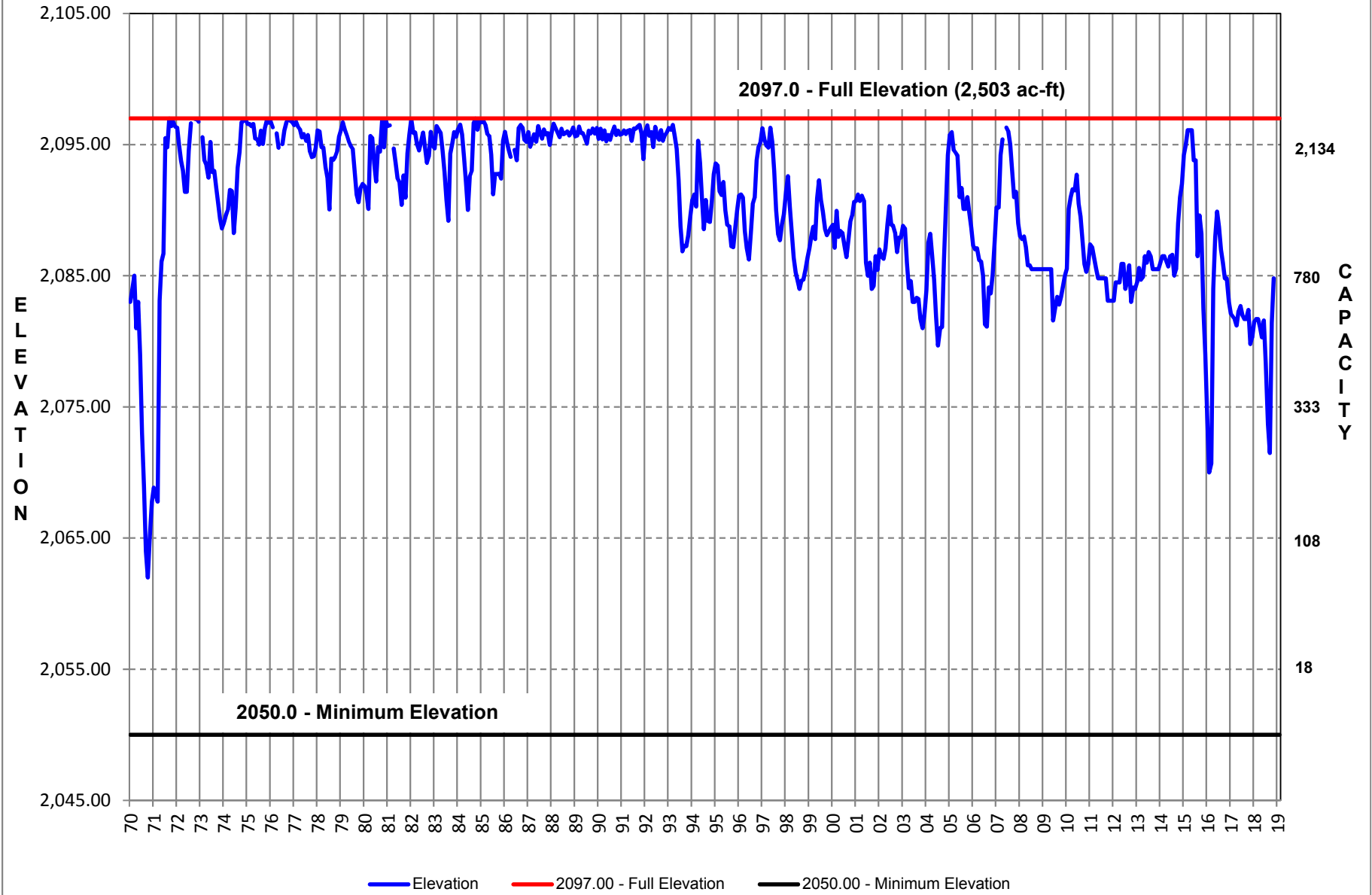
# Sulphur Draw Reservoir

Elevation January 2004 - November 2018



