

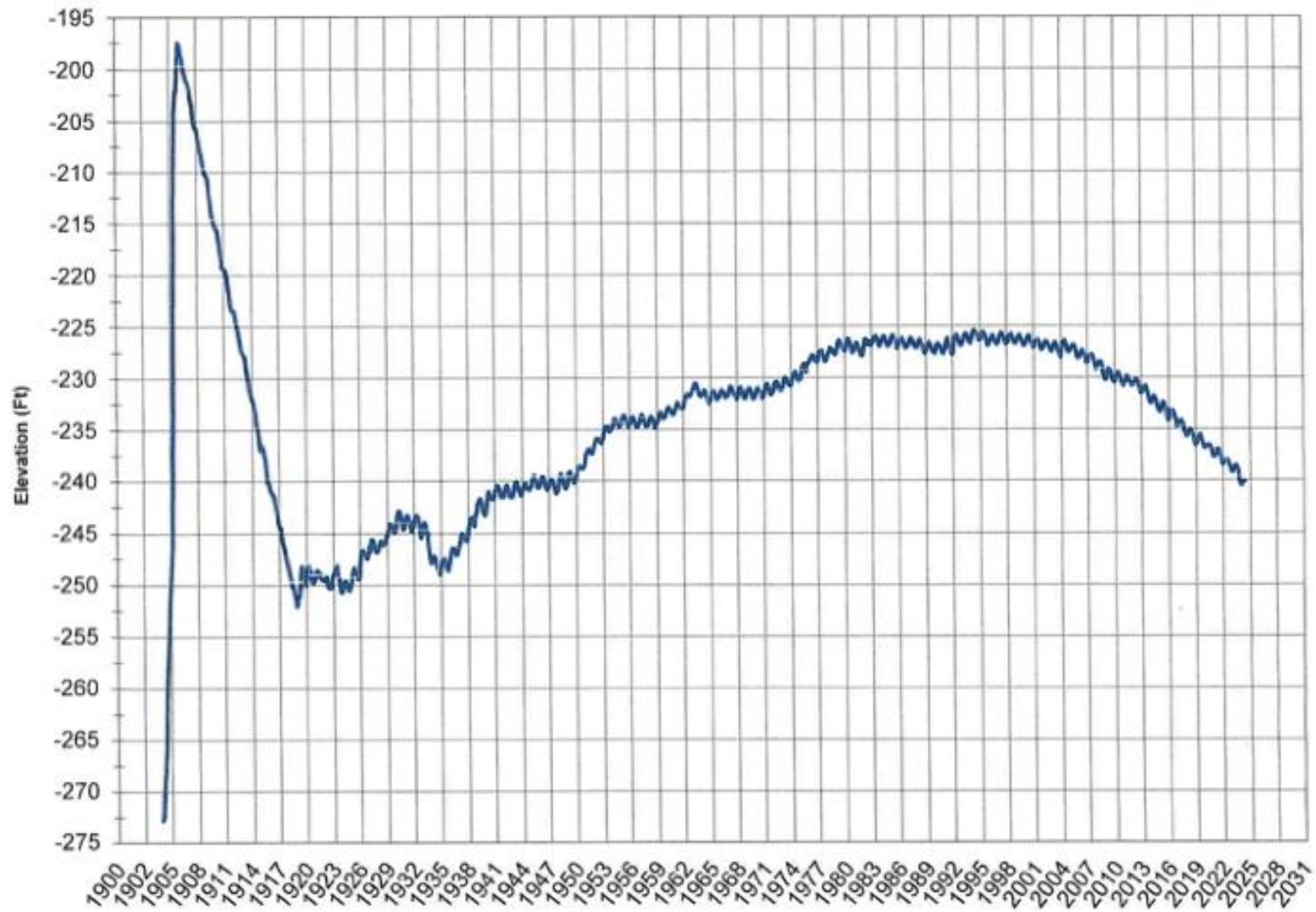


Speaker: Larry Cox

Imperial Valley Salton Sea Conference

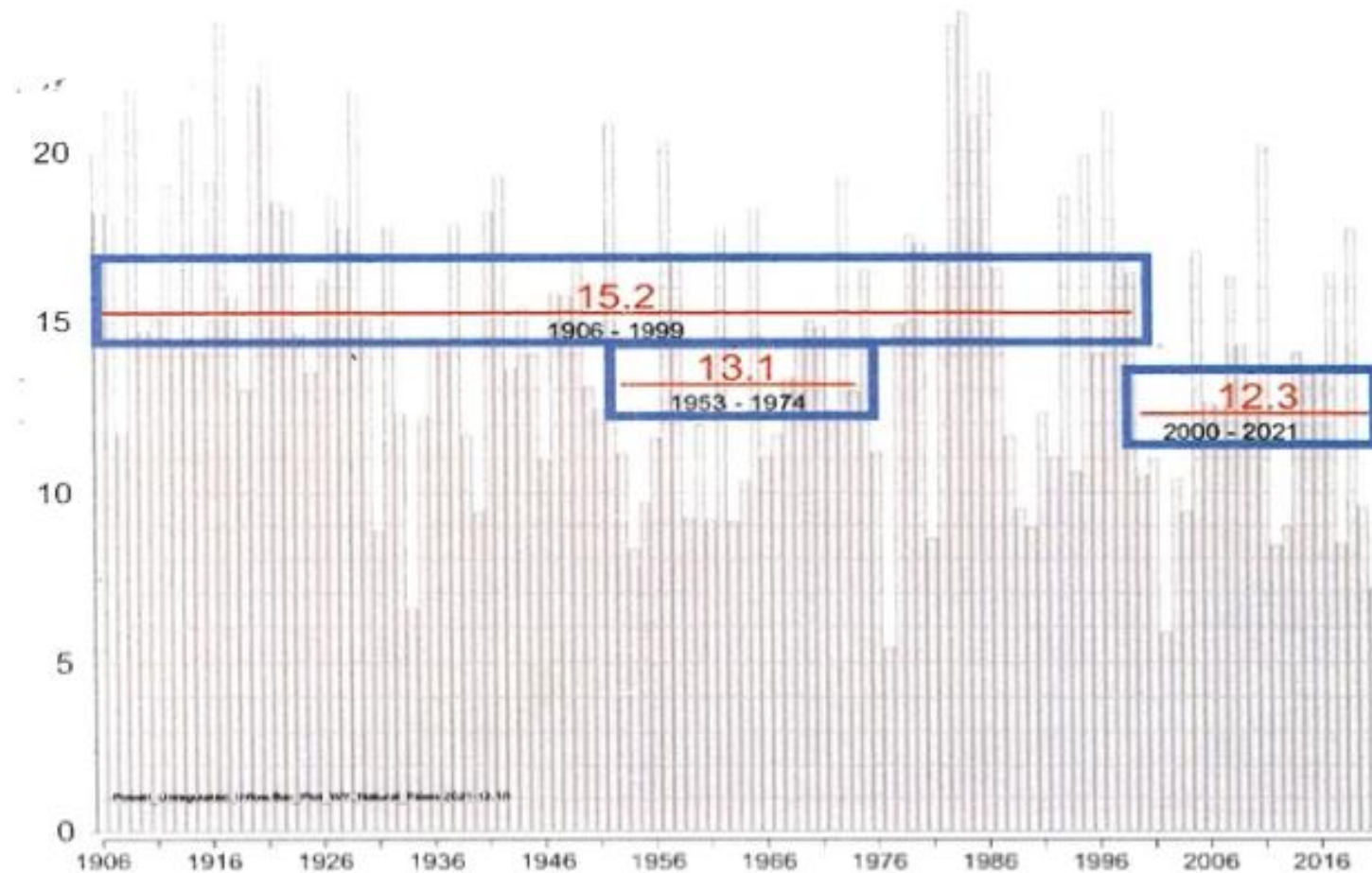
May 9, 2025

Salton Sea at Fig Tree John
Historical Monthly Elevations



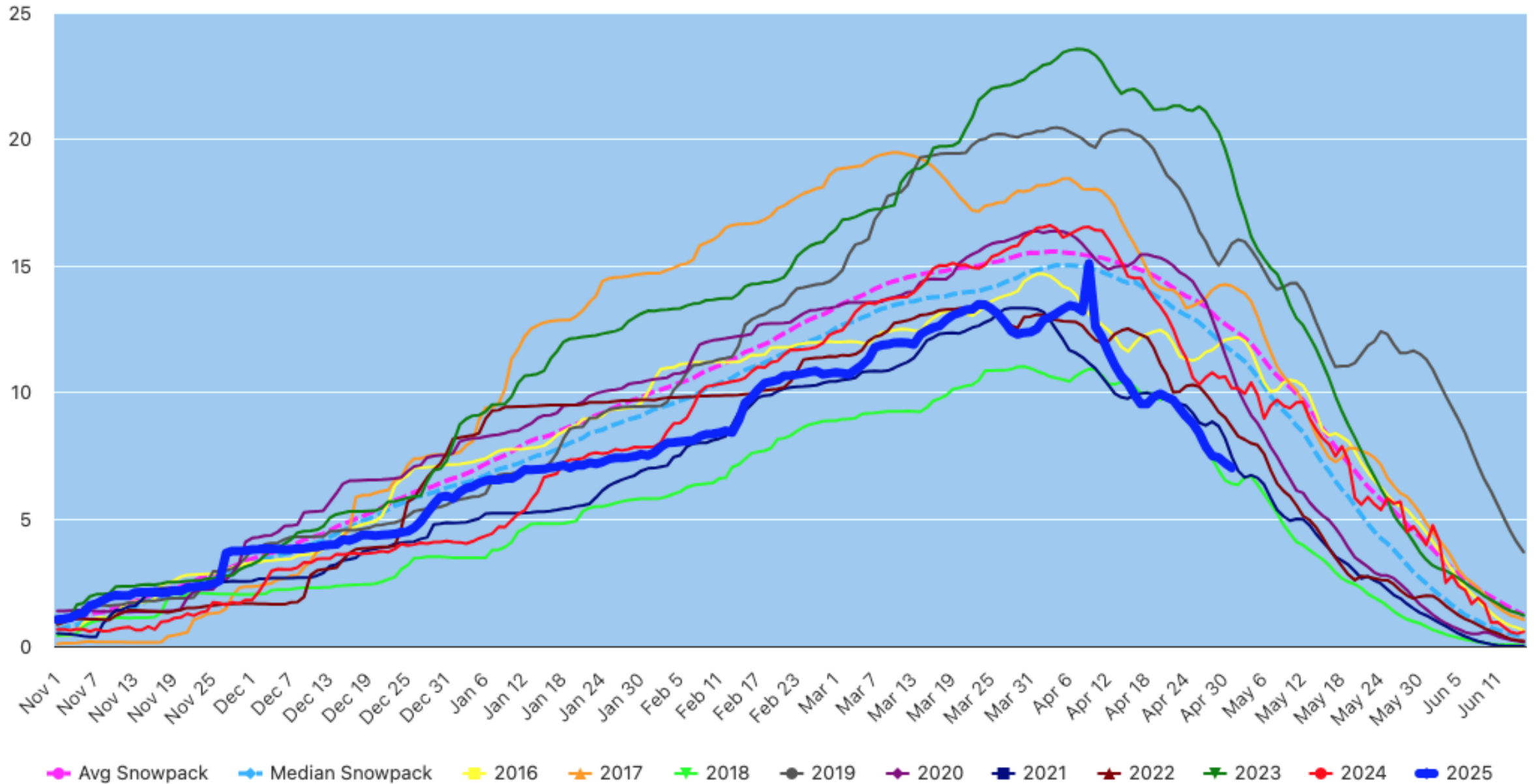
Natural Flows: down 20% from 20th Century average

Half the high flow years (>15maf) and Double the low flow years (<10maf)



Upper Colorado Basin Snowpack (SWE past 10 years)

SWE is the inches of water in a volume of snow, measured by weight



**IMPERIAL IRRIGATION DISTRICT
PROVISIONAL WATER BALANCE
Calendar Year (2017 - 2021)
Volume (acre-feet)**

Accounting Center: Drainage System

Inflow		Year						
Component	Source	2017	2018	2019	2020	2021	CI	
120511	Alamo River Flow from Mexico	WIS	655	655	655	658	655	2.0%
120512	New River Flow from Mexico	USGS/WIS	68,549	60,510	63,927	63,333	61,877	2.0%
140500	Mesa Storm Inflows to Drain	Est	6,018	3,598	8,318	7,402	4,654	100.0%
170240	External Subsurface Inflows	Est	20,000	20,000	20,000	20,000	20,000	100.0%
300500	Main Canal Spill	WIS	1,080	7,483	13,116	8,928	6,437	15.0%
300510	Main Canal Spill Due to Rainfall	WIS	849	1,426	2,099	1,310	1,281	15.0%
310500	Lateral Canal Spill	Calc	112,564	109,677	117,746	121,430	129,689	15.8%
300160	QSA Salton Sea Mitigation Water	WIS	103,512	148	15	0	0	15.0%
300240	Canal Seepage	Est	92,754	92,790	91,030	89,871	91,974	25.0%
250300	Non-Ag Return Flow to IID Drains	Est	35,411	34,944	34,905	36,286	36,077	50.0%
400240	Ag Land Rainfall Runoff & Deep Perc.	Calc	9,760	9,467	20,872	17,345	4,027	100.0%
250240	Non-Ag Land Rainfall Runoff & Deep Perc.	Calc	4,203	2,505	5,817	5,151	3,279	100.0%
600240	Envr Land Rainfall Runoff & Deep Perc.	Calc	47	28	62	50	1	100.0%
700240	Recr Land Rainfall Runoff & Deep Perc.	Calc	46	26	35	84	1	100.0%
180500	Rainfall on Drains and Phreatophytes	Calc	1,981	1,184	2,737	2,436	1,531	43.0%
180510	Rainfall on Rivers and Phreatophytes	Calc	526	315	728	648	407	43.0%
400500	Ag Land Tilewater	Calc	390,556	383,155	389,009	386,752	433,310	35.0%
400510	Ag Land Tailwater	Close (Drainage)	318,888	402,497	341,849	346,255	339,772	30.2%
600500	Envr Tailwater	Close (Envr)	216	458	1,074	2,829	4,111	100.0%
700500	Recr Tailwater	Close (Recr)	1,089	1,336	1,851	1,969	2,431	40.0%
Total Inflow			1,168,504	1,132,202	1,115,845	1,112,737	1,141,514	
Date Run			07/19/2019	12/04/2019	05/07/2021	05/11/2021	01/31/2022	