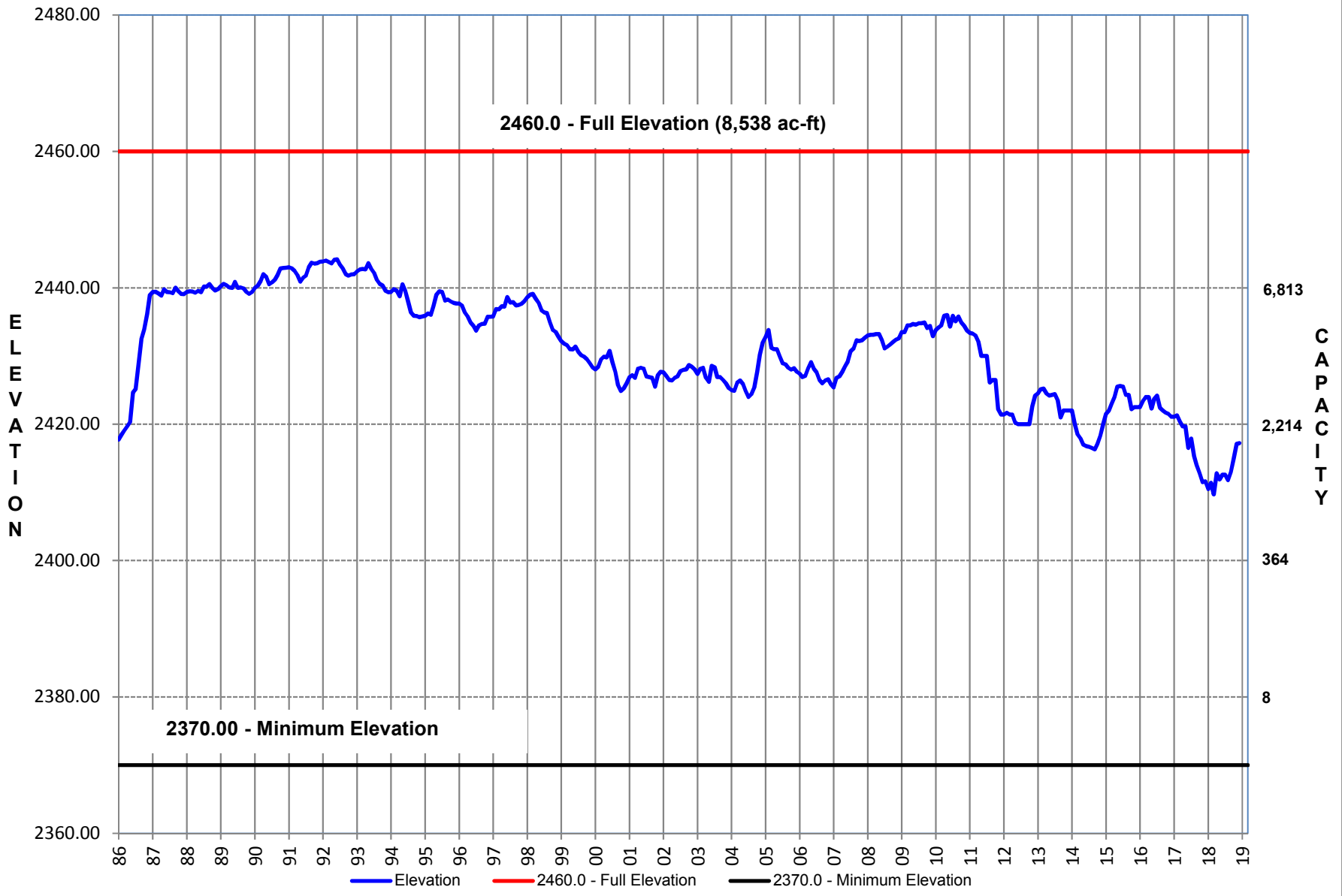
# Barber Lake

Elevation February 1970 - November 2018