*95% Confidence Interval

In some years, due to rounding, total inflows and outflows may be different by as much as 200 acre-fe

NR = No Record

Prepared By: WIS, IID

04/19/2022

**IMPERIAL IRRIGATION DISTRICT
PROVISIONAL WATER BALANCE
Calendar Year (2017 - 2021)
Volume (acre-feet)**

Accounting Center: Drainage System

Outflow			Year					CI*
			2017	2018	2019	2020	2021	
Component	Source							
510161	Alamo River Flow to Salton Sea	USGS/WIS	534,407	569,540	555,323	553,581	577,917	2.3%
510162	New River Flow to Salton Sea	USGS/WIS	398,348	328,513	318,893	327,698	337,197	2.0%
510163	Direct-to-Sea Drain Flow	WIS	99,213	96,282	106,460	92,781	97,014	20.0%
240160	Subsurface Flow to Salton Sea	Est	1,000	1,000	1,000	1,000	1,000	100.0%
500180	Drain Evap. & Phreatophytes ET	Calc	74,309	73,890	72,833	75,238	67,686	27.2%
510180	River Evap. & Phreatophytes ET	Calc	19,753	19,642	19,361	20,000	17,993	27.2%
300241	QSA Seepage Interception	WIS	34,722	36,542	36,945	38,568	37,387	2.0%
300242	IID Seepage Interception	Input	6,754	6,790	5,030	3,871	5,974	5.0%
Total Outflow			1,168,506	1,132,199	1,115,845	1,112,737	1,142,168	
Date Run			07/19/2019	12/04/2019	05/07/2021	05/11/2021	01/31/2022	

*95% Confidence Interval

In some years, due to rounding, total inflows and outflows may be different by as much as 200 acre-fe

NR = No Record

Annual Water Accounting Summary

All Values are Consumptive Use Volumes in Acre-Feet at Imperial Dam

Year	Misc PPRs	Conserved Water								Total Conservation
		IID/MWD Efficiency (1988 Agreement)	Alt-American Canal Lining	San Diego County Water Authority Conservation	Salton Sea Mitigation Conservation	Exhibit C Payback Conservation	ICPP Conservation Payback	ICS Conservation	Coachella Valley Water District Conservation	
2003	11,500	105,130	--	3,445	0	0	--	--	0	108,575
2004	11,500	101,900	--	20,000	15,000	48,149	0	--	0	185,049
2005	11,500	101,940	--	30,000	15,000	31,266	0	--	0	178,206
2006	11,500	101,160	--	40,000	20,000	37,154	0	1,000	0	199,314
2007	11,500	105,000	--	50,000	25,021	34,831	1,263	0	0	216,115
2008	11,500	105,000	8,898	50,000	26,085	0	16,197	0	4,000	210,180
2009	11,125	105,000	65,577	60,000	30,133	0	0	13,797	8,000	282,507
2010	11,500	105,000	67,700	70,000	33,761	0	0	0	6,809	283,270
2011	11,500	103,940	67,700	63,278	0	0	0	10,528	16,000	261,446
2012	11,500	104,140	67,700	106,722	15,182	0	14,299	0	21,000	329,043
2013	11,500	105,000	67,700	100,000	71,398	0	93,057	0	26,000	463,155
2014	11,500	104,100	67,700	100,000	89,168	0	117,391	37,735	31,000	547,094
2015	11,500	107,820	67,700	100,000	153,327	0	0	45,477	36,000	510,324
2016	11,500	105,000	67,700	100,000	130,796	0	0	70,077	41,000	514,573
2017	9,913	105,000	67,700	100,000	105,311	0	0	80,937	45,000	503,948
2018	9,705	105,000	67,700	130,000	0	0	0	130,197	63,000	495,897
2019	6,992	105,000	67,700	160,000	46,555	0	0	43,405	68,000	490,660
2020	9,081	105,000	67,700	192,500	0	0	0	51,023	73,000	489,223
2021	9,314	105,000	67,700	205,000	0	0	0	30,008	78,000	485,708
Total	206,631	1,885,130	880,875	1,680,845	776,737	151,400	242,207	514,184	516,800	6,754,287

Salton Sea @ Fig Tree John (Desert Shores)