# Red Draw

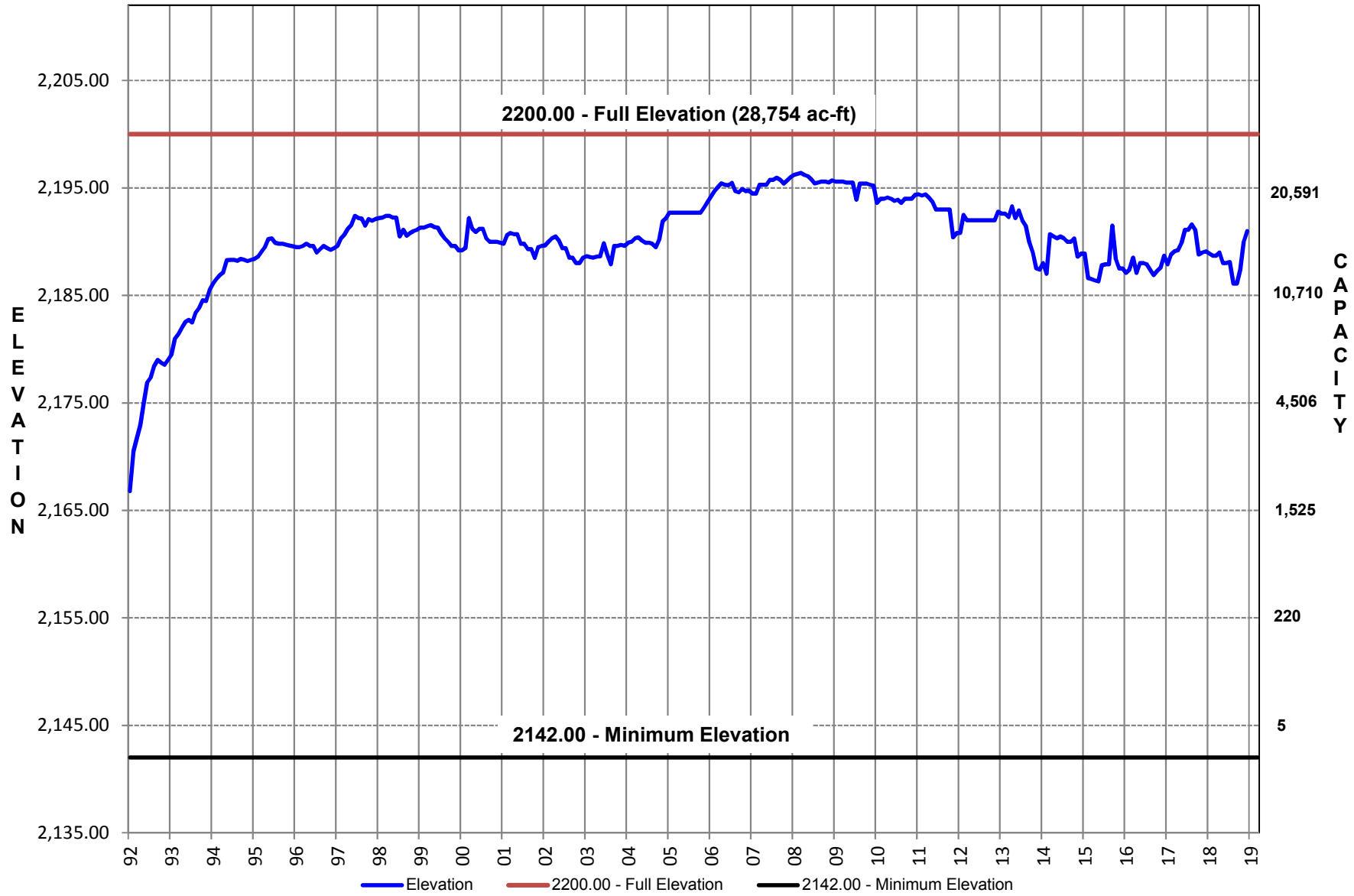
## Elevation January 1986 - November 2018





# Mitchell County Reservoir

## Elevation January 1992 - November 2018

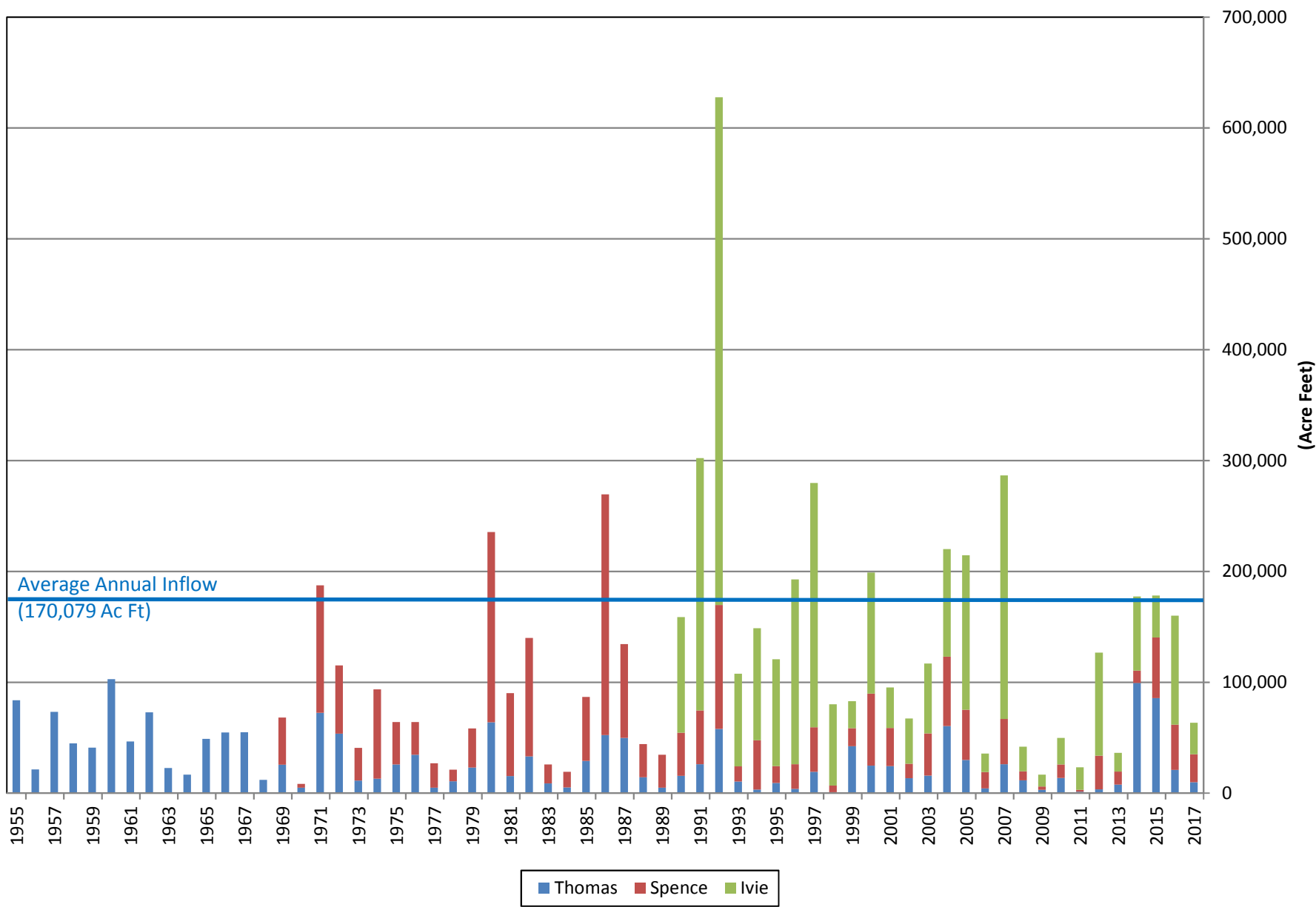


# **Annual Historical Data**

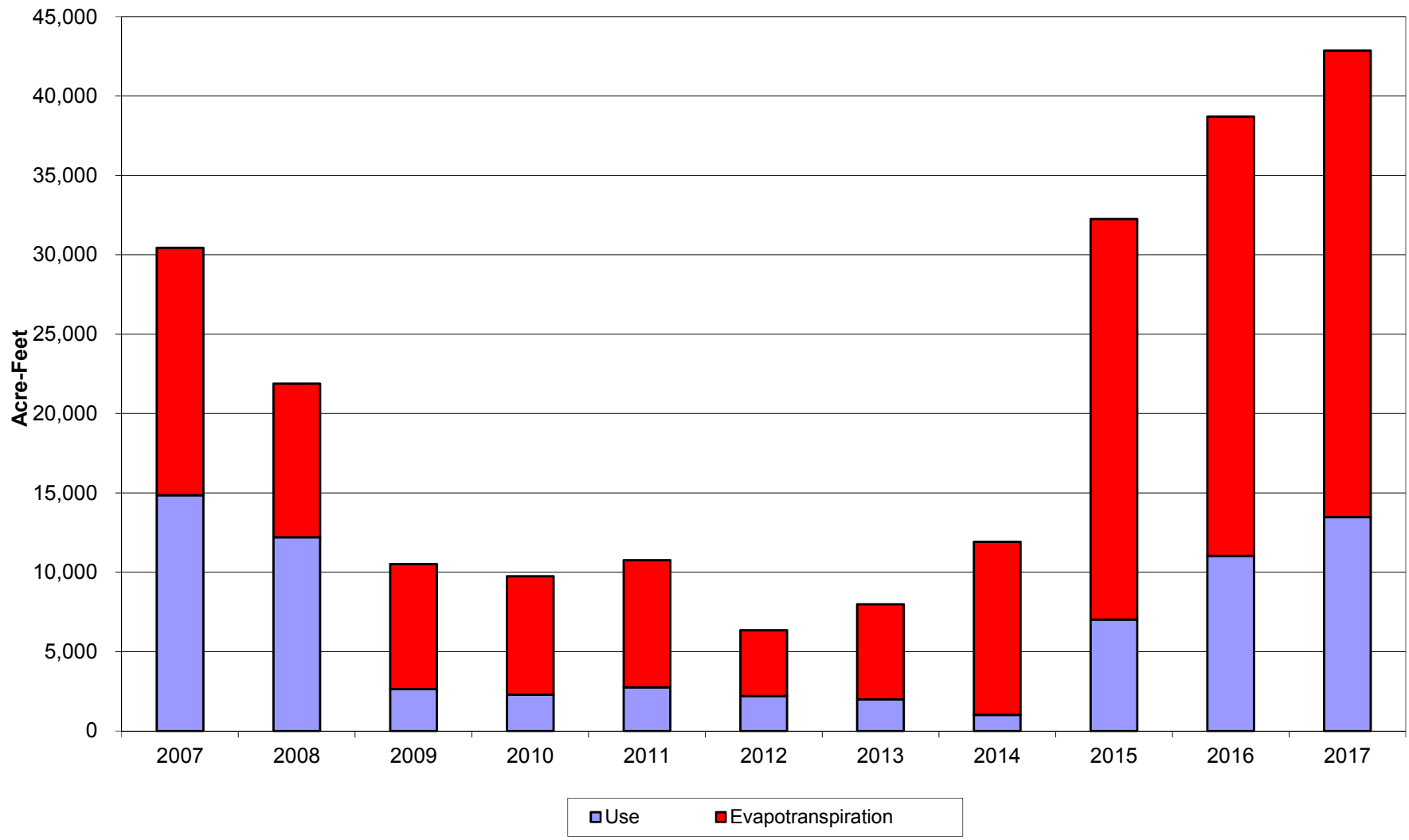
COLORADO RIVER MUNICIPAL WATER DISTRICT  
RESERVOIR INFLOW SUMMARY

Calendar Year	J.B. Thomas (AC-FT)	E.V. Spence (AC-FT)	O.H. Ivie (AC-FT)	Total (AC-FT)
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>30,092</b>	<b>43,719</b>	<b>96,269</b>	<b>170,079</b>

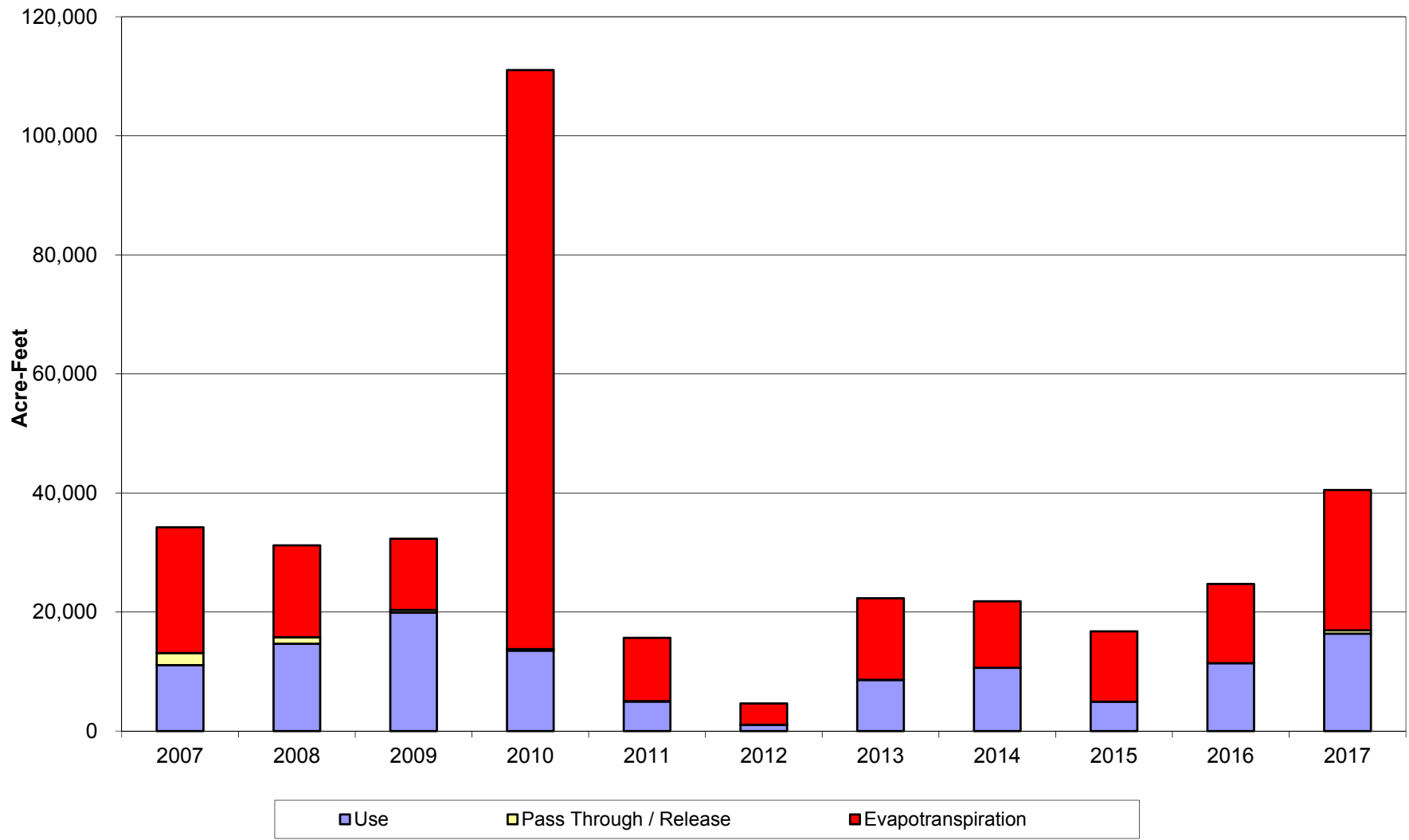
## Combined Inflow (1955 through 2017)



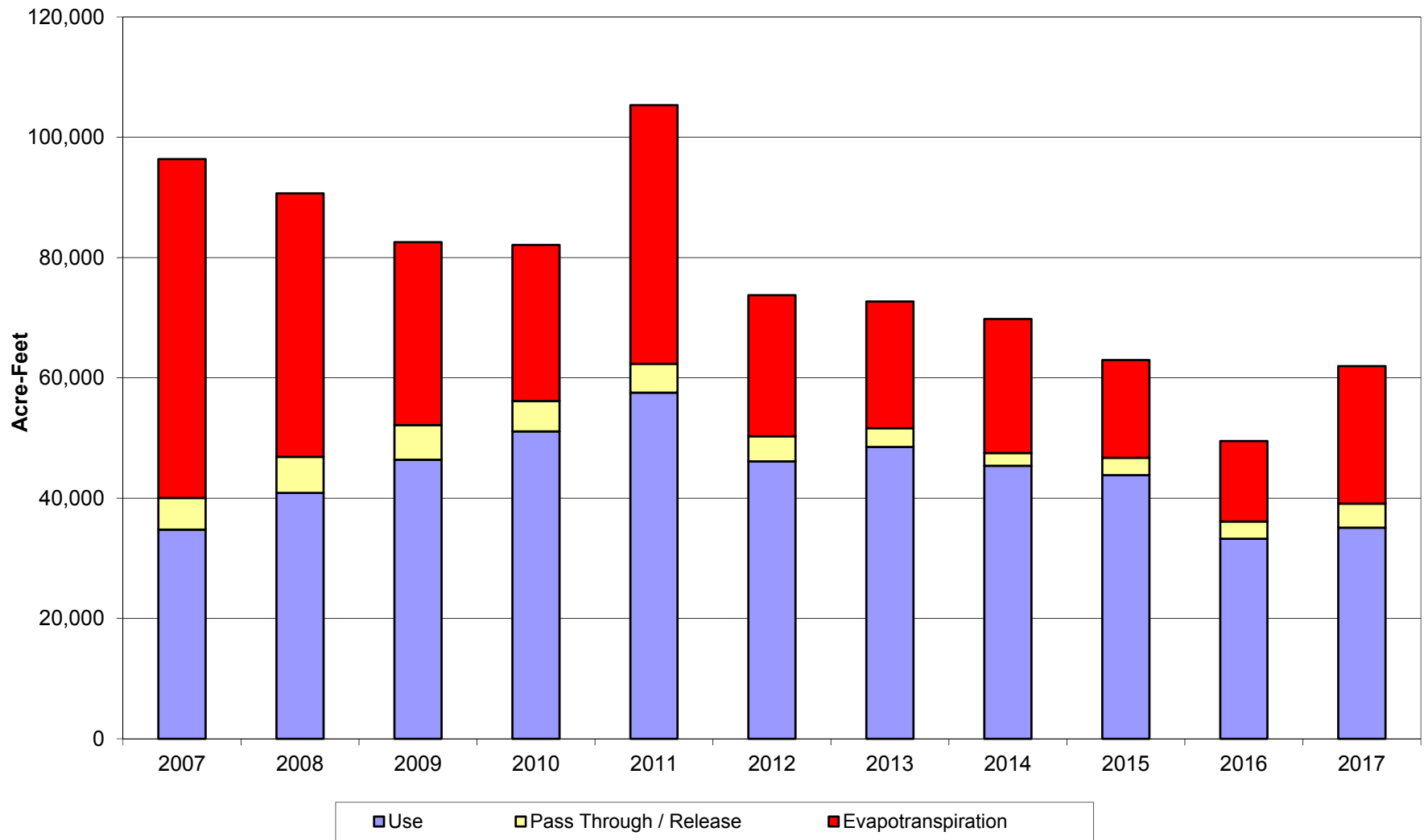
Lake J.B. Thomas  
January 2007 thru December 2017



**E.V. Spence Reservoir  
January 2007 thru December 2017**



Ivie Reservoir  
January 2007 thru December 2017



# Colorado River Municipal Water District Historical Water Delivery - FY 1952 - 2017

